Letter Report

Stable Isotope Evaluation of Water Budgets for the White River and Meadow Valley Wash Regional Groundwater Flow Systems in East-Central and Southeastern Nevada

James M. Thomas and Todd M. Mihevc Division of Hydrologic Sciences Desert Research Institute Nevada System of Higher Education

November 2007

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James M. Thomas

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EXECUTIVE SUMMARY

- Stable isotope mass-balance models were developed to evaluate water budgets and interbasin flow for the White River and Meadow Valley Wash regional groundwater flow systems (WRFS and MVWFS, respectively). Water budgets for the regional flow systems are a compilation of recharge and predevelopment evapotranspiration (ET) estimates developed for each valley. Interbasin flow out of a valley is the amount of recharge to a valley plus any groundwater inflow to a valley that exceeds groundwater removed by ET. Three water budgets were evaluated using two different models. The three water budgets that were evaluated are the SNWA (2007), SNWA/BARCAS (SNWA, 2007; Welch and Bright, 2007), and Reconnaissance Report Series water budgets. Interbasin flow routing is based on geologic and hydrologic information (SNWA, 2007) for the SNWA (2007) and SNWA/BARCAS water budget evaluations and is from Eakin (1966) for the WRFS for the Reconnaissance Report Series water budget evaluations.
- Two isotope mass-balance models were used to evaluate the three water budgets. In the first model, groundwater ET is satisfied by a mixture of local recharge with interbasin flow entering a valley (if there is any interbasin flow entering the valley). In the second model, groundwater ET is initially satisfied by local recharge and if ET in a valley exceeds local recharge, the remainder of the ET is satisfied by interbasin flow. The isotopic mass-balance models use average deuterium and oxygen-18 values for recharge and discharge areas to evaluate how closely recharge and ET estimates in the WRFS and MVWFS match measured isotopic values for regional warm (>20 °C) spring discharge areas, small (< 50 afy) warm springs, and consolidated rock and alluvial wells with warm water.
- Both isotope mass-balance models using the SNWA (2007) water budget and interbasin flow routing have calculated deuterium and oxygen-18 values for all regional warm (>20 °C) spring areas that are excellent to acceptable matches with measured values, except for oxygen-18 for one model that was 0.01 permil outside the acceptable range. Furthermore, the mass-balance models have excellent to acceptable matches for calculated values as compared to measured values for all small warm springs and most wells with warm water. Thus, the SNWA (2007) water budget and interbasin flow routing for the WRFS and the MVWFS produce the best isotope mass-balance model results of the three water budgets evaluated and the model results show the water budget is reasonable for these flow systems. The mass-balance models using the SNWA/BARCAS water budget gave similar, but not quite as good, results as the SNWA water budget (two calculated deuterium values, not in the acceptable range for matching measured values of regional warm springs).
- Neither of the stable isotope mass-balance models using the Reconnaissance Report Series water budget for the WRFS and the MVWFS and Eakin (1966) interbasin flow routing for the WRFS produced realistic results. Thus, the Reconnaissance Report Series recharge and ET estimates are not in balance for the WRFS and MWVFS.
- Isotopic variability for six recharge area monitoring springs within the study area was relatively small with standard deviations of deuterium and oxygen-18 data ranging

from 0.7 to 1.6 permil and 0.06 to 0.33 permil, respectively. This range in standard deviation for these six sites is for samples taken quarterly throughout all four seasons with four of the six sites having more than three years of data. The isotopic composition of these springs varied little from season to season as spring flow varied a lot, ranging from about 100 to 2,500 gallons per minute during sample collection, and exceeding 5,000 gallons per minute at peak flow, at the largest discharging monitoring spring. This small amount of isotopic variability of recharge area springs is important for isotopic mass-balance models because this information indicates that the isotopic composition of recharge area groundwater varies little over time.

- Isotopic variability of 12 regional warm springs in the study area was relatively small with the standard deviation of deuterium and oxygen-18 data ranging from 0.5 to 1.9 permil for deuterium and 0.05 to 0.22 (except for one site with a standard deviation of 0.67) permil for oxygen-18. This range in values is for samples taken throughout all four seasons, with some regional warm spring data spanning almost 40 years and a significant number of springs having data that span 20 to 25 years. This lack of isotopic variability of regional warm springs is important for isotopic mass-balance models because this information indicates that the isotopic composition of regional groundwater varies little over time.
- Five recharge areas throughout the study area with 14, or more, springs showed that there was no relationship between stable isotope values and increasing altitude. This is important because the average isotopic composition of all sites in a recharge area could be used to assign average isotopic values to recharge areas, rather than having to use an altitude-precipitation weighting approach.
- Sensitivity analysis was performed on the SNWA (2007) water budget and flow routing mass-balance models by independently increasing or decreasing recharge and ET. The sensitivity analysis showed that when either recharge or ET were increased or decreased by 20 percent, most of the mass-balance model-calculated deuterium and oxygen-18 values were outside the range of acceptable matches for measured values of the Muddy River Springs discharge area. Thus, the SNWA (2007) water budget recharge and ET values balance such that a 20 percent change in either produces unacceptable isotopic mass-balance model results.

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INTRODUCTION

A stable isotope mass-balance model was developed in 2001 to evaluate new groundwater recharge and discharge (predevelopment evapotranspiration [ET]) estimates for the White River and Meadow Valley Wash regional groundwater flow systems that drain to the Colorado River (Thomas et al., 2001). This report is an update of the Thomas et al. (2001) study to evaluate water budgets and regional groundwater flow in eastern and southeastern Nevada. This study includes a significant amount of new data (about 450 new analyses) to help define the isotopic content of groundwater recharge areas both spatially and temporally, new recharge and discharge estimates (SNWA, 2007; Welch and Bright; 2007), and new geologic and hydrologic information (SNWA, 2007) that helps define interbasin groundwater flow routing. The 2001 study only presented one model for new recharge and discharge estimates. The 2001 model assumed that groundwater discharge in a valley was a mixture of local recharge and interbasin flow(s) entering a valley (if there was interbasin flow to the valley). This study presents two models. The first model is like the 2001 model, where ET is satisfied by a mixture of local recharge and interbasin flow. The second model assumes that ET is first satisfied by local recharge and if ET in a valley is greater than the local recharge, the remainder of the ET is satisfied by interbasin flow. This study also evaluated the reconnaissance report series recharge and ET estimates using the Eakin (1966) interbasin groundwater flow directions for the White River flow system (WRFS) for both models.

This study evaluates the same regional groundwater flow systems as the 2001 study, the WRFS and the Meadow Valley Wash flow system (MVWFS) that end at the Colorado River. In this study, the Lake Mead flow system of the 2001 study is included as part of the WRFS. The flow directions for the Lake Mead flow system, that is now part of the WRFS, are the same as for the 2001 study.

Stable isotopes of water, deuterium $({}^{2}H/{}^{1}H)$, and oxygen-18 $({}^{18}O/{}^{16}O)$ are ideal natural tracers to evaluate water budgets and interbasin flow. They are ideal natural tracers because they are part of the water molecule, rather than being dissolved in the water like most tracers, so they can be used to identify sources and flow paths of groundwater from recharge areas to discharge areas. Furthermore, deuterium and oxygen-18 concentrations are only affected by physical processes, such as evaporation, and are unchanged by chemical reactions. The ratio of the mass difference of ${}^{2}H$ as compared to ${}^{1}H$ (2/1) is significantly greater than that of ${}^{18}O$ to ${}^{16}O$ (18/16), so the fractionation of deuterium is greater than the fractionation of oxygen-18 during physical processes and water that has undergone any significant evaporation is easily identified. Isotopic fractionation is the change in concentration of deuterium and oxygen-18 that results from the mass differences during physical processes.

Study Area Description

The area covered by this project is the White River and Meadow Valley Wash regional groundwater flow systems in east-central and southeastern Nevada (Figure 1). The WRFS extends from Long Valley in the north to Lake Mead in the south (Figure 2). A groundwater hydraulic gradient extends from Long Valley all the way to Lake Mead. In the

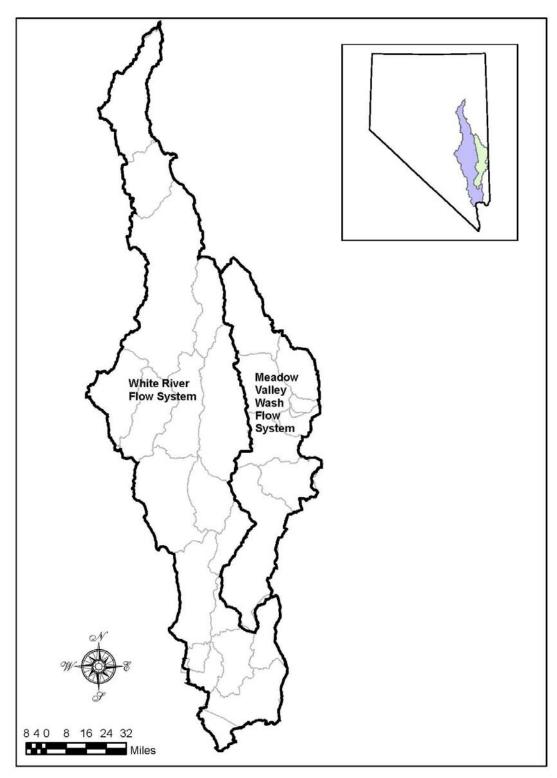


Figure 1. Study area location showing the White River and Meadow Valley Wash regional groundwater flow systems.

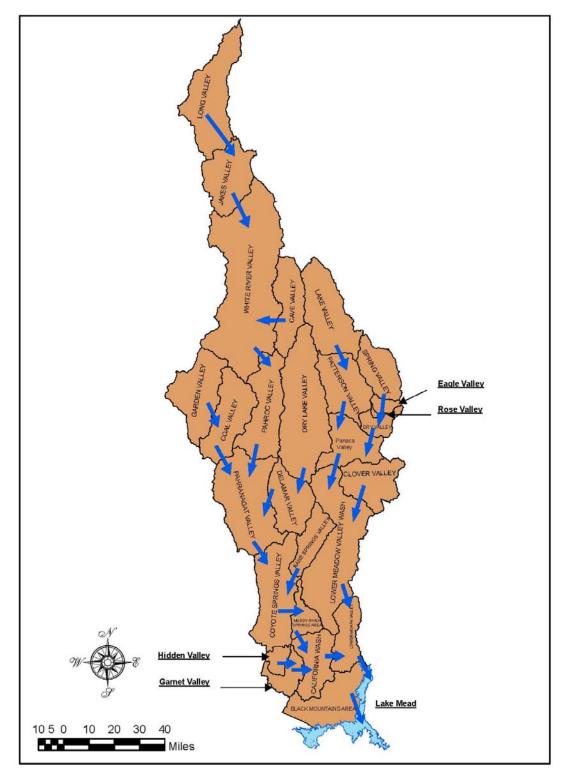


Figure 2. Groundwater flow directions as delineated by SNWA (2007) in the White River and Meadow Valley Wash regional groundwater flow systems.

Thomas *et al.* (2001) report, the Lake Mead part of the regional flow system was treated as a connected but separate flow system, but in this report, it is treated as part of the WRFS. The MVWFS extends from Lake Valley in the north and Spring Valley in the northeast (this Spring Valley is a small valley southeast of Lake Valley and not the large Spring Valley to the north of Lake Valley) to Lower Meadow Valley Wash. Groundwater in Lower Meadow Valley Wash flows to Upper Moapa Valley (Muddy River Springs area) and California Wash of the WRFS. Hydraulic gradients extend from Lake Valley and Spring Valley to Panaca Valley, from Panaca Valley to Lower Meadow Valley Wash, and from Lower Meadow Valley Wash to Upper and Lower Moapa valleys and California Wash (Thomas *et al.*, 1986; LVVWD, 2001; SNWA, 2007).

Isotope Data

Most of the data used in the stable isotope mass-balance models were collected by Desert Research Institute (DRI) personnel and analyzed at the University of Nevada, Reno, Isotope Laboratory. Some additional samples were collected by SNWA personnel and these samples were also analyzed at the University of Nevada, Reno, Isotope Laboratory. Historical data used in this project were collected and analyzed by DRI at the DRI Isotope Laboratory in Las Vegas, Nevada, or the U.S. Geological Survey (USGS) at USGS isotope laboratories in Reston, Virginia, and Menlo Park, California.

Stable Isotope Mass-balance Models

The stable isotope mass-balance models developed for this study use the stable isotopes of water (deuterium and oxygen-18) to evaluate water budgets (groundwater recharge and discharge) and interbasin flow. As noted in the Introduction section, these stable isotopes are only subject to physical processes, they are not involved in chemical reactions. The main physical process that can change deuterium and oxygen-18 values in the study area is evaporation. Any groundwater that has undergone significant evaporation is not included in the isotope mass-balance models. A groundwater sample is assumed to have undergone significant evaporation if the deuterium value calculated from the oxygen-18 value of the sample is 10 permil (‰), or more, positive than the measured deuterium value. These samples are easily identified on deuterium versus oxygen-18 plots because they plot below (to the right of) the line "deuterium = 8 x oxygen-18."

Groundwater budgets are evaluated by determining the average deuterium and oxygen-18 values of mountain block recharge areas in a valley. Valleys in east-central and southeastern Nevada generally have two main recharge areas, a mountain block on the east side and a mountain block on the west side of the valley. However, no matter if there are two, or more then two, recharge areas within a topographic basin (valley) they are treated separately and assigned their own average deuterium and oxygen-18 values. Deuterium and oxygen-18 values are assigned to recharge areas by taking the average stable isotope values of all the springs sampled in a recharge area. If a spring site contains more than one sample, then the average deuterium and oxygen-18 values of the recharge area.

These recharge area springs are used to represent the isotopic composition of groundwater recharge to a mountain block because they represent an integration of many recharge events and they often integrate recharge over large areas. These springs are great

integrators of recharge that is derived from precipitation in mountainous recharge areas because they: (1) average out the variability of individual precipitation events that become groundwater recharge; (2) account for the loss of most of the precipitation that does not become groundwater recharge (such as summer precipitation that seldom reaches the saturated zone and sublimation of the snow pack); (3) average out the seasonality of recharge (see Data Variability section for more details); and (4) represent a larger area than a single measurement point such as a precipitation.

The stable isotopic composition of groundwater discharging from springs, or in wells on valley floors, can be used to validate the isotope mass-balance models and how well recharge and discharge estimates and volumes of interbasin flow represent water budgets of regional groundwater flow systems. In particular, the isotopic composition of large regional warm (>20°C, which represents an average flow depth of several thousand feet) springs can be used to evaluate water budgets and interbasin flows. These warm springs represent flow from an upgradient basin(s) that flows at depth into the valley containing the warm spring(s). Other data that offer evaluation points for water budgets and interbasin flow are wells completed in consolidated rock that contain warm (>20°C) water from regional groundwater flow. Additional information that can be used to evaluate water budgets in regional flow systems includes springs on valley floors along range front faults that are generally cool (<20°C). This information is used to evaluate mountain block recharge. If the average isotopic composition of springs in a mountainous recharge area represents the isotopic composition of recharge from that mountain block then springs along range-bounding faults should have similar isotopic compositions as the average recharge values determined from springs in the recharge area.

As presented in the Introduction, two isotope mass-balance models were used to evaluate water budgets and interbasin flow in the study area. The first model assumes that all groundwater discharge in a basin (ET; in valleys with spring discharge the spring discharge is included in the ET estimate, except for Upper Moapa Valley, where regional spring discharge leaves the valley as surface-water flow) is a complete mixture of local recharge to the valley and interbasin flow entering the valley. The second model assumes that all ET is first satisfied with local recharge and then any ET greater than local recharge is satisfied with interbasin flow. Finally, in both models, the isotopic composition of groundwater discharging from regional warm springs and wells completed in consolidated rock with warm groundwater is assumed to be interbasin flow into the valley. If a valley receives interbasin flow from more than one upgradient valley, then the calculated isotopic value of the warm spring or well water is the volume-weighted average of the interbasin flows.

DEUTERIUM AND OXYGEN-18 VARIABILITY

An important consideration in using deuterium and oxygen-18 to evaluate water budgets is their natural variability. This variability includes the spatial distribution of stable isotope values of springs in mountain block recharge areas, potential variability with altitude in recharge areas, and variability of recharge area spring isotopic values over time and with varying spring flows. Additionally, the isotopic variability of regional warm springs over time also needs to be considered. Ideally, isotopic variability will be small so that isotope mass-balance model solutions do not have a large uncertainty associated with them. Since the Thomas *et al.* (2001) study, about 450 samples have been collected and analyzed for stable isotopes and major-ion chemistry to evaluate the isotopic variability of recharge area groundwaters and regional warm springs.

Recharge Area Isotopic Variability

A large amount of isotopic data has been collected in recharge areas during this study (Appendix 3). Three springs in major recharge areas of the WRFS and MVWFS (Monitoring Spring WR1 in the White Pine Range, Upper Terrace Spring WR2 in the Egan Range, and Patterson Pass Spring WR3 in the Schell Creek Range) have been continuously monitored for flow, water temperature, and electrical conductance and sampled quarterly for deuterium, oxygen-18, pH, and major-ion chemistry from October 2003 to the present. In addition, one recharge area spring (Headwaters Spring WR5 in the Wilson Creek Range) has been monitored and sampled from May 2004 to the present, one recharge area spring (Upper Riggs Spring WR4 in the Delamar Mountains) was monitored and sampled from April 2004 to February 2005 until the monitoring site was destroyed by a flood, and the Upper Riggs Spring monitoring site was moved to Grapevine Spring KSV-2 in the adjacent Meadow Valley Mountains, and this spring was monitored from April 2005 to May 2007. Numerous recharge area springs were also sampled for stable isotopes and major-ion chemistry to provide information for recharge areas that had little or no isotopic data in the Thomas et al. (2001) study and to provide more data for all mountainous recharge areas throughout the study area.

Continuous flow and quarterly deuterium data for recharge area monitoring springs are shown in Figures 3 through 6 (oxygen-18 is not shown on the plots because it is strongly correlated with deuterium and follows the same trend as deuterium). As is observed in all plots, the deuterium composition of the springs varies little with change in flow or season. For example, deuterium in Monitoring Spring WR1 in the White Pine Range only varies between -115.7 and -111.2‰ for a range in flow of about 100 to 2,500 gallons per minute and for the time period October 2003 to May 2007 (Figure 3 and Table 1). Oxygen-18 for these same samples varies between -15.69 and -15.32‰. During this period 14 samples were collected with an average deuterium value of -113.7‰ and a standard deviation of 1.3‰ and an average oxygen-18 value of -15.58‰ with a standard deviation of 0.11‰ (Table 1). A similar pattern is observed for the other five recharge area monitoring springs in the study area (Figures 4 through 6 and Table 1). Table 1 presents a summary of the data in Figures 3 through 6 and data for the shorter records at Upper Riggs Spring WR4 in the Delamar Range and Grapevine Spring (KSV-2) in the Meadow Valley Mountains, with minimum, maximum, median, mean, and standard deviation values for the isotopic data for all six recharge area monitoring sites. The greatest range in deuterium values for all six sites is 5.4‰ for the Headwaters Spring site in the Wilson Creek Range for 17 samples from May 2004 to May 2007, and the smallest range is 1.8% for 5 samples from January 2004 to February 2005 for the Upper Riggs site (Table 1). The standard deviation of the spring deuterium data is about 1‰, with the highest standard deviation being 1.6 for Headwaters Spring and the lowest being 0.7 for Upper Riggs Spring. Oxygen-18 follows a similar pattern, with the standard deviation ranging from 0.06 to 0.33‰ for the six recharge area monitoring sites (Table 1).

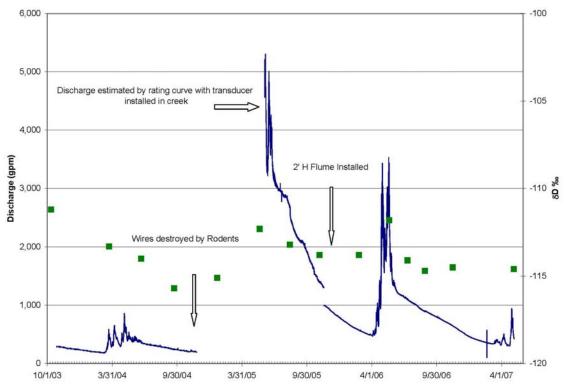


Figure 3. Deuterium and flow data for Monitoring Spring WR1 in the White Pine Range in northwestern White River Valley.

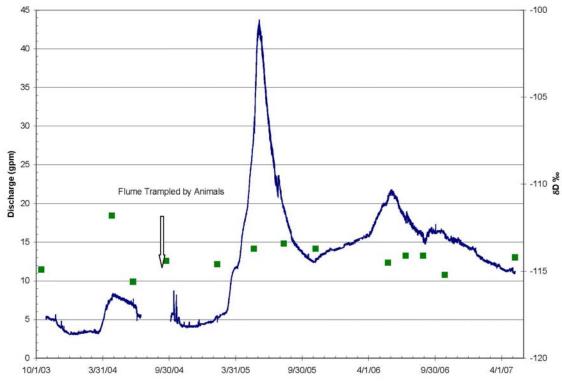


Figure 4. Deuterium and flow data for Upper Terrace Spring WR2 in the Egan Range in northeastern White River Valley.

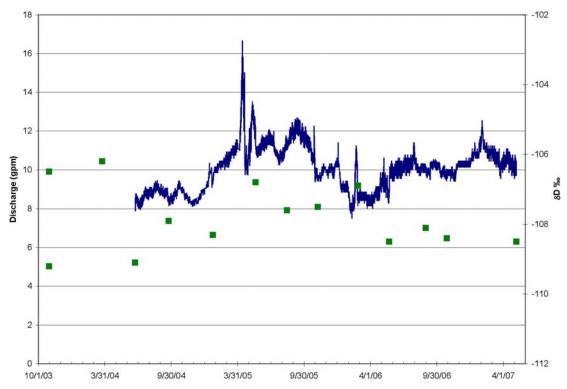


Figure 5. Deuterium and flow data for Patterson Pass Spring WR3 in the Schell Creek Range in western Lake Valley.

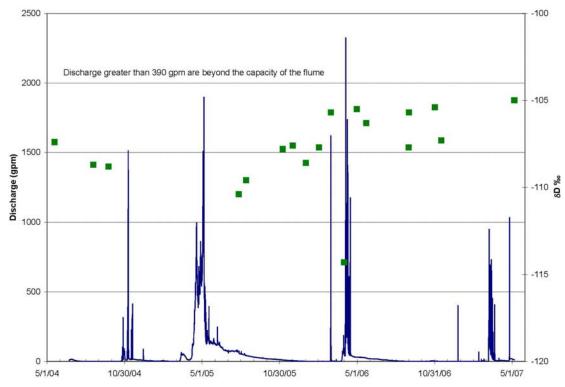


Figure 6 Deuterium and flow data for HeadwatersSpring WR5 in the Wilson Creek Range in southeastern Lake Valley.

Site Name		Number of Samples	Minimum	Maximum	Median	Mean	Standard Deviation					
White Pine Range												
Monitoring Spring WR1	$\delta^2 H$	14	-115.7	-111.2	-113.9	-113.7	1.3					
Monitoring Spring WR1	$\delta^{18}\!O$	14	-15.69	-15.32	-15.62	-15.58	0.11					
			Egan Ra	nge								
Upper Terrace Spring WR2	$\delta^2 H$	14	-115.6	-111.3	-114.2	-114.0	1.2					
Upper Terrace Spring WR2	$\delta^{18}\!O$	14	-15.50	-15.24	-15.43	-15.42	0.06					
			Schell Creek	Range								
Patterson Pass Spring WR3	$\delta^2 H$	14	-109.2	-106.2	-108.0	-107.8	0.9					
Patterson Pass Spring WR3	$\delta^{18}\!O$	14	-14.96	-14.71	-14.87	-14.85	0.07					
			Wilson Creel	K Range								
Headwaters Spring WR5	$\delta^2 H$	17	-110.4	-105.0	-107.6	-107.4	1.6					
Headwaters Spring WR5	$\delta^{18}\!O$	17	-15.01	-14.10	-14.59	-14.57	0.23					
			Delamar Mo	untains								
Upper Riggs Spring WR4	$\delta^2 H$	5	-88.0	-86.2	-87.0	-87.1	0.6					
Upper Riggs Spring WR4	$\delta^{18}\!O$	5	-12.46	-11.55	-11.90	-11.95	0.33					
			Meadow Valley	Mountains								
Grapevine Spring (KSV-2)	$\delta^2 H$	10	-88.6	-85.2	-87.5	-87.4	0.9					
Grapevine Spring (KSV-2)	$\delta^{18}O$	10	-12.03	-11.60	-11.94	-11.92	0.12					

Table 1. Variability of deuterium and oxygen-18 in recharge area springs.

The potential for variability of stable isotope values with altitude also needs to be considered, because if stable isotope values become more depleted (more negative) with altitude in the recharge areas, this would need to be accounted for in assigning average stable isotope values to recharge areas (an altitude-weighted approach would need to be taken instead of using an average value because the amount of precipitation and the percent of precipitation that becomes recharge increase with altitude). The relationship between deuterium and altitude was evaluated for five major recharge areas in the study area that contained 14, or more, springs. In the northern part of the study area, the White Pine Range and Central Egan Range deuterium data were plotted as a function of altitude (Figures 7 and 8). There is no apparent relationship of deuterium with altitude in these plots. In the central and southern part of the study area, White Rock Mountain, Delamar Mountain, and Fairview and Bristol ranges deuterium data were plotted as a function of altitude (Figures 9, 10, and 11). Again there is no relationship of deuterium with altitude, with the exception of the samples in the Delamar Range, where there is a small apparent relationship of heavier (less negative) deuterium values with lower altitude. The lack of a deuterium-with-altitude relationship, which does occur on the western side of the Sierra Nevada as storms track from the Pacific Ocean to the Sierra crest (Smith et al., 1979), is consistent with the results of Thomas et al. (1996) for the Spring Mountains in southern Nevada. Thomas et al. (1996; Figure 21) found no deuterium-altitude relationship for samples ranging in altitude from about 4,400 to 10,300 feet. The importance of a lack of deuterium-altitude relationship is that isotopic values in recharge areas do not have to be altitude weighted, and thus recharge volume weighted, to determine the average isotopic composition of recharge areas in the regional flow systems in east-central and southeastern Nevada.

Valley Cold Springs, Consolidated Rock Wells with Cold Water, and Local Recharge

White River Valley offers a relatively unique opportunity to evaluate the average isotopic composition of recharge area springs as being representative of mountain block recharge because of the presence of cold (<20 °C) valley springs along the range-bounding fault on the east side of the valley. In northern White River Valley, Lund Spring is located near the range-bounding fault on the east side of the valley. In addition to being cold, Lund Spring also has a variable flow rate, ranging from about 4,000 to 8,000 afy, even in the winter months (U.S. Geological Survey data). This large variability in flow is characteristic of locally recharged springs as compared to regional warm springs, which exhibit little variability in flow under natural conditions. The deuterium value of this spring is -113.0% and the oxygen-18 value is -15.40% (Appendix 3). These values are similar to the average deuterium and oxygen-18 values of -112.3 and -15.15‰, respectively, of northern Egan Range recharge, which is the local recharge source of this spring. In southern White River Valley, three springs-Emigrant, Butterfield, and Flag #3-are located near the range-bounding fault on the east side of the valley. Flag #3 Spring has a water temperature of 22.8 °C, but because of its location and similar isotopic and water chemistry content to that of Emigrant and Butterfield springs (Appendix 3), it is included as a cold range-bounding fault spring. These three springs have isotopic values that range from -107.8 to -105.0% for deuterium and -14.50 to -14.20% for oxygen-18 (Appendix 3). These values are similar to the average isotopic composition of recharge, - 106.9 and -14.15‰, to the southern Egan Range in southern White River Valley, which would be the local recharge source of these springs. The isotopic content of valley springs near the range-bounding fault on the east side of White River Valley that are supplied by local recharge to the valley shows that average spring isotopic values provide a good representation of mountain block recharge to a valley.

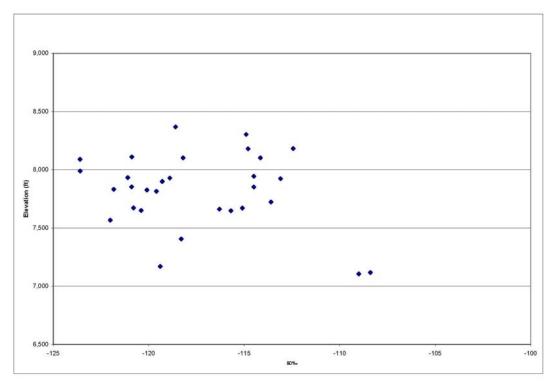


Figure 7. Deuterium as a function of altitude in the White Pine Range.

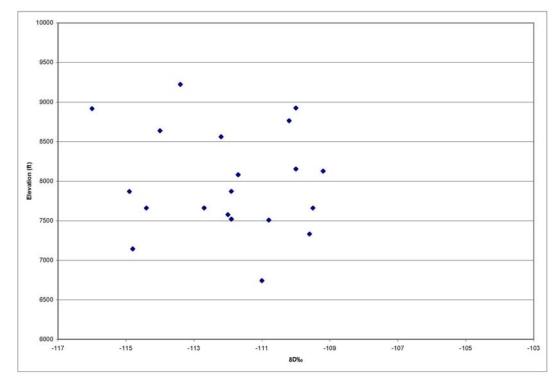


Figure 8. Deuterium as a function of altitude in the Central Egan Range.

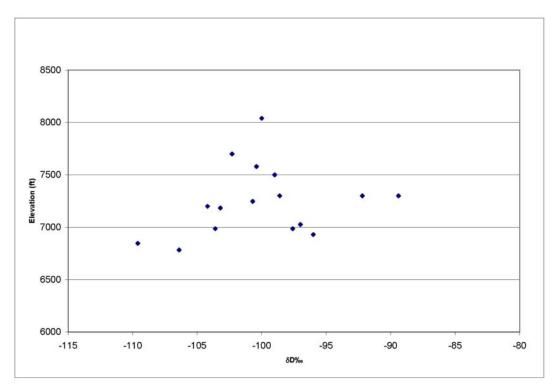


Figure 9. Deuterium as a function of altitude in the White Rock Mountains.

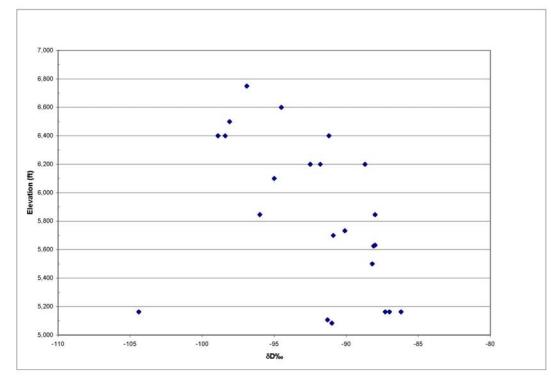


Figure 10. Deuterium as a function of altitude in the Delamar Mountains.

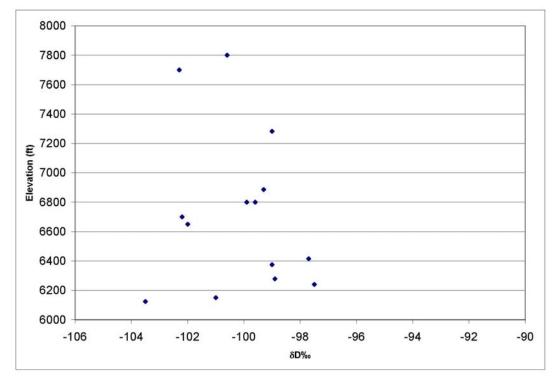


Figure 11. Deuterium as a function of altitude in the Highland and Fairview ranges.

In Cave Valley, east of White River Valley, two wells (180W501 and 180W902) completed in consolidated rock with cold temperatures (<20 °C) provide another relatively unique opportunity to evaluate average spring isotopic compositions as being representative of mountain block recharge. Cave Valley has no inflow, so the water in these wells should have an isotopic composition similar to recharge to the valley. The isotopic content of water in these two wells is -105.6 and -104.7‰ for deuterium and -14.12‰ for oxygen-18 for both wells. These values are similar to the isotopic content of water recharging Cave Valley, -106.5 and -14.28‰, so like the cool springs along the eastern range-bounding fault in White River Valley the groundwater in these wells has an isotopic composition very similar to local recharge to Cave Valley providing more evidence that springs in recharge areas can be used to represent recharge from mountainous areas.

Isotopic Variability of Regional Warm Springs

Regional warm springs in the WRFS and MVWFS are the integrators of interbasin groundwater flow in these systems and as such they provide the information needed to evaluate stable isotope mass-balance models of regional groundwater flow. Thus, it is important that isotopic variability of these springs is known and if this variability is large, then transient, rather than the current steady-state, isotope mass-balance models would be needed to evaluate water budgets and regional groundwater flow. To evaluate the isotopic variability of regional warm springs in the study area, new data were collected and combined with historical data to determine isotopic variability of the warm springs. Table 2 presents minimum, maximum, median, mean, and standard deviation values for deuterium and oxygen-18 for the warm springs in the study area. Data are presented for individual springs in

Site Name		Number of Samples	Minimum	Maximum	Median	Mean	Standard Deviation
		Ν	orth White River	Valley			
Preston Big Spring	$\delta^2 H$	11	-126.0	-120.0	-121.7	-122.0	1.6
Preston Big Spring	$\delta^{18}O$	11	-15.98	-15.60	-15.88	-15.88	0.10
North White River Valley	$\delta^2 H$	-124.0	-122.0	-123.5	-123.2	1.1	-124.0
North White River Valley	δ^{18} O	3	-15.80	-15.80	-15.88	-15.93	0.16
		S	outh White River	Valley			
Hot Creek Springs	$\delta^2 H$	10	-120.5	-117.4	-119.0	-118.9	0.9
Hot Creek Springs	δ^{18} O	10	-15.77	-15.50	-15.71	-15.69	0.08
South White River Valley	$\delta^2 H$	4	-120.0	-118.0	-119.0	-119.0	0.8
South White River Valley	$\delta^{18}O$	4	-15.80	-15.30	-15.70	-15.62	0.22
			Panaca Valle	y			
Caliente Hot Springs (Hotel)	$\delta^2 H$	8	-109.3	-106.4	-107.5	-107.9	1.1
Caliente Hot Springs (Hotel)	$\delta^{18}O$	8	-14.52	-14.29	-14.45	-14.44	0.07
Panaca Spring	$\delta^2 H$	13	-108.0	-105.8	-107.0	-106.9	0.6
Panaca Spring	$\delta^{18}O$	12	-14.25	-13.90	-14.17	-14.14	0.10
			Pahranagat Val				
Crystal Springs	$\delta^2 H$	17	-110.1	-106.9	-109.0	-108.8	0.8
Crystal Springs	$\delta^{18}O$	14	-14.53	-14.30	-14.42	-14.41	0.07
Hiko Spring	$\delta^2 H$	7	-110.5	-105.0	-109.5	-108.7	1.9
Hiko Spring	$\delta^{18}O$	4	-15.30	-13.80	-14.23	-14.39	0.67
Ash Springs	$\delta^2 H$	6	-112.0	-107.0	-108.7	-109.1	1.8
Ash Springs	$\delta^{18}O$	3	-14.20	-14.03	-14.10	-14.11	0.09
Pahranagat Valley	$\delta^2 H$	4	-109.1	-107.2	-108.8	-108.5	0.9
Pahranagat Valley	δ^{18} O	4	-14.41	-14.11	-14.29	-14.28	0.15

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Table 2.	Variability of deute	erum and ovvgen	IX in regional	warm enringe
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Site Name		Number of Samples	Minimum	Maximum	Median	Mean	Standard Deviation					
Upper Moapa (Muddy) Valley												
Baldwin Spring	$\delta^2 H$	9	-98.6	-96.3	-97.9	-97.6	0.8					
Baldwin Spring	$\delta^{18}O$	9	-13.05	-12.91	-12.95	-12.97	0.05					
Big Muddy Spring	$\delta^2 H$	6	-99.0	-96.5	-98.0	-97.9	0.8					
Big Muddy Spring	$\delta^{18}O$	5	-13.05	-12.75	-12.89	-12.89	0.11					
Jones Spring Pumphouse	$\delta^2 H$	6	-98.9	-97.3	-97.9	-97.9	0.5					
Jones Spring Pumphouse	$\delta^{18}O$	6	-13.10	-12.99	-13.07	-13.05	0.05					
Pederson's East	$\delta^2 H$	9	-98.7	-97.0	-97.7	-97.8	0.6					
Pederson's East	$\delta^{18}O$	9	-13.06	-12.89	-12.98	-12.98	0.06					
Pederson's Warm Spring (M-13)	$\delta^2 H$	15	-99.0	-96.5	-97.4	-97.5	0.6					
Pederson's Warm Spring (M-13)	$\delta^{18}O$	13	-13.05	-12.75	-12.91	-12.93	0.09					
Upper Moapa (Muddy) Valley	$\delta^2 H$	9	-99.0	-96.5	-97.8	-97.7	0.7					
Upper Moapa (Muddy) Valley	$\delta^{18}O$	8	-13.05	-12.45	-12.94	-12.87	0.19					

Table 2. Variability of deuterium and oxygen-18 in regional warm springs (continued).

a valley with three of more analyses and for the average of all warm springs in a valley. For example, in northern White River Valley, Preston Big Spring is a warm spring in the Preston warm spring area that has 11 samples. There are also two other warm springs in the area, Nicholas and Cold springs (actually a warm spring). Table 2 presents the values and standard deviation for Preston Big Spring data and also the values and standard deviation for the average values of the three springs in the area. Deuterium ranged from -126.0 to -120.0‰, with a mean value of -122.0‰ and a standard deviation of 1.6 for Preston Big Spring. For the three springs in the warm spring discharge area, the average deuterium values ranged from -124.0 to -122.0‰, with a standard deviation of 1.1. In general, the standard deviations for the individual spring deuterium data and the valley data for the average of the spring values are around 1‰ (Table 2). Oxygen-18 data follow a similar pattern, with standard deviations ranging from 0.05 to 0.22‰ (except for one site with a standard deviation of 0.67‰). This low variability of the stable isotopic data shows that the stable isotopic composition of regional warm springs provides good isotope mass-balance calibration points and a steady-state model is a valid approach.

Another indication of the stability and little variation in warm spring isotopic values is that some regional warm springs have samples covering a 20- to 40-year period with little change in isotopic composition. For example, isotopic data were first collected for Big Muddy Spring in Upper Moapa Valley in March 1970 and six samples from 1970 to 2004 have a range of only -99.0 to -96.5‰. Similarly, Hiko, Crystal, and Ash springs in Pahranagat Valley have isotopic data that were first collected in 1968. For all three springs during this time period of 1968 to 2006, deuterium only varied by 5.5‰. Preston Big Spring in northern White River Valley, Hot Creek Spring in southern White River Valley, and Panaca and Caliente hot springs in Panaca Valley all have samples that span a 22- to 26-year period with an average range in deuterium values of only 3.6‰ (Table 2).

An important question that needs to be answered if regional warm springs are going to be used to evaluate water budgets and interbasin flow is "are the regional warm springs discharging last glacial period water that was recharged during a cooler and wetter climate?" If they are, then regional warm spring discharge and groundwater ET throughout the WRFS and MWVFS would not be in balance with present-day recharge rates; present-day recharge rates would be less because some of the groundwater discharge would be from past wetter climates. Regional warm spring discharge is not glacial period water because: (1) regional warm spring discharge that greatly exceeds local recharge amounts in valleys in the southern part of the WRFS, the Muddy River and Pahranagat Valley warm spring areas, would even exceed local recharge during a much wetter climate because these spring flows are supported by interbasin flow; (2) additional evidence that regional warm springs are supported by interbasin flow is that they have isotopic values that are more negative than local recharge isotopic values because upgradient basins that supply interbasin flow are north of the regional spring discharge areas in both the WRFS and MVWFS, so this interbasin flow is isotopically more negative than local recharge; and (3) although regional warm springs have more negative isotopic values than local recharge, if these springs were discharging glacial period water these values would be even more negative even if they were only local recharge, but assuming that there would be interbasin flow during glacial periods as there is today, they would be even lighter. If regional spring discharge was from the last glacial period, then the isotopic composition of the springs would be at least 10 and 1.2‰ more negative for deuterium and oxygen-18, respectively, than present-day recharge (Winograd et al., 2006),

and could be as much as 16 and 2.0‰ more negative for deuterium and oxygen-18, respectively, than present-day recharge (Benson and Klieforth, 1989) because of cooler air temperatures. Thus, if any significant portion of local recharge or interbasin flow was recharged during the last glacial period, regional warm springs would be as much as 10 to 20‰ less negative in deuterium and 1.0 to 2.0 more negative in oxygen-18 than present-day spring discharge.

Additional information on the timing of recharge to the regional warm springs is provided by carbon-14 data for dissolved inorganic and dissolved organic carbon. Low carbon-14 (less than 10 percent modern carbon [pmc]) in some of these regional warm spring waters (Thomas et al., 1996) indicates that these waters could be as old as 20,000 years. However, regional warm springs in similar carbonate-rock aquifers that discharge in Ash Meadows and groundwater in nearby Devils Hole with only 2 to 3 pmc carbon-14 (with one spring having 11 pmc) are at most several thousand years old and could be less than 1,000 years old (Winograd et al., 1992, 2006; Thomas et al., 1996). To obtain realistic groundwater ages the dissolution of calcite and dolomite that comprise the carbonate-rock aquifer and adsorption and diffusion processes have to be accounted for in correcting the carbon-14 ages. The dissolution of calcite and dolomite add carbon-14 to the water with 0 pmc and adsorption and diffusion remove carbon-14 from the groundwater (Hershey and Howcroft, 1998; Hershey et al., 2003, 2007), so once these processes are accounted for the corrected groundwater ages of these low carbon-14 groundwaters are only a few thousand to less than a thousand years old. Dissolved organic carbon isotopic data also support regional warm springs in the WRFS being younger than the last glacial period (Thomas, 1996). Regional springs integrate flow all along the regional flow systems from many different recharge areas and basins, so the age of the water discharging from warm springs is an average age and a very small percent of the water could be Pleistocene-age water that is isotopically light. However, the isotopic, recharge, and discharge data do not support any significant amount of Pleistocene-age water being discharged at regional warm springs in these systems.

Summary of Isotopic Variability

The small range in isotopic values and standard deviations of the recharge area and regional warm spring monitoring stable isotope data shows that deuterium and oxygen-18 are good tracers of groundwater in the regional flow systems. Using the average isotopic composition of springs in recharge areas as representative of recharge from a mountain block recharge area is further supported by cold springs near the range-bounding fault in eastern White River Valley and two wells completed in consolidated rock in Cave Valley with cold water. If temporal variability of deuterium and oxygen-18 of recharge area monitoring springs and regional warm springs had been high, then the uncertainty associated with using them to evaluate water budgets in regional flow systems would have been high.

ISOTOPIC EVALUATION OF THE WHITE RIVER AND MEADOW VALLEY WASH REGIONAL GROUNDWATER FLOW SYSTEMS

The WRFS and MVWFS water budgets, including interbasin flows, were evaluated using stable isotope data for recharge area groundwaters and regional warm springs for two versions of the isotope mass-balance model. Additionally, wells completed in consolidated rock that are not in warm spring discharge areas and intercept groundwater flowing through these regional flow systems were also used to evaluate water budgets and interbasin flow. Wells are point measurements in the flow system and provide good information on regional groundwater flow and water budgets but they are a secondary evaluation method as compared to regional warm springs, which integrate flow over large areas. For this report, two mass-balance models were developed to evaluate water budgets that handle ground discharge from these regional flow systems in two different ways (see Stable Isotope Mass-Balance Models section for a description of the two models). These two models were used to evaluate water budgets developed using: (1) SNWA recharge and discharge estimates (SNWA, 2007); (2) SNWA/BARCAS discharge estimates (SNWA, 2007; Welch and Bright, 2007; valleys with BARCAS study ET values were used in place of SNWA ET values in these valleys to determine recharge and discharge amounts for the different valleys); and (3) Water Resources Bulletin No. 8 (Maxey and Eakin, 1949), and the Reconnaissance Report series recharge and ET estimates (Maxey and Eakin, 1949; Eakin, 1962, 1963a, b, c, 1964, 1966, 1968; Rush, 1964; Rush and Eakin, 1963) and the Eakin (1966) interbasin groundwater flow directions for the WRFS. The evaluation of three water budgets using the two endmember models resulted in six isotope mass-balance models being developed for this study.

White River Regional Groundwater Flow System

The WRFS (Figure 1) was originally described by Eakin (1966), who postulated that some of the water discharging from the Muddy River Springs area in Upper Moapa Valley originated more than 200 miles north of the spring area and that this regional interbasin flow system included 13 valleys. Eakin reached these conclusions on the basis of "preliminary appraisals of the distribution and quantities of the estimated groundwater recharge and discharge within the region, the uniformity of discharge of the principal springs, the compatibility of the potential hydraulic gradient with regional groundwater movement, the relative hydrologic properties of the major rock groups in the region, and to a limited extent, the chemical character of water issuing from the principal springs." The main conclusions of his study were: (1) Paleozoic carbonate rocks form the regional aquifer, (2) recharge and discharge estimates balance within the flow system, and (3) the principal discharging springs have a uniform discharge rate, indicating a regional rather than local water source.

As noted in the Study Area Description section of this report, for this study the WRFS includes California Wash, Lower Moapa, Hidden, and Garnet valleys and the Black Mountains area in addition to the original 13 valleys described by Eakin (1966). These valleys are included because some groundwater in the WRFS continues flowing through these valleys on its way to Lake Mead on the Colorado River as indicated by hydraulic gradients (Thomas *et al.*, 1986, 1996; LVVWD 2001, 2007). The lower part of the WRFS also receives groundwater inflow from the MVWFS. The MVWFS, to the east of the WRFS, has groundwater that flows into Upper Moapa and California Wash valleys. This MVWFS groundwater mixes with the WRFS groundwater and flows into Lower Moapa Valley from which groundwater discharges into Lake Mead. The MVWFS will be described in more detail later in this report.

White River Flow System Isotope Mass-Balance Models

Background

Kirk and Campana (1990) constructed a deuterium-calibrated mixing cell (water budget) model of the WRFS as delineated by Eakin (1966). Their mixing cell model was calibrated using average deuterium values for the model cells. The mixing cell model was a two-layer model with an upper layer representing basin-fill aquifers and a second layer representing the carbonate-rock aquifer. The cells were defined as the 13 individual topographic valleys within the WRFS, although not all valleys had a sufficient alluvial aquifer to warrant an upper layer cell in the model. The mixing model used the spring flow and ET estimates from Eakin (1966) and initially set recharge to Maxey-Eakin values but then let the model calculate new recharge values. The model-calculated recharge values were similar to initial Maxey-Eakin recharge estimates. Three different models were developed for the WRFS. The results of the Kirk and Campana (1990) study are: (1) recharge from the Sheep Range to Coyote Springs Valley is 5,000 to 6,000 acre feet per year (afy) as compared to the Maxey-Eakin estimate of 2,000 afy; (2) the Lower Meadow Valley Wash-Kane Springs Valley area contributes 5,500 to 9,000 afy to the Muddy River Springs discharge area, as compared to the Maxey-Eakin Kane Springs Valley recharge estimate of about 1,000 afy; and (3) 4,000 afy of groundwater is routed out of the WRFS in the Pahranagat Valley area to the west (similar to the 6,000 afy proposed by Winograd and Friedman [1972] and 7,000 afy proposed by Thomas et al. [1996]).

Thomas *et al.* (1996) used the average deuterium composition of water discharging from Big Muddy Spring in Upper Moapa Valley, the largest discharging spring in the Muddy River springs area, to calculate a deuterium mass-balance water budget for the lower part of the WRFS. This deuterium mass-balance water budget model simply used the estimated total spring discharge of the Muddy Springs area (after removing surface water flows due to storm events) and the average deuterium composition of the springs in the Muddy River Springs area. For a Muddy River Springs area discharge rate of 36,000 afy (Eakin and Moore, 1964), this calculation resulted in an input of 14,000 afy of recharge from the Sheep Range, 14,000 afy of inflow from Pahranagat Valley, and 8,000 afy of inflow from the Lower Meadow Valley Wash-Kane Springs Valley area.

Thomas *et al.* (2001) used new estimates of recharge and predevelopment ET derived by the Las Vegas Valley Water District (LVVWD, 2001) for the WRFS and MVWFS and deuterium and oxygen-18 values in recharge areas and for regional warm springs to develop a stable isotope mass-balance model. This effort was different from that of Kirk and Campana (1990) in that it assigned recharge and average isotopic values to individual recharge and discharge areas, rather than to a cell that represents an entire valley. The Kirk and Campana (1990) model also used spring flow and ET estimates from Eakin (1966) to represent ET for the model area. They initially set recharge to estimates from Maxey-Eakin (1949) but then let the model calculate new recharge values. The Thomas *et al.* (2001) study was different from the Thomas *et al.* (1996) study in that the 1996 study used the estimated spring discharge in the Muddy River Springs area to represent all groundwater discharge from the Muddy River Springs area. Then, Thomas *et al.* (1996) used this value in conjunction with the average deuterium composition of the Muddy River springs, the regional warm springs in Pahranagat Valley, and springs in recharge areas to develop a deuterium mass-balance model that only accounted for regional warm spring discharge. Additionally, the Kirk and Campana study only modeled the WRFS and the Thomas *et al.* (1996) study only modeled the southern part of the WRFS from Pahranagat Valley to Upper Moapa Valley, whereas the Thomas *et al.* (2001) study included the MVWFS and the valleys between the Muddy River Springs area (Upper Moapa Valley) and Lake Mead on the Colorado River (the lowest point in the system).

The stable isotope mass-balance models developed for this study include the same area as the Thomas *et al.* (2001) study, but this study includes a significant amount of new data (about 450 new analyses) to help define the isotopic content of groundwater recharge areas both spatially and temporally, new recharge and discharge estimates (SNWA, 2007; Welch and Bright; 2007), and new interbasin flow directions and rates based on new geologic and hydrologic information (SNWA, 2007).

Model Development and Results

Stable isotopes of water were used to evaluate water budgets and interbasin flows for the WRFS by determining average deuterium and oxygen-18 values for all recharge and groundwater discharge (ET) areas in the study area and tracking the volumes of recharge added to and ET removed from the WRFS throughout the study area. For a water budget to be a reasonable estimate of recharge and predevelopment ET, calculated isotopic values for regional spring discharge areas have to be similar to measured values. Wells completed in consolidated rock with warm (>20 °C) water from the regional flow system that are not in warm spring discharge areas were also used to evaluate water budgets and interbasin flow by comparing measured isotopic values with calculated values.

To use a stable isotope mass-balance model for evaluating water budgets in regional flow systems, there needs to be an easily identifiable range in isotopic values throughout a flow system. A range in isotopic values is needed to identify inputs from different recharge areas and interbasin flow in a regional flow system. Fortunately, in the WRFS, deuterium and oxygen-18 vary greatly from the Lake Mead area in the south to Long Valley in the north (Figure 2). A plot of deuterium versus oxygn-18 (Figure 12) shows that isotopic compositions increase (become less negative) from north to south. This 50% increase in recharge area deuterium values, from -129.5‰ in Long Valley in the northern WRFS to -79‰ in the Black Mountain area in the southern WRFS and the 6.54‰ increase in recharge area oxygen-18 values, from -17.04‰ in Long Valley in the north to -10.50‰ in the Black Mountain area in the south (Figure 12 and Plate 2), makes deuterium and oxygen-18 excellent tracers for water budget evaluations in the WRFS. These differences in isotopic values from north to south in the WRFS are very significant because the analytical precision for deuterium is plus or minus 1.0‰ and for oxygen-18 is plus or minus 0.10‰ (analytical precision values represent one standard deviation; Simon Poulson, University of Nevada, Reno Isotope Laboratory, oral commun., 2007).

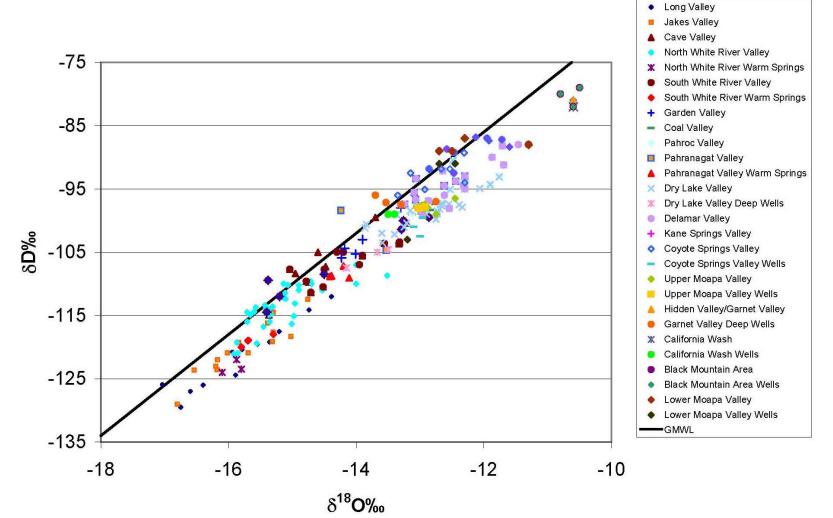


Figure 12. Plot of deuterium versus oxygen-18 for samples in the White River flow system. GMWL is the Global Meteoric Water Line from Craig (1961).

The water budgets evaluated in this report are based on estimates of recharge for the different mountainous recharge areas in a valley, predevelopment ET, and groundwater interbasin flow directions provided by SNWA (Figure 13), with the exception of the interbasin flow rates for the reconnaissance series reports, which are based on Eakin (1966) interbasin flow directions (Figure 14) and differences in reconnaissance report recharge and ET. As noted earlier in this report, three different sets of recharge and ET values (water budgets) were evaluated in this study: (1) new SNWA recharge and predevelopment ET rates (SNWA, 2007); (2) new SNWA recharge and ET rates combined with BARCAS study ET rates (BARCAS ET rates were used in place of new SNWA ET rates for those valleys in the WRFS with BARCAS ET estimates); and (3) reconnaissance report recharge and ET rates were used with Eakin (1966) groundwater interbasin flow routing. The ET values are for predevelopment conditions and do not include ET from fields irrigated by groundwater, but they do include spring discharge.

Interbasin groundwater flow results in the models when valley recharge plus groundwater inflow to a valley (when there is inflow) is greater than groundwater consumed by ET in the valley. This surplus groundwater is assumed to flow to the next downgradient valley(s). Interbasin groundwater flow is assigned deuterium and oxygen-18 values differently for the two models used in this study to evaluate water budgets. In one model, the isotopic composition of interbasin flow was calculated by using the volume-weighted isotopic compositions of recharge from different recharge areas within a valley and of groundwater inflow(s) to the valley from upgradient valleys. Thus, the isotopic value of groundwater outflow from valleys in this model is the volume weighted average of recharge to the valley plus any groundwater inflow from upgradient valleys. In the second massbalance, the isotopic composition of groundwater outflow was calculated by assuming that all ET in a valley was first satisfied by local recharge and then if local recharge was not sufficient to meet ET demands, groundwater inflow from upgradient valleys was used to satisfy ET. Thus, the isotopic composition of groundwater outflow from a valley in this model is that of the groundwater inflow to a basin if ET exceeds local recharge, or is a volume weighted average of the amount of local recharge in excess of ET plus inflow(s) to the valley.

The isotope mass-balance models are used to evaluate WRFS water budgets by determining if estimated recharge and ET rates and interbasin flows within the WRFS are consistent with the deuterium and oxygen-18 data (Appendix 1). If mass-balance model-calculated deuterium and oxygen-18 values are similar to measured values for regional warm springs, then the proposed water budgets are reasonable. In contrast, if mass-balance model-calculated deuterium and oxygen-18 values are significantly different than measured values for regional warm springs, then the proposed water budgets are not reasonable, or interbasin flow routing may be incorrect. Wells completed in consolidated rock with warm water from the regional flow systems offer additional evaluation points in the system. Similar to the regional warm springs, the isotopic content of groundwater in a well needs to be similar to the calculated value for the proposed interbasin flows and water budgets to be reasonable. The isotopic mass-balance models are not used for determining how much recharge should be assigned to each recharge area or how much ET should be assigned to each valley; rather, the models evaluate whether the assigned recharge and ET values and interbasin flows are consistent with the stable isotope data of the WRFS. The isotopic mass-balance models are

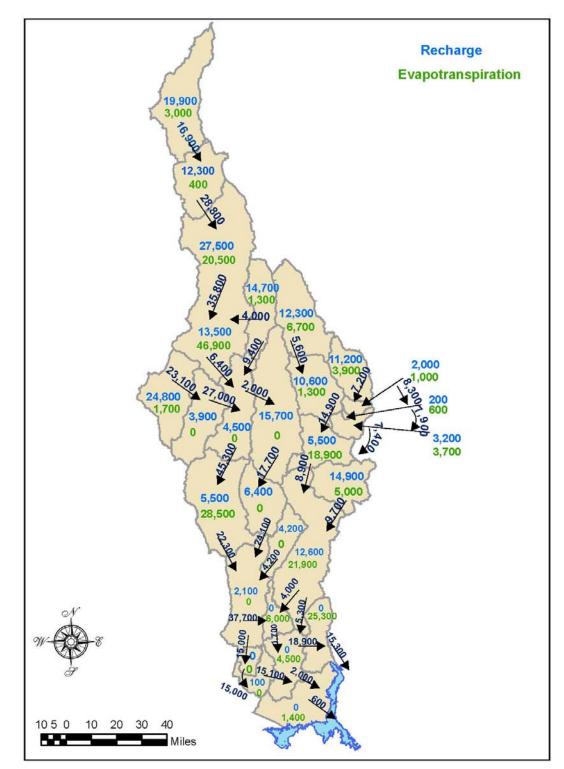


Figure 13. SNWA (2007) recharge values, predevelopment ET values, and interbasin flows. Interbasin flow directions and rates are shown as arrows with values. All values are in acre-feet per year.

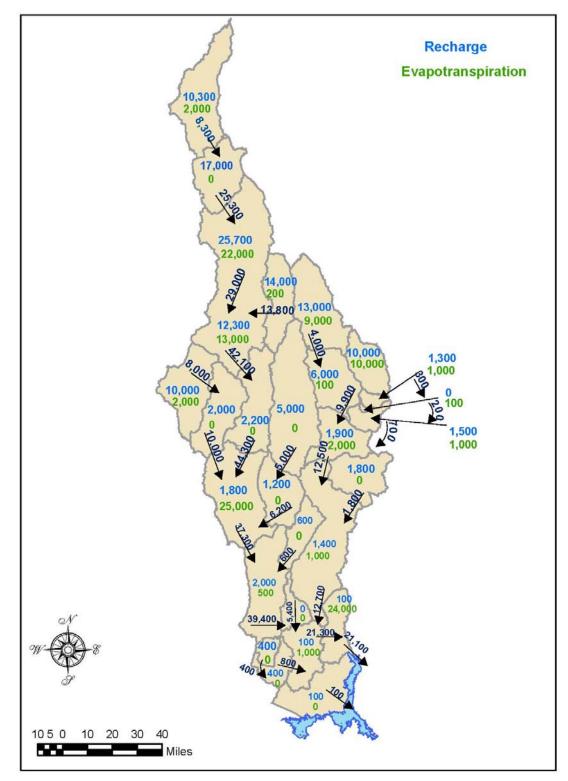


Figure 14. Reconnaissance Report Series recharge values, predevelopment ET values, and interbasin flows with Eakin (1966) interbasin flow routing for the White River Flow System. Interbasin flow directions and rates are shown as arrows with values. All values are in acre-feet per year.

nonunique; a reasonable result confirms the viability of a proposed water budget but it does not prove that the water budget is correct. An isotopic mass-balance model can be used to eliminate unrealistic water budget estimates, or interbasin flows, and to help identify areas where water budgets and/or interbasin flows need to be better understood.

Regional Warm Springs

A logical way to evaluate water budgets and interbasin flows for the WRFS with the isotope mass-balance model is to start at the upgradient part of the flow system in the north and move from north to south down the hydraulic gradient of the WRFS. In the WRFS, going from north to south there are four major regional warm spring areas that can be used to evaluate the isotopic mass-balance models; the Preston area in northern White River Valley; the Hot Creek area in southern White River Valley; the Alamo area in Pahranagat Valley; and the Muddy River Springs area in Upper Moapa Valley. Wells completed in consolidated rock that contain warm (>20 °C) water can also be used to evaluate water budgets and associated interbasin groundwater flow in the WRFS. Wells completed in consolidated rock with warm water in areas not in regional warm spring areas are present in Coal, Dry Lake, Delamar, Coyote Springs, Upper Moapa, Garnet, California Wash, and Lower Moapa valleys of the WRFS.

Using the approach of evaluating the isotopic mass-balance models following groundwater flow down the WRFS, the first regional warm spring discharge area where recharge and ET estimates and interbasin groundwater flow can be evaluated is in the Preston area in northern White River Valley. In the Preston area, three warm springs (Preston Big, Nicholson, and Preston Cold [Preston Cold is inappropriately named because it is 21.8 °C and it is in the regional warm spring province with Preston Big and Nicholson springs]) have significantly lighter (more negative) discharge-weighted average deuterium and oxygen-18 compositions of -122.6 and -15.92‰, respectively, than local recharge (Appendices 1 and 2; -112.3 and -15.15‰ for the northern Egan Range and -115.0 and -15.18‰ for the White Pine Range). The source of these warm springs is not local recharge from mountains surrounding northern White River Valley; rather, the source is interbasin flow from Jakes Valley. Jakes Valley groundwater flowing into northern White River Valley is recharge to Jakes Valley plus interbasin flow from Long Valley that is upgradient of Jakes Valley (Figure 13).

In the isotopic mass-balance models for the WRFS, the spring flow rates used to calculate flow-weighted deuterium and oxygen-18 values are for flows measured in the winter months (November to February) to avoid ET and groundwater pumping that might reduce spring flow. However, a comparison of average winter flow rates with the average yearly flow rates did not show a significant difference in spring flows for most regional warm springs (U.S. Geological Survey spring-flow data).

Six different models were developed to evaluate water budgets for the WRFS (Appendices 1 and 2). However, although results for all six isotope mass-balance models will be discussed, the interbasin flow volumes that are presented in detail in this report are for the SNWA 2007 water budget. An estimated 28,800 afy of groundwater flows into northern White River Valley from Jakes Valley. For both SNWA water budget models, the isotopic composition of this interbasin flow is -121.3 and -15.86‰ for deuterium and oxygen-18, respectively. The calculated values for both models are the same because of the very small amount of ET in Jakes Valley (400 afy) as compared to recharge (12,300 afy). This

calculated inflow deuterium value is within 1.3‰ of the flow weighted average of the regional warm springs in the Preston area (Table 3). The calculated oxygen-18 value is within 0.06‰ of the flow-weighted average of the regional springs in the Preston area. In comparison, the SNWA/BARCAS water-budget-calculated isotopic values are almost identical, within 1.2 and 0.06‰, for deuterium and oxygen-18, respectively (Table 3). These very similar values reflect that the ET differences between the SNWA and SNWA/BARCAS water budgets are small and also that there is little ET in Jakes Valley that would make the interbasin flow isotopic values different. The Reconnaissance Report Series water budget *al*so produce similar results (2.3 and 0.20‰ for deuterium and oxygen-18, respectively), again because of little ET in Long and Jakes valleys (Table 3).

Given the analytical precision of 1.0‰ for deuterium, calculated deuterium values that are within 2.0‰ of measured values indicate an excellent fit, those within 3.0‰ represent a good fit, and those within 4.0‰ represent an acceptable fit. Any calculated deuterium values that are greater than 4.0‰ different than measured values indicate that the water budgets are not correct, and for warm spring areas above the Muddy River Springs area (the most downgradient warm springs area in the WRFS) they may also indicate incorrect flow routing (if calculated isotopic values are within the acceptable range at the Muddy Springs area, the overall water budget is acceptable). Given the analytical precision of 0.1‰ for oxgen-18, calculated oxygen-18 values that are within 0.20‰ of measured values indicate an excellent fit, those within 0.30‰ represent a good fit, and those within 0.40‰ represent an acceptable fit. Any calculated oxygen-18 values that are greater than 0.40‰ different than measured values indicate that the water budgets are not correct.

Isotope mass-balance model-calculated deuterium and oxygen-18 values for the SNWA and SNWA/BARCAS water budgets indicate that the recharge and ET estimates above the Preston warm springs area in northern White River Valley and interbasin flows result in an excellent match to measured values (Table 3). Calculated deuterium values for the Reconnaissance Report Series water budget result in a good fit and the oxygen-18 values result in an excellent fit to measured values. Thus, the isotope mass-balance models show that the SNWA and SNWA/BARCAS water-budget-calculated isotopic values closely match measured isotope values and the Reconnaissance Report Series water budget.

The next regional warm spring area downgradient of the Preston warm springs area in northern White River Valley in the WRFS is the Hot Creek warm springs area in southern White River Valley. For the isotope mass-balance models, Moorman Hot Spring, a relatively low flow (400 afy) regional warm spring located several miles north of the Hot Creek area, is included in the Hot Creek regional warm spring province because of its similar isotopic composition to Hot Creek and Moon River regional warm springs (Appendices 1 and 2). In the Hot Creek area, the discharge-weighted average deuterium and oxygen-18 compositions of the three warm springs are -119.2 and -15.71‰, respectively. The local recharge to Southern White River valley has average isotopic values of -109.6 and -14.15‰ for the southern Egan Range and -106.5 and -14.23‰ for the Grant Range. As with the northern White River Valley, the source of these warm springs is not local recharge from mountains surrounding southern White River Valley; rather, the source is interbasin flow.

Table 3. A comparison of the difference between measured and calculated deuterium and oxygen-18 values for regional warm (>20 °C) springs for the WRFS and MVWFS and small (<50 afy) warm springs in the MVWFS. Models 1 and 2 are for the SNWA water budget; models 3 and 4 are for the SNWA/BARCAS water budgets; models 5 and 6 are for Reconnaissance Report water budgets. Models 1, 3, and 5 are for ET that is a mixture of local recharge and interbasin flow and models 2, 4, and 6 are for ET that uses local recharge first to satisfy ET demands. Positive values show that calculate values are less negative than measured values and negative values show that calculated values.

Warm Spring Discharge	Model 1	Model 1	Model 2	Model 2	Model 3	Model 3	Model 4	Model 4	Model 5	Model 5	Model 6	Model 6
Area	δD	$\delta^{18}O$	δD	$\delta^{18}O$	δD	$\delta^{18}O$	δD	$\delta^{18}O$	δD	$\delta^{18}O$	δD	δ^{18} O
	(‰)	(‰)	(‰)	(‰)	(‰)	(‰)	(‰)	(‰)	(‰)	(‰)	(‰)	(‰)
White River Flow System Regional Warm Springs												
Preston Spring Area Northern White River Valley	+13	+0.06	+1.3	+0.06	+1.2	+0.06	+1.2	+0.06	+2.3	+0.20	+2.3	+0.20
Hot Creek Spring Area Southern White River Valley	+1.7	+0.19	-0.6	-0.01	+1.6	+0.18	-2.2	-0.15	+2.2	+0.27	-0.3	+0.06
Alamo Spring Area Pahranagat Valley	+3.9	+0.22	+3.3	+0.16	+4.9	+0.34	+4.6	+0.31	-2.4	-0.51	-5.5	-0.83
Muddy Springs Area Upper Moapa Valley	-0.9	-0.35	-1.7	-0.41	-0.3	-0.26	-1.0	-0.31	-9.4	-1.39	-12.0	-1.66
		Ν	leadow Va	ley Wash H	Flow Syster	n Regional	Warm Spr	rings				
Panaca Spring Area Panaca Valley	+1.4	+0.06	+1.4	+0.06	+1.2	+0.02	+1.2	+0.02	+0.7	-0.10	+0.7	-0.10
Caliente Hot Springs Area Panaca Valley	+2.4	+0.36	+2.4	+0.36	+2.2	+0.32	+2.2	+0.32	+1.7	+0.20	+1.7	+0.20
			Meadow V	allev Wash	Flow Syste	em Small V	Varm Sprii	ngs				
Flatnose Spring Dry Valley	+1.8	+0.16	+1.7	+0.15	+1.8	+0.16	+1.7	+0.15	+2.1	+0.20	+2.1	+0.20
Bennett Spring Panaca Valley	+2.2	+0.31	+2.0	+0.27	+2.0	+0.27	+1.7	+0.23	+1.6	+0.19	+1.5	+1.8
Kershaw-Ryan Spring #1 Lower Meadow Valley Wash	-0.4	+0.29	-1.0	+0.21	-0.6	+0.27	-1.2	+0.19	-4.3	-0.17	-4.9	-0.25

Calculated deuterium and oxygen-18 values for the SNWA and SNWA/BARCAS water budgets indicate that the recharge and ET estimates above the Hot Creek warm springs area in southern White River Valley and interbasin flows result in an excellent match to measured values, except for one model (Table 3). The model using the SNWA/BARCAS water budget with local recharge meeting ET demands before any regional interbasin flow is used to meet ET needs has a calculated deuterium value that is only a good fit to the average measured value of the warm springs. Calculated deuterium and oxygen-18 values for the Reconnaissance Report Series water budget result in a good fit for the model that mixes local recharge to meet ET demands before any regional interbasin flow groundwater is used to meet ET needs. Thus, the isotope mass-balance models show that the SNWA water-budget-calculated isotopic values most closely match measured isotope values for both northern and southern White River Valley warm spring areas.

The next regional warm springs area downgradient from the Hot Creek area in southern White River Valley is the Alamo warm springs area in Pahranagat Valley. Three large (Hiko, Crystal, and Ash springs) and one smaller (Little Ash Spring) regional warm springs discharge in this area. The springs have a discharge-weighted isotopic composition of -108.9 and -14.26‰. The local recharge to Pahranagat Valley has average isotopic values of -94.9 and -12.83‰ for the south Pahroc Range and -98.4 and -14.24‰ for the Mount Irish/Pahranagat Range (Appendices 1 and 2). As with the other warm spring areas of the WRFS, the source of these warm springs is not local recharge from mountains surrounding Pahranagat Valley; rather, the source is interbasin flow and for this area that inflow is from Pahroc Valley.

Calculated deuterium values for the SNWA water budget indicate that the recharge and ET estimates above the Alamo warm springs area in Pahranagat Valley and interbasin flows result in an acceptable match to measured values (Table 3). The model-calculated oxygen-18 values are an excellent match for one model and a good match for the other model. SNWA/BARCAS water-budget-calculated deuterium values are not acceptable for either model, but calculated oxygen-18 values are in the acceptable range for both models. The calculated deuterium value for the Reconnaissance Report Series water budget model that mixes local recharge and ET to meet ET demands is a good match with the measured value, but the calculated oxygen-18 value for this model is outside the acceptable range when compared to the measured value. Calculated deuterium and oxygen-18 values for the Reconnaissance Report Series water budget for the model that uses local recharge to meet ET demands before any regional interbasin flow groundwater is used to meet ET demands are both outside the range of an acceptable match with measured values. Thus, the isotope massbalance models show that the SNWA water budget is the only water budget that produces acceptable deuterium and oxygen-18 values for the Alamo warm springs area in Pahranagat Valley.

The Muddy River Springs area in Upper Moapa Valley is the most downgradient warm springs discharge area of the WRFS, so it is the most important site for isotope mass-balance water budget and interbasin flow evaluations, because these regional warm springs integrate all recharge, discharge, and interbasin flows in the WRFS above this discharge area. Additionally, because the Muddy River Springs area is downgradient of and receives flow from the MVWFS, this warm spring discharge area also provides an evaluation point for the MVWFS, which will be discussed later in this report.

Coyote Springs Valley is the basin immediately upgradient of Upper Moapa Valley, from which the Muddy River Springs receive most of their flow (37,700 afy), with an additional 4,000 afy coming from Lower Meadow Valley Wash for the SNWA and SNWA/BARCAS water budgets and interbasin flow routing. Groundwater discharging from Muddy River Springs has flow-weighted average deuterium and oxygen-18 values of -97.8 and -12.90‰, respectively. The mass-balance model-calculated deuterium values for the SNWA and SNWA/BARCAS water budgets and interbasin flows are all excellent matches with the discharge-weighted average value (Table 3) and the oxygen-18 values are good to acceptable matches, except for model 2 which is 0.01‰ less than the acceptable range for oxygen-18 (Table 3). The mass-balance model-calculated deuterium and oxygen-18 values for the Reconnaissance Report Series water budget and interbasin flow were significantly less than the acceptable values for both models (Table 3). In summary, the SNWA and SNWA/BARCAS water budgets and interbasin flows produced isotope mass-balance model-calculated isotopic values that were acceptable for all four models, except for one oxygen-18 value that was 0.01‰ more negative than an acceptable match for the average measured value. The isotope mass-balance-calculated deuterium and oxygen-18 values for the Reconnaissance Report Series water budget were not even close to producing acceptable values.

In summary, the isotope mass-balance models that produced the most consistent and acceptable models for calculated deuterium and oxygen-18 values for all four of the hot spring areas in the WRFS used the SNWA (2007) water budget and interbasin flows. The isotope mass-balance models using the SNWA/BARCAS water budget and interbasin flows were also acceptable matches with measured values except for the Alamo hot springs area in Pahranagat Valley where the models did not produce calculated deuterium values that were acceptable matches with measured values. The isotope mass-balance models using the Reconnaissance Report Series water budget and Eakin (1966) interbasin flows only produced acceptable calculated isotopic values for the White River Valley hot spring areas, with the exception of one calculated deuterium value for the Alamo hot springs area in Pahranagat Valley. In conclusion, only the SNWA (2007) water budget and interbasin flows produced acceptable results for regional hot spring areas in the isotopic mass-balance model evaluations of the three different water budgets.

Consolidated Rock Wells with Warm Regional Groundwater

Wells completed in consolidated rock with warm regional groundwater that are not in regional warm spring discharge areas can be used to evaluate interbasin flow and water budgets. In the WRFS, starting with upgradient valleys in the north and moving downgradient to the south, the first consolidated rock wells encountered are south of White River Valley. As noted earlier in this report, warm water in wells completed in consolidated rock is assumed to represent interbasin flow from upgradient basins. The USGS-MX well (CV-DT-1) south of and downgradient from southern White River Valley is completed in the carbonate-rock aquifers and is located in northwest Coal Valley in a low-altitude pass between Coal and Garden valleys (Plate 1 and Appendix 3). The isotopic content of water in this well is -109.0 and -14.56‰ for deuterium and oxygen-18, respectively. The source of water for this well, in all six mass-balance models, is assumed to be interbasin flow from

Garden Valley. The model-calculated isotopic composition of Garden Valley inflow to Coal Valley is -104.7 and -14.08‰, except for the Reconnaissance Report Series water budget mass-balance models, which have calculated deuterium values of -104.2 and -104.5‰ and calculated oxygen-18 values of -14.00 and -14.06‰. The Reconnaissance Report Series water-budget-calculated isotopic values for Garden Valley interbasin flow to Coal valley are similar to the SNWA and SNWA/BARCAS water-budget-calculated values because this interbasin flow is only local recharge to Garden Valley, which has a similar isotopic composition in all six models. The mass-balance-calculated values for Garden Valley inflow to this well are significantly higher (more than 4 and 0.4‰ more positive in deuterium and oxygen-18, respectively) than the average measured values for water in the well (Table 4). This difference between calculated and measured values indicates that there is likely some interbasin flow from southern White River Valley to Coal Valley in the area of this well (Plates 1 and 2). Southern White River Valley groundwater outflow is isotopically lighter than Garden Valley recharge and the water in the Coal Valley well in all six isotope massbalance models (appendix 2). Thus, mixing some outflow from southern White River Valley with some Garden Valley recharge could produce calculated isotopic values similar to measured values in this northern Coal Valley well. Having some interbasin flow from southern White River Valley to Coal Valley, instead of all interbasin flow going to Pahroc Valley, is possible given the geology along the boundary between southern White River Valley and Coal Valley (SNWA, 2007). Having some southern White River Valley groundwater flow into Coal Valley would have no effect on the water budget mass-balance calculations in the WRFS, because there is no groundwater ET in Coal Valley and all Coal Valley groundwater is assumed to flow into Pahroc Valley.

A second consolidated rock well with warm water (Fugro Dry Lake V Deep Well; Appendices 2 and 3) is located just south of White River and Cave valleys near the topographic divide between northern Dry Lake and northern Pahroc valleys (Plates 1 and 2). Water in this well has deuterium and oxygen-18 values of -107.5 and -14.16‰, respectively. Interbasin flow into northwestern Dry Lake Valley is most likely from southern Cave Valley because the geology and geologic structure along the southeastern part of Cave Valley and northwestern Dry Lake Valley are conducive to interbasin flow in this area (SNWA, 2007). In the mass-balance models, this interbasin flow is shown as entering northeastern Pahroc Valley, which it may do before flowing into northwestern Dry Lake Valley. Cave Valley outflow has a calculated isotopic content of -106.5 and -14.28‰ (1.0 and 0.12‰ different from measured values) for the mass-balance models using SNWA and SNWA/BARCAS water budgets, so the well water isotopic data support interbasin flow from Cave Valley as the source of this well water (Table 4). The Reconnaissance Report Series water budget was routed using Eakin's 1966 interbasin flow routing, so no interbasin flow to Dry Lake Valley is included in these mass-balance models. The calculated deuterium and oxygen-18 values of local recharge for these mass-balance models was -98.9 and -13.10‰ (8.6 and 1.06‰ different than measured values) for the Reconnaissance Report series water budget. Clearly, given the local recharge isotopic values, local recharge is not the source of the warm water in the well.

Table 4. A comparison of the difference between measured and calculated deuterium and oxygen-18 values for wells completed in consolidated rock that contain warm (>20 °C) water for the WRFS that are outside of regional warm spring areas. Models 1 and 2 are for the SNWA water budget; models 3 and 4 are for the SNWA/BARCAS water budget; models 5 and 6 are for the Reconnaissance Report Series water budget. Models 1, 3, and 5 are for ET that is a mixture of local recharge and interbasin flow and models 2, 4, and 6 are for ET that uses local recharge first to satisfy ET demands. Positive values show that calculate values are less negative than measured values and negative values show that calculated values are more negative than measured values.

Warm Spring Discharge Area or Well	Model 1 δD	Model 1 $\delta^{18}O$	Model 2 δD	$\begin{array}{c} \text{Model 2} \\ \delta^{18} \text{O} \end{array}$	Model 3 δD	Model 3 $\delta^{18}O$	Model 4 δD	$\begin{array}{c} \text{Model 4} \\ \delta^{18} \text{O} \end{array}$	Model 5 δD	$\begin{array}{c} \text{Model 5} \\ \delta^{18} \text{O} \end{array}$	Model 6 δD	Model 6 $\delta^{18}O$
	(‰)	(‰)	(‰)	(‰)	(‰)	(‰)	(‰)	(‰)	(‰)	(‰)	(‰)	(‰)
USGS-MX CV well (CV-DT-1) Coal Valley	+4.3	+0.48	+4.3	+0.48	+4.3	+0.48	+4.3	+0.48	+4.8	+0.56	+4.5	+0.50
Fugro Dry Lake V Deep Well North Dry Lake Valley	+1.0	-0.12	+1.0	-0.12	+1.0	-0.12	+1.0	-0.12	+8.6	+1.06	+8.6	+1.06
Well 181M1 Dry Lake Valley	-1.5	-0.61	-1.5	-0.61	-1.5	-0.61	-1.5	-0.61	+6.1	+0.57	+6.1	+0.57
Well 181W909M Dry Lake Valley	-1.9	-0.78	-1.9	-0.78	-1.9	-0.78	-1.9	-0.78	+5.7	+0.40	+5.7	+0.40
Well 182W906M Delamar Valley	+1.4	+0.21	+1.4	+0.21	+1.3	+0.21	+1.3	+0.21	+1.4	+0.23	+1.4	+0.23
Well 209M-1 Pahranagat Valley	-0.3	-0.51	-0.9	-0.57	+0.7	-0.39	+0.4	-0.42	-6.6	-1.24	-9.7	-1.56
Average of 11 wells Coyote Springs Valley	+1.1	-0.24	+0.4	-0.17	+1.8	-0.14	+1.3	-0.17	-7.2	-1.26	-9.8	-1.52
Wells in Upper Moapa Valley	-0.8	-0.28	-1.6	-0.34	-0.2	-0.19	-0.9	-0.24	-9.3	-1.32	-11.9	-1.59
Wells in Garnet Valley	-2.4	0.00	-3.0	-0.03	-1.7	+0.10	-2.1	+0.08	+15.9	+2.72	+15.9	+2.72
Wells in California Wash V.	+1.2	+0.33	+0.1	+0.23	+1.7	+0.39	+0.7	+0.30	-4.8	-0.37	-7.1	-0.60

Dry Lake Valley also contains two wells in addition to the USGS MX well completed in consolidated rock that were recently drilled by SNWA. These two wells (181M1 and 181W909M; appendices 2 and 3 and Plates 1 and 2) are located in west- central and southeastern Dry Lake Valley. They were developed before sampling by removing a volume of water approximately equal to the volume used in drilling the wells. Thus, the isotopic data should be representative of the regional groundwater in the area of the wells, but the samples may contain some drilling fluid mixed with the regional groundwater. The samples from the two Dry Lake Valley wells have measured deuterium and oxygen-18 values of -105.0 and -104.6 and -13.67 and -13.50‰, respectively. The source of this water is Cave Valley, the same as for the northern Dry Lake Valley well. The mass-balance model-calculated deuterium values for these two wells for both the SNWA and SNWA/BARCAS water budgets are an excellent match to measured values. However, neither well has an acceptable mass-balance model-calculated oxygen-18 value for the SNWA or SNWA/BARCAS water budgets. The mass-balance model-calculated deuterium and oxygen-18 values for these two wells for the Reconnaissance Report Series water budget and Eakin (1966) interbasin flow routing exceed the acceptable range, except for oxygen-18 for well 181W909M, which is right at the limit of the acceptable range (Table 4). Thus, the isotope mass-balance models show that the SNWA and SNWA/BARCAS water budgets and interbasin flows produce an excellent match to measured deuterium values, but none of the mass-balance models produce an acceptable calculated oxygen-18 value. The more negative calculated oxygen-18 than measured values, indicates that some local recharge, which has more positive oxygen-18 values then Cave Valley interbasin flow, may be mixing with the interbasin flow from Cave Valley as it flows south to these two wells.

Downgradient from Pahroc Valley a consolidated rock well with warm water (well 209M-1) is located in northeastern Pahranagat Valley near the topographic divide between Pahranagat and Delamar valleys (Plates 1 and 2). This well water has deuterium and oxygen-18 values of -104.7 and -13.53‰, respectively. The location of the well indicates that the source of this groundwater is inflow from Pahroc Valley, which is immediately upgradient from Pahranagat Valley. For the SNWA water budget, mass-balance-calculated deuterium values for the two models are -105.0 and -105.6‰ and for oxygen-18 are -14.04 and -14.10‰ and for the SNWA/BARCAS water budget they are -104.0 and -104.3‰ and -13.92 and -13.95‰, respectively. For deuterium, all four of these model-calculated values are excellent matches with measured values, however, for oxygen-18 only one of the SNWA/BARCAS calculated values is an acceptable match and all the others are outside the acceptable range (Table 4). The location of the well in the South Pahroc Range recharge area and very near the topographic divide with Delamar Valley, along with the less negative oxygen-18 value than interbasin flow from Pahroc Valley, indicates that this well may be mixing some local recharge and/or inflow from Dry Lake Valley (with less negative oxygen-18 water) with regional groundwater flow in this area. All calculated isotopic values for the mass-balance model using the Reconnaissance Report Series water budget are significantly less than acceptable values as compared to the measured values (Table 4).

Wells completed in consolidated rock with warm water that are present in the WRFS before the next downgradient warm spring area in Upper Moapa Valley (Big Muddy Springs area) are in Delamar and Coyote Springs valleys. Delamar Valley contains Well 182W906M. Before sampling, this well was developed by removing a volume of water approximately equal to the volume used in drilling the well. Thus, the isotopic data for this well should be

representative of the regional groundwater in the area of the well, but the sample may contain some drilling fluid mixed with the regional groundwater. Water in this well should be regional groundwater inflow from upgradient Dry Lake Valley. Water from this well has a deuterium value of -100.3‰ and an oxygen-18 value of -13.33‰. All six mass-balance models produced calculated deuterium values that are excellent matches with the measured value and oxygen-18 values that are good matches with the measured value. Mass-balance model results show that SNWA, SNWA/BARCAS, and Reconnaissance Report Series water budgets and routing all indicate that water in this well is from interbasin flow from Dry Lake Valley (Table 4).

Downgradient of Pahranagat, Delamar, and Kane Springs valleys is Coyote Springs Valley. Numerous wells have recently been completed in the valley in consolidated rock, developed by aquifer testing, and sampled for chemical and isotopic analyses (Acheampong et al., 2007; and Stephen Acheampong, SNWA, written commun., 2007). The average isotopic content of water from 11 wells in Coyote Springs Valley with warm regional groundwater was used for evaluating water budgets and interbasin flow. Three of the 14 wells with isotopic data in the valley were not used in determining the average isotopic composition of interbasin flow because two of the wells are shallower than a nearby well and contain local recharge (wells CSVM-7 and VF-1) and one well is located on the Sheep Range alluvial fan (CSVM-5) and contains primarily recharge water from the Sheep Range. The average isotope values of the 11 well waters are -100.7% for deuterium and -13.11% for oxygen-18. The calculated deuterium and oxygen-18 values for interbasin flow into Coyote Springs Valley for the SNWA water budget and interbasin flows is -99.6 and -100.3‰ for deuterium and -13.35 and -13.38‰ for oxygen-18. The calculated deuterium values are excellent matches for the average measured value and one of the calculated oxygen-18 values is an excellent match and the other is a good match with the average measured value. For the SNWA/BARCAS water budget, mass-balance model-calculated deuterium and oxygen-18 values are excellent matches for the average measured values (Table 4). All calculated isotopic values for the mass-balance model using the Reconnaissance Report Series water budget are significantly less than acceptable values when compared to the measured values (Table 4).

Upper Moapa, Garnet, and California Wash valleys are all downgradient of Coyote Springs Valley and they contain wells completed in consolidated rock with warm water. The source of almost all of this groundwater is water in the carbonate-rock aquifers flowing out of the Coyote Springs Valley area. This interbasin flow has a deuterium composition of -99.9 to -99.3‰ and an oxygen-18 composition of -13.35 to -13.32‰ for the SNWA water budget. A comparison of the average isotopic values of these well waters with mass-balancecalculated values shows that deuterium values are good to excellent matches and oxygen-18 values range from excellent to acceptable matches with measured values (Table 4). The calculated isotope values for the SNWA/BARCAS water budget are all excellent to good matches with measured values, except for one oxygen-18 value, which was an acceptable match with measured values (Table 4). For Upper Moapa, Garnet, and California Wash valleys, all calculated isotopic values for the mass-balance model using the Reconnaissance Report Series water budget are significantly less than acceptable values when compared to the measured values, except for one acceptable oxygen-18 value for California Wash Valley (Table 4). Lower Moapa Valley has two wells in the Weiser Wash area with isotopic data (EH-3, EH-7) that may be completed in consolidated rock. These wells have deuterium and oxygen-18 values of -91.0 (both wells) and -12.70 and -12.45‰, respectively. These wells do not reflect regional groundwater from the WRFS in this area (California Wash interbasin flow), rather they are most similar to the calculated isotope values of groundwater in Lower Meadow Valley Wash (-93.5 and -12.59‰; appendix 2). Thus, the source of these well waters, which are located north of California Wash and east of Lower Meadow Valley Wash (Plates 1 and 2), is interbasin flow from Lower Meadow Valley Wash near the area where interbasin flow enters California Wash.

The Black Mountains area basin contains several small springs that discharge both local recharge and regional groundwater (Pohlman et al., 1998). Three springs located in the southern part of the basin—Bitter, Cottonwood, and Sandstone springs—are cold (<20 °C) alluvial springs that discharge local recharge. There is no recharge to this area in the SNWA water budget, so either this small amount of discharge is overlooked as low-altitude recharge in the water budget or there is some low-altitude recharge from other nearby basins that discharge from these springs. In the Black Mountains area, there is a second group of springs in the eastern part of the basin. The two largest of these springs, Rogers and Blue Point springs, discharge directly out of carbonate rock and they are warm (>20 °C). Their deuterium and oxygen-18 compositions are -91.7 and -92.6‰ and -12.33 and -12.40‰, respectively. The proposed source of this water is inflow from California Wash. However, the calculated isotopic composition of inflow for the SNWA and SNWA/BARCAS water budgets ranges from -98.9 to -97.3‰ for deuterium and -13.22 to -13.06‰ for oxygen-18 (Appendix 2), which are outside the acceptable range for this to be the source of water for these springs. Possible sources of this water are: (1) interbasin flow directly from southern Lower Meadow Valley Wash to the springs (-96.3 to -93.5‰ for deuterium and -12.92 to -12.59‰ for oxygen-18 for SNWA and SNWA/BARCAS water budgets [Appendix 2]); or (2) regional flow from either California Wash or Lower Meadow Valley Wash that has mixed with local recharge, which is isotopically heavier (more positive) than the spring discharge in this area (Appendix 2).

In summary, the isotope mass-balance models produced similar and acceptable results for calculated deuterium and oxygen-18 values for wells completed in consolidated rock with warm water using the SNWA (2007) or the SNWA/BARCAS water budgets and interbasin flows. The isotope mass-balance models using the Reconnaissance Report Series water budget and Eakin (1966) interbasin flow routing only produced acceptable calculated isotopic values for wells in Dry Lake Valley, Well 182-906M in Delamar Valley, and wells in California Wash Valley.

White River Flow System Water Chemistry

An overview evaluation of water chemistry data for groundwater in the WRFS was performed by plotting water chemistry data on a trilinear diagram. Plotting water chemistry data for cold ($<20^{\circ}$ C) and warm ($>20^{\circ}$ C) springs discharging from and wells completed in the carbonate-rock aquifers of the WRFS on a trilinear diagram (Figure 15) shows that the water chemistry is generally similar from north to south down the flow system until Coyote Springs Valley. Groundwater flowing down the WRFS is generally a Ca-Mg-HCO₃-type water until the groundwater encounters evaporative salts, likely gypsum or anhydrite and halite, in the southern part of the flow system. As groundwater flows through Coyote Springs Valley and into Upper Moapa Valley, evaporative salts are added to the water before it discharges in the Muddy River Springs area. This is observed on the trilinear plot as the concentrations of sodium (Na), sulfate (SO₄), and chloride (Cl) increase from the warm springs in Pahranagat Valley to the carbonate wells in Coyote Springs Valley to the warm springs and wells completed in the carbonate-rock aquifer in the Muddy River springs area.

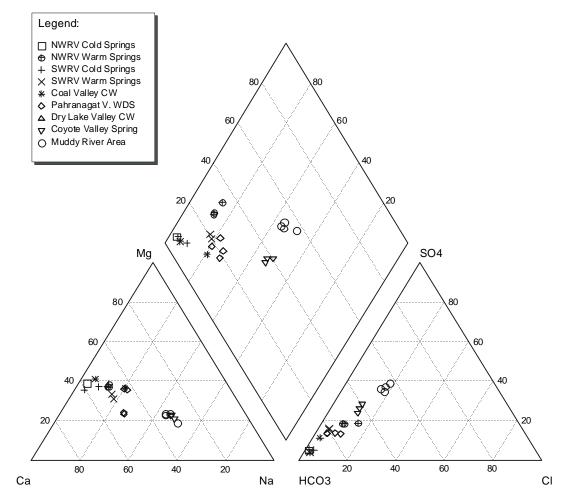


Figure 15. Trilinear plot of White River flow system water chemistry (from Thomas *et al.*, 2001, Figure 6).

Meadow Valley Wash Regional Groundwater Flow System

Mifflin (1968) and Emme (1986) described regional groundwater flow in the MVWFS. The original flow delineations by Mifflin (1968) and Emme (1986) for parts of the MVWFS were further developed by the LVVWD (2001) and Thomas *et al.* (2001). Groundwater levels in the MVWFS show that groundwater recharged as far north as Lake Valley flows through Patterson Valley to Panaca Valley and as far to the northeast as Spring Valley (the Spring Valley southeast of Lake Valley and south of Spring Valley that has U.S. Highway 50 going through it and Snake Valley) flows through Eagle, Rose, and Dry valleys into Panaca Valley (Figures 2 and 14; Thomas *et al.*, 2001). Panaca Valley groundwater flows into Meadow Valley Wash as does groundwater flowing out of Clover Valley. As

described for the White River regional flow system, groundwater in Meadow Valley Wash flows south into Upper Moapa and California Wash valleys.

In the MVWFS, regional warm springs that can be used to evaluate the isotope massbalance models are present only in Panaca Valley. Panaca Warm Spring is a large spring discharging from the carbonate-rock aquifers in northern Panaca Valley and Caliente Hot Springs discharge from the carbonate rock aquifers in the southern part of Panaca Valley. The regional warm springs in the Muddy River springs area of the WRFS provide an additional evaluation point for calculated isotopic values for the MVWFS water budgets, because groundwater in the MVWFS flows into the WRFS in the area of the Muddy River Springs. In addition, there are small warm springs (flow < 50 afy) in the MVWFS that may represent interbasin flow or interbasin flow mixed with local recharge that can also be used to evaluate the mass-balance models. These smaller warm springs are Flat Nose Spring in Dry Valley, Bennett Spring in the west-central part of Panaca Valley, and Kershaw-Ryan Spring #1 in the northeastern part of Lower Meadow Valley Wash (Plates 1 and 2). Although the MVWFS does not contain consolidated rock wells with warm water that can be used to evaluate interbasin flow and water budgets for the MVWFS, as were present in the WRFS, the MVWFS does have alluvial wells with warm (>20 °C) water. These alluvial wells with warm water include Panaca Town, Lester Mathews, and North Lee wells in the Panaca Warm Spring area and the Railroad well (Farrier), EH-6 well, and EH-8 well in the southernmost part of Lower Meadow Valley Wash.

Meadow Valley Wash Flow System Isotope Mass-balance Models

The stable isotope mass-balance models developed for the MVWFS for this study include the same area as the Thomas *et al.* (2001) study. However, this study includes a significant amount of new data (about 450 new analyses) to help define the isotopic content of groundwater recharge areas both spatially and temporally and new recharge and groundwater ET estimates (SNWA, 2007; Welch and Bright; 2007).

Model Development and Results

Stable isotopes of water were used to evaluate water budgets and interbasin flows for the MVWFS by determining average deuterium and oxygen-18 values for all recharge and groundwater ET areas in the study area and tracking the volumes of recharge added to and ET removed from the MVWFS throughout the study area. For a water budget to be a reasonable estimate of recharge and ET, calculated isotopic values for regional spring discharge areas and small warm springs have to be similar to measured values. No wells completed in consolidated rock with warm (>20 °C) water from the regional flow system were identified in the MVWFS that could be used to help evaluate water budgets and interbasin flow, but some wells completed in alluvium contained warm water and they were used to help evaluate interbasin flows and water budget estimates.

To use a stable isotope mass-balance model for evaluating water budgets in regional flow systems, there needs to be an easily identifiable range in isotopic values throughout a flow system. A range in isotopic values is needed to identify inputs from different recharge areas and interbasin flow in a regional flow system. Fortunately, in the MVWFS deuterium and oxygen-18 vary greatly from Lower Meadow Valley Wash in the south to Lake Valley in the north. A plot of deuterium versus oxygen-18 (Figure 16) shows that isotopic values increase (become less negative) from north to south. This 25.5‰ increase in recharge area

deuterium values, from -112.0‰ in Lake Valley in the northern MVWFS to -86.5‰ in Lower Meadow Valley Wash in the southern MVWFS and the 3.64‰ increase in recharge area oxygen-18 values, from -15.10‰ in Lake Valley in the north to -11.46‰ in Lower Meadow Valley Wash in the south (Appendices 1 and 2 and plate 2), makes deuterium and oxygen-18 excellent tracers for water budget evaluations in the MVWFS.

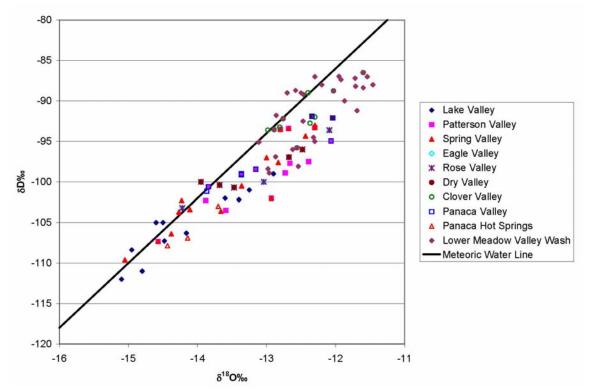


Figure 16. Plot of deuterium versus oxygen-18 for samples in the Meadow Valley Wash flow system. Meteoric Water Line from Craig (1961).

The water budgets evaluated in this report are based on estimates of recharge for the different mountainous recharge areas in a valley and predevelopment ET. Groundwater interbasin flow directions for the SNWA, SNWA/BARCAS, and Reconnaissance Report series water budgets are the same with groundwater flowing downgradient from northern valleys (Lake and Spring valleys) to Lower Meadow Valley Wash in the south and the amount of interbasin flow is recharge plus interbasin flow that is in excess of ET in a valley. As noted earlier in this report, three different water budgets were evaluated in this study: (1) new SNWA recharge and predevelopment ET rates (SNWA, 2007); (2) new SNWA recharge and ET rates combined with BARCAS study ET rates (SNWA, 2007; Welch and Bright, 2007; BARCAS ET rates were used in place of new SNWA recharge rates for Lake Valley in the MVWFS); and (3) Reconnaissance Report series recharge and ET rates. The ET values are for predevelopment conditions and do not include ET from fields irrigated by groundwater, but they do include spring discharge.

The isotope mass-balance models are used to evaluate MVWFS water budgets by determining if estimated recharge and ET rates and interbasin flows within the MVWFS are consistent with the deuterium and oxygen-18 data (Table 3 and Appendix 3). If mass-balance

model-calculated deuterium and oxygen-18 values are similar to measured values for regional warm springs, then the proposed water budgets are reasonable. In contrast, if massbalance model-calculated deuterium and oxygen-18 values are significantly different than measured values for regional warm springs, then the proposed water budgets are not reasonable, or interbasin flow routing may be incorrect. In addition to regional warm springs, small warm springs and alluvial wells containing warm water are used as additional evaluation points in the MVWFS. Similar to the regional warm springs, the isotopic content of groundwater in small springs and warm water wells needs to be similar to the calculated value for the proposed interbasin flows and water budgets to be reasonable. The isotopic mass-balance models are not used for determining how much recharge should be assigned to each recharge area or how much ET should be assigned to each valley; rather, the models evaluate whether the assigned recharge and ET values and interbasin flows are consistent with the stable isotope data of the MVWFS. The isotopic mass-balance models are nonunique; a reasonable result confirms the viability of a proposed water budget but it does not prove that the water budget is correct. An isotopic mass-balance model can be used to eliminate unrealistic water budget estimates, or interbasin flows, and to help identify areas where water budgets and/or interbasin flows need to be better understood.

Regional Warm Springs

The same approach that was used for evaluating water budgets and interbasin flows for the WRFS with the isotope mass-balance model was used for the MVWFS. In the MVWFS, the only valley with large regional warm springs is Panaca Valley. Panaca warm spring in northern Panaca Valley has average measured deuterium and oxygen-18 values of -106.9 and -14.14‰, respectively, for 13 samples (Table 2). Interbasin flows from Patterson and Dry valleys into Panaca Valley are about 6 to 8‰ more positive for deuterium and 0.7 to 1.0‰ more positive for oxygen-18 than isotope mass-balance-calculated interbasin flows for the SNWA and SNWA/BARCAS water budgets. The only groundwater in carbonate-rock aquifers of the MWVFS with similar isotopic values to that of Panaca Spring is groundwater in Lake Valley. Panaca Spring discharges out the southern part of the highly faulted carbonate rocks of the Pioche Hills. Thus, the source of this carbonate aquifer water is likely interbasin flow from Lake Valley that flows under Patterson Valley alluvial and volcanic rock aquifers in carbonate-rock aquifers to Panaca Spring. Some of this flow passes through volcanic rock aquifers before discharging from carbonate-rock aquifers as indicated by the presence of elevated sodium and potassium concentrations as compared to other carbonaterock aquifer groundwaters in the MVWFS (see Meadow Valley Wash Flow System Water Chemistry section in report). Isotope mass-balance model-calculated deuterium and oxygen-18 values for the SNWA, SNWA/BARCAS, and Reconnaissance Report series water budgets are an excellent match to measured values at Panaca Spring if the source of the spring is Lake Valley interbasin flow (Table 3). The lack of isotopic data for groundwater in Patterson Valley, only one site (Dodge Well) in the northern part of the valley with deuterium and oxygen-18 values -107.0 and -14.20‰, respectively, prohibits the determination of isotopic values for groundwater in the carbonate-rock aquifers in the valley. Although the cold (< 20 °C) water in this alluvial well has deuterium and oxygen-18 values that are very similar to Panaca Spring (Appendix 3), so this northern Patterson Valley groundwater may be representative of interbasin flow out of Lake Valley in the carbonaterock aquifer. In summary, recharge to Lake Valley is the most likely source of water discharging from Panaca Spring.

The Caliente Hot Springs in southern Panaca Valley also have measured deuterium and oxygen-18 values similar to Lake Valley recharge (-107.9 and -14.44‰ for the average of 8 samples). Isotope mass-balance model-calculated deuterium values are a good match and calculated oxygen-18 values are an acceptable match for measured values for the SNWA and SNWA/BARCAS water budgets and interbasin flows (Table 3). Isotope mass-balance model-calculated deuterium and oxygen-18 values for the Reconnaissance Report series water budget and interbasin flows are an excellent match to measured values for the Caliente Hot Springs (Table 3). Thus, recharge to Lake Valley appears to be the source of water discharging from the Caliente Hot Springs.

The Muddy River springs area in Upper Moapa Valley receives interbasin flow from Lower Meadow Valley Wash at the terminus of the MVWFS, thus these regional warm springs also provide information that can be used to evaluate water budgets and interbasin flow for the MVWFS. As described above for the WRFS, the mass-balance model-calculated deuterium values for the SNWA and SNWA/BARCAS water budgets and interbasin flows are all excellent matches with the discharge-weighted average value (Table 3) and the oxygen-18 values are good to acceptable matches, except for model 2, which is 0.01‰ less than the acceptable range for oxygen-18 (Table 3). The mass-balance model-calculated deuterium and oxygen-18 values for the Reconnaissance Report series water budget and interbasin flow were significantly less than the acceptable values for both models (Table 3). In summary, the mass-balance-calculated isotopic values for springs in the Muddy River Springs area show that the SNWA and SNWA/BARCAS water budgets for the MVWFS is supported by the mass-balance models. However, interbasin flow to the Muddy River Springs area from the MVWFS is only about 10 percent of the interbasin flow to this area, so although isotope mass-balance models for the Muddy Springs area support the SNWA and SNWA/BARCAS MVWFS water budgets, a strong statement cannot be made about water budgets and interbasin flows of the MVWFS using mass-balance model results for the Muddy River Springs area data.

In summary, the isotope mass-balance models produced excellent matches for calculated deuterium and oxygen-18 values with measured values for Panaca Spring for all six water budgets. The isotope mass-balance models produced good matches for calculated deuterium values and acceptable values for calculated oxygen-18 values with measured values for Caliente Hot Spring for the SNWA and SNWA/BARCAS water budgets. The isotope mass-balance models produced excellent matches for calculated deuterium and good matches for calculated oxygen-18 values for Caliente Hot Spring for the SNWA and SNWA/BARCAS water budgets. The isotope mass-balance models produced excellent matches for calculated deuterium and good matches for calculated oxygen-18 values for Caliente Hot Spring for the Reconnaissance Report series water budget. Some interbasin flow moves from the MVWFS to the WRFS in the Muddy River Springs area, so this also provides information that can be used to evaluate water budgets for the MVWFS. The SNWA and SNWA/BARCAS water budgets produce excellent to acceptable matches for calculated and measured values for the Muddy River Springs and the Reconnaissance Report series water budget does not.

Small Warm Springs and Alluvial Wells with Warm Water

In addition to regional warm spring areas in the MVWFS, small warm springs and alluvial wells with warm water, which are likely fed by regional groundwater flow, are also present. These small warm springs and alluvial wells with warm water provide additional data that can be used to evaluate water budgets and interbasin flow. In the MVWFS, going from north to south down the hydraulic gradient the valleys with small warm springs and alluvial wells with warm water are Dry, Panaca, and Lower Meadow Valley Wash valleys. Flat Nose Spring in Dry Valley has measured deuterium and oxygen-18 values of -101.0 and -13.40‰, respectively. The SNWA and SNWA/BARCAS water budget mass-balance models have calculated deuterium values of -99.3 and -99.2‰ and oxygen-18 values of -13.25 and -13.24‰, respectively, for interbasin flow into Dry Valley from Rose Valley. These calculated values are excellent matches with measured values for both deuterium and oxygen-18 (Table 3). The Reconnaissance Report Series water budget mass-balance models produced calculated deuterium and oxygen-18 values that were good matches with measured values for both deuterium and oxygen-18 (Table 3). Thus, the isotope mass-balance model-calculated deuterium and oxygen-18 values support the proposed water budgets and interbasin flows above Dry Valley in the MVWFS.

The next downgradient valley with a small warm spring is Panaca Valley. Bennett Spring is located in the west-central part of Panaca Valley. The measured isotopic content of this spring is -103.0 and -13.70‰, for deuterium and oxygen-18, respectively. The source of this spring water could be deep interbasin flow from Lake Valley, inflow from Patterson Valley, or a mixture of regional flow with local recharge. The mass-balance-calculated deuterium values are an excellent match with measured values for 3 of the 4 models and a good match for the other model and calculated oxygen-18 values are a good match with measured values for 3 of the 4 models and an acceptable match for the other model for Patterson Valley interbasin flow being the source of this spring for the SNWA and SNWA/BARCAS water budgets. If the source of Bennett Spring was interbasin flow from Lake Valley rather than Patterson Valley, the mass-balance calculated deuterium values are a good match with measured values for 4 models and calculated oxygen-18 values are an acceptable match with measured values for the SNWA water budget but they not an acceptable match for the SNWA/BARCAS water budget. The mass-balance models using the Reconnaissance Report series water budget produce similar results (Table 3). Thus, the most likely source of Bennett Spring is interbasin flow from Patterson Valley because all three water budgets produce excellent to good matches for calculated isotopic values with measured values, with the exception of one model-calculated oxgygen-18 value, which produced an acceptable match.

Three alluvial wells with warm water are located in the Panaca Warm Spring area— Panaca Town, Lester Mathews, and North Lee wells. The Panaca Town well water has similar deuterium and oxygen-18 values as Panaca Spring and thus likely has the same source water. The other two wells contain water with deuterium and oxygen-18 values that are more positive than Panaca Spring and more negative than local recharge, so the water in these wells is likely a mixture of regional groundwater in the Panaca Spring area with local recharge and/or inflow to the valley from Patterson and Dry valleys. This mixture is needed to produce calculated oxygen-18 values that are an acceptable, or better, match with measured values.

Downgradient of Panaca Valley is Meadow Valley Wash. Kershaw-Ryan Spring #1 is located in the northeastern part of Lower Meadow Valley Wash. The spring has measured deuterium and oxygen-18 values of -95.1 and -13.11‰, respectively. These values are more negative than recharge from the adjacent Clover Mountains (-90.4 and -12.25‰), so this small warm spring likely is interbasin flow rather than local recharge. Both Panaca and Clover valleys flow into northern Meadow Valley Wash. The inflow weighted-average

deuterium and oxygen-18 values for the SNWA and SNWA/BARCAS water budget models range from -100.1 to -95.5‰ and -13.36 to -12.82‰, respectively. All mass-balance model-calculated deuterium values for the SNWA and SNWA/BARCAS water budgets were excellent matches with measured values and were good matches for calculated oxygen-18 values with one calculated value being an excellent match to measured values (Table 3). The mass-balance model-calculated deuterium values for the Reconnaissance Report series water budget were outside of the acceptable level as compared to measured values, but the oxygen-18 values were an excellent and good match with measured values (Table 3). The isotope mass-balance models support the SNWA and SNWA/BARCAS water budgets and interbasin flow into northern Lower Meadow Valley Wash from Panaca and Clover valleys.

Alluvial wells with warm water in Lower Meadow Valley Wash are located in the southernmost part of the valley. These wells include the Railroad Well (Farrier), EH-6, and EH-8 in the Weiser Wash area (Plates 1 and 2 and appendix 3). These three wells have deuterium values ranging from -99.5 to -96.5‰ and oxygen-18 values ranging from -13.90 to -12.50‰. These wells appear to contain well-mixed carbonate aquifer water that is observed in the Muddy River Springs area in Upper Moapa Valley and at well CSV-2 in the northern part of Upper Moapa Valley about halfway between the Muddy River Springs area and the Railroad Well (Farrier). Regional groundwater in the Muddy River Springs area has deuterium values that range from -99.0 to -96.5‰ and oxygen-18 values that range from -13.05 to -12.45‰. The isotopic values of the alluvial wells with warm water fall within the range of Upper Moapa Valley regional groundwaters, except for two of the oxygen-18 values that are more negative than the Muddy River Springs area groundwater.

In summary, the isotope mass-balance models produced similar and excellent to good matches for model-calculated deuterium and oxygen-18 values for small flowing warm springs for the SNWA (2007) and SNWA/BARCAS water budgets and interbasin flows. The isotope mass-balance models using the Reconnaissance Report series water budget produced excellent to good matches for calculated isotopic values for two of the three springs and for oxygen-18 for the third spring, but the calculated deuterium values were outside the acceptable range for the third spring. Alluvial wells with warm water in the MVWFS were only in the Panaca Spring area and in the southernmost part of Lower Meadow Valley Wash. These well waters had isotopic values that were generally in the range of model-calculated isotopic values for those areas.

Meadow Valley Wash Flow System Water Chemistry

An overview evaluation of water chemistry data for groundwater in the MVWFS was performed by plotting water chemistry data on a trilinear diagram. In contrast to groundwater chemistry in the WRFS, groundwater in the MVWFS shows marked differences because of the movement of groundwater through volcanic rock and alluvial aquifers that contain volcanic rock (Figure 17). Groundwater in Lake Valley and the mountains along the western boundary of the MVWFS, which are predominately carbonate rock, is a Ca-Mg-HCO₃ water type, with the exception of one sample. Groundwater in the volcanic rocks of the MVWFS range from a Ca-Mg-HCO₃-type water to a more Na- and K-rich groundwater. Groundwater from alluvial wells has a chemical composition that overlaps that of the volcanic rock aquifer groundwaters, but most samples contain more sulfate and chloride than either the volcanic rock or carbonate-rock groundwaters. Panaca Spring contains a mixed water chemistry with more Na and K and generally more SO_4 than the carbonate-aquifer groundwaters (Figure 17 and Appendix 3). The increase in Na and K in Panaca Spring, as compared to other carbonate-rock aquifer groundwater, indicates that these waters have flowed through volcanic rock or alluvial aquifers containing volcanic rock minerals and dissolved Na- and K-rich minerals.

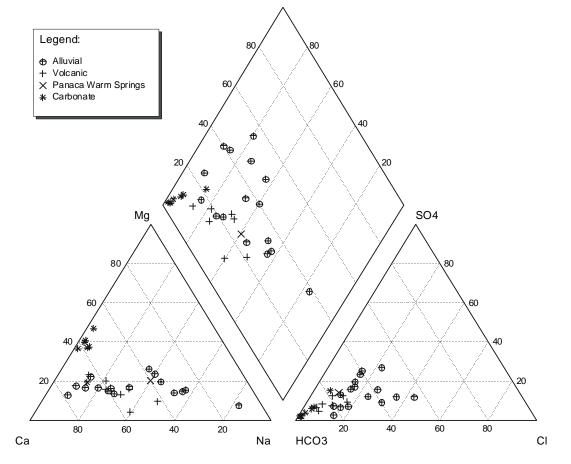


Figure 17. Trilinear plot of Meadow Valley Wash flow system water chemistry (from Thomas *et al.*, 2001, Figure 8).

Isotopic Mass-balance Model Sensitivity

Sensitivity analysis of the isotope mass-balance models to changes in recharge and ET values was performed. The Muddy River Springs discharge area is the most downgradient regional warm spring area in the WRFS, so this spring area integrates all recharge and ET and interbasin flows above this spring discharge area. Additionally, there is some flow from the MVWFS that is also discharged in the Muddy River Springs area. Thus, Muddy River Springs is the best regional spring area in the study area to evaluate sensitivity of the isotope mass-balance models. Sensitivity analysis was performed for the two models that evaluated the SNWA (2007) water budget because: (1) this water budget had the best model results in terms of calculated isotopic values that most closely matched measured values throughout the study area, (2) the model results for the SNWA/BARCAS water budget were very similar to the SNWA water budget, so sensitivity analysis would produce

similar results for both water budgets, and (3) the Reconnaissance Report series water budget did not produce acceptable isotope mass-balance model results for the Muddy River Springs area.

The sensitivity analysis was performed in several steps. First, all recharge and ET values were increased and decreased by 20 percent because changing recharge and ET together by the same percent in the isotope mass-balance models should produce similar results as the original water budget. For increasing both recharge and ET by 20 percent, model 1 calculated deuterium increased by 0.1‰ and calculated oxygen-18 increased by 0.01‰, and for model 2 the calculated values increase by 0.0 and 0.01‰. For decreasing both recharge and ET by 20 percent, model 1 calculated deuterium decreased by 0.1‰ and calculated oxygen-18 decreased by 0.02‰, and for model 2 the calculated values decrease by 0.0 and 0.01^{\omega}. Thus, the concept of increasing or decreasing the current water budget recharge and ET estimates by the same amount will produce the very similar model results was proven to be valid. Next, only the recharge was increased by 10 percent while holding the ET the same. The calculated isotopic values increased by 1.4 and 1.7‰ and were 2.4 and 3.4‰ more positive than measured values for deuterium and increased by 0.18 and 0.21‰ and were 0.52 and 0.61‰ more positive than measured values for oxygen-18. This shows that calculated deuterium values changed from excellent matches to good and acceptable matches with measured values and calculated oxygen-18 values changed from acceptable to unacceptable matches with measured values by simply increasing recharge rates by 10 percent while maintaining the original ET rates. Decreasing ET by 10 percent while keeping recharge the same produced a similar range in calculated deuterium and oxygen-18 values as was observed for increasing recharge by 10 percent. Calculated deuterium and oxygen-18 values were 2.4 and 3.5% and 0.53 and 0.62% greater than measured values, respectively, and calculated values were a good to acceptable match for deuterium and an unacceptable match for oxygen-18 as compared with measured values in both models.

Next, recharge rates were increased and ET rates were decreased individually in the models by 20 percent. Increasing recharge by 20 percent while holding ET the same resulted in calculated isotopic values increasing by 2.4 and 2.9‰ to 3.4 and 4.6‰ more positive than measured values for deuterium and by 0.31 and 0.36‰ to 0.65 and 0.76‰ more positive than measured values for oxygen-18. A similar change in model-calculated deuterium and oxygen-18 values was observed for a 20-percent decrease in ET rates as for a 20-percent increase in recharge rates. Calculated deuterium values were 3.7 and 5.0‰ and calculated oxygen-18 values were 0.69 and 0.81‰ more positive than measured values. Thus, by either increasing recharge or decreasing ET by 20 percent the isotope mass-balance model-calculated values were unacceptable matches with measured values, except for calculated deuterium in model 1.

In summary, increasing or decreasing recharge and discharge rates of the SNWA (2007) water budget together will produce very similar model results to the original mass-balance model results. Increasing or decreasing recharge and discharge rates separately by 20 percent while keeping the other rate the same, produces model results that are generally unacceptable. Thus, an isotopic mass-balance model evaluation of the SNWA (2007) water budget shows that the recharge and ET rates and interbasin flows produce calculated deuterium and oxygen-18 values that match well with measured values, but increasing or decreasing the recharge or ET rates of the water budget by 20 percent results in

mostly unacceptable calculated deuterium and oxygen-18 values as compared to measured values for regional groundwater discharge at the Muddy River Springs area, the most downgradient regional spring area in the WRFS and MWVFS.

Comparison of this Study's Isotope Mass-balance Models with the 2001 and Other Studies

The new SNWA (2007) water budget and interbasin flows evaluated in this study, as compared to the Thomas et al. (2001) study, have overall decreased recharge and ET rates and some different interbasin flow routing. For the WRFS, the SNWA (2007) water budget had total recharge of 155,000 afy as compared to the LVVWD (2001) recharge of 210,000 afy, a 26-percent decrease in total recharge, and a total ET of 140,000 afy, as compared to the LVVWD (2001) ET of 178,000 afy, a 21-percent decrease. For the MVWFS, the SNWA (2007) water budget had total recharge of 73,000 afy as compared to the LVVWD (2001) recharge of 122,000 afy, a 40-percent decrease in total recharge, and a total ET of 63,000 afy, as compared to the LVVWD (2001) ET of 91,000 afy, a 31-percent decrease. Combining the WRFS and MVWFS recharge values for the entire study area shows a decrease from the LVVWD (2001) value of 332,000 afy to 228,000 afy for this study, a decrease of 31 percent. The ET rates for the WRFS and the MVWFS for the entire study area show a decrease from the LVVWD (2001) study of 269,000 to 203,000 afy for this study, an overall decrease in ET of 25 percent. The SNWA/BARCAS recharge and ET rates are very similar to the SNWA (2007) values, so a comparison of the LVVWD (2001) recharge and ET values with the SNWA/BARCAS values is not presented.

Differences in interbasin flows between the Thomas *et al.* (2001) and this study are based on new geologic and hydrologic information (SNWA, 2007). The differences in interbasin flow between this study (flow rates are for the SNWA [2007] water budget) and the Thomas *et al.* (2001) study are: (1) there is no interbasin flow from Long Valley to Newark Valley (Thomas *et al.* [2001] had 8,000 afy of water flowing from Long Valley to Newark Valley); (2) Cave Valley has interbasin flow going to both Southern White River Valley (4,000 afy) and northern Pahroc Valley (9,400 afy), whereas in the Thomas *et al.* (2001) study, all Cave Valley groundwater interbasin flow went to northern Pahroc Valley; (3) all Coal Valley interbasin flow goes into Pahroc Valley, whereas in the Thomas *et al.* (2001) study it all went to Pahranagat Valley; and (4) Lower Meadow Valley Wash interbasin flow goes to both Upper Moapa Valley (Muddy River Springs area; 4,000 afy) and California Wash (5,300 afy), whereas in Thomas *et al.* (2001) all Lower Meadow Valley Wash interbasin flow went to Lower Moapa Valley.

Reconnaissance Report series water budgets used by Eakin (1966) for the part of the WRFS that starts in Long Valley in the north and ends at Muddy River Springs in Upper Moapa Valley in the south did not produce mass-balance model-calculated deuterium and oxygen-18 values that were an acceptable match with measured values at Muddy River Springs. The Reconnaissance Report series recharge and ET values for the 13 valleys of the Eakin WRFS were 104,000 afy, as compared to the SNWA (2007) recharge and ET values of 155,000 and 144,000 afy (including Muddy River spring discharge), respectively. The interbasin flow routing of Eakin (1966) and this study is similar, with differences being in this study: (1) some minor interbasin flow (2,000 afy) from northern Pahroc Valley goes to Dry Lake Valley, (2) Coal Valley interbasin flow goes to Pahroc Valley rather than directly

to Pahranagat Valley, and (3) Delamar Valley interbasin flow enters northern Coyote Springs Valley rather than southern Pahranagat Valley.

The Kirk and Campana (1990) study included the same 13 valleys of the WRFS as the Eakin (1966) study and used Eakin's (1966) interbasin flow routing. They initially set recharge to Maxey-Eakin values but then let the model calculate new recharge values. The model-calculated recharge values were similar to initial Maxey-Eakin recharge estimates. The differences between the Kirk and Campana study and this study are the same as those for the Eakin (1966) study except for: (1) recharge from the Sheep Range to Coyote Springs Valley is 5,000 to 6,000 afy) as compared to the Maxey-Eakin estimate of 2,000 afy and 1,100 afy in this study; (2) the Lower Meadow Valley Wash-Kane Springs Valley area contributed 5,500 to 9,000 afy to the Muddy River Springs discharge area and this study has a total of 8,200 afy going to Muddy River Springs, as compared to the Maxey-Eakin Kane Springs Valley recharge estimate of about 1,000 afy; and (3) 4,000 afy of groundwater is routed out of the WRFS in the Pahranagat Valley area to the west and no interbasin flow leaves Pahranagat Valley to the west in this study or the Eakin (1966) study.

The Thomas et al. (1996) study was for the lower part of the WRFS from the Big Muddy Springs area in Upper Moapa Valley to the Alamo Springs area in Pahranagat Valley. The differences between this study and the Thomas et al. (1996) study arise primarily from the different approaches the studies used. This study applied average stable isotope values to recharge and discharge areas and used an isotope mass-balance model to evaluate these recharge and discharge estimates. Thomas et al. (1996) used average stable isotope values of regional springs and recharge areas and measured flows of regional springs as the total discharge from the lower WRFS. They calculated the amount of water needed from recharge areas and regional flows to obtained measured isotopic values at Muddy River Springs. The main differences between this study and the Thomas et al. (1996) study are: (1) the Thomas et al. (1996) study estimated that 14,000 afy of the spring discharge from the Muddy River springs area was recharge from the Sheep Range as compared to a Sheep Range recharge estimate of 1,100 afy used for this study, and (2) the Thomas et al. (1996) study had 6,000 afy of interbasin flow leaving Pahranagat Valley to the west, whereas this study has no flow leaving Pahranagat Valley to the west. A point of agreement between the two studies is the approximately 8,000 afy of inflow from the Lower Meadow Valley Wash-Kane Springs Valley area into the WRFS.

SUMMARY AND CONCLUSIONS

Isotope mass-balance models were used to evaluate three different water budgets for the regional White River and Meadow Valley Wash groundwater flow systems. The isotopic mass-balance models use average deuterium and oxygen-18 values for recharge and discharge areas to evaluate how closely calculated isotopic values match measured values for regional warm (>20 °C) spring discharge areas, small (<50 afy) warm springs, and consolidated rock and alluvial wells with warm water. The three water budgets that were evaluated include the SNWA (2007), SNWA/BARCAS (SNWA, 2007; Welch and Bright, 2007), and Reconnaissance Report series water budgets. Two different isotope mass-balance models were used to evaluate the water budgets. In the first model, groundwater ET is satisfied by a mixture of local recharge with interbasin flow entering a valley (if there is any interbasin flow entering the valley). In the second model, groundwater ET is initially

satisfied by local recharge and if ET in a valley exceeds local recharge the remainder of the ET is satisfied by interbasin flow.

Deuterium and oxygen-18 data for regional warm springs, small warm springs, groundwater from wells completed in consolidated rock with warm water, and alluvial wells containing warm water clearly show that there is interbasin groundwater flow in the WRFS and MVWFS. The isotopic data for groundwater at these sites shows that these groundwaters are not from local recharge, but rather they are primarily water that has flowed into a valley from an upgradient valley(s).

The isotopic mass-balance models show that the SNWA (2007) water budget and interbasin flows for the WRFS and the MVWFS produce excellent to acceptable matches of calculated deuterium and oxygen-18 values with measured values for regional warm spring areas, except for one calculated oxygen-18 value, which was only 0.01‰ outside the acceptable range. The models also produce excellent to acceptable matches for calculated values as compared to measured values for all small warm springs and most wells with warm water. An isotopic mass-balance model evaluation of the SNWA/BARCAS water budget and interbasin flows for the WRFS and the MVWFS gave similar but not quite as good results as the SNWA water budget. Two calculated deuterium values were not in the acceptable range for matching measured values of regional warm springs. Isotopic mass-balance model results using the Reconnaissance Report series recharge and ET estimates and Eakin (1966) interbasin flow routing were unacceptable for both the Alamo Warm Springs area in Pahranagat Valley and the Muddy River Springs area in Upper Moapa Valley, except for one of the calculated deuterium values for the Pahranagat Valley warm springs.

Isotopic variability for six recharge area monitoring springs within the study area was relatively small with standard deviations of deuterium and oxygen-18 data ranging from 0.7 to 1.6‰ and 0.06 to 0.33‰, respectively. This range in standard deviation for these six sites is for samples taken quarterly throughout all four seasons with four of the six sites having more than three years of data. The isotopic composition of these springs varied little from season to season as spring flow varied a lot, ranging from about 100 to 2,500 gallons per minute during sample collection, and exceeding 5,000 gallons per minute at peak flow, at the largest discharging monitoring spring. This lack of isotopic variability of recharge area springs is important for isotopic mass-balance models because the isotopic composition of recharge area groundwater varies little over time.

Isotopic variability of 12 regional warm springs in the study area was relatively small, with the standard deviation of deuterium and oxygen-18 data ranging from 0.5 to 1.9‰ for deuterium and 0.05 to 0.22‰ (except for one site with a standard deviation of 0.67‰) for oxygen-18. This range in values is for samples taken throughout all four seasons, with some regional warm spring data spanning almost 40 years and a significant number of springs having data that span 20 to 25 years. This lack of isotopic variability of regional warm springs is important for isotopic mass-balance models because this information indicates that the isotopic composition of regional groundwater varies little over time.

Sensitivity analysis was performed on the SNWA (2007) water budget and flow routing mass-balance models by independently increasing or decreasing recharge and ET. The sensitivity analysis showed that when either recharge or ET were increased or decreased by 20 percent most of the mass-balance model-calculated deuterium and oxygen-18 values were outside the range of acceptable matches for measured values of the Muddy River Springs discharge area. Thus, the SNWA (2007) water budget recharge and ET values balance such that a 20-percent change in either produces unacceptable isotopic mass-balance model results.

Finally, the relationship of stable isotopes with altitude was evaluated for five major recharge areas in the study area with 14, or more, springs. These five recharge areas include the White Pine and Central Egan ranges in the northern part of the study area and the White Rock Mountains, Delamar Mountains, and Fairview and Bristol ranges in the central and southern part of the study area. There is no apparent relationship of deuterium with altitude in these five recharge areas, except for a slight trend of more negative values with increasing altitude in the Delamar Range. Because of the lack of a relationship of deuterium values with increasing altitude, all recharge area samples regardless of altitude can be used to determine the average isotopic composition of a mountain block recharge area. If a stable isotopealtitude relationship had been observed, then a model that weighted high recharge areas (higher altitude zones) would need to be developed to accurately assign isotopic values to mountain block recharge areas.

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APPENDIX 1. Isotope mass-balance model summaries for the six mass-balance models

Deview	Nama	Volume	# =6		VA (2007 Wat	-		Cala	Cala	10	
Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O	IC	
XXXXXXXX	*****	XXXXXXXXX	(XXXXXXX)	KXXXXX	(XXXXXXXXX)	XXXXXX	XXXXXX	(XXXXX)	XXXXX	XXXXXX	
175	Long Valley										
0	Inflow (None)	0				0.0	0.00				
TR	Total Recharge	19,900				-122.4	-15.96	400.4	45.00		
ET 154	ET GW Outflow (Newark)	3,000 0						-122.4 -122.4	-15.96 -15.96		
174	GW Outflow (Jakes)	16,900						-122.4	-15.96		
xxxxxxx	****	XXXXXXXXX	xxxxxx	«XXXXX		XXXXXX	xxxxxx	(XXXXX)	xxxxx	XXXXXX	
174	Jakes Valley										
175	-	16 000				-122.4	-15.96				
175 TR	Inflow (Long) Total Recharge	16,900 12,300				-122.4 -119.9	-15.96				
ET	ET	400						-121.3	-15.86		
207N	GW Outflow (NWRV)	28,800						-121.3	-15.86		
XXXXXXXX	*****	XXXXXXXXX	(XXXXXX)	«XXXXX	(XXXXXXXX)	XXXXXX	XXXXXXI)	(XXXXX)	XXXXX	XXXXXX	
180	Cave Valley										
D	Inflow (None)	0				0.0	0.00				
TR ET	Total Recharge	14,700				-106.5	-14.28	100 E	14.00		
Well	ET 180W902	1,300	1	601	Deep Well	-104.7	-14.12	-106.5 -106.5	-14.28 -14.28	Local rec	harg
Well	180W501	0.400	1	600	Deep Well	-105.6	-14.12	-106.5	-14.28	Local rec	
208 207S	GW Outflow (Pahroc) GW Outflow (SWRV)	9,400 4,000						-106.5 -106.5	-14.28 -14.28		
XXXXXXX	*****	XXXXXXXXXX	XXXXXXXX	*****	XXXXXXXXXX	XXXXXX	XXXXXX		(XXXXX	XXXXXX	
		XXXXXXXXX	(XXXXXX)	ĸĸxxxxx	(XXXXXXXXX)	XXXXXX	XXXXXX	(XXXXX)	XXXXX	XXXXXX	
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXX	XXXXXXX	ĸXXXXX		XXXXXX	XXXXXX	(XXXXX)	XXXXX	XXXXXX	
207N 174	North White River Valley	28,800	****	ĸXXXXX	(XXXXXXXX)	-121.3	-15.86	(XXXXX)	XXXXX	XXXXXX	
207N 174 FR	North White River Valley		(XXXXXXX)	KXXXXX	(XXXXXXXX)			-121.3		XXXXXX Inter-basi	
207N 174 FR Warm ET	North White River Valley Inflow (Jakes) Total Recharge Discharge Warm Sprs (Avg) ET	28,800 27,500 <mark>8,900</mark> 20,500		ĸĸxxxx	(XXXXXXXX)	-121.3 -113.4	-15.86 -15.16	-121.3 -117.5	-15.86 -15.52	Inter-basi	
207N 174 TR Warm ET 207S	North White River Valley Inflow (Jakes) Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (SWRV)	28,800 27,500 8,900 20,500 35,800	14			-121.3 -113.4 -122.6	-15.86 -15.16 -15.92	-121.3 -117.5 -117.5	-15.86 -15.52 -15.52	Inter-basi	n flor
207N 174 TR Warm ET 207S	North White River Valley Inflow (Jakes) Total Recharge Discharge Warm Sprs (Avg) ET	28,800 27,500 8,900 20,500 35,800	14			-121.3 -113.4 -122.6	-15.86 -15.16 -15.92	-121.3 -117.5 -117.5	-15.86 -15.52 -15.52	Inter-basi	n flor
207N 174 TR Warm ET 207S XXXXXXXX	North White River Valley Inflow (Jakes) Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (SWRV)	28,800 27,500 8,900 20,500 35,800 XXXXXXXX X WRV Tot Rec	14 (XXXXXXX)			-121.3 -113.4 -122.6	-15.86 -15.16 -15.92	-121.3 -117.5 -117.5	-15.86 -15.52 -15.52	Inter-basi	n flor
207N 174 TR Warm ET 207S XXXXXXXX 207S	North White River Valley Inflow (Jakes) Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (SWRV)	28,800 27,500 8,900 20,500 35,800 XXXXXXXX X	14 (XXXXXXX)			-121.3 -113.4 -122.6	-15.86 -15.16 -15.92	-121.3 -117.5 -117.5	-15.86 -15.52 -15.52	Inter-basi	n flo
207N 174 TR Warm ET 207S XXXXXXXX 207S 207N 180	North White River Valley Inflow (Jakes) Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (SWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 27,500 8,900 20,500 35,800 XXXXXXXX X WRV Tot Rec 41,000 35,800 4,000	14 (XXXXXXX)			-121.3 -113.4 -122.6 XXXXXXX . -117.5 -106.5	-15.86 -15.16 -15.92 XXXXXXX J -15.52 -14.28	-121.3 -117.5 -117.5	-15.86 -15.52 -15.52	Inter-basi	n flo
207N 174 TR Warm ET 207S XXXXXXXX 207S 207N 180 TR	North White River Valley Inflow (Jakes) Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (SWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 27,500 8,900 20,500 35,800 XXXXXXXXX WRV Tot Ret 41,000 35,800 4,000 13,500	14 XXXXXXXX charge			-121.3 -113.4 -122.6 XXXXXXX . -117.5 -106.5 -106.7	-15.86 -15.16 -15.92 XXXXXX J -15.52 -14.28 -14.18	-121.3 -117.5 -117.5 (XXXXXX)	-15.86 -15.52 -15.52 (XXXXX	Inter-basi XXXXXX	n flo
207N 174 TR Warm ET 207S XXXXXXXX 207S 207N 180 TR Warm ET	North White River Valley Inflow (Jakes) Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (SWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 27,500 8,900 20,500 35,800 XXXXXXXXX WRV Tot Rec 41,000 35,800 4,000 13,500 46,900	14 (XXXXXXX)			-121.3 -113.4 -122.6 XXXXXXX . -117.5 -106.5	-15.86 -15.16 -15.92 XXXXXXX J -15.52 -14.28	-121.3 -117.5 -117.5 (XXXXXX) -117.5 -113.9	-15.86 -15.52 -15.52 (XXXXX -15.52 -15.52 -15.09	Inter-basi	n flo
207N 174 TR Warm ET 207S XXXXXXXX 207S 207N 180 TR Warm ET	North White River Valley Inflow (Jakes) Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (SWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 27,500 8,900 20,500 35,800 XXXXXXXXX WRV Tot Ret 41,000 35,800 4,000 13,500 13,200	14 XXXXXXXX charge			-121.3 -113.4 -122.6 XXXXXXX . -117.5 -106.5 -106.7	-15.86 -15.16 -15.92 XXXXXX J -15.52 -14.28 -14.18	-121.3 -117.5 -117.5 (XXXXXX)	-15.86 -15.52 -15.52 (XXXXX -15.52	Inter-basi XXXXXX	'n flot
207N 174 TR Warm ET 207S	North White River Valley Inflow (Jakes) Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (SWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 27,500 8,900 20,500 35,800 XXXXXXXX X WRV Tot Ret 41,000 35,800 4,000 13,500 13,200 46,900 6,400	14 (XXXXXXX) charge 13	***XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	-121.3 -113.4 -122.6 XXXXXXX -117.5 -106.5 -106.5 -106.7 -119.2	-15.86 -15.16 -15.92 XXXXXX J -15.52 -14.28 -14.18 -15.71	-121.3 -117.5 -117.5 (XXXXXX) -117.5 -117.5 -113.9 -113.9	-15.86 -15.52 -15.52 (XXXXX (XXXXX -15.52 -15.09 -15.09	Inter-basi XXXXXX Inter-basi	'n flot
207N 174 TR Warm ET 207S XXXXXXXX 207S 207N 180 TR Warm ET 208	North White River Valley Inflow (Jakes) Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (SWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 27,500 8,900 20,500 35,800 XXXXXXXX X WRV Tot Ret 41,000 35,800 4,000 13,500 13,200 46,900 6,400	14 (XXXXXXX) charge 13	***XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	-121.3 -113.4 -122.6 XXXXXXX -117.5 -106.5 -106.5 -106.7 -119.2	-15.86 -15.16 -15.92 XXXXXX J -15.52 -14.28 -14.18 -15.71	-121.3 -117.5 -117.5 (XXXXXX) -117.5 -117.5 -113.9 -113.9	-15.86 -15.52 -15.52 (XXXXX (XXXXX -15.52 -15.09 -15.09	Inter-basi XXXXXX Inter-basi	'n flot
207N 174 TR Warm ET 207S 207S 207N 180 TR Warm ET 208 XXXXXXXXX 172	North White River Valley Inflow (Jakes) Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (SWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 27,500 8,900 20,500 35,800 XXXXXXXX X WRV Tot Ret 41,000 35,800 4,000 13,500 13,200 46,900 6,400 XXXXXXXX X	14 (XXXXXXX) charge 13	***XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	-121.3 -113.4 -122.6 XXXXXXX . -117.5 -106.5 -106.7 -119.2 XXXXXX .	-15.86 -15.16 -15.92 -15.52 -14.28 -14.18 -15.71	-121.3 -117.5 -117.5 (XXXXXX) -117.5 -117.5 -113.9 -113.9	-15.86 -15.52 -15.52 (XXXXX (XXXXX -15.52 -15.09 -15.09	Inter-basi XXXXXX Inter-basi	n flo
207N 174 FR Warm ET 207S 207S 207S 207N 180 FR Warm ET 208 XXXXXXXX 172 0 FR	North White River Valley Inflow (Jakes) Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (SWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 27,500 8,900 20,500 35,800 XXXXXXXX X WRV Tot Ret 41,000 35,800 4,000 13,500 13,200 46,900 6,400	14 (XXXXXXX) charge 13	***XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	-121.3 -113.4 -122.6 XXXXXXX -117.5 -106.5 -106.5 -106.7 -119.2	-15.86 -15.16 -15.92 XXXXXX J -15.52 -14.28 -14.18 -15.71	-121.3 -117.5 -117.5 (XXXXXX) -117.5 -117.5 -113.9 -113.9	-15.86 -15.52 -15.52 (XXXXX (XXXXX -15.52 -15.09 -15.09	Inter-basi XXXXXX Inter-basi	n flo
207N 174 TR Warm ET 207S 207S 207S 207N 180 TR Warm ET 208 XXXXXXXXX 172 0 TR ET	North White River Valley Inflow (Jakes) Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (SWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 27,500 8,900 20,500 35,800 XXXXXXXX X WRV Tot Rec 41,000 35,800 4,000 13,500 13,200 46,900 5,400 XXXXXXXX X 0 0 24,800 1,700	14 (XXXXXXX) charge 13	***XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	-121.3 -113.4 -122.6 XXXXXXX -117.5 -106.5 -106.7 -119.2 XXXXXX	-15.86 -15.16 -15.92 XXXXXXX 3 -15.52 -14.18 -14.18 -15.71 XXXXXX 3 0.00	-121.3 -117.5 -117.5 (XXXXX) -117.5 -113.9 -113.9 (XXXXX) -113.9	-15.86 -15.52 -15.52 (XXXXX -15.52 -15.09 -15.09 (XXXXX -14.08	Inter-basi XXXXXX Inter-basi	n flo
207N 174 TR Warm ET 207S 207S 207N 180 TR Warm ET 208 XXXXXXXXX 172 0 TR ET 207 171	North White River Valley Inflow (Jakes) Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (SWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 27,500 8,900 35,800 XXXXXXXX X WRV Tot Rec 41,000 13,500 13,500 46,900 6,400 XXXXXXXX X 0 24,800 1,700 23,100	14 (XXXXXXX) charge 13 (XXXXXXX)	******	(XXXXXXXXX) (XXXXXXXXX)	-121.3 -113.4 -122.6 XXXXXXX -117.5 -106.5 -106.7 -119.2 XXXXXXX 0.0 -104.7	-15.86 -15.16 -15.92 XXXXXX D -15.52 -14.28 -14.18 -15.71 XXXXXX D 0.00 -14.08	-121.3 -117.5 -117.5 (XXXXX) -117.5 -113.9 -113.9 (XXXXX) -104.7 -104.7	-15.86 -15.52 -15.52 (XXXXX -15.52 -15.09 -15.09 (XXXXX -14.08 -14.08	Inter-basi XXXXXX Inter-basi	in flot
207N 174 TR Warm ET 207S 207S 207S 207N 180 TR Warm ET 208 XXXXXXXXX 172 0 TR ET 171	North White River Valley Inflow (Jakes) Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (SWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 27,500 8,900 35,800 XXXXXXXX X WRV Tot Rec 41,000 13,500 13,500 46,900 6,400 XXXXXXXX X 0 24,800 1,700 23,100	14 (XXXXXXX) charge 13 (XXXXXXX)	******	(XXXXXXXXX) (XXXXXXXXX)	-121.3 -113.4 -122.6 XXXXXXX -117.5 -106.5 -106.7 -119.2 XXXXXXX 0.0 -104.7	-15.86 -15.16 -15.92 XXXXXX D -15.52 -14.28 -14.18 -15.71 XXXXXX D 0.00 -14.08	-121.3 -117.5 -117.5 (XXXXX) -117.5 -113.9 -113.9 (XXXXX) -104.7 -104.7	-15.86 -15.52 -15.52 (XXXXX -15.52 -15.09 -15.09 (XXXXX -14.08 -14.08	Inter-basi XXXXXX Inter-basi	in flot
207N 174 TR Warm ET 207S 207S 207N 180 TR Warm ET 208 XXXXXXXXX 172 0 TR ET 207 171	North White River Valley Inflow (Jakes) Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (SWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 27,500 8,900 35,800 XXXXXXXX X WRV Tot Rec 41,000 13,500 13,500 46,900 6,400 XXXXXXXX X 0 24,800 1,700 23,100	14 (XXXXXXX) charge 13 (XXXXXXX)	******	(XXXXXXXXX) (XXXXXXXXX)	-121.3 -113.4 -122.6 XXXXXXX -117.5 -106.5 -106.7 -119.2 XXXXXXX 0.0 -104.7	-15.86 -15.16 -15.92 XXXXXX D -15.52 -14.28 -14.18 -15.71 XXXXXX D 0.00 -14.08	-121.3 -117.5 -117.5 (XXXXX) -117.5 -113.9 -113.9 (XXXXX) -104.7 -104.7	-15.86 -15.52 -15.52 (XXXXX -15.52 -15.09 -15.09 (XXXXX -14.08 -14.08	Inter-basi XXXXXX Inter-basi	in flot
07N 74 R farm T 07S XXXXXXXX 07S 07N 80 R farm T 08 XXXXXXXXX 72 R T 71 XXXXXXXX	North White River Valley Inflow (Jakes) Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (SWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 27,500 8,900 35,800 XXXXXXXX X WRV Tot Rec 41,000 13,500 13,500 46,900 6,400 XXXXXXXX X 0 24,800 1,700 23,100	14 (XXXXXXX) charge 13 (XXXXXXX)	******	(XXXXXXXXX) (XXXXXXXXX)	-121.3 -113.4 -122.6 XXXXXXX -117.5 -106.5 -106.7 -119.2 XXXXXXX 0.0 -104.7	-15.86 -15.16 -15.92 XXXXXX D -15.52 -14.28 -14.18 -15.71 XXXXXX D 0.00 -14.08	-121.3 -117.5 -117.5 (XXXXX) -117.5 -113.9 -113.9 (XXXXX) -104.7 -104.7	-15.86 -15.52 -15.52 (XXXXX -15.52 -15.09 -15.09 (XXXXX -14.08 -14.08	Inter-basi XXXXXX Inter-basi	in flot

172 TR Carb Well ET 208	Inflow (SWRV) Total Recharge USGS-MX C.V. Well (CV-DT-1) ET GW Outflow (Pahroc)	0 3,900 0 27,000	2	176	Well	-113.9 -98.4 -109.0	-15.09 -12.95 -14.56	-104.7 -103.8 -103.8	-14.08 -13.91 -13.91	Underflow f	om Garden Valley
XXXXXXXX	*****	XXXXXXXXXXX	xxxxxx	(XXXXX)		XXXXXX	XXXXXX	XXXXXX X	XXXXXX	XXXXXX	
208	Pahroc Valley										
207S	Inflow (S. White River)	6,400				-113.9	-15.09				
170 171	Inflow (Cave)	9,400				-106.5 -103.8	-14.28 -13.91				
TR	Inflow (Coal) Total Recharge	27,000 4,500				-103.8	-12.75				
ET	ET	0						-105.0	-14.04		
209	GW Outflow (Pahranagat)	45,300						-105.0	-14.04		
181	GW Outflow (Dry Lake)	2,000						-106.5	-14.28		
XXXXXXXX	*****	XXXXXXXX XX	xxxxxx	(XXXXX)	«XXXXXXXXX	xxxxxx	cxxxxx	xxxxx x	xxxxx	XXXXXX	
209	Pahranagat Valley										
208	Inflow (Pahroc)	45,300				-105.0	-14.04				
181	Inflow (Dry Lake)	0				-98.9	-13.12				
209	Inflow (Delamar)	0				-97.3	-12.92				
TR Warm	Total Recharge Discharge Warm Springs (Avg)	5,500 25,400	31			-97.6 -108.9	-13.91 -14.26	-105.0	-14 04	Intor-basin f	low from Pahroc Valley
ET	ET	28,500	51			-100.5	-14.20	-104.2	-14.02		iow nonin annoc vaney
Well	209M-1	-,	1	608	Deep Well	-104.7	-13.53	-105.0			low from Pahroc Valley
210	GW Outflow (Coyote Spr)	22,300						-104.2	-14.02		
xxxxxxx	*****	xxxxxx xx	xxxxxx	(XXXXX)	KXXXXXXXX).	XXXXXX	XXXXXX	XXXXXX X	xxxxx	XXXXXX	
181	Dry Lake Valley										
208	Inflow (Pahroc)	2,000				-106.5	-14.28				
TR	Total Recharge	15,700				-98.0	-12.97				
Carb Well Carb Well	Fugro Dry Lake V Deep Well 181M1		2 1	179 603	Well Deep Well	-107.5 -105.0	-14.16 -13.67	-106.5 -106.5			low from Cave Valley low from Cave Valley
Carb Well	181W909M		1	604	Deep Well	-103.6	-13.50	-106.5			low from Cave Valley
ET	ET	0			•			-98.9	-13.12		· ·
209	GW Outflow (Pahranagat)	0						-98.9	-13.12		
182	GW Outflow (Delamar)	17,700						-98.9	-13.12		
XXXXXXXX	*****	XXXXXXXXXXX	xxxxxx	(XXXXX)	KXXXXXXXX)	XXXXXX	XXXXXX	XXXXXX X	xxxxx	XXXXXX	
182	Delamar Valley										
181	Inflow (Dry Lake)	17,700				-98.9	-13.12				
TR	Total Recharge	6,400				-92.8	-12.39	<u> </u>	40.00		
ET Well	ET 182W906M	0	1	607	Doon Woll	-100.3	-13.33	-97.3 -98.9	-12.92		low from Dry Lake Valley
209	GW Outflow (Pahranagat)	0	•	007	Deep Well	-100.5	-13.55	-90.9	-12.92		low nom bry Lake valley
210	GW Outflow (Coyote Spr)	24,100						-97.3	-12.92		
xxxxxxx	*****	XXXXXXXXXXX	xxxxxx	(XXXXX)	×XXXXXXXX).	XXXXXX	xxxxx	xxxxx x	xxxxx	xxxxxx	
206	Kane Springs Valley										
0	Inflow (None)	0				0.0	0.00				
TR	Total Recharge	4,200				-88.9	-12.20				
ET 210	ET GW Outflow (Coyote Spr)	0						-88.9	-12.20		
		4,200						-88.9	-12.20		
XXXXXXXX	*****	XXXXXXXXXXXX	XXXXXX	(XXXXX)	KXXXXXXXX)	XXXXXX	XXXXXX	XXXXXX X	XXXXX	XXXXXX	
210	Coyote Springs Valley										
209	Inflow (Pahranagat)	22,300				-104.2	-14.02				
182	Inflow (Delamar)	24,100				-97.3	-12.92				
206	Inflow (Kane Springs)	4,200				-88.9	-12.20				

TR CARB ET 219 217 XXXXXXXX 219 205 210 TR Warm CARB ET Gage 218 218	Total Recharge Carbonate Well (Avg) ET GW Outflow (Muddy) GW Outflow (Hidden) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	4,000 37,700 0 8,300 6,000 34,000 34,000 1,700	-90.9 6 -100.7 ***********************************	-12.59 -13.32 -11.92 -12.90 -12.97	-98.7 -98.7 -98.73 -98.7	-13.25 Flow weighted average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys -13.25 Flow weighted average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys -13.25 -13.25
XXXXXXXX 217 210 TR ET 216 XXXXXXXXX 216	Hidden Valley Inflow (Coyote) Total Recharge ET GW Outflow (Garnet) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	15,000 0 0 15,000	-99.3 -81.0	-13.32 -10.60	-99.3 -99.3	-13.32 -13.32
217 TR CARB ET 218	Inflow (Hidden) Total Recharge Wells (Avg) ET GW Outflow (California)	15,000 100 0 15,100 XXXXXXXXXXX	-99.3 -81.0 6 -96.9	-13.32 -10.60 -13.32	-99.3 -99.2 -99.2 XXXXX X	-13.32 Inter-basin flow from Hidden Valley -13.30 -13.30 XXXXX XXXXXX
218 205 219 205 216 TR CARB ET 220 215 220	California Wash SW Inflow (Muddy) SW Inflow (LMVW) Inflow (Muddy) Inflow (Lower Meadow VW) Inflow (Carnet) Total Recharge Carbonate Well (Avg) ET GW Outflow (Lower Moapa) GW Outflow (Black Mtn Area) SW Outflow (Lower Moapa)	34,000 0 1,700 5,300 15,100 0 4,500 18,900 2,000 30,700	-98.7 -93.5 -99.2 0.0 -99.0	-13.25 -12.59 -13.30 0.00 -13.45		-13.12 Weighted Average of Infterbasin flow from Garnet and Upper Moapa Valleys -13.12 -13.12 -13.12 -13.12
215 218 TR CARB ET 999	Black Mountains Area Inflow (California Wash) Total Recharge Carbonate Spr (Avg) ET GW Outflow (Colorado River)	2,000 0 1,663 1,400 600	0.0	-13.12 0.00 -12.01	-97.8 -97.8 -97.8	-13.12 Weighted Average of Inflow from Califronia Wash -13.12 -13.12
220 218 218	Lower Moapa Valley GW Inflow (California Wash) SW Inflow (California Wash)	18,900 30,700	-97.8	-13.12		

TR CARB ET 999 999	Total Recharge Carbonate Well (Avg) ET GW Outflow (Colorado River) SW Outflow (Colorado River)	0 25,300 15,300 9,000	2	-88.3 -91.0	-12.50 -12.58	-93.5 -97.8 -97.8	-12.59 -13.12 -13.12		w from Lowe	r Meadow Va	alley Wash
XXXXXXXX	****	XXXXXXXXXX	«XXXXXXX	XXXXXXXXXXX	XXXXX	(XXXXX)	xxxxx	XXXXXX			
Colorado R	Lake Mead (Colorado River)							700000			
210 205 999	GW Inflow (Black Mountains Area) GW Inflow (Lower Moapa) Groundwater Total	600 15,300 15,900		-97.8 -97.8	-13.12 -13.12	-97.8	-13.12				
205 999	SW Inflow (Lower Moapa) Surface water Total	9,000 9,000									
999	Inflow Total	24,900									
xxxxxxx	****	XXXXXXXX X	****		XXXXXD	(XXXXX)	xxxxx	XXXXXX			
183	Lake Valley										
0 TR	Inflow (None) Total Recharge	0 12,300		0.0 -105.5	0.00 -14.08						
ET	ET	6,700				-105.5 -105.5	-14.08				
202	GW Outflow (Patterson)	5,600					-14.08				
XXXXXXXX	****	XXXXXXXXXX	<pre>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</pre>	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXX	(XXXXX)	XXXXX	XXXXXX			
202	Patterson Valley										
183 TR	Inflow (Lake) Total Recharge	5,600 10,600		-105.5 -98.3	-14.08 -13.03						
ET	ET	1,300		00.0	10.00	-100.8	-13.39				
203	GW Outflow (Panaca)	14,900				-100.8	-13.39				
XXXXXXXX	*****	XXXXXXXXXX	<pre>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</pre>	XXXXXXXXXX X	XXXXX	XXXXX X	XXXXX	XXXXXX			
201	Spring Valley										
0	Inflow (None)	0		0.0	0.00						
TR ET	Total Recharge ET	11,200 3,900		-99.4	-13.28	-99.4	-13.28				
200	GW Outflow (Eagle)	7,300				-99.4	-13.28				
200	SW Outflow (Eagle)	0				-97.5	-13.00				
XXXXXXXX	*****	XXXXXXXXX	<pre>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</pre>		XXXXX	(XXXXX X	xxxxx	XXXXXX			
200	Eagle Valley										
201	Inflow (Spring)	7,300		-99.4	-13.28						
201 TR	SW Inflow (Spring) Total Recharge	0 2,000		-97.5 -98.7	-13.00 -13.15						
ET	ET	1,000		-30.1	-13.15	-99.3	-13.25				
199	GW Outflow (Rose)	8,300				-99.3	-13.25				
198	SW Outflow (Rose)	0				-99.3	-13.25				
XXXXXXXX	*****	XXXXXXXXXX	<	XXXXXXXXXXX	XXXXX	(XXXXX X	XXXXX	XXXXXX			
199	Rose Valley										
200	Inflow (Eagle)	8,300		-99.3	-13.25						
200 TR	SW Inflow (Eagle) Total Recharge	0 200		-99.3 -98.4	-13.25 -13.08						
ET	ET	600		-50.4		-99.2	-13.24				
198	GW Outflow (Dry)	7,900				-99.2	-13.24				
198	SW Outflow (Dry)	0				-99.3	-13.25				
XXXXXXXX	*****	XXXXXXXXXX	KXXXXXXXKXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXX	(XXXXX)	XXXXX	XXXXXX			

198	Dry Valley											
199	Inflow (Rose)	7,900				-99.2	-13.24					
199	SW Inflow (Rose)	0				-99.3	-13.25					
TR	Total Recharge	3,200				-96.9	-12.96					
ET	ET	3,700						-98.6	-13.16			
203	GW Outflow (Panaca)	7,400						-98.6	-13.16			
203	SW Outflow (Panaca)	0						-99.2	-13.24			
xxxxxxx	*****	XXXXXXXXXX	xxxxxx	xxxxxx	xxxxxxx		XXXXX	xxxxxx	xxxxx	xxxxxx		
204	Clover Valley											
0	Inflow (None)	0				0.0	0.00					
TR	Total Recharge	14,900				-92.1	-12.46					
ET	ET	5,200				-52.1	-12.40	-92.1	-12.46			
205	GW Outflow (LMVW)	9,700						-92.1	-12.46			
205	SW Outflow (LMVW)	9,700						-92.1	-12.46			
205	SW Outlow (EWVW)	v						-52.1	-12.40			
XXXXXXXX	*****	XXXXXXXXXX	XXXXXX	XKXXXXX	XXXXXXXX	XXXXXX	(XXXXX)	XXXXXX	XXXXXX	XXXXXX		
203	Panaca Valley											
202	Inflow (Patterson)	14,900				-100.8	-13.39					
198	Inflow (Dry)	7,400				-98.6	-13.16					
198	SW Inflow (Dry)	0				-99.2	-13.24					
TR	Total Recharge	5,500				-95.8	-12.78					
Warm	Bennett Spring	20	1	141	Spring	-103.0	-13.70	-100.8	-13.39 /	nter-basi	n flo	w from Patterson Valley
Warm	Caliente Hot Springs (Hotel)	0	8	129	Spring	-107.9	-14.44	-105.5				w from Lake Valley
Warm	Panaca Spring	7700	13	144	Spring	-106.9	-14.14	-105.5				w from Lake Valley
ET	ET	18,900			oping			-99.2	-13.21			
205	GW Outflow (LMVW)	8,900						-99.2	-13.21			
205	SW Outflow (LMVW)	0						-97.0	-13.10			
xxxxxxx	****	xxxxxxxxx	xxxxxx	*****	xxxxxxx		(XXXXXX)	XXXXXX X	xxxxx	xxxxxx		
205	Lower Meadow Valley Wash											
203	Inflow (Panaca)	8,900				-99.2	-13.21					
204	Inflow (Clover)	9,700				-92.1	-12.46					
203	SW Inflow (Panaca)	0				-97.0	-13.10					
204	SW Inflow (Clover)	0				-92.1	-12.46					
TR	Total Recharge	12,600				-90.4	-12.24					
Warm	Kershaw-Ryan Spring #1		1	250	Spring	-95.1	-13.11	-95.5	-12.82 V	Weighted	Ave	rage of Infterbasin flow from Garnet and Upper Moapa Valleys
Warm	EH-6 Weiser Wash		1	59	Well	-99.5	-13.90					
	EH-8 Weiser Wash		1	57	Well	-96.5	-13.70					
Warm	Railroad Well (Farrier, NV)		1	80	Well	-97.5	-12.50					
Alluvial Well		21,900						-93.5	-12.59			
Alluvial Well ET	ET							-93.5	-12.59			
Alluvial Well ET 206	ET GW Outflow (Upper Moapa)	4,000										
Alluvial Well ET 206 218	ET GW Outflow (Upper Moapa) GW Outflow (California Wash)	4,000 5,300						-93.5	-12.59			
Alluvial Well ET 206	ET GW Outflow (Upper Moapa)	4,000										

SNWA (2007 Water Budget) SNWA (2007 Water Budget) on Name Volume # of Site# Site Obs. Obs. Calc. Calc. IC Arce-ft/yr Samples Type &D &180 &D &180 XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Arce-ft/yr Samples Type SD 5180 SD 5180 XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Long Valley Inflow (None) 0 0.0 0.00 Total Recharge 19,900 -122.4 -15.96
Inflow (None) 0 0.0 0.00 Total Recharge 19,900 -122.4 -15.96
Total Recharge 19,900 -122.4 -15.96
GW Outflow (Newark) 0 -122.4 -15.96
GW Outflow (Jakes) 16,900 -122.4 -15.96
XXXX XXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXX
Jakes Valley
Inflow (Long) 16,900 -122.4 -15.96
Total Recharge 12,300 -119.9 -15.71
ET 400 -119.9 -15.71 GW Outflow (NWRV) 28,800 -121.3 -15.86
xxxx xxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Cave Valley
Inflow (None) 0 0.0 0.00
Total Recharge 14,700 -106.5 -14.28 ET 1,300 -106.5 -14.28
180W902 1 601 Deep Well -104.7 -14.12 -106.5 -14.28 Local rec
180W501 1 600 Deep Well -105.6 -14.12 -106.5 -14.28 Local rect
GW Outflow (Pahroc) 9,400 -106.5 -14.28 GW Outflow (SWRV) 4,000 -106.5 -14.28

North White River Valley
Inflow (Jakes) 28,800 -121.3 -15.86
Total Recharge 27,500 -113.4 -15.16
Discharge Warm Sprs (Avg) 8,900 14 -122.6 -15.92 -121.3 -15.86 Inter-basi ET 20,500 -113.4 -15.16
GW Outflow (SWRV) 35,800 -119.8 -15.7
xxxx xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
South White River Valley WRV Tot Recharge
41,000
Inflow (N White River) 35,800 -119.8 -15.72 Inflow (Cave) 4,000 -106.5 -14.28
Total Recharge 13,500 -106.7 -14.18
Discharge Warm Sprs (Avg) 13.200 13 -119.2 -15.71 -119.8 -15.72 Inter-basi ET 46,900 -115.1 -15.18
GW Outflow (Pahroc) 6,400 -118.5 -15.58
xxxx xxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Garden Valley
Inflow (None) 0 0.0 0.00
Total Recharge 24,800 -104.7 -14.08
ET 1,700 -104.7 -14.08 GW Outflow (Coal) 23,100 -104.7 -14.08
CHI GUILION (COUL) 23,100 -104.0 -104.0 XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Coal Valley

172 TR Carb Well ET 208	Inflow (SWRV) Total Recharge USGS-MX C.V. Well (CV-DT-1) ET GW Outflow (Pahroc)	0 3,900 0 27,000	2	176	Well	-118.5 -98.4 -109.0	-15.58 -12.95 -14.56	-104.7 -98.4 -103.8	-12.95 -13.91		w from Garden Valley
208	Pahroc Valley	XXXXXXXXXXXX	(XXXXX)	(KXXXX)		XXXXXX D	(XXXXX)	KXXXXX I	XXXXXX	XXXXXX	
200	Fairioc valley										
207S	Inflow (S. White River)	6,400				-118.5	-15.58				
170	Inflow (Cave)	9,400				-106.5	-14.28				
171 TR	Inflow (Coal) Total Recharge	27,000 4,500				-103.8 -96.4	-13.91 -12.75				
ET	ET	4,500				-30.4	-12.75	-96.4	-12.75		
209	GW Outflow (Pahranagat)	45,300						-105.6	-14.10		
181	GW Outflow (Dry Lake)	2,000						-106.5	-14.28		
xxxxxxxx	*****	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~	~~~~~	~~~~~~	~~~~	~~~~~	~~~~~	~~~~~	~~~~	
*****		XXXXXXXXXXXXX	~~~~~	~~~~/	(~~~~~~~	~~~~~	~~~~~./	~~~~~	~~~~~	*****	
209	Pahranagat Valley										
208	Inflow (Pahroc)	45,300				-105.6	-14.10				
181	Inflow (Dry Lake)	0				-98.9	-13.12				
209	Inflow (Delamar)	0				-97.3	-12.92				
TR	Total Recharge	5,500				-97.6	-13.91				
Warm	Discharge Warm Springs (Avg)	25,400	31			-108.9	-14.26	-105.6		Inter-basi	i <mark>n flow</mark> from Pahroc Valley
ET Well	ET 209M-1	28,500	4	609	Deep Well	104 7	-13.53	-104.1 -105.6	-14.07	Inter back	in flow from Pahroc Valley
210	GW Outflow (Coyote Spr)	22,300	1	608	Deep wen	-104.7	-13.55	-105.6	-14.10	IIIter-Dasi	n now nom Famoc valley
2.10		22,000						100.0	14.10		
XXXXXXXX	****	XXXXXXXXXXXX	(XXXXX)	(KXXXX)	(XXXXXXXX)	XXXXXX D	(XXXXX)	XXXXXX I	XXXXXX	XXXXXX	
181	Dry Lake Valley										
208	Inflow (Pahroc)	2,000				-106.5	-14.28				
TR	Total Recharge	15,700				-98.0	-12.97				
Carb Well	Fugro Dry Lake V Deep Well		2	179	Well	-107.5	-14.16	-106.5			in flow from Cave Valley
Carb Well	181M1		1	603	Deep Well	-105.0	-13.67	-106.5			in flow from Cave Valley
Carb Well ET	181W909M ET	0	1	604	Deep Well	-104.6	-13.50	-106.5 -98.0	-14.28 -12.97	inter-basi	in flow from Cave Valley
209	GW Outflow (Pahranagat)	0						-98.9	-13.12		
182	GW Outflow (Delamar)	17,700						-98.9	-13.12		
XXXXXXXX	*****	XXXXXXXXXXXX	(XXXXX)	(KXXXX)	(XXXXXXXXX))	XXXXXX	(XXXXX)	XXXXXX I	XXXXXX	XXXXXX	
182	Delamar Valley										
181	Inflow (Dry Lake)	17,700				-98.9	-13.12				
TR	Total Recharge	6,400				-92.8	-12.39				
ET	ET	0			_			-92.8	-12.39		
Well	182W906M	•	1	607	Deep Well	-100.3	-13.33	-98.9		Inter-basi	i <mark>n flow</mark> from Dry Lake Valley
209 210	GW Outflow (Pahranagat) GW Outflow (Coyote Spr)	0 24,100						-97.3 -97.3	-12.92 -12.92		
210											
XXXXXXXX	*****	XXXXXXXXXXXX	(XXXXX)	(KXXXX)	(XXXXXXXX))	XXXXXX)	(XXXXX)	XXXXXX I	XXXXXX	XXXXXX	
206	Kane Springs Valley										
0	Inflow (None)	0				0.0	0.00				
TR	Total Recharge	4,200				-88.9	-12.20				
ET	ET	0						-88.9	-12.20		
210	GW Outflow (Coyote Spr)	4,200						-88.9	-12.20		
XXXXXXXX	*****	XXXXXXXXXXX	(XXXXX)	(KXXXX)	(XXXXXXXX)	XXXXXX	(XXXXX)	XXXXXX	XXXXXX	XXXXXX	
210	Coyote Springs Valley										
209	Inflow (Pahranagat)	22,300				-105.6	-14.10				
182	Inflow (Delamar)	24,100				-97.3	-12.92				
206	Inflow (Kane Springs)	4,200				-88.9	-12.20				

219	Upper Moapa (Muddy) Valley		-90.9 6 -100.7		-100.3 -90.9 -99.9 -99.9 (XXXXXX)	-13.38 Flow weighted average of inter-basin flow from Pahranagat, Kane Springs, and Delamar Valleys -12.53 -13.35 -13.35 KXXXXX XXXXXX
205 210 TR Warm CARB ET Gage 218 218	Inflow (LMVW) Inflow (Coyote) Total Recharge Dicharge Warm Sprs (Avg) Deep Carbonate Well (Avg) ET Moapa Gage SW Outflow (California) GW Outflow (California)	4,000 37,700 0 8,300 Input into N 6,000 34,000 34,000 1,700	-96.1 -99.9 -87.4 49 -97.8 4 -97.9	-12.90 -13.35 -11.92 -12.90 -12.97	-99.5 -99.5 -99.5 -99.5	-13.31 Flow weighted average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys -13.31 Flow weighted average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys -13.31
217 210 TR ET 216 XXXXXXXX	Hidden Valley Inflow (Coyote) Total Recharge ET GW Outflow (Garnet) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	15,000 0 15,000 XXXXXXXX X	-99.9 -81.0 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	-13.35 -10.60 (XXXXXX X	-81.0 -99.9 XXXXXX)	-10.60 -13.35 XXXXXX XXXXXX
216 217 TR CARB ET 218 XXXXXXXX	Garnet Valley Inflow (Hidden) Total Recharge Wells (Avg) ET GW Outflow (California)	15,000 100 0 15,100 XXXXXXX X	-99.9 -81.0 6 -96.9	-13.35 -10.60 -13.32	- 99.9 -81.0 -99.8 (XXXXX)	-13.35 Inter-basin flow from Hidden Valley -10.60 -13.33
218 219 205 219 205 216 TR CARB ET 220 215 220	California Wash SW Inflow (Muddy) SW Inflow (LMVW) Inflow (Muddy) Inflow (Lower Meadow VW) Inflow (Garnet) Total Recharge Carbonate Well (Avg) ET GW Outflow (Lower Moapa) GW Outflow (Black Mtn Area) SW Outflow (Lower Moapa)	34,000 0 1,700 5,300 15,100 0 4,500 18,900 2,000 30,700	-99.5 -96.1 -99.8 -82.0 -99.0	-13.31 -12.90 -13.33 -10.6 -13.45	-98.9 -82.0 -98.9 -98.9	-13.22 Weighted Average of Infterbasin flow from Garnet and Upper Moapa Valleys -10.60 -13.22 -13.22
215 218 TR CARB ET 999	Black Mountains Area Inflow (California Wash) Total Recharge Carbonate Spr (Avg) ET GW Outflow (Colorado River)	2,000 0 1,700 1,400 600		-13.22 -10.75 -12.01	-98.9 -81.3 -98.9	-13.22 Weighted Average of Inflow from Califronia Wash -10.75 -13.22
220 218 218	Lower Moapa Valley GW Inflow (California Wash) SW Inflow (California Wash)	18,900 30,700		-13.22		

TR CARB ET 999 999	Total Recharge Carbonate Well (Avg) ET GW Outflow (Colorado River) SW Outflow (Colorado River)	0 25,300 15,300 9,000	2	-88.3 -91.0	-12.50 -12.58	- 96.1 -88.3 -98.9	-12.50 -13.22		n flov	v from Lower Meadow V	alley Wash
XXXXXXXX	*****	XXXXXXXXXX	<pre>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</pre>	(XXX)XXXXXXX	XXXXXX	(XXXXX)	XXXXX	XXXXXX			
Colorado R	Lake Mead (Colorado River)										
210	GW Inflow (Black Mountains Area)	600		-98.9	-13.22						
205 999	GW Inflow (Lower Moapa) Groundwater Total	15,300 15,900		-98.9	-13.22	-98.9	-13.22				
555	Groundwater Total	15,900				-90.9	-13.22				
205	SW Inflow (Lower Moapa)	9,000									
999	Surfacewater Total	9,000									
999	Inflow Total	24,900									
XXXXXXXX	****	XXXXXXXXXX	<pre>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</pre>	XXXXXXXXXXXXXX	XXXXXX	(XXXXX)	XXXXX	XXXXXX			
183	Lake Valley										
0	Inflow (None)	0		0.0	0.00						
TR	Total Recharge	12,300		-105.5	-14.08						
ET 202	ET GW Outflow (Patterson)	6,700 5,600				-105.5 -105.5	-14.08 -14.08				
XXXXXXXX	*****	XXXXXXXXXXX	<pre></pre>	XXXXXXXXXXXXXXXX	XXXXXX	(XXXXX)	XXXXX	XXXXXX			
202	Patterson Valley										
183	Inflow (Lake)	5,600		-105.5	-14.08						
TR	Total Recharge	10,600		-98.3	-13.03						
ET 203	ET GW Outflow (Panaca)	1,300 14,900				-98.3 -101.0	-13.03 -13.43				
				~~~~							
*****	*****		****					*****			
201	Spring Valley										
0	Inflow (None)	0		0.0	0.00						
TR	Total Recharge	11,200		-99.4	-13.28						
ET	ET	3,900				-99.4	-13.28				
200 200	GW Outflow (Eagle) SW Outflow (Eagle)	7,300 0				-99.4 -97.5	-13.28 -13.00				
200	off Outlion (Lagie)	Ŭ				-51.5	-13.00				
XXXXXXXX	*****	XXXXXXXXXX	<pre>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</pre>	(XXX)XXXXXX X	XXXXX	(XXXXX X	XXXXX	XXXXXX			
200	Eagle Valley										
201	Inflow (Spring)	7,300		-99.4	-13.28						
201	SW Inflow (Spring)	0		-97.5	-13.00						
TR	Total Recharge	2,000		-98.7	-13.15						
ET	ET	1,000				-98.7	-13.15				
199 198	GW Outflow (Rose) SW Outflow (Rose)	8,300 0				-99.3 -98.7	-13.26 -13.00				
~~~~~	*****	~~~~~~	~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	· <b>vvvv</b> v ·v	~~~~~	~~~~~	~~~~~			
	*****		~~~~~					~~~~~			
199	Rose Valley										
200	Inflow (Eagle)	8,300		-99.3	-13.26						
200	SW Inflow (Eagle)	0		-98.7	-13.00						
TR ET	Total Recharge ET	200 600		-98.4	-13.08	-98.4	-13.08				
198	GW Outflow (Dry)	7,900				-98.4	-13.00				
198	SW Outflow (Dry)	0				-98.4	-13.08				
~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~			~~~~~	~~~~~	VVVVVV			
******	*****		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				XXXXX	******			

198	Dry Valley											
199	Inflow (Rose)	7,900				-99.3	-13.25					
199	SW Inflow (Rose)	0				-98.4	-13.08					
TR	Total Recharge	3,200				-96.9	-12.96					
ET	ET	3,700						-97.2	-13.00			
203	GW Outflow (Panaca)	7,400						-99.3	-13.25			
203	SW Outflow (Panaca)	0						-97.2	-13.00			
xxxxxxx	****	XXXXXXXXXX	xxxxx	XXXXXXX	xxxxxxx		(XXXXX)	xxxxx x	xxxxx	XXXXXX	(	
204	Clover Valley											
0	Inflow (None)	0				0.0	0.00					
-						-92.1	-12.46					
TR ET	Total Recharge ET	14,900 5,200				-92.1	-12.40	-92.1	-12.46			
205	GW Outflow (LMVW)	9,700						-92.1	-12.46			
205	SW Outflow (LMVW)	9,700						-92.1	-12.46			
205	SW Outriow (EWVW)	U						-92.1	-12.40			
XXXXXXXX	*****	XXXXXXXXXXX	XXXXXX	XKXXXXX	XXXXXXXXX	DXXXXXX D	(XXXXX)	XXXXXX X	XXXXX	XXXXXX	(	
203	Panaca Valley											
202	Inflow (Patterson)	14,900				-101.0	-13.43					
198	Inflow (Dry)	7,400				-99.3	-13.25					
198	SW Inflow (Dry)	0				-97.2	-13.00					
TR	Total Recharge	5,500				-95.8	-12.78					
Warm	Bennett Spring	20	1	141	Spring	-103.0	-13.70	-101.0	-13.43	Inter-bas	in flow	v from Patterson Valley
Warm	Caliente Hot Springs (Hotel)	0	8	129	Spring	-107.9	-14.44	-105.5				v from Lake Valley
Warm	Panaca Spring	7700	13	144	Spring	-106.9	-14.14	-105.5				v from Lake Valley
ET	ET	18,900						-99.1	-13.20			
205	GW Outflow (LMVW)	8,900						-100.4	-13.37			
205	SW Outflow (LMVW)	0						-99.1	-13.20			
xxxxxxx	****	XXXXXXXXXX	xxxxx	XXXXXX	xxxxxxx	XXXXXX)	(XXXXX)	xxxxx x	xxxxx	XXXXXX	4	
205	Lower Meadow Valley Wash											
203	Inflow (Panaca)	8,900				-100.4	-13.37					
204	Inflow (Clover)	9,700				-92.1	-12.46					
203	SW Inflow (Panaca)	0				-99.1	-13.20					
204	SW Inflow (Clover)	0				-92.1	-12.46					
TR	Total Recharge	12,600				-90.6	-12.25					
Warm	Kershaw-Ryan Spring #1		1	250	Spring	-95.1	-13.11	-96.1	-12.90	Weighted	d Avera	age of Infterbasin flow from Garnet and Upper Moapa Valley
Warm	EH-6 Weiser Wash		1	59	Well	-99.5	-13.90			•		
Warm	EH-8 Weiser Wash		1	57	Well	-96.5	-13.70					
Alluvial Well	Railroad Well (Farrier, NV)		1	80	Well	-97.5	-12.50					
ET	ET	21,900						-92.9	-12.53			
206	GW Outflow (Upper Moapa)	4,000						-96.1	-12.90			
218	GW Outflow (California Wash)	5,300						-96.1	-12.90			
218	SW Outflow (California Wash)	0						-90.6	-12.25			
XXXXXXX	****	X XXXXXXXX X	XXXXX		XXXXXXXX	D <b>XXXXX</b> CD	XXXXXX	XXXXXX	XXXXXX	XXXXXX		

					/							
gion	Nama	Volume		RCASS Site#	(SNWA, 2007 Site	; Welch aı Obs.	-		Calc.	IC		
egion	Name	Arce-ft/yr	# of Samples		Site Туре	οbs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο			
XXXXXX	*****											
-	Lawa Mallaw											
5	Long Valley											
	Inflow (None)	0				0.0	0.00					
ł	Total Recharge	21,000				-122.4	-15.96					
•	ET	1,200						-122.4				
4	GW Outflow (Newark)	0						-122.4	-15.96			
4	GW Outflow (Jakes)	19,800						-122.4	-15.96			
XXXXXX	*****	XXXXXXXX	xxxxxx	<b>XXXXX</b>	XXXXXXXXXX	XXXXXX	xxxxxx	XXXXXX	xxxxx	xxxxxx		
4	lakes Valley											
4	Jakes Valley											
5	Inflow (Long)	19,800				-122.4	-15.96					
ł	Total Recharge	13,000				-119.9	-15.71					
-	ET	900						-121.4				
7N	GW Outflow (NWRV)	31,900						-121.4	-15.86			
xxxxxx	****	XXXXXXXX	xxxxxx	<b>XXXXX</b>	XXXXXXXXXX	XXXXXXX	XXXXXX	XXXXXX	xxxxx	xxxxxx		
0	Cave Valley											
0	Cave Valley											
	Inflow (None)	0				0.0	0.00					
ł	Total Recharge	15,400				-106.5	-14.28					
•	ET	1,600						-106.5	-14.28			
ell	180W902		1	601	Deep Well	-104.7	-14.12					
ell	180W501		1	600	Deep Well	-105.6	-14.12					
8	GW Outflow (Pahroc)	9,800						-106.5	-14.28			
7S	GW Outflow (SWRV)	4,000						-106.5	-14.28			
XXXXXX	xxxxxxxxxxxxxxxxxxxx	XXXXXXXX	xxxxxx	<b>XXXXX</b>	xxxxxxxx	XXXXXXX	XXXXXX	XXXXXX	xxxxx	XXXXXX		
7N	North White River Valley											
4	Inflow (Jakes)	31,900				-121.4	-15.86					
ł	Total Recharge	28,600				-113.5	-15.16					
arm	Discharge Warm Sprs (Avg)	8,900	14			-122.6	-15.92	-121.4			<mark>n flow</mark> from .	lakes Vall
		29,500						-117.6	-15.53			
7S	GW Outflow (SWRV)	31,000						-117.6	-15.53			
XXXXXX	*****	XXXXXXXX	XXXXXXX	XXXXX	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX		
7S	South White River Valley	WRV Tot Re	charge									
		42,900	J. A. J. A.									
7N	Inflow (N White River)	31,000				-117.6	-15.53					
0	Inflow (Cave)	4,000				-106.5	-14.28					
						-106.7	-14.18					
	Total Recharge	14,300									a fland a familiar	
arm			13			-119.2	-15.71	-117.6	-15.53	Inter-basi	n flow from I	vortnern
arm	Total Recharge Discharge Warm Sprs (Avg) ET	14,300 13,200 47,200	13			-119.2	-15.71	-113.6	-15.04		n now from I	vortnern
arm	Total Recharge Discharge Warm Sprs (Avg)	14,300 13,200	13			-119.2	-15.71		-15.04		n tiow trom i	vortnern
arm	Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (Pahroc)	14,300 13,200 47,200 2,100		×××××	XXXXXXXXXX			-113.6 -113.6	-15.04 -15.04		n now from l	vortnern
arm 8	Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (Pahroc)	14,300 13,200 47,200 2,100		XXXXX	XXXXXXXXX			-113.6 -113.6	-15.04 -15.04		n now trom i	vortnern
arm 8 XXXXXXX	Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (Pahroc) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	14,300 13,200 47,200 2,100 XXXXXXXX		XXXXX	XXXXXXXXXX	XXXXXXX	XXXXXX	-113.6 -113.6	-15.04 -15.04		n now trom i	vortnern
arm 8 XXXXXXX	Total Recharge Discharge Warm Sprs (Avg) ET GW Outflow (Pahroc) XXXXXXXXXXXXXXXXXXXXXXXXXXX	14,300 13,200 47,200 2,100		×××××				-113.6 -113.6	-15.04 -15.04		n now trom i	Nortnern V

	egion	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O	IC		
E 1	T 71	ET GW Outflow (Coal)	1,700 24,000						-104.7 -104.7	-14.08 -14.08			
							~~~~~				~~~~~~		
×	XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		*****	*****		*****	******		*****	*****		
1	71	Coal Valley											
	72	Inflow (Garden)	24,000				-104.7	-14.08					
1 T	72	Inflow (SWRV) Total Recharge	0 4,200				-113.6 - 98.4	-15.04 -12.95					
Ē		ET	4,200				-90.4	-12.95	-103.7	-13.91			
С	arb Well 08	USGS-MX C.V. Well (CV-DT-1) GW Outflow (Pahroc)	28,200	2	176	Well	-109.0	-14.56	-104.7 -103.7		Underflow	v from (Garden Valley
х	xxxxxx	*****	XXXXXXXX	xxxxxxx	xxxxx	XXXXXXXXXX	xxxxxx	XXXXXX	XXXXXX	xxxxx	XXXXXX		
2	08	Pahroc Valley											
2	07S	Inflow (S. White River)	2,100				-113.6	-15.04					
	B0	Inflow (Cave)	9,800				-106.5	-14.28					
	71	Inflow (Coal)	28,200				-103.7	-13.91					
Ţ		Total Recharge	4,900				-96.4	-12.75	4010	40.0-			
E 2	T 09	ET GW Outflow (Pahranagat)	0 43,000						-104.0 -104.0	-13.92 -13.92			
	81	GW Outflow (Dry Lake)	2,000						-104.0	-14.28			
Х	XXXXXXX	*****	XXXXXXXXX	XXXXXXXX	XXXXX	XXXXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX		
2	09	Pahranagat Valley											
2	08	Inflow (Pahroc)	43,000				-104.0	-13.92					
	81	Inflow (Dry Lake)	0				-99.0	-13.12					
	09	Inflow (Delamar)	0				-97.3	-12.93					
T	larm	Total Recharge Discharge Warm Springs (Avg)	5,900 25,400	31			- <mark>97.0</mark> -108.9	-13.67 -14.26	-104.0	-13 92	Inter-basi	n flow t	from Pahroc Valley
E		ET	28,500	0.			100.0	14.20	-103.2	-13.89			
	/ell	209M-1	-,	1	608	Deep Well	-104.7	-13.53	-104.0			n flow f	from Pahroc Valley
2	10	GW Outflow (Coyote Spr)	20,400						-103.2	-13.89			
х	XXXXXXX	*****	XXXXXXXX	xxxxxxx	XXXXX		xxxxxx	XXXXXX	XXXXXX	xxxxx	XXXXXX		
1	B1	Dry Lake Valley											
1	B0	Inflow (Pahroc)	2,000				-106.5	-14.28					
т		Total Recharge	16,700				-98.1	-12.98					
E		ET	0						-99.0	-13.12			
	arb Well	Fugro Dry Lake V Deep Well		2	179	Well	-107.5	-14.16	-106.5				from Cave Valley
	arb Well arb Well	181M1 181W909M		1	603 604	Deep Well Deep Well	-105.0 -104.6	-13.67 -13.50	-106.5 -106.5				from Cave Valley from Cave Valley
-	D9	GW Outflow (Pahranagat)	0	'	004	Deep Weil	104.0	13.50	-99.0	-13.12			and valley
	82	GW Outflow (Delamar)	18,700						-99.0	-13.12			
х	xxxxxx	*****	XXXXXXXX	xxxxxxx	XXXXX	XXXXXXXXXX	xxxxxx	XXXXXX	XXXXXX	xxxxx	XXXXXX		
1	82	Delamar Valley											
1	81	Inflow (Dry Lake)	18,700				-99.0	-13.12					
т	R	Total Recharge	6,800				-92.8	-12.39					
	Т	ET	0			_			-97.3	-12.93			
	/ell	182W906M	•	1	607	Deep Well	-100.3	-13.33	-99.0			n flow f	from Dry Lake Valley
2	09	GW Outflow (Pahranagat)	0						-97.3	-12.93			

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	
210	GW Outflow (Coyote Spr)	25,500	eapiee		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	02	0100	-97.3	-12.93		
xxxxxxx	*****	XXXXXXXX	xxxxxx	XXXXXX	xxxxxxx	XXXXXXX	(XXXXX)	(XXXXX)	XXXXX	xxxxxx	
206	Kane Springs Valley										
0	Inflow (None)	0				0.0	0.00				
TR ET	Total Recharge ET	4,500 0				-88.9	-12.20	-88.9	-12.20		
210	GW Outflow (Coyote Spr)	4,500						-88.9	-12.20		
xxxxxxx	*****	XXXXXXXX	xxxxxx	xxxxxx	xxxxxxx	xxxxxx	(XXXXX)	(XXXXX)	XXXXX	xxxxxx	
210	Coyote Springs Valley										
209	Inflow (Pahranagat)	20,400				-103.2	-13.89				
182 206	Inflow (Delamar) Inflow (Kane Springs)	25,500 4,500				-97.3 -88.9	-12.93 -12.20				
TR	Total Recharge	2,300				-90.8	-12.53				
CARB	Carbonate Well (Avg)		14			-100.7	-13.11	-98.9		Flow weig	<mark>hted</mark> average of inter-basin flow from Pahranagat, Kane Springs, and Delamar Valleys
ET 219	ET GW Outflow (Muddy)	0 37,700						-98.6 -98.6	-13.22 -13.22		
217	GW Outflow (Hidden)	15,000						-98.6	-13.22		
xxxxxxx	*****	XXXXXXXXX	xxxxxx	xxxxxx	xxxxxxx	XXXXXXX	(XXXXX)	(XXXXX)	xxxxx	xxxxxx	
219	Upper Moapa (Muddy) Valley										
205	Inflow (LMVW)	4,000				-93.6	-12.60				
210 TR	Inflow (Coyote) Total Recharge	37,700 0				-98.6 -87.4	-13.22 -11.92				
Warm	Dicharge Warm Sprs (Avg)	8,300	49			-97.8	-12.90	-98.1	-13.16	-low weig	hted average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys
CARB	Deep Carbonate Well (Avg)		4			-97.9	-12.97	-98.1		Flow weig	hted average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys
ET Gage	ET Moapa Gage	6,000 34,000						-98.1	-13.16		
218	SW Outflow (California)	34,000									
218	GW Outflow (California)	1,700						-98.1	-13.16		
XXXXXXXX	****	XXXXXXXXX	(XXXXXX)	XXXXXX	XXXXXXXX	XXXXXXX	(XXXXX)	(XXXXX)	XXXXX	XXXXXX	
217	Hidden Valley										
210	Inflow (Coyote)	15,000				-98.6	-13.22				
TR ET	Total Recharge ET	0 0				-81.0	-10.60	-09.6	12 22		
216	تا GW Outflow (Garnet)	15,000						-98.6 -98.6	-13.22 -13.22		
xxxxxxxx	****	XXXXXXXXX	xxxxxx	xxxxxx	xxxxxxx	XXXXXXX	xxxxx	(XXXXX)	xxxxx	xxxxxx	
216	Garnet Valley										
217	Inflow (Hidden)	15,000				-98.6	-13.22				
TR	Total Recharge	100				-81.0	-10.60				
CARB ET	Wells (Avg) ET	0	6			-96.9	-13.32	-98.6 -98.5	-13.22 / -13.20	nter-basi	n flow from Hidden Valley
218	GW Outflow (California)	15,100							-13.20		
XXXXXXXXX	****	XXXXXXXXX	XXXXXXXX	XXXXXX	xxxxxxx	XXXXXX		(XXXXX)	xxxxx	xxxxxx	
218	California Wash										

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O			
219	SW Inflow (Muddy)	34,000										
205	SW Inflow (LMVW)	0										
219	Inflow (Muddy)	1,700				-98.1	-13.16					
205	Inflow (Lower Meadow VW)	5,200				-93.6	-12.60					
216	Inflow (Garnet)	15,100				-98.5	-13.20					
TR	Total Recharge	0				0.0	0.00					
ET	ET	4,500						-97.3	-13.06	i		
CARB	Carbonate Well (Avg)					-99.0	-13.45	-97.3	-13.06	Weighted	l Avei	age of Infterbasin flow from Garnet and Upper Moapa Valleys
220	GW Outflow (Lower Moapa)	18,800						-97.3	-13.06	i		
215	GW Outflow (Black Mtn Area)	2,000						-97.3	-13.06	i		
220	SW Outflow (Lower Moapa)	30,700										
XXXXXXXX	*****	XXXXXXXXX	(XXXXXX)	XXXXXX	XXXXXXXXX	XXXXXX	XXXXXX	XXXXX	XXXXXX	XXXXXX		
215	Black Mountains Area											
218	Inflow (California Wash)	2,000				-97.3	-13.06					
TR	Total Recharge	0				0.0	0.00					
ET	ET	1,400						-97.3	-13.06	i		
CARB	Carbonate Spr (Avg)	1,700	13			-91.3	-12.01	-97.3	-13.06	Weighted	l Avei	age of Inflow from Califronia Wash
999	GW Outflow (Colorado River)	600						-97.3	-13.06	i		
~~~~~~		~~~~~~			~~~~~	~~~~~		~~~~~				
*****	****	******	*****	*****			*****		*****			
220	Lower Moapa Valley											
218	GW Inflow (California Wash)	18,800				-97.3	-13.06					
218	SW Inflow (California Wash)	30,700										
TR	Total Recharge	0				-88.3	-12.50					
ET	ET	25,300						-97.3	-13.06	i		
CARB	Carbonate Well (Avg)		2			-91.0	-12.58	-93.6	-12.60	Inter-bas	in flov	v from Lower Meadow Valley Wash
999	GW Outflow (Colorado River)	17,200						-97.3	-13.06	i		
999	SW Outflow (Colorado River)	7,000										
xxxxxxx	****	xxxxxxxx	xxxxxxx	xxxxxx	xxxxxxxxx	xxxxxx	xxxxxx	xxxxx	xxxxx	xxxxxx		
Colorado R	Lake Mead (Colorado River)											
210	GW Inflow (Black Mountains Area)	600				-97.3	-13.06					
205	GW Inflow (Lower Moapa)	17,200				-97.3	-13.06					
999	Groundwater Total	17,800						-97.3	-13.06			
205	SW Inflow (Lower Moapa)	7,000										
999	Surface water Total	7,000										
999	Inflow Total	24,800										
xxxxxxx	****	xxxxxxx	xxxxxx	xxxxxx	XXXXXXXX	xxxxxx	xxxxxxx	xxxxx	xxxxx	xxxxxx		
183	Lake Valley											
0	Inflow (None)	0				0.0	0.00					
TR	Total Recharge	12,200				-105.7	-14.12					
ET	ET	6,100						-105 7	-14.12			
202	GW Outflow (Patterson)	6,100						-105.7				
	. ,											
XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXXXXX	XXXXXXX	XXXXXXXXX	XXXXX	XXXXXX	XXXXXX		
202	Patterson Valley											
183	Inflow (Lake)	6,100				-105.7	-14.12					

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC
TR	Total Recharge	10,500				-98.3	-13.03			
ET	ET	1,300						-101.0	-13.43	
203	GW Outflow (Panaca)	15,300						-101.0	-13.43	
XXXXXXXX	*****	XXXXXXXXX	<pre>xxxxxxxx</pre>	XXXXXX	XXXXXXXXX	XXXXXX	(XXXXX)	XXXXXX	XXXXX	XXXXXX
201	Spring Valley									
0	Inflow (None)	0				0.0	0.00			
TR	Total Recharge	11,100				-99.4	-13.28			
ET	ET	3,900						-99.4	-13.28	
200	GW Outflow (Eagle)	7,200						-99.4	-13.28	
200	SW Outflow (Eagle)	0						-97.5	-13.00	
xxxxxxx	*****	XXXXXXXXX	xxxxxxx	xxxxxx	xxxxxxxx	XXXXXX	(XXXXX)	xxxxxx	xxxxx	XXXXXX
200	Eagle Valley									
204		7 200				00.4	42.20			
201	Inflow (Spring)	7,200				-99.4	-13.28			
201	SW Inflow (Spring)	2 000				-97.5	-13.00			
TR ET	Total Recharge	2,000				-98.7	-13.15	00.2	42.05	
	ET	1,000						-99.3	-13.25	
199	GW Outflow (Rose)	8,200						-99.3	-13.25	
198	SW Outflow (Rose)	0						-99.3	-13.25	
XXXXXXXX	*****	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXXXXX	XXXXXX	(XXXXX)	XXXXXX	XXXXX	XXXXXX
199	Rose Valley									
200	Inflow (Eagle)	8,200				-99.3	-13.25			
200	SW Inflow (Eagle)	0				-99.3	-13.25			
TR	Total Recharge	200				-98.4	-13.08			
ET	ET	600						-99.2	-13.24	
198	GW Outflow (Dry)	7,800						-99.2	-13.24	
198	SW Outflow (Dry)	0						-99.3	-13.25	
XXXXXXXX	****	XXXXXXXX	xxxxxx	xxxxxx	XXXXXXXX	xxxxxx		xxxxxx	xxxxx	XXXXXX
198										
100	Dry Valley									
	Dry Valley Inflow (Rose)	7,800				-99.2	-13.24			
199		7,800 0				-99.2 -99.3	-13.24 -13.25			
199 199	Inflow (Rose)									
199 199 TR	Inflow (Rose) SW Inflow (Rose)	0				-99.3	-13.25	-98.5	-13.16	
199 199 FR ET	Inflow (Rose) SW Inflow (Rose) Total Recharge ET	0 3,200 3,700				-99.3	-13.25	-98.5 -98.5	-13.16 -13.16	
199 199 TR ET 203	Inflow (Rose) SW Inflow (Rose) Total Recharge	0 3,200				-99.3	-13.25			
199 199 TR ET 203 203	Inflow (Rose) SW Inflow (Rose) Total Recharge ET GW Outflow (Panaca) SW Outflow (Panaca)	0 3,200 3,700 7,300 0	(XXXXXXX	XXXXXX	****	-99.3 -96.9	-13.25 -12.96	-98.5 -99.2	-13.16 -13.24	XXXXXX
199 199 TR ET 203 XXXXXXXX	Inflow (Rose) SW Inflow (Rose) Total Recharge ET GW Outflow (Panaca) SW Outflow (Panaca)	0 3,200 3,700 7,300 0	(XXXXXXX	XXXXXX	XXXXXXXXX	-99.3 -96.9	-13.25 -12.96	-98.5 -99.2	-13.16 -13.24	xxxxx
199 199 TR ET 203 203 XXXXXXXXX 204	Inflow (Rose) SW Inflow (Rose) Total Recharge ET GW Outflow (Panaca) SW Outflow (Panaca) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 3,200 3,700 7,300 0	(XXXXXXXX	XXXXXX	XXXXXXXXX	-99.3 -96.9	-13.25 -12.96	-98.5 -99.2	-13.16 -13.24	XXXXXX
199 199 TR ET 203 203 XXXXXXXXX 204	Inflow (Rose) SW Inflow (Rose) Total Recharge ET GW Outflow (Panaca) SW Outflow (Panaca) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 3,200 3,700 7,300 0 XXXXXXXXX	(XXXXXXX	XXXXXX	XXXXXXXXX	-99.3 -96.9	-13.25 -12.96	-98.5 -99.2	-13.16 -13.24	XXXXXX
199 199 TR ET 203 203 XXXXXXXX 204 0 TR	Inflow (Rose) SW Inflow (Rose) Total Recharge ET GW Outflow (Panaca) SW Outflow (Panaca) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 3,200 3,700 7,300 0 XXXXXXXXX 0 14,700	xxxxxx	XXXXXX	XXXXXXXX	-99.3 -96.9 XXXXXXX	-13.25 -12.96	-98.5 -99.2 XXXXXX )	-13.16 -13.24	XXXXXX
199 199 ET 2003 2003 XXXXXXXXX 204 D TR ET	Inflow (Rose) SW Inflow (Rose) Total Recharge ET GW Outflow (Panaca) SW Outflow (Panaca) SW Outflow (Panaca) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 3,200 3,700 7,300 0 XXXXXXXXX 0 14,700 5,200	(XXXXXXX	XXXXXX	XXXXXXXXX	-99.3 -96.9 XXXXXXX	-13.25 -12.96	-98.5 -99.2 XXXXXX )	-13.16 -13.24 XXXXXX -12.46	XXXXXX
199 199 TR ET 203 203 XXXXXXXX 204 0 TR ET 205 205	Inflow (Rose) SW Inflow (Rose) Total Recharge ET GW Outflow (Panaca) SW Outflow (Panaca) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 3,200 3,700 7,300 0 XXXXXXXXX 0 14,700	xxxxxx	XXXXXX	XXXXXXXXX	-99.3 -96.9 XXXXXXX	-13.25 -12.96	-98.5 -99.2 XXXXXX )	-13.16 -13.24	XXXXXX
199 199 FR ET 203 203 204 204 204 205 205	Inflow (Rose) SW Inflow (Rose) Total Recharge ET GW Outflow (Panaca) SW Outflow (Panaca) SW Outflow (Panaca) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 3,200 3,700 7,300 0 XXXXXXXXX 0 14,700 5,200 9,500 0				-99.3 -96.9 XXXXXXX 0.0 -92.1	-13.25 -12.96 (XXXXXX ) 0.00 -12.46	-98.5 -99.2 XXXXXXX ) -92.1 -92.1 -92.1	-13.16 -13.24 (XXXXX -12.46 -12.46 -12.46	
999 199 17R 203 203 203 204 0 17R 204 0 17R 204 0 17R 205 205	Inflow (Rose) SW Inflow (Rose) Total Recharge ET GW Outflow (Panaca) SW Outflow (Panaca) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 3,200 3,700 7,300 0 XXXXXXXXX 0 14,700 5,200 9,500 0				-99.3 -96.9 XXXXXXX 0.0 -92.1	-13.25 -12.96 (XXXXXX ) 0.00 -12.46	-98.5 -99.2 XXXXXXX ) -92.1 -92.1 -92.1	-13.16 -13.24 (XXXXX -12.46 -12.46 -12.46	

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O		
202	Inflow (Patterson)	15,300	•			-101.0	-13.43				
198	Inflow (Dry)	7,300				-98.5	-13.16				
198	SW Inflow (Dry)	0				-99.2	-13.24				
TR	Total Recharge	5,500				-95.8	-12.78				
Warm	Bennett Spring	20	1	141	Spring	-103.0	-13.70	-101.0	-13.43	Inter-basi <mark>n flow</mark>	v from Patterson Valley
Warm	Caliente Hot Springs (Hotel)	0	8	129	Spring	-107.9	-14.44	-105.7	-14.12	Inter-basi <mark>n flow</mark>	v from Lake Valley
Warm	Panaca Spring	7700	13	144	Spring	-106.9	-14.14	-105.7			v from Lake Valley
ET	ET	18,900						-99.3	-13.24	•	
205	GW Outflow (LMVW)	9,200						-99.3	-13.24		
205	SW Outflow (LMVW)	0						-97.0	-13.10		
XXXXXXXX	*****	XXXXXXXX	xxxxxxx	xxxxx	xxxxxxx	XXXXXXX	<b>XXXXX</b>	XXXXXX	xxxxx	xxxxxx	
205	Lower Meadow Valley Wash										
203	Inflow (Panaca)	9,200				-99.3	-13.24				
204	Inflow (Clover)	9,500				-92.1	-12.46				
203	SW Inflow (Panaca)	0				-97.0	-13.10				
204	SW Inflow (Clover)	0				-92.1	-12.46				
TR	Total Recharge	12,400				-90.4	-12.24				
Warm	Kershaw-Ryan Spring #1		1	250	Spring	-95.1	-13.11	-95.7	-12.84	Weighted Aver	age of Infterbasin flow from Garnet and Upper Moapa Valleys
Warm	EH-6 Weiser Wash		1	59	Well	-99.5	-13.90				
Warm	EH-8 Weiser Wash		1	57	Well	-96.5	-13.70				
Alluvial Well	Railroad Well (Farrier, NV)		1	80	Well	-97.5	-12.50				
ET	ET	21,900						-93.6	-12.60	)	
206	GW Outflow (Upper Moapa)	4,000						-93.6	-12.60	)	
218	GW Outflow (California Wash)	5,200						-93.6	-12.60	)	
040	GW Outflow (Lower Moapa)	0						-93.6	-12.60	)	
218 218	SW Outflow (California Wash)							-93.6	-12.60		

			SNWA/BA	RCASS	(SNWA, 2007	; Welch ai	nd Bright,	, 2007)		
Region	Name	Volume	# of	Site#	Site	Obs.	Obs.	Calc.	Calc.	IC
~~~~~~		Arce-ft/yr			Туре	δD	δ18Ο	δD	δ18Ο	
XXXXXXXX	*****		******	KXXXX.	*****		XXXXXX	XXXXXX	*****	*****
175	Long Valley									
)	Inflow (None)	0				0.0	0.00			
TR	Total Recharge	21,000				-122.4	-15.96			
ET	ET	1,200						-122.4	-15.96	
154	GW Outflow (Newark)	0						-122.4	-15.96	
174	GW Outflow (Jakes)	19,800						-122.4	-15.96	
xxxxxxx	*****	XXXXXXXXX	xxxxxxx	(KXXXX)	xxxxxxxx	XXXXXX	XXXXXX	XXXXXX	xxxxx	XXXXXX
174	Jakes Valley									
175	Inflow (Long)	19,800				-122.4	-15.96			
TR	Total Recharge	13,000				-119.9	-15.71			
ET	ET	900						-119.9	-15.71	
207N	GW Outflow (NWRV)	31,900						-121.4	-15.86	
xxxxxxx	*****	XXXXXXXXX	xxxxxxx	(KXXXX)	xxxxxxxxx	(XXXXXXX)	XXXXXX	xxxxxx	xxxxx	xxxxxx
180	Cave Valley									
0	Inflow (None)	0				0.0	0.00			
TR	Total Recharge	15,400				-106.5	-14.28			
ET	ET	1,600						-106.5	-14.28	
Well	180W902		1	601	Deep Well	-104.7	-14.12			
Well 208	180W501	9,800	1	600	Deep Well	-105.6	-14.12	-106.5	-14.28	
208 207S	GW Outflow (Pahroc) GW Outflow (SWRV)	9,800 4,000						-106.5	-14.28	
****	****	XXXXXXXXX	******	(XXXXX)	*****	XXXXXXX	XXXXXX	XXXXXX	*****	XXXXXX
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			000000000	0000000				100000
207N	North White River Valley									
174	Inflow (Jakes)	31,900				-121.4	-15.86			
TR	Total Recharge	28,600				-113.5	-15.16			
Warm	Discharge Warm Sprs (Avg)	8,900	14			-122.6	-15.92	-121.4		Inter-basi
ET 207S	ET GW Outflow (SWRV)	29,500 31,000						-113.7 -121.4	-15.19 -15.86	
2013	GW Gullow (GWRV)	51,000						-121.4	-15.00	
XXXXXXXX	****	XXXXXXXXX	XXXXXXX	(KXXXX)	XXXXXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
207S	South White River Valley	WRV Tot Re	charge							
0071		42,900				404.4	45.00			
207N 180	Inflow (N White River) Inflow (Cave)	31,000 4,000				-121.4 -106.5	-15.86 -14.28			
TR	Total Recharge	14,300					-14.28			
Warm	Discharge Warm Sprs (Avg)	13,200	13					-121.4	-15.86	Inter-basi
ET	ET	47,200						-115.8	-15.23	
208	GW Outflow (Pahroc)	2,100						-119.7	-15.68	
XXXXXXXX	*****	XXXXXXXXX	XXXXXXXX	(KXXXX)	XXXXXXXXXX		XXXXXX	XXXXXX	XXXXXX	XXXXXXX
172	Garden Valley									
0	Inflow (None)	0				0.0	0.00			

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ180	IC
ET 171	ET GW Outflow (Coal)	1,700 24,000						-104.7 -104.7	-14.08 -14.08	
xxxxxxx	x xxxxxxxxxxxxxxxxxxxxx	XXXXXXXXX	xxxxxxx	xxxxx	«XXXXXXXXXX	xxxxxx	xxxxx	xxxxxx	xxxxx	xxxxxx
171	Coal Valley									
172 172 TR Carb Well	Inflow (Garden) Inflow (SWRV) Total Recharge USGS-MX C.V. Well (CV-DT-1)	24,000 0 4,200	2	176	Well	-104.7 -119.7 -98.4 -109.0	-14.08 -15.68 -12.95 -14.56	-104.7	-14.09	Underflow from Garden Valley
ET 208	ET GW Outflow (Pahroc)	0 28,200						-98.4 -103.7	-12.95 -13.91	
	x xxxxxxxxxxxxxxxxxxxxx	XXXXXXXXX	XXXXXXXX	XXXXX	«XXXXXXXXX X	XXXXXX	XXXXXXD	XXXXXX	XXXXX	XXXXXX
208	Pahroc Valley									
180 207S 171 TR ET 181	Inflow (Cave) Inflow (S. White River) Inflow (Coal) Total Recharge ET GW Outflow (Dry Lake)	9,800 2,100 28,200 4,900 0 2,000				-106.5 -119.7 -103.7 -96.4	-14.28 -15.68 -13.91 -12.75	-96.4 -106.5	-12.75 -14.28	
209	GW Outflow (Pahranagat)	43,000						-104.3	-13.95	
XXXXXXX	x xxxxxxxxxxxxxxxxxxxxxx	XXXXXXXXX	XXXXXXXX	XXXXX	*XXXXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXX	XXXXXX
209	Pahranagat Valley									
208 181 209 TR Warm ET	Inflow (Pahroc) Inflow (Dry Lake) Inflow (Delamar) Total Recharge Discharge Warm Springs (Avg) ET	43,000 0 5,900 25,400 28,500	31			-104.3 -99.0 -97.3 -97.0 -108.9	-13.95 -13.12 -12.93 -13.67 -14.26	-104.3 -102.8	- <i>13.9</i> 5 -13.89	Inter-basin flow from Pahroc Valley
Well 210	209M-1 GW Outflow (Coyote Spr)	20,400	1	608	Deep Well	-104.7	-13.53	-104.3 -104.3	-13.95 -13.95	Inter-basin flow from Pahroc Valley
xxxxxx	x xxxxxxxxxxxxxxxxxxxxx	XXXXXXXX	xxxxxxx	xxxxx	xxxxxxxxx	xxxxxx	xxxxx	xxxxxx	xxxxx	xxxxxx
181	Dry Lake Valley									
208 TR Carb Well Carb Well Carb Well ET 209 182	181M1	2,000 16,700 0 18,700	2 1 1	179 603 604	Well Deep Well Deep Well	-106.5 -98.1 -107.5 -105.0 -104.6	-14.28 -12.98 -14.16 -13.67 -13.50	-106.5 -106.5 -106.5 -98.1 -99.0 -99.0	-14.28	Inter-basin flow from Cave Valley Inter-basin flow from Cave Valley Inter-basin flow from Cave Valley
XXXXXXX	x xxxxxxxxxxxxxxxxxxxxxx	XXXXXXXX	XXXXXXXX	XXXXX	*XXXXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXX	XXXXXX
182	Delamar Valley									
181 TR ET Well	Inflow (Dry Lake) Total Recharge ET 182W906M	18,700 6,800 0	1	607	Deep Well	-99.0 -92.8 -100.3	-13.12 -12.39 -13.33	-92.8 - 99.0	-12.39 -13.12	Inter-basin flow from Dry Lake Valle
209	GW Outflow (Pahranagat)	0	1	001	2000 1101			-97.3	-12.93	

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18O	Calc. δD	Calc. δ18Ο	IC	
210	GW Outflow (Coyote Spr)	25,500	oumpiee		1900	02	0100	-97.3	-12.93		
XXXXXXXX	*****	XXXXXXXXX	XXXXXXXX	XXXXXX	xxxxxxx	XXXXXXX	XXXXXX	XXXXX X	XXXXX	xxxxxx	
206	Kane Springs Valley										
0	Inflow (None)	0				0.0	0.00				
TR ET	Total Recharge ET	4,500 0				-88.9	-12.20	-88.9	-12.20		
210	GW Outflow (Coyote Spr)	4,500						-88.9	-12.20		
xxxxxxx	*****	XXXXXXXX	xxxxxxx	XXXXXX	xxxxxxx	xxxxxxx	(XXXXX)	XXXXX X	XXXXX	xxxxxx	
210	Coyote Springs Valley										
209	Inflow (Pahranagat)	20,400				-104.3	-13.95				
182 206	Inflow (Delamar) Inflow (Kane Springs)	25,500 4,500				-97.3 -88.9	-12.93 -12.20				
TR	Total Recharge	2,300				-90.8	-12.53				
ET CARB	ET Carbonate Well (Avg)	0	6			-100.7	-13.11	-90.8 -99.4	-12.53		hted average of inter-basin flow from Pahranagat, Kane Springs, and Delamar Valleys
219	GW Outflow (Muddy)	37,700	•			-100.7	-13.11	-99.0	-13.24	iow weigi	average of inter-basin now noin r annanagat, nane oprings, and Delamar valleys
217	GW Outflow (Hidden)	15,000						-99.0	-13.24		
XXXXXXXX	*****	XXXXXXXXX	XXXXXXXX	XXXXXX	xxxxxxxx	XXXXXXX	XXXXXX	XXXXX X	XXXXX	XXXXXX	
219	Upper Moapa (Muddy) Valley										
205	Inflow (LMVW)	4,000				-96.3	-12.92				
210 TR	Inflow (Coyote) Total Recharge	37,700 0				-99.0 - 87 .4	-13.24 -11.92				
Warm	Dicharge Warm Sprs (Avg)	8,300	49			-97.8	-12.90	-98.8			hted average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys
CARB ET	Deep Carbonate Well (Avg) ET	Input into N 6,000	4			-97.9	-12.97	-98.8 -98.8	-13.21 / -13.21	low weig	hted average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys
Gage	Moapa Gage	34,000									
218 218	SW Outflow (California) GW Outflow (California)	34,000 1,700						-98.8	-13.21		
					~~~~~~					<u></u>	
XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		~~~~~			******				XXXXXX	
217	Hidden Valley										
210	Inflow (Coyote)	15,000				-99.0	-13.24				
TR ET	Total Recharge ET	0 0				-81.0	-10.60	-81.0	-10.60		
216	GW Outflow (Garnet )	15,000						-99.0	-13.24		
xxxxxxx	*****	XXXXXXXXX	xxxxxxx	XXXXXX	xxxxxxx	xxxxxxx	xxxxxx	(XXXXX)	XXXXX	xxxxxx	
216	Garnet Valley										
217	Inflow (Hidden)	15,000				-99.0	-13.24				
TR CARB	Total Recharge Wells (Avg)	100	6			<b>-81.0</b> -96.9	-10.60	-00.0	-12 24	ntor-basi	n flow from Hidden Valley
ET	ET	0	U			-90.9	-13.32	-99.0 -81.0	-13.24	nter-DaSII	
218	GW Outflow (California)	15,100						-98.9	-13.23		
XXXXXXXX	*****	XXXXXXXX	xxxxxxx	XXXXXX	xxxxxxx	xxxxxxx	xxxxxx	(XXXXX)	XXXXX	xxxxxx	
218	California Wash										

Region	Name		# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O		:	
219 205	SW Inflow (Muddy)	34,000 0										
205	SW Inflow (LMVW) Inflow (Muddy)	1,700				-98.8	-13.21					
205	Inflow (Lower Meadow VW)	5,200				-96.3	-12.92					
216	Inflow (Garnet)	15,100				-98.9	-13.23					
TR	Total Recharge	0				-82.0	-10.6					
ET	ET	4,500				02.0		-82.0	-10.60			
CARB	Carbonate Well (Avg)	.,				-99.0	-13.45	-98.3			d Aver	age of Infterbasin flow from Garnet and Upper Moapa Valleys
220	GW Outflow (Lower Moapa)	18,800						-98.3	-13.15	-		
215	GW Outflow (Black Mtn Area)	2,000						-98.3	-13.15			
220	SW Outflow (Lower Moapa)	30,700										
xxxxxxx	****	xxxxxxx	xxxxxxx	xxxxx	xxxxxxx	xxxxxx	xxxxxx	(XXXXX)	xxxxx	xxxxxx		
215	Black Mountains Area											
218	Inflow (California Wash)	2,000				-98.3	-13.15					
TR	Total Recharge	0				-81.3	-10.75					
ET	ET	1,400						-81.3	-10.75			
CARB	Carbonate Spr (Avg)	1,700	13			-91.3	-12.01	-98.3	-13.15	Weighted	l Aver	age of Inflow from Califronia Wash
999	GW Outflow (Colorado River)	600						-98.3	-13.15			-
******	xxxxxxxxxxxxxxxxxx	~~~~~	<b></b>	~~~~~	///////////////////////////////////////	<b>vvvvv</b> "	~~~~~	~~~~~		~~~~~		
~~~~~	~~~~~~		~~~~/	~~~~~	~~~~~	~~~~~	~~~~		~~~~~			
220	Lower Moapa Valley											
218	GW Inflow (California Wash)	18,800				-98.3	-13.15					
218	SW Inflow (California Wash)	30,700										
TR	Total Recharge	0				-88.3	-12.50					
CARB	Carbonate Well (Avg)		2			-91.0	-12.58	-96.3			in flov	v from Lower Meadow Valley Wash
ET	ET	25,300						-88.3	-12.50			
999 999	GW Outflow (Colorado River) SW Outflow (Colorado River)	17,200 7,000						-98.3	-13.15			
		1,000										
XXXXXXXX	*****	XXXXXXXX	XXXXXXX	(XXXXXX)	XXXXXXXXX	XXXXXX	XXXXXX	(XXXXX)	XXXXXX	XXXXXX		
Colorado R	Lake Mead (Colorado River)											
210	GW Inflow (Black Mountains Area)	600				-98.3	-13.15					
205	GW Inflow (Lower Moapa)	17,200				-98.3	-13.15					
999	Groundwater Total	17,800						-98.3	-13.15			
205	SW Inflow (Lower Moapa)	7,000										
999	Surfacewater Total	7,000										
999	Inflow Total	24,800										
XXXXXXXX	****	XXXXXXXX	XXXXXXX	(XXXXXX)	(XXXXXXXXX	XXXXXX	XXXXXXX	(XXXXX)	XXXXXX	XXXXXX		
183	Lake Valley											
0	Inflow (None)	0				0.0	0.00					
TR	Total Recharge	12,200				-105.7	-14.12					
ET	ET	6,100						-105.7	-14.12			
202	GW Outflow (Patterson)	6,100						-105.7	-14.12			
xxxxxxx	****	XXXXXXXX	xxxxxxx	(XXXXXX)	xxxxxxx	xxxxxx	XXXXXX	(XXXXX)	xxxxx	XXXXXX		
202	Patterson Valley											
183	Inflow (Lake)	6,100				-105.7	-14.12					
	(Lano)	0,100										

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC
TR ET	Total Recharge ET	10,500	•			-98.3	-13.03	00.2	42.02	
203	GW Outflow (Panaca)	1,300 15,300						-98.3 -101.3	-13.03 -13.47	
xxxxxxxx	*****	XXXXXXXX	xxxxxxx	xxxxx	xxxxxxxx	xxxxxx	xxxxx	xxxxx	xxxxx	xxxxxx
201	Spring Valley									
0	Inflow (None)	0				0.0	0.00			
TR	Total Recharge	11,100				-99.4	-13.28		40.00	
ET 200	ET GW Outflow (Eagle)	3,900 7,200						-99.4 -99.4	-13.28 -13.28	
200	SW Outflow (Eagle)	0						-97.5	-13.00	
xxxxxxxx	*****	XXXXXXXXX	xxxxxxx	xxxxx	xxxxxxxx	xxxxxx	xxxxx	(XXXXX)	xxxxx	xxxxxx
200	Eagle Valley									
201	Inflow (Spring)	7,200				-99.4	-13.28			
201	SW Inflow (Spring)	0				-97.5	-13.00			
TR		2,000				-98.7	-13.15	09.7	-13.15	
ET 199	ET GW Outflow (Rose)	1,000 8,200						-98.7 -99.3	-13.15 -13.26	
198	SW Outflow (Rose)	0,200						-98.7	-13.00	
xxxxxxxx	*****	XXXXXXXXX	xxxxxxx	xxxxx	xxxxxxxx	xxxxxx	xxxxx	(XXXXX)	xxxxx	xxxxxx
199	Rose Valley									
200	Inflow (Eagle)	8,200				-99.3	-13.26			
200	SW Inflow (Eagle)	0				-98.7	-13.00			
TR	Total Recharge	200				-98.4	-13.08		40.00	
ET 198	ET GW Outflow (Dry)	600 7,800						-98.4 -99.3	-13.08 -13.25	
198	SW Outflow (Dry)	0						-98.4	-13.08	
xxxxxxxx	****	XXXXXXXXX	xxxxxxxx	xxxxxx	xxxxxxxx	XXXXXX	xxxxx	(XXXXX X	xxxxx	xxxxxx
198	Dry Valley									
199	Inflow (Rose)	7,800				-99.3	-13.25			
199	SW Inflow (Rose)	0				-98.4	-13.08			
TR	Total Recharge	3,200				-96.9	-12.96		40.00	
ET 203	ET GW Outflow (Papaca)	3,700						-97.2 -99.3	-13.00 -13.25	
203 203	GW Outflow (Panaca) SW Outflow (Panaca)	7,300 0						-99.3 -97.2	-13.25	
xxxxxxxx	****	XXXXXXXXX	xxxxxxxx	xxxxxx	xxxxxxxx	xxxxxx	xxxxx	(XXXXX)	xxxxx	xxxxxx
204	Clover Valley									
0	Inflow (None)	0				0.0	0.00			
TR	Total Recharge	14,700				-92.1	-12.46			
ET	ET	5,200						-92.1	-12.46	
205	GW Outflow (LMVW)	9,500						-92.1	-12.46	
205	SW Outflow (LMVW)	0						-92.1	-12.46	
xxxxxxxx	*****	XXXXXXXXX	xxxxxxx	xxxxx	xxxxxxxx	XXXXXX	XXXXXX	(XXXXX)	xxxxx	XXXXXX
203	Panaca Valley									
202	Inflow (Patterson)	15,300				-101.3	-13.47			

Regio	n Name	Volume	# of	Site#	Site	Obs.	Obs.	Calc.	Calc.	IC	
400	Inflow (Dm)	Arce-ft/yr	Samples		Туре	δD	δ18Ο	δD	δ18Ο		
198	Inflow (Dry)	7,300				-99.3	-13.25				
198	SW Inflow (Dry)	0				-97.2	-13.00				
TR	Total Recharge	5,500			. .	-95.8	-12.78		10 17		
Warm	Bennett Spring	20	1	141	Spring	-103.0	-13.70	-101.3			in flow from Patterson Valley
Warm	Caliente Hot Springs (Hotel)	0	8	129	Spring	-107.9	-14.44	-105.7			i <mark>n flow</mark> from Lake Valley
Warm	Panaca Spring	7700	13	144	Spring	-106.9	-14.14	-105.7			i <mark>n flow</mark> from Lake Valley
ET	ET	18,900						-99.2	-13.22		
205	GW Outflow (LMVW)	9,200						-100.6	-13.40		
205	SW Outflow (LMVW)	0						-99.2	-13.22		
XXXXX	XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXX	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
205	Lower Meadow Valley Wash										
203	Inflow (Panaca)	9,200				-100.6	-13.40				
204	Inflow (Clover)	9,500				-92.1	-12.46				
203	SW Inflow (Panaca)	0				-99.2	-13.22				
204	SW Inflow (Clover)	0				-92.1	-12.46				
TR	Total Recharge	12,400				-90.4	-12.24				
Warm	Kershaw-Ryan Spring #1		1	250	Spring	-95.1	-13.11	-96.3	-12.92	Weighted	d Average of Infterbasin flow from Garnet and Upper Moapa Valleys
Warm	EH-6 Weiser Wash		1	59	Well	-99.5	-13.90			•	
Warm	EH-8 Weiser Wash		1	57	Well	-96.5	-13.70				
Alluvia	I Well Railroad Well (Farrier, NV)		1	80	Well	-97.5	-12.50				
ET	ET	21,900						-93.0	-12.54		
206	GW Outflow (Upper Moapa)	4,000						-96.3	-12.92		
218	GW Outflow (California Wash)	5,200						-96.3	-12.92		
218	SW Outflow (California Wash)	0,200						-90.4	-12.24		
2.10		, v						00.4			
XXXX	· · · · · · · · · · · · · · · · · · ·	CXXXXXXXX	xxxxxxx	XXXXX	<u> </u>	XXXXXXX	XXXXXX	XXXXXX	xxxxx	XXXXXXX	

				Reconna	issance Serie	es Water E	Budaet			
Region	Name	Volume	# of	Site#	Site	Obs.	Obs.	Calc.	Calc.	IC
~~~~~	****	Arce-ft/yr			Туре	δD	δ18Ο	δD	δ18Ο	
XXXXXXXXX	*****	~~~~~	~~~~~		~~~~~~		~~~~		~~~~~	*****
175	Long Valley									
0	Inflow (None)	0				0.0	0.00			
TR	Total Recharge	10,300				-121.7	-15.85			
ET	ET	2,000						-121.7	-15.85	
174	GW Outflow (Jakes)	8,300						-121.7	-15.85	
XXXXXXXX	*****	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
174	Jakes Valley									
175	Inflow (Long)	8,300				-121.7	-15.85			
TR	Total Recharge	17,000				-119.7	-15.66			
ET	ET	0						-120.3	-15.72	
207N	GW Outflow (NWRV)	25,300						-120.3	-15.72	
XXXXXXXX	*****	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
180	Cave Valley									
0	Inflow (None)	0				0.0	0.00			
TR	Total Recharge	14,000				-106.6	-14.28			
ET Well	ET 180W902	200	1	601	Deep Well	-104.7	-14.12	-106.6	-14.28	
Well	180W501		1	600	Deep Well	-105.6	-14.12			
181	GW Outflow (Dry Lake)	0						-106.6		
207S	GW Outflow (SWRV)	13,800						-106.6	-14.28	
XXXXXXXX	*****	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
207N	North White River Valley									
174	Inflow (Jakes)	25,300				-120.3	-15.72			
TR	Total Recharge	25,700				-113.7	-15.16			
Warm ET	Discharge Warm Sprs (Avg) ET	8,900 22,000	14			-122.6	-15.92	-120.3 -117.0	-15.72 -15.44	Inter-basi
207S	GW Outflow (SWRV)	29,000						-117.0		
xxxxxxxx	****	XXXXXXXXX	xxxxxx	xxxxx	xxxxxxxx	xxxxxx	xxxxxx	XXXXXX	xxxxx	xxxxxx
207S	South White River Valley	WRV Tot Re 38,000	cnarge							
207N	Inflow (N White River)	29,000				-117.0	-15.44			
180	Inflow (Cave)	13,800				-106.6	-14.28			
TR	Total Recharge	12,300	42			-106.7	-14.18	447.0	45 44	Inter hee
Warm ET	Discharge Warm Sprs (Avg) ET	13,200 13,000	13			-119.2	-15.71	-117.0 -112.1		Inter-basi
208	GW Outflow (Pahroc)	42,100							-14.87	
208	GW Outflow (Garden Valley)	0						-112.1	-14.87	
xxxxxxx	*****	XXXXXXXX	xxxxxx	XXXXXX	XXXXXXXXX	XXXXXXX	xxxxxx	XXXXXX	xxxxx	XXXXXXX
172	Garden Valley									
172 172	Garden Valley	0				-112.1	-14.87			

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC		
ET 171	ET GW Outflow (Coal)	2,000 8,000						-104.2 -104.2	-14.00 -14.00			
XXXXXXXX	*****	XXXXXXXX	xxxxxxx	xxxxx	XXXXXXXXXX	xxxxxx	xxxxxx	(XXXXX )	xxxxx	XXXXXX		
171	Coal Valley											
172 172 TR	Inflow (Garden) Inflow (SWRV) Total Recharge	8,000 0 <b>2,000</b>				-104.2 -112.1 -98.7	-14.00 -14.87 -13.05					
Carb Well ET 208	USGS-MX C.V. Well (CV-DT-1) ET GW Outflow (Pahranagat)	0 10,000	2	176	Well	-109.0	-14.56	-104.2 -103.1 -103.1	-14.0 -13.81 -13.81	Underflov	v fron	n Garden Valley
XXXXXXXX	*****	XXXXXXXX	XXXXXXXX	XXXXX	XXXXXXXXXX	XXXXXX	XXXXXX	(XXXXX )	XXXXX	XXXXXX		
208	Pahroc Valley											
207S 171 TR ET 209	Inflow (S. White River) Inflow (Coal) Total Recharge ET GW Outflow (Pahranagat)	42,100 0 2,200 0 44,300				-112.1 0.0 -96.8	-14.87 0.00 -12.80	-111.3 -111.3	-14.77 -14.77			
*****	****	******	~~~~~~	~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*****	*****		~~~~~	*****		
	^^^^	~~~~~	~~~~~	~~~~/	~~~~~	~~~~~	~~~~~	~~~~ /		~~~~~		
209	Pahranagat Valley											
208 171 209 TR Warm ET Warm 210	Inflow (Pahroc) Inflow (Coal) Inflow (Delamar) Total Recharge Discharge Warm Springs (Avg) ET 209M-1 GW Outflow (Coyote Spr)	44,300 10,000 6,200 1,800 25,400 25,000 37,300	31 1	608	Deep Well	-111.3 -103.1 -97.7 -97.4 -108.9 -104.7	-14.77 -13.81 -12.96 -13.83 -14.26 -13.53	-111.3 -108.3 -111.3 -108.3	-14.41			v from Pahroc Valley v from Pahroc Valley
xxxxxxx	*****	xxxxxxxx	XXXXXXXX	xxxxx	XXXXXXXXXX	xxxxxx	xxxxxx	(XXXXX)	xxxxx	xxxxxx		
181	Dry Lake Valley											
180 TR Carb Well Carb Well Carb Well ET 209 182	Inflow (None) Total Recharge Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar)	0 5,000 0 5,000	2 1 1	179 603 604	Well Deep Well Deep Well	0.0 -98.9 -107.5 -105.0 -104.6	0.00 -13.10 -14.16 -13.67 -13.50	-98.9 -98.9 -98.9 -98.9 -98.9 -98.9	-13.10	Local Rec Local Rec Local Rec	harg	е
XXXXXXXX	*****	XXXXXXXXX	xxxxxxx	xxxxx	××××××××××	XXXXXX	xxxxxx	(XXXXX )	xxxxx	XXXXXX		
182	Delamar Valley											
181 TR ET Well 209 210	Inflow (Dry Lake) Total Recharge ET 182W906M GW Outflow (Pahranagat) GW Outflow (Coyote Spr)	5,000 1,200 0 6,200 0	1	607	Deep Well	-98.9 -92.7 -100.3	-13.10 -12.38 -13.33	-97.7 -98.9 -97.7 -97.7	-12.96 -13.10 -12.96 -12.96	Inter-basi	n flov	v from Dry Lake Valley

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	
XXXXXXXX	*****	XXXXXXXXX	XXXXXXX	XXXXXX	xxxxxxx	XXXXXXX	XXXXXXO	XXXXXX	XXXXXX	XXXXXX	
206	Kane Springs Valley										
0 TR	Inflow (None) Total Recharge	0 600				0.0 -89.0	0.00 -12.22				
ET	ET	0				-09.0	-12.22	-89.0	-12.22		
210	GW Outflow (Coyote Spr)	600						-89.0	-12.22		
XXXXXXX	****	xxxxxxxxx	xxxxxx	xxxxx	xxxxxxx	XXXXXXX	xxxxxx	XXXXXX	xxxxxx	xxxxxx	
10	Coyote Springs Valley										
209	Inflow (Pahranagat)	37,300				-108.3	-14.41				
82	Inflow (Delamar)	0				0.0	0.00				
:06	Inflow (Kane Springs)	600				-89.0	-12.22				
R	Total Recharge	2,000				-92.6	-12.81	107.0	14.00		
T 19	ET GW Outflow (Muddy)	500 39,400						-107.2 -107.2	-14.29 -14.29		
17	GW Outflow (Hidden)	39,400						0.0	0.00		
16	GW Outflow (Garnet)	Ő						0.0	0.00		
xxxxxxx	****	******	******	XXXXXXX	******	******	*****	XXXXXX	*****	XXXXXX	
19	Upper Moapa (Muddy) Valley										
05	Inflow (LMVW)	0				0.0	0.00				
10 R	Inflow (Coyote) Total Recharge	39,400 0				-107.2 -87.3	-14.29 -11.86				
/arm	Dicharge Warm Sprs (Avg)	8,300	49			-97.8	-12.90	-107.2	-14.29	Flow weighte	average of inter-basin flow from Coyote and Lower Meadow Valley Wa
ARB	Deep Carbonate Well (Avg)	Input into N	4			-97.9	-12.97	-107.2			average of inter-basin flow from Coyote and Lower Meadow Valley Wa
т	ET	0						-107.2	-14.29		
age	Moapa Gage	34,000									
18 18	SW Outflow (California) GW Outflow (California)	34,000 5,400						-107.2 -107.2	-14.29 -14.29		
XXXXXXXX		-	XXXXXXX	XXXXXX	XXXXXXXX	XXXXXXXD	XXXXXXD			XXXXXX	
17	Hidden Valley										
10		-									
10 R	Inflow (Coyote) Total Recharge	0 400				0.0 -81.0	0.00 -10.60				
T	ET	400				-01.0	-10.00	-81.0	-10.60		
6	GW Outflow (Garnet )	400						-81.0	-10.60		
xxxxxx	****	xxxxxxxx	xxxxxxx	xxxxx	****	XXXXXXXX	xxxxxx	XXXXXX	xxxxxx	xxxxxx	
16	Garnet Valley										
	-										
17	Inflow (Hidden)	400				-81.0	-10.60				
R		400	6				-10.60	_01.0	-10 60	Intor-basin fl	w from Hiddon Vallov
ARB T	Wells (Avg) ET	0	6			-96.9	-13.32	<i>-81.0</i> -81.0		mier-pasin fic	w from Hidden Valley
18	GW Outflow (California)	800							-10.60		
xxxxxx	****	xxxxxxxxx	xxxxxx	xxxxx	xxxxxxx		xxxxxx	XXXXXX	xxxxxx	XXXXXX	
18	California Wash										
19	Inflow (LMVW)	12,700				-98.7	-13.20				
5		12,100				-30.7	-13.20				•

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	
219	Inflow (Muddy)	5,400	•			-107.2	-14.29				
216	Inflow (Garnet)	800				-81.0	-10.60				
218 TR	SW Inflow (Muddy) Total Recharge	34,000 100				-82.0	-10.60				
CARB	Carbonate Well (Avg)	100				-02.0 -99.0	-13.45	-103.8	-13 82	Weighted Aver	age of Infterbasin flow from Garnet and Upper Moapa Valleys
ET	ET	1,000				-55.0	10.40	-100.3	-13.38	Treighted Aven	ige of initerbasin new new concertaine opper meaper valleys
220	GW Outflow (Lower Moapa)	21,300						-100.3	-13.38		
215	GW Outflow (Black Mtn Area)	0						-100.3	-13.38		
220	SW Outflow (Lower Moapa)	30,700									
xxxxxxxx	*****	XXXXXXXX	xxxxxxx	XXXXXXX		(XXXX)	(XXXXXI)	XXXXX X	XXXXX	xxxxxx	
215	Black Mountains Area										
218	Inflow (California Wash)	0				-100.3	-13.38				
TR	Total Recharge	100				-85.0	-10.95				
CARB	Carbonate Spr (Avg)	1,700 <b>0</b>	13			-91.3	-12.01	-85.0		Weighted Avera	age of Inflow from Califronia Wash plus recharge from Muddy Mountains
ET 999	ET GW Outflow (Colorado River)	100						-85.0 -85.0	-10.95 -10.95		
	xxxxxxxxxxxxxxxxxxxxxxxx		xxxxxxx	XXXXXXXXX		xxxx	xxxxx			xxxxxx	
220	Lower Moapa Valley										
219 218	Inflow (Muddy)	21,300 30,700				-107.2	-14.29				
TR	SW Inflow (Muddy) Total Recharge	30,700 100				-88.3	-12.50				
CARB	Carbonate Well (Avg)	100	2			-91.0	-12.58	-107.2	-14.29	Inter-basin flow	rfrom Lower Meadow Valley Wash
ET	ET	24,000						-107.1	-14.29		
999	GW Outflow (Colorado River)	21,100						-107.1	-14.29		
999	SW Outflow (Colorado River)	7,000									
XXXXXXXX	*****	XXXXXXXX	xxxxxxx	xxxxxx		xxxxo	oxxxxo	xxxxx x	XXXXX	XXXXXX	
Colorado R	Lake Mead (Colorado River)										
Colorado R 210	Lake Mead (Colorado River) GW Inflow (Black Mountains Area)	0				0.0	0.00				
210 205		0 21,100				0.0 -107.1	<b>0.00</b> -14.29				
210	GW Inflow (Black Mountains Area)							-107.1	-14.29		
210 205 999	GW Inflow (Black Mountains Area) GW Inflow (Lower Moapa) Groundwater Total	21,100 21,100						-107.1	-14.29		
210 205 999 205	GW Inflow (Black Mountains Area) GW Inflow (Lower Moapa)	21,100						-107.1	-14.29		
210 205 999 205 999	GW Inflow (Black Mountains Area) GW Inflow (Lower Moapa) Groundwater Total SW Inflow (Lower Moapa) Surfacewater Total	21,100 21,100 7,000 7,000						-107.1	-14.29		
210 205 999 205 999 999	GW Inflow (Black Mountains Area) GW Inflow (Lower Moapa) Groundwater Total SW Inflow (Lower Moapa) Surfacewater Total Inflow Total	21,100 21,100 7,000 7,000 28,100				-107.1	-14.29				
210 205 999 205 999 999	GW Inflow (Black Mountains Area) GW Inflow (Lower Moapa) Groundwater Total SW Inflow (Lower Moapa) Surfacewater Total	21,100 21,100 7,000 7,000 28,100		XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	-107.1	-14.29			XXXXXXX	
210 205 999 205 999 999	GW Inflow (Black Mountains Area) GW Inflow (Lower Moapa) Groundwater Total SW Inflow (Lower Moapa) Surfacewater Total Inflow Total	21,100 21,100 7,000 7,000 28,100	*****	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXX	-107.1	-14.29			XXXXXX	
210 205 999 205 999 999 209	GW Inflow (Black Mountains Area) GW Inflow (Lower Moapa) Groundwater Total SW Inflow (Lower Moapa) Surfacewater Total Inflow Total	21,100 21,100 7,000 7,000 28,100	****	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXX	-107.1	-14.29			XXXXXXX	
210 205 999 205 999 999 XXXXXXXX 183 0 TR	GW Inflow (Black Mountains Area) GW Inflow (Lower Moapa) Groundwater Total SW Inflow (Lower Moapa) Surfacewater Total Inflow Total XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	21,100 21,100 7,000 28,100 XXXXXXXX 0 13,000	****	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	-107.1 (XXXXX)	-14.29	XXXXX X	XXXXX	XXXXXX	
210 205 999 205 999 999 XXXXXXXXX 183 0 TR ET	GW Inflow (Black Mountains Area) GW Inflow (Lower Moapa) Groundwater Total SW Inflow (Lower Moapa) Surfacewater Total Inflow Total XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	21,100 21,100 7,000 28,100 XXXXXXXX 0 13,000 9,000	xxxxxxx	XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	-107.1 (XXXX0) 0.0	-14.29	-106.2	-14.24	XXXXXX	
210 205 999 205 999 999 XXXXXXXX 183 0 TR ET 202	GW Inflow (Black Mountains Area) GW Inflow (Lower Moapa) Groundwater Total SW Inflow (Lower Moapa) Surfacewater Total Inflow Total XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	21,100 21,100 7,000 28,100 XXXXXXXXX 0 13,000 9,000 4,000				-107.1 ()()()()()()()()()()()()()()()()()()()	-14.29 ((((((((((((((((((((((((((((((((((((	-106.2 -106.2	-14.24 -14.24		
210 205 999 205 999 999 XXXXXXXX 183 0 TR ET 202	GW Inflow (Black Mountains Area) GW Inflow (Lower Moapa) Groundwater Total SW Inflow (Lower Moapa) Surfacewater Total Inflow Total XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	21,100 21,100 7,000 28,100 XXXXXXXXX 0 13,000 9,000 4,000				-107.1 ()()()()()()()()()()()()()()()()()()()	-14.29 ((((((((((((((((((((((((((((((((((((	-106.2 -106.2	-14.24 -14.24		
210 205 999 205 999 999 XXXXXXXX 183 0 TR ET 202	GW Inflow (Black Mountains Area) GW Inflow (Lower Moapa) Groundwater Total SW Inflow (Lower Moapa) Surfacewater Total Inflow Total XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	21,100 21,100 7,000 28,100 XXXXXXXXX 0 13,000 9,000 4,000				-107.1 ()()()()()()()()()()()()()()()()()()()	-14.29 ((((((((((((((((((((((((((((((((((((	-106.2 -106.2	-14.24 -14.24		
210 205 999 999 999 XXXXXXXX 183 0 TR ET 202 XXXXXXXXX 202 183	GW Inflow (Black Mountains Area) GW Inflow (Lower Moapa) Groundwater Total SW Inflow (Lower Moapa) Surfacewater Total Inflow Total XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	21,100 21,100 7,000 28,100 XXXXXXXXX 0 13,000 9,000 4,000				-107.1 ()()()()()()()()()()()()()()()()()()()	-14.29 ((((((((((((((((((((((((((((((((((((	-106.2 -106.2	-14.24 -14.24		
210 205 999 999 XXXXXXXX 183 0 TR ET 202 XXXXXXXXX 202	GW Inflow (Black Mountains Area) GW Inflow (Lower Moapa) Groundwater Total SW Inflow (Lower Moapa) Surfacewater Total Inflow Total XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	21,100 21,100 7,000 28,100 XXXXXXXX 0 13,000 9,000 4,000				-107.1 (XXXXX) 0.0 -106.2 (XXXX)	-14.29 (XXXXXX) 0.00 -14.24 (XXXXX)	-106.2 -106.2	-14.24 -14.24 (XXXXX		

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O	IC	
203	GW Outflow (Panaca)	9,900						-101.4	-13.51		
XXXXXXXX	*****	XXXXXXXXX	(XXXXXX)	XXXXXX	XXXXXXXX	UXXXXXXD	(XXXXX)	XXXXXX	XXXXXX	XXXXXX	
201	Spring Valley										
0	Inflow (None)	0				0.0	0.00				
TR	Total Recharge	10,000				-99.4	-13.26				
ET	ET	10,000						-99.4	-13.26		
200	GW Outflow (Eagle)	0						-99.4	-13.26		
XXXXXXXX	*****	XXXXXXXXX	(XXXXXX)	XXXXXX	XXXXXXXX	UXXXXXXD	(XXXXXC	XXXXXX	XXXXXX	XXXXXX	
200	Eagle Valley										
201	Inflow (Spring)	0				-99.4	-13.26				
TR	Total Recharge	1,300				-98.9	-13.20				
ET 199	ET GW Outflow (Rose)	1,000 <b>300</b>						-98.9 -98.9	-13.20 -13.20		
199	Gw Outliow (Rose)	300						-90.9	-13.20		
XXXXXXXX	****	XXXXXXXXX	(XXXXXX)	XXXXXX	XXXXXXXX		(XXXXX)	XXXXXX	XXXXXX	XXXXXX	
199	Rose Valley										
200	Inflow (Eagle)	300				-98.9	-13.20				
TR	Total Recharge	0				-98.6	-13.14				
ET	ET	100						-98.9	-13.20		
198	GW Outflow (Dry)	200						-98.9	-13.20		
XXXXXXXX	*****	XXXXXXXXX	(XXXXXX)	XXXXXX	xxxxxxx	UXXXXXXD	(XXXXXX)	XXXXXX	XXXXXX	XXXXXX	
198	Dry Valley										
199	Inflow (Rose)	200				-98.9	-13.20				
TR	Total Recharge	1,500				-96.9	-12.99				
ET	ET	1,000						-97.1	-13.02		
203	GW Outflow (Panaca)	700						-97.1	-13.02		
XXXXXXXX	*****	XXXXXXXXX	(XXXXXX)	XXXXXX	XXXXXXXX	UXXXXXXD	(XXXXXC	XXXXXX	XXXXXX	XXXXXX	
204	Clover Valley										
0	Inflow (None)	0				0.0	0.00				
TR	Total Recharge	1,800				-92.1	-12.47				
ET	ET	0						-92.1	-12.47		
205	GW Outflow (LMVW)	1,800						-92.1	-12.47		
xxxxxxxx	****	XXXXXXXXX	(XXXXXX)	XXXXXX	xxxxxxx		(XXXXX)	XXXXXX	xxxxx	XXXXXX	
203	Panaca Valley										
202	Inflow (Patterson)	9,900				-101.4	-13.51				
198	Inflow (Dry)	700				-97.1	-13.02				
TR	Total Recharge	1,900			<b>.</b> .	<b>-96.8</b>	-12.95		10 5		
Warm Warm	Bennett Spring	20 0	1 8	141 129	Spring Spring	-103.0	-13.70 -14.44	-101.4 -106.2			v from Patterson Val v from Lake Valley
Warm	Caliente Hot Springs (Hotel) Panaca Spring	0 7700	8 13	129	Spring Spring	-107.9 -106.9	-14.44 -14.14	-106.2 -106.2			w from Lake Valley w from Lake Valley
ET	ET	2,000	10	1-1-1	oping	-100.9	- 14, 14	-100.2	-14.24		a nom Lake valley
205	GW Outflow (LMVW)	12,500						-100.5	-13.40		
VVVVVVVV		VVVVVVV	~~~~~	www	~~~~~		~~~~~	~~~~~	~~~~~	VVVVVV	
XXXXXXXX	****	XXXXXXXXX		XXXXXX	******	TXXXXXXXO	XXXXX	XXXXXX	XXXXXX	XXXXXX	

Region	Name	Volume Arce-ft/yr		Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC		
205	Lower Meadow Valley Wash											
203	Inflow (Panaca)	12,500				-100.5	-13.40					
204	Inflow (Clover)	1,800				-92.1	-12.47					
TR	Total Recharge	1,400				-91.1	-12.29					
Warm	Kershaw-Ryan Spring #1		1	250	Spring	-95.1	-13.11	-99.4	-13.28 V	Neighted	Ave	rage of Infterbasin flow from Garnet and Upper Moapa Valleys
Warm	EH-6 Weiser Wash		1	59	Well	-99.5	-13.90			•		
Warm	EH-8 Weiser Wash		1	57	Well	-96.5	-13.70					
Alluvial Well	Railroad Well (Farrier, NV)		1	80	Well	-97.5	-12.50					
ET	ET	1,000						-98.7	-13.20			
206	GW Outflow (Upper Moapa)	0						-98.7	-13.20			
218	GW Outflow (California Wash)	12,700						-98.7	-13.20			

					issance Serie		-				
Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O	IC	
XXXXXXXX	*****			XXXXX				-		XXXXXX	
175	Long Valley										
0	Inflow (None)	0				0.0	0.00				
TR	Total Recharge	10,300				-121.7	-15.85				
ET 174	ET GW Outflow (Jakes)	2,000 8,300						-121.7 -121.7	-15.85 -15.85		
174	GW Outnow (Jakes)	0,300						-121.7	-15.65		
XXXXXXXX	*****	XXXXXXXXX	(XXXXXXX)	XXXXX	«XXXXXXXXXX	XXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
174	Jakes Valley										
175	Inflow (Long)	8,300				-121.7	-15.85				
TR	Total Recharge	17,000				-119.7	-15.66				
ET 207N	ET GW Outflow (NWRV)	0 25,300						-119.7 -120.3	-15.66 -15.72		
2071	Gw Gullow (NWKV)	23,300						-120.5	-13.72		
XXXXXXXX	*****	XXXXXXXXX	(XXXXXX)	(XXXXX)	«XXXXXXXXXX	XXXXXXX		XXXXXX	XXXXXX	XXXXXX	
180	Cave Valley										
0	Inflow (None)	0				0.0	0.00				
TR	Total Recharge	14,000				-106.6	-14.28				
ET	ET	200			<b>.</b>			-106.6	-14.28		
Well Well	180W902 180W501		1	601 600	Deep Well Deep Well	-104.7 -105.6	-14.12 -14.12				
181	GW Outflow (Dry Lake)	0		000	Deep wen	-105.0	-14.12	-106.6	-14.28		
207S	GW Outflow (SWRV)	13,800						-106.6	-14.28		
xxxxxxx	*****	XXXXXXXXX	xxxxxx	(XXXXX)	«XXXXXXXXXX	XXXXXX	XXXXXX	xxxxxx	xxxxx	xxxxxx	
207N	North White River Valley										
174	Inflow (Jakes)	25,300				-120.3	-15.72				
TR	Total Recharge	25,700	2			-113.7	-15.16				
Warm	Discharge Warm Sprs (Avg)	8,900	14			-122.6	-15.92	-120.3	-15.72	Inter-basin	flow from Jakes Valley
ET	ET	22,000						-113.7	-15.16		
207S	GW Outflow (SWRV)	29,000						-119.5	-15.65		
xxxxxxx	****	XXXXXXXXX	xxxxxx	XXXXX	×xxxxxxx	XXXXXXX	XXXXXX	xxxxxx	xxxxx	XXXXXX	
207S	South White River Valley	WRV Tot Re	charge								
207N	Inflow (N White River)	38,000 29,000				-119.5	-15.65				
180	Inflow (Cave)	13,800				-106.6	-14.28				
TR	Total Recharge	12,300					-14.18				
Warm	Discharge Warm Sprs (Avg) ET	13,200				-119.2	-15.71				flow from Northern White River
ET 208	E I GW Outflow (Pahroc)	13,000 42,100						-107.2	-14.24 -15.21		
208	GW Outflow (Garden Valley)	42,100							-15.21		
200							VVVVVV	*****	*****	******	
	****	XXXXXXXXXX	(XXXXXXX)	XXXXX	~^^^^^			~~~~~			
xxxxxxxx	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXX	(XXXXXX)	KXXXX	~~~~~						
		0	(XXXXXXX)	KXXXX	~~~~~		-15.21				

Region TR	Name Total Recharge	Volume Arce-ft/yr 10,000	# of Samples	Site#	Site Type	Obs. δD -104.5	Obs. δ18Ο -14.06	Calc. δD	Calc. δ18O	IC		
ET 171	ET GW Outflow (Coal)	2,000 8,000						-104.5 -104.5	-14.06 -14.06			
~~~~~~		~~~~~	~~~~~~	~~~~	~~~~~~	vvvvvv	<u>vvvvvv</u> ,	~~~~~	~~~~~	~~~~~		
			~~~~~	~~~~	~^^^^	~~~~	~~~~	~~~~~	~~~~~	~~~~~		
171	Coal Valley											
172	Inflow (Garden)	8,000				-104.5	-14.06					
172 TR	Inflow (SWRV)	0				-115.3 <b>-98.7</b>	-15.21 -13.05					
Carb Well	Total Recharge USGS-MX C.V. Well (CV-DT-1)	2,000	2	176	Well	-109.0	-14.56	-104.5	-14.06	Underflow	v from	n Garden Valley
ET	ET	0	-		Wen	105.0	14.50	-98.7	-13.05	onacinov		Galden valley
208	GW Outflow (Pahranagat)	10,000						-103.4	-13.85			
		XXXXXXXXX	XXXXXXXX	KXXXX	XXXXXXXXXXX	XXXXXX	XXXXXX	XXXXXXX	XXXXXX	XXXXXX		
208	Pahroc Valley											
207S	Inflow (S. White River)	42,100				-115.3	-15.21					
TR	Total Recharge	2,200	2			-96.8	-12.80					
ET	ET	0						-96.8	-12.80			
209	GW Outflow (Pahranagat)	44,300						-114.4	-15.09			
******	****	XXXXXXXXX	******	XXXXX	******	XXXXXX	xxxxxx	XXXXXXX	*****	<b>XXXXXX</b>		
209	Pahranagat Valley											
208	Inflow (Pahroc)	44,300				-114.4	-15.09					
171	Inflow (Coal)	10,000				-103.4	-13.85					
000		0,000					40.00					
209 TD	Inflow (Delamar)	6,200				-97.7	-12.96					
TR	Total Recharge	1,800	31			-97.7 <b>-97.4</b>	-13.83	-114 4	-15 09	Inter-hasi	n flov	r from Pabroc Valley
		1,800 25,400	31			-97.7		-114.4 -109.9	<i>-15.09</i> -14.61	Inter-basi	n flov	r from Pahroc Valley
TR Warm	Total Recharge Discharge Warm Springs (Avg)	1,800	31 1	608	Deep Well	-97.7 <b>-97.4</b>	-13.83		-14.61			/ from Pahroc Valley / from Pahroc Valley
TR Warm ET	Total Recharge Discharge Warm Springs (Avg) ET	1,800 25,400		608	Deep Well	-97.7 -97.4 -108.9	-13.83 -14.26	-109.9	-14.61			-
TR Warm ET Well 210	Total Recharge Discharge Warm Springs (Avg) ET 209M-1 GW Outflow (Coyote Spr)	1,800 25,400 25,000 37,300	1			-97.7 -97.4 -108.9 -104.7	-13.83 -14.26 -13.53	-109.9 -114.4 -110.9	-14.61 - <i>15.0</i> 9 -14.67	Inter-basi		-
TR Warm ET Well	Total Recharge Discharge Warm Springs (Avg) ET 209M-1 GW Outflow (Coyote Spr)	1,800 25,400 25,000 37,300	1		Deep Well	-97.7 -97.4 -108.9 -104.7	-13.83 -14.26 -13.53	-109.9 -114.4 -110.9	-14.61 - <i>15.0</i> 9 -14.67	Inter-basi		-
TR Warm ET Well 210	Total Recharge Discharge Warm Springs (Avg) ET 209M-1 GW Outflow (Coyote Spr)	1,800 25,400 25,000 37,300	1			-97.7 -97.4 -108.9 -104.7	-13.83 -14.26 -13.53	-109.9 -114.4 -110.9	-14.61 - <i>15.0</i> 9 -14.67	Inter-basi		-
TR Warm ET Well 210 XXXXXXXX 181 180	Total Recharge Discharge Warm Springs (Avg) ET 209M-1 GW Outflow (Coyote Spr) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1,800 25,400 25,000 37,300 XXXXXXXXX 0	1			-97.7 -97.4 -108.9 -104.7 XXXXXXX	-13.83 -14.26 -13.53 XXXXXXX	-109.9 -114.4 -110.9	-14.61 - <i>15.0</i> 9 -14.67	Inter-basi		-
TR Warm ET 210 XXXXXXX 181 180 TR	Total Recharge Discharge Warm Springs (Avg) ET 209M-1 GW Outflow (Coyote Spr) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1,800 25,400 25,000 37,300 XXXXXXXX	1 XXXXXXXX	KXXXX	*****	-97.7 -97.4 -108.9 -104.7 XXXXXXX 0.0 -98.9	-13.83 -14.26 -13.53 XXXXXXX 0.00 -13.10	-109.9 -114.4 -110.9 XXXXXX 2	-14.61 <i>-15.09</i> -14.67	Inter-basi	n flow	r from Pahroc Valley
TR Warm ET Well 210 XXXXXXXX 181 180 TR Carb Well	Total Recharge Discharge Warm Springs (Avg) ET 209M-1 GW Outflow (Coyote Spr) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1,800 25,400 25,000 37,300 XXXXXXXXX 0	1 XXXXXXXX 2	KXXXXX 179	XXXXXXXXXXXX Well	-97.7 -97.4 -108.9 -104.7 XXXXXXX 0.0 -98.9 -107.5	-13.83 -14.26 -13.53 XXXXXXX 0.00 -13.10 -14.16	-109.9 -114.4 -110.9 XXXXXX 2	-14.61 -15.09 -14.67 XXXXXX	Inter-basi XXXXXXX Local Rec	n flow harge	r from Pahroc Valley
TR Warm ET Well 210 XXXXXXXX 181 180 TR Carb Well Carb Well	Total Recharge Discharge Warm Springs (Avg) ET 209M-1 GW Outflow (Coyote Spr) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1,800 25,400 25,000 37,300 XXXXXXXXX 0	1 XXXXXXXX 2 1	XXXXXX 179 603	XXXXXXXXXXX Well Deep Well	-97.7 -97.4 -108.9 -104.7 XXXXXXX 0.0 -88.9 -107.5 -105.0	-13.83 -14.26 -13.53 XXXXXXX 0.00 -13.10 -14.16 -13.67	-109.9 -114.4 -110.9 XXXXXX 2 -98.9 -98.9	-14.61 -15.09 -14.67 XXXXXX -13.10 -13.10	Inter-basi XXXXXX Local Rec Local Rec	n flow harge	<i>y</i> from Pahroc Valley
TR Warm ET Well 210 XXXXXXXX 181 180 TR Carb Well Carb Well Carb Well	Total Recharge Discharge Warm Springs (Avg) ET 209M-1 GW Outflow (Coyote Spr) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1,800 25,400 25,000 37,300 XXXXXXXXX 0 5,000	1 XXXXXXXX 2	KXXXXX 179	XXXXXXXXXXXX Well	-97.7 -97.4 -108.9 -104.7 XXXXXXX 0.0 -98.9 -107.5	-13.83 -14.26 -13.53 XXXXXXX 0.00 -13.10 -14.16	-109.9 -114.4 -110.9 XXXXXXX 2 -98.9 -98.9 -98.9 -98.9	-14.61 -15.09 -14.67 XXXXXX -13.10 -13.10 -13.10	Inter-basi XXXXXXX Local Rec	n flow harge	<i>y</i> from Pahroc Valley
TR Warm ET Well 210 XXXXXXXX 181 180 TR Carb Well Carb Well	Total Recharge Discharge Warm Springs (Avg) ET 209M-1 GW Outflow (Coyote Spr) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1,800 25,400 25,000 37,300 XXXXXXXXX 0	1 XXXXXXXX 2 1	XXXXXX 179 603	XXXXXXXXXXX Well Deep Well	-97.7 -97.4 -108.9 -104.7 XXXXXXX 0.0 -88.9 -107.5 -105.0	-13.83 -14.26 -13.53 XXXXXXX 0.00 -13.10 -14.16 -13.67	-109.9 -114.4 -110.9 XXXXXX 2 -98.9 -98.9	-14.61 -15.09 -14.67 XXXXXX -13.10 -13.10	Inter-basi XXXXXX Local Rec Local Rec	n flow harge	<i>y</i> from Pahroc Valley
TR Warm ET Well 210 XXXXXXXX 181 180 TR Carb Well Carb Well Carb Well ET	Total Recharge Discharge Warm Springs (Avg) ET 209M-1 GW Outflow (Coyote Spr) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1,800 25,400 25,000 37,300 XXXXXXXXX 0 5,000	1 XXXXXXXX 2 1	XXXXXX 179 603	XXXXXXXXXXX Well Deep Well	-97.7 -97.4 -108.9 -104.7 XXXXXXX 0.0 -88.9 -107.5 -105.0	-13.83 -14.26 -13.53 XXXXXXX 0.00 -13.10 -14.16 -13.67	-109.9 -114.4 -110.9 XXXXXXX 2 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9	-14.61 -15.09 -14.67 XXXXXX -13.10 -13.10 -13.10 -13.10 -13.10	Inter-basi XXXXXX Local Rec Local Rec	n flow harge	<i>y</i> from Pahroc Valley
TR Warm ET Well 210 XXXXXXXX 181 180 TR Carb Well Carb Well Carb Well Carb Well ET 209	Total Recharge Discharge Warm Springs (Avg) ET 209M-1 GW Outflow (Coyote Spr) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1,800 25,400 25,000 37,300 XXXXXXXXX 0 5,000	1 XXXXXXXX 2 1 1	179 603 604	Well Deep Well Deep Well	-97.7 -97.4 -108.9 -104.7 XXXXXX1 0.0 -98.9 -107.5 -105.0 -104.6	-13.83 -14.26 -13.53 XXXXXXX 0.00 -13.10 -14.16 -13.67 -13.50	-109.9 -114.4 -110.9 XXXXXXX X -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9	-14.61 -15.09 -14.67 XXXXXX -13.10 -13.10 -13.10 -13.10 -13.10 -13.10	Inter-basi XXXXXX Local Rec Local Rec Local Rec	n flow harge	<i>y</i> from Pahroc Valley
TR Warm ET Well 210 XXXXXXXX 181 180 TR Carb Well Carb Well Carb Well ET 209 182 XXXXXXXX	Total Recharge Discharge Warm Springs (Avg) ET 209M-1 GW Outflow (Coyote Spr) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1,800 25,400 25,000 37,300 XXXXXXXXX 0 5,000	1 XXXXXXXX 2 1 1	179 603 604	Well Deep Well Deep Well	-97.7 -97.4 -108.9 -104.7 XXXXXX1 0.0 -98.9 -107.5 -105.0 -104.6	-13.83 -14.26 -13.53 XXXXXXX 0.00 -13.10 -14.16 -13.67 -13.50	-109.9 -114.4 -110.9 XXXXXXX X -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9	-14.61 -15.09 -14.67 XXXXXX -13.10 -13.10 -13.10 -13.10 -13.10 -13.10	Inter-basi XXXXXX Local Rec Local Rec Local Rec	n flow harge	<i>y</i> from Pahroc Valley
TR Warm ET Well 210 XXXXXXXX 181 180 TR Carb Well Carb Well Carb Well ET 209 182	Total Recharge Discharge Warm Springs (Avg) ET 209M-1 GW Outflow (Coyote Spr) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1,800 25,400 25,000 37,300 XXXXXXXXX 0 5,000	1 XXXXXXXX 2 1 1	179 603 604	Well Deep Well Deep Well	-97.7 -97.4 -108.9 -104.7 XXXXXX1 0.0 -98.9 -107.5 -105.0 -104.6	-13.83 -14.26 -13.53 XXXXXXX 0.00 -13.10 -14.16 -13.67 -13.50	-109.9 -114.4 -110.9 XXXXXXX X -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9	-14.61 -15.09 -14.67 XXXXXX -13.10 -13.10 -13.10 -13.10 -13.10 -13.10	Inter-basi XXXXXX Local Rec Local Rec Local Rec	n flow harge	<i>y</i> from Pahroc Valley
TR Warm ET Well 210 XXXXXXXX 181 180 TR Carb Well Carb Well Carb Well ET 209 182 XXXXXXXX	Total Recharge Discharge Warm Springs (Avg) ET 209M-1 GW Outflow (Coyote Spr) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1,800 25,400 25,000 37,300 XXXXXXXXX 0 5,000 0 5,000 XXXXXXXXXX	1 XXXXXXXX 2 1 1	179 603 604	Well Deep Well Deep Well	-97.7 -97.4 -108.9 -104.7 XXXXXX1 0.0 -98.9 -107.5 -105.0 -104.6	-13.83 -14.26 -13.53 XXXXXXX 0.00 -13.10 -14.16 -13.67 -13.50	-109.9 -114.4 -110.9 XXXXXXX X -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9	-14.61 -15.09 -14.67 XXXXXX -13.10 -13.10 -13.10 -13.10 -13.10 -13.10	Inter-basi XXXXXX Local Rec Local Rec Local Rec	n flow harge	<i>y</i> from Pahroc Valley
TR Warm ET Well 210 XXXXXXX 181 181 180 TR Carb Well Carb Well Carb Well ET 209 182 XXXXXXX 182	Total Recharge Discharge Warm Springs (Avg) ET 209M-1 GW Outflow (Coyote Spr) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1,800 25,400 25,000 37,300 XXXXXXXXX 0 5,000	1 XXXXXXXX 2 1 1	179 603 604	Well Deep Well Deep Well	-97.7 -97.4 -108.9 -104.7 XXXXXXX 0.0 -98.9 -107.5 -105.0 -104.6	-13.83 -14.26 -13.53 XXXXXXX: 0.00 -13.10 -14.16 -13.67 -13.50 XXXXXXX:	-109.9 -114.4 -110.9 XXXXXXX X -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9	-14.61 -15.09 -14.67 XXXXXX -13.10 -13.10 -13.10 -13.10 -13.10 -13.10	Inter-basi XXXXXX Local Rec Local Rec Local Rec	n flow harge	<i>y</i> from Pahroc Valley
TR Warm ET Well 210 XXXXXXXX 181 180 TR Carb Well Carb Well Carb Well Carb Well Carb Well ET 209 182 XXXXXXX 182 182 182	Total Recharge Discharge Warm Springs (Avg) ET 209M-1 GW Outflow (Coyote Spr) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1,800 25,400 25,000 37,300 XXXXXXXXXX 0 5,000 XXXXXXXXXX 5,000	1 XXXXXXXX 2 1 1	179 603 604	Well Deep Well Deep Well	-97.7 -97.4 -108.9 -104.7 XXXXXXX 0.0 -98.9 -107.5 -105.0 -104.6 XXXXXXX	-13.83 -14.26 -13.53 XXXXXXX 0.00 -13.10 -14.16 -13.67 -13.50 XXXXXXX -13.10 -12.38	-109.9 -114.4 -110.9 XXXXXXX X -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9	-14.61 -15.09 -14.67 XXXXXX -13.10 -13.10 -13.10 -13.10 XXXXX -12.38	Inter-basi XXXXXX Local Rec Local Rec Local Rec	n flow harge harge harge	y from Pahroc Valley
TR Warm ET Well 210 XXXXXXXX 181 181 180 TR Carb Well Carb Well Carb Well Carb Well Carb Well Carb Well 209 182 XXXXXXXX 182 181 TR ET Well	Total Recharge Discharge Warm Springs (Avg) ET 209M-1 GW Outflow (Coyote Spr) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1,800 25,400 25,000 37,300 XXXXXXXXX 0 5,000 XXXXXXXXXX 5,000 1,200 0	1 XXXXXXXX 2 1 1	179 603 604	Well Deep Well Deep Well	-97.7 -97.4 -108.9 -104.7 XXXXXXX 0.0 -98.9 -107.5 -105.0 -104.6 XXXXXXX	-13.83 -14.26 -13.53 XXXXXXX 0.00 -13.10 -14.16 -13.67 -13.50 XXXXXXXX	-109.9 -114.4 -110.9 XXXXXXX X -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9	-14.61 -15.09 -14.67 XXXXXX -13.10 -13.10 -13.10 -13.10 -13.10 XXXXXX -12.38 -13.10	Inter-basi XXXXXX Local Rec Local Rec Local Rec	n flow harge harge harge	<i>y from Pahroc Valley</i>
TR Warm ET Well 210 XXXXXXXX 181 180 TR Carb Well Carb Well Carb Well Carb Well Carb Well ET 209 182 XXXXXXX 182 182 182	Total Recharge Discharge Warm Springs (Avg) ET 209M-1 GW Outflow (Coyote Spr) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1,800 25,400 25,000 37,300 XXXXXXXXX 0 0 5,000 XXXXXXXXX 5,000 1,200	1 XXXXXXXX 2 1 1	179 603 604	Well Deep Well Deep Well	-97.7 -97.4 -108.9 -104.7 XXXXXXX 0.0 -98.9 -107.5 -105.0 -104.6 XXXXXXX	-13.83 -14.26 -13.53 XXXXXXX 0.00 -13.10 -14.16 -13.67 -13.50 XXXXXXX -13.10 -12.38	-109.9 -114.4 -110.9 XXXXXXX X -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9	-14.61 -15.09 -14.67 XXXXXX -13.10 -13.10 -13.10 -13.10 XXXXX -12.38	Inter-basi XXXXXX Local Rec Local Rec Local Rec	n flow harge harge harge	y from Pahroc Valley

Region	Name	Volume	# of	Site#	Site	Obs.	Obs.	Calc.	Calc.	IC
XXXXXXXX	*****	Arce-ft/yr XXXXXXXXX			Туре (XXXXXXXX	δD (XXXXXXX)	δ18O XXXXXX	δD XXXXXX	δ18O XXXXXX	XXXXXX
206	Kane Springs Valley									
0	Inflow (None)	0				0.0	0.00			
TR	Total Recharge	600				-89.0	-12.22		40.00	
ET 210	ET GW Outflow (Coyote Spr)	0 600						-89.0 -89.0	-12.22 -12.22	
	xxxxxxxxxxxxxxxxxxxxxxxx		~~~~~	~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~	<b></b>			
			~~~~~	~~~~~	~~~~~		~~~~~	~~~~~	~~~~~	~~~~~
210	Coyote Springs Valley									
209	Inflow (Pahranagat)	37,300				-110.9	-14.67			
182	Inflow (Delamar)	0				0.0	0.00			
206	Inflow (Kane Springs)	600				-89.0	-12.22			
TR ET	Total Recharge ET	2,000 500				-92.6	-12.81	-92.6	-12.81	
219	GW Outflow (Muddy)	39,400						-109.8	-14.56	
217	GW Outflow (Hidden)	0						-109.8	-14.56	
216	GW Outflow (Garnet)	0						-109.8	-14.56	
xxxxxxx	*****	XXXXXXXXX	xxxxxx	xxxxxx	xxxxxxx	axxxxx	xxxxx	XXXXXX	xxxxx	XXXXXX
219	Upper Moapa (Muddy) Valley									
205	Inflow (LMVW)	0				0.0	0.00			
210	Inflow (Coyote)	39,400				-109.8	-14.56			
TR	Total Recharge	0				-87.3	-11.86			
Warm	Dicharge Warm Sprs (Avg)	8,300	49			-97.8	-12.90	-109.8		Flow weighted
CARB	Deep Carbonate Well (Avg)	Input into N	4			-97.9	-12.97	-109.8		Flow weighted
ET Gage	ET Moapa Gage	0 34,000						-87.3	-11.86	
218	SW Outflow (California)	34,000						-109.8	-14.56	
218	GW Outflow (California)	5,400						-109.8	-14.56	
XXXXXXXX	*****	XXXXXXXX	xxxxxx	XKXXXX		(XXXXXXX)	XXXXXX	XXXXXX	xxxxx	XXXXXXX
217	Hidden Valley									
210	Inflow (Coyote)	0				-109.8	-14.56			
TR	Total Recharge	400				-81.0	-10.60			
ET	ET	0						-81.0	-10.60	
216	GW Outflow (Garnet)	400						-81.0	-10.60	
XXXXXXXX	*****	XXXXXXXX	xxxxxx	xxxxxx	xxxxxxx	axxxxxx	xxxxx	XXXXXX	xxxxx	XXXXXX
216	Garnet Valley									
217	Inflow (Hiddon)	400				.91.0	-10 60			
217 TR	Inflow (Hidden) Total Recharge	400 400				-81.0 - 81.0	-10.60 -10.60			
CARB	Wells (Avg)	400	6			-96.9	-13.32	-81.0	-10.60	Inter-basi <mark>n flo</mark>
ET	ET	0						-81.0	-10.60	
218	GW Outflow (California)	800						-81.0	-10.60	
XXXXXXXX	****	XXXXXXXXX	xxxxxx	xxxxxx	xxxxxxx	axxxxxx	xxxxx	XXXXXX	XXXXXX	XXXXXX
218	California Wash									
219	Inflow (LMVW)	12,700				-99.8	-13.33			
219	Inflow (Muddy)	5,400					-14.56			
	initer (inddy)	0,400				10010	14.00			

Region 216 218 TR CARB ET 220 215 220	Name Inflow (Garnet) SW Inflow (Muddy) Total Recharge Carbonate Well (Avg) ET GW Outflow (Lower Moapa) GW Outflow (Black Mtn Area) SW Outflow (Lower Moapa)	Volume Arce-ft/yr 800 34,000 100 1,000 21,300 0 30,700	Samples	Site#	Site Type	Obs. δD -81.0 -99.0	Obs. 8180 -10.60 -10.60 -13.45	Calc. δD -106.1 -99.9 -101.9 -101.9	-13.3 -13.57 -13.57	-	l Avera	age of Infterbasin flow from Garnet and Upper Moapa Valleys
215 218 TR CARB ET 999	Black Mountains Area Inflow (California Wash) Total Recharge Carbonate Spr (Avg) ET GW Outflow (Colorado River)	0 100 1,700 0 100	13			-101.9 -85.0 -91.3	-13.57 -10.95 -12.01	-85.0 -85.0 -85.0	-10.95 -10.95 -10.95	Weighted	l Avera	age of Inflow from Califronia Wash plus recharge from Muddy Mountains
220 219 218 TR CARB ET 999 999	Lower Moapa Valley Inflow (Muddy) SW Inflow (California Wash) Total Recharge Carbonate Well (Avg) ET GW Outflow (Colorado River) SW Outflow (Colorado River)	21,300 30,700 100 24,000 19,100 9,000	2			-101.9 -88.3 -91.0	-13.57 -12.50 -12.58	-101.9 -101.8 -101.9	-13.57 -13.56 -13.57	Inter-basi	in flow	r from Lower Meadow Valley Wash
XXXXXXXXX	*****	XXXXXXXX	XXXXXXX	«XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXX	XXXXXX	XXXXXD	XXXXX X	XXXXX	XXXXXX		
Colorado R 210 205 999 205 999 999	Lake Mead (Colorado River) GW Inflow (Black Mountains Area) GW Inflow (Lower Moapa) Groundwater Total SW Inflow (Lower Moapa) Surfacewater Total Inflow Total	100 19,100 19,200 9,000 9,000 28,200				-85.0 -101.9	-10.95 -13.57	-101.8	-13.55			
Colorado R 210 205 999 205 999 999	Lake Mead (Colorado River) GW Inflow (Black Mountains Area) GW Inflow (Lower Moapa) Groundwater Total SW Inflow (Lower Moapa) Surfacewater Total	100 19,100 19,200 9,000 9,000 28,200				-85.0 -101.9	-10.95 -13.57	-101.8	-13.55 XXXXX -14.24			

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC
XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			KXXXXX						XXXXXX
201	Spring Valley									
)	Inflow (None)	0				0.0	0.00			
TR	Total Recharge	10,000				-99.4	-13.26			
т	ET	10,000						-99.4	-13.26	
00	GW Outflow (Eagle)	0						-99.4	-13.26	
XXXXXXX	*****	XXXXXXXXX	XXXXXXXX	«XXXXX	XXXXXXXX	XXXXXXX	XXXXXX	xxxxx	xxxxx	XXXXXX
00	Eagle Valley									
01	Inflow (Spring)	0				-99.4	-13.26			
TR	Total Recharge	1,300				-98.9	-13.20			
Т	ET	1,000						-98.9	-13.20	
199	GW Outflow (Rose)	300						-98.9	-13.20	
XXXXXXX	*****	XXXXXXXXX	XXXXXXX	«XXXXXX	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
9	Rose Valley									
00	Inflow (Eagle)	300				-98.9	-13.20			
TR	Total Recharge	0				-98.6	-13.14			
ET	ET	100						-98.6	-13.14	
98	GW Outflow (Dry)	200						-98.9	-13.20	
xxxxxx	*****	XXXXXXXXX	xxxxxx	(XXXXXX	XXXXXXXX	XXXXXXX	xxxxx	xxxxx	xxxxx	xxxxxx
8	Dry Valley									
99	Inflow (Rose)	200				-98.9	-13.20			
R	Total Recharge	1,500				-96.9	-12.99			
Г	ET	1,000						-96.9	-12.99	
3	GW Outflow (Panaca)	700						-97.4	-13.05	
xxxxxx	*****	xxxxxxxx	xxxxxx	«xxxxx	xxxxxxx	xxxxxx	xxxxx	xxxxxx	xxxxxx	xxxxxx
04	Clover Valley									
	Inflow (None)	0				0.0	0.00			
R	Total Recharge	1,800				-92.1	-12.47			
т	ET	0						-92.1	-12.47	
5	GW Outflow (LMVW)	1,800						-92.1	-12.47	
xxxxxx	*****	XXXXXXXXX	xxxxxx	(XXXXXX	XXXXXXXX	XXXXXXX	xxxxx	xxxxx	xxxxx	xxxxxx
203	Panaca Valley									
202	Inflow (Patterson)	9,900				-101.5	-13.52			
198	Inflow (Dry)	700				-97.4	-13.05			
R	Total Recharge	1,900				-96.8	-12.95			
/arm	Bennett Spring	20	1	141	Spring	-103.0	-13.70	-101.5	-13.52	Inter-basin
/arm	Caliente Hot Springs (Hotel)	0	8	129	Spring	-107.9	-14.44	-106.2		Inter-basi <mark>r</mark>
/arm	Panaca Spring	7700	13	144	Spring	-106.9	-14.14	-106.2		Inter-basi <mark>r</mark>
Т	ET	2,000						-97.1	-12.98	
)5	GW Outflow (LMVW)	12,500						-101.2	-13.49	
XXXXXXX	*****	XXXXXXXX	xxxxxx	«xxxxx	XXXXXXXXX	XXXXXXX	XXXXXX	xxxxxx	xxxxxx	xxxxxx
05	Lower Meadow Valley Wash									

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC					
		-			.,,,,,										
203	Inflow (Panaca)	12,500				-101.2	-13.49								
204	Inflow (Clover)	1,800				-92.1	-12.47								
TR	Total Recharge	1,400				-91.1	-12.29								
Warm	Kershaw-Ryan Spring #1		1	250	Spring	-95.1	-13.11	-100.0	-13.36 We	eightea	l Avera	ge of Infterbasin flo	ow from Garnet	and Upper Moa	pa Valleys
Warm	EH-6 Weiser Wash		1	59	Well	-99.5	-13.90								
Warm	EH-8 Weiser Wash		1	57	Well	-96.5	-13.70								
Alluvial Well	Railroad Well (Farrier, NV)		1	80	Well	-97.5	-12.50								
ET	ET	1,000						-91.1	-12.29						
206	GW Outflow (Upper Moapa)	0						-99.8	-13.33						
218	GW Outflow (California Wash)	12,700						-99.8	-13.33						
XXXXXXXX	000000000000000000000000000000000000000	CXXXXXXXX	XXXXXXX	KXXXXX	XXXXXXXX	XXXXXXX	XXXXX	XXXXXX	XXXXXX XX	XXXXX					

APPENDIX 2. Detailed isotope mass-balance models showing: (1) estimates of recharge amounts and their average deuterium and oxygen-18 values; (2) estimates of pre-development ET amounts and their average deuterium and oxygen-18 values; and (3) all the sites that were used to calculate average deuterium and oxygen-18 values for recharge areas and regional warm spring areas.

					A (2007 Wa					
Region	Name	Volume Arce-ft/yr	# Of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O	IC
xxxxxxx	*****			KXXXXX						XXXXXX
175	Long Valley									
175										
	Inflow (None)	0				0.0	0.00			
175 SE 175 SW	Butte Mtn. (S)	2,507				-119.6 -122.4	-15.53 -15.96			35 36
75 SW 75 NW	Alligator Rdg. Maverick Springs	3,496 10,881				-122.4	-15.96			30
175 NE	Butte Mtn. (N)	3,044				-119.2	-15.36			164
R	Total Recharge	19,900				-122.4	-15.96			
SE	Butte Spring		1	327	Spring	-120.4	-15.79			
SE .	Cabin Spring		1	328	Spring	-124.4	-15.89			
SE .	Robbers Roost #2 Spring (Butte)		1	340	Spring	-112.0	-14.39			
E	Deer Spring (Butte)		1	332	Spring	-114.1	-14.74			
SE	Summit Spring		1	348	Spring	-120.8	-15.94			
SE NVV	Thirty Mile Spring Mud Spring (Buck Mts)		1	242 339	Spring Spring	-126.0 -117.6	-16.40 -15.21			
NW	Ram. Res. Wtr Supply Well		1	244	Well	-129.5	-16.75			
NW	Unnamed Near Little Willow Spring		1	351	Spring	-125.9	-17.04			
W	Well at Alligator Ridge		1	243	Well	-127.0	-16.60			
W	Woodchuck Spring		1	356	Spring	-119.6	-15.55			
NE	White Rock Spring (Butte)		1	355	Spring	-119.2	-15.36			
ET	ET	3,000						-122.4	-15.96	
154	GW Outflow (Newark)	0						-122.4	-15.96	
174	GW Outflow (Jakes)	16,900						-122.4	-15.96	
XXXXXXX	*****	XXXXXXXXX	XXXXXXX	KXXXXXX	XXXXXXXX	XXXXXX	(XXXXX)	(XXXXX)	XXXXX	XXXXXX
174	Jakes Valley									
75	Inflow (Long)	16,900				-122.4	-15.96			
74 E	Egan Range	2,722				-118.4	-15.31			33
74 W	North White Pine	9,567				-120.3	-15.83			34
R	Total Recharge	12,300				-119.9	-15.71			
/	Tunnel Spring		1	366	Spring	-118.3	-15.02			
1	Aspen Springs North		1	349	Spring	-119.3	-15.84			
1	Aspen Springs South Chicken Spring		1	324 330	Spring Spring	-120.9 -122.0	-16.02 -16.17			
Ň	Circle Wash Spring		1	331	Spring	-114.5	-15.30			
N	Sage Hen Spring		1	342	Spring	-112.4	-14.76			
N	Sand Spring		1	239	Spring	-123.0	-16.20			
V	Shellback Spring		1	344	Spring	100.0	-16.54			
N	Unnamed Hayden Canyon Spring				Spring	-123.6				
N			1	350	Spring	-120.9	-15.69			
	Unnamed Shellback Ridge Spring		1	352	Spring Spring	-120.9 -123.6	-15.69 -16.18			
/	Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine)		1	352 240	Spring Spring Spring	-120.9 -123.6 -129.0	-15.69 -16.18 -16.80			
V V	Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring		1 2	352 240 354	Spring Spring Spring Spring	-120.9 -123.6 -129.0 -116.2	-15.69 -16.18 -16.80 -15.39			
V V V/E	Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte)		1 2 1	352 240 354 334	Spring Spring Spring Spring Spring	-120.9 -123.6 -129.0 -116.2 -119.1	-15.69 -16.18 -16.80 -15.39 -15.31			
V V V/E V/E	Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring		1 2 1 1	352 240 354 334 343	Spring Spring Spring Spring Spring Spring	-120.9 -123.6 -129.0 -116.2 -119.1 -117.6	-15.69 -16.18 -16.80 -15.39 -15.31 -15.30	Surface W	ater not ir	ncluded in re
V V V/E V/E V	Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte)	400	1 2 1	352 240 354 334	Spring Spring Spring Spring Spring	-120.9 -123.6 -129.0 -116.2 -119.1	-15.69 -16.18 -16.80 -15.39 -15.31 -15.30	Surface W	ater not ir -15.86	ncluded in re
N N/E N/E N ET	Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk	400 28,800	1 2 1 1	352 240 354 334 343	Spring Spring Spring Spring Spring Spring	-120.9 -123.6 -129.0 -116.2 -119.1 -117.6	-15.69 -16.18 -16.80 -15.39 -15.31 -15.30			ncluded in re
N N N/E N/E N ET 207N	Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET	28,800	1 2 1 1 2	352 240 354 334 343 238	Spring Spring Spring Spring Spring Spring Surface	-120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.69 -16.18 -16.80 -15.39 -15.31 -15.30 -16.10 \$	-121.3 -121.3	-15.86 -15.86	
N N/E N/E N ET 207N	Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV)	28,800	1 2 1 1 2	352 240 354 334 343 238	Spring Spring Spring Spring Spring Spring Surface	-120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.69 -16.18 -16.80 -15.39 -15.31 -15.30 -16.10 \$	-121.3 -121.3	-15.86 -15.86	
V V/E V/E V T 07N XXXXXXX 80	Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 XXXXXXXX	1 2 1 1 2	352 240 354 334 343 238	Spring Spring Spring Spring Spring Spring Surface	-120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.69 -16.18 -16.80 -15.39 -15.31 -15.30 -16.10 \$	-121.3 -121.3	-15.86 -15.86	
V V/E V/E T 07N XXXXXXXX 80	Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 XXXXXXXX X 0	1 2 1 1 2	352 240 354 334 343 238	Spring Spring Spring Spring Spring Spring Surface	-120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.69 -16.18 -16.80 -15.39 -15.31 -15.30 -16.10 \$	-121.3 -121.3	-15.86 -15.86	xxxxxx
V V/E V/E V T 07N XXXXXXX 80 80 E	Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 XXXXXXXX X 0 7,132	1 2 1 1 2	352 240 354 334 343 238	Spring Spring Spring Spring Spring Spring Surface	-120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5 ••••••••••••••••••••••••••••••••••••	-15.69 -16.18 -16.80 -15.39 -15.31 -15.30 -16.10 \$ (XXXXXX) 0.00 -14.28	-121.3 -121.3	-15.86 -15.86	XXXXXX
////E ///E //T 07N XXXXXXX 80 80 E 80 E 80 W	Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 XXXXXXXX X 0 7,132 7,527	1 2 1 1 2	352 240 354 334 343 238	Spring Spring Spring Spring Spring Spring Surface	-120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.69 -16.18 -16.80 -15.39 -15.31 -15.30 -16.10 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-121.3 -121.3	-15.86 -15.86	xxxxxx
V V//E V//E V T 07N XXXXXXX 80 80 E 80 W R	Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 XXXXXXXX X 0 7,132	1 2 1 1 2	352 240 354 334 343 238	Spring Spring Spring Spring Spring Surface	-120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5 -123.5 -123.5 -105.0 -105.0 -107.8 -106.5	-15.69 -16.18 -16.80 -15.31 -15.30 -15.31 -15.30 -16.10 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-121.3 -121.3	-15.86 -15.86	XXXXXX
V V/E V/E V T T COTN CXXXXXXX 80 80 80 80 80 7 80 80 80 80 80 80 80 80 80 80 80 80 80	Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 XXXXXXXX X 0 7,132 7,527	1 2 1 1 2 (XXXXXXX)	352 240 354 334 343 238	Spring Spring Spring Spring Spring Surface	-120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5 XXXXXXXXX 0.0 -105.0 -107.8 -106.5 -105.0	-15.69 -16.18 -16.80 -15.39 -15.31 -15.30 -16.10 \$ (XXXXXX) 0.00 -14.28 -14.28 -14.28 -14.60	-121.3 -121.3	-15.86 -15.86	XXXXXX
V V/E V/E V T T COTN CXXXXXXX 80 80 80 80 80 7 80 80 80 80 80 80 80 80 80 80 80 80 80	Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 XXXXXXXX X 0 7,132 7,527	1 2 1 2 XXXXXXXX X XXXXXXXX 1 1 5	352 240 354 334 238 ***********************************	Spring Spring Spring Spring Surface XXXXXXXXXX Spring Spring	-120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5 -123.5 -105.0 -107.8 -105.5 -105.0 -108.4	-15.69 -16.18 -16.80 -15.39 -15.31 -15.30 -16.10 \$ (XXXXXX) 0.00 -14.28 -14.28 -14.28 -14.28 -14.28 -14.85	-121.3 -121.3	-15.86 -15.86	XXXXXX
N/F N/F N/F N/F N/F N/F N/F N/F N/F N/F	Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 XXXXXXXX X 0 7,132 7,527	1 2 1 1 2 (XXXXXXX)	352 240 354 334 343 238	Spring Spring Spring Spring Spring Surface	-120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5 XXXXXXXXX 0.0 -105.0 -107.8 -106.5 -105.0	-15.69 -16.18 -16.80 -15.39 -15.31 -15.30 -16.10 \$ (XXXXXX) 0.00 -14.28 -14.28 -14.28 -14.60	-121.3 -121.3	-15.86 -15.86	XXXXXX
N//E N//E N/E N/E N/E N/E N/E N/E N/E N/	Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	28,800 XXXXXXXX X 0 7,132 7,527	1 2 1 2 XXXXXXX (XXXXXXX) 1 15 4	352 240 334 343 238 **********************************	Spring Spring Spring Spring Surface XXXXXXXXX Spring Spring Spring Spring	-120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5 -123.5 -105.0 -107.8 -106.5 -105.0 -108.4 -107.3	-15.69 -16.18 -16.80 -15.39 -15.31 -15.30 -16.10 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-121.3 -121.3	-15.86 -15.86	XXXXXX

W	Big Spring (Egan)		4	206	Spring	-105.5	-13.90	_
W	Chimney Rock Spring		2	219	Spring	-110.5	-14.52	
W	Granite Spring		1	440	Spring	-103.4	-13.32	
W	Haggerty Spring		1	387	Spring	-109.6	-14.78	
W	Hole in the Bank Spring		1	386	Spring	-114.9	-15.37	
W	Silver Spring		2	385	Spring	-111.4	-14.71	
W	Shingle Spring		2	203	Spring	-103.7	-13.33	
W	Perry Sp Barcass 37		1	408	Spring	-107.7	-15.04	
W ET	Trough Spring ET	1,300	1	413	Spring	-103.6	-13.56	-106.5 -14.28
Well	180W902	1,300	1	601	Deep Well	-104.7	-14.12	-106.5 -14.28 Local recharge
Well	180W502		1	600	Deep Well	-104.7	-14.12	-106.5 -14.28 Local recharge
208	GW Outflow (Pahroc)	9,400	•		Deep Hen	100.0	14.14	-106.5 -14.28
207S	GW Outflow (SWRV)	4,000						-106.5 -14.28
		,						
XXXXXXX	x xxxxxxxxxxxxxxxxxxxxxxxx	(XXXXXXX X)	XXXXXX	XKXXXX	XXXXXXXXXX	XXXXXX		XXXXXX XXXXXX XXXXXX
207N	North White River Valley							
174	Inflow (Jakes)	28,800				-121.3	-15.86	
207 NE	Egan Rng North	16,085				-112.3	-15.15	38
207 NW	White Pine Rng.	11,430				-115.0	-15.18	39, 40
TR	Total Recharge	27,500				-113.4	-15.16	
NE	on Creek Spring (Unnamed Spring in Gub	ler Canyon)	1	235	Spring	-111.0	-14.90	
NE	Hole in the Bank Spring		1	386	Spring	-114.9	-15.37	
NE	Lone Pine Spring		3	223	Spring	-110.2	-14.90	
NE	High Springs		1	433	Spring	-113.4	-15.43	
NE	Lion Spring (Egan Range)		1	430	Spring	-114.8	-15.34	
NE	Mud Spring		1	446	Spring	-111.0	-14.53	
NE NE	Pine Springs (Egan Range) Unnamed Spring #1(Egan)		1	434 435	Spring Spring	-116.0 -112.2	-15.71 -15.14	
NE	Unnamed Spring #2 (Egan Range)		1	435	Spring	-112.2	-15.14	
NE	Unnamed Spring #3 (Egan Range)		1	430	Spring	-110.0	-15.07	
NE	Unnamed Spring #4 (Egan Range)		1	438	Spring	-114.0	-15.37	
NE	Unnamed Spring #5 (Egan Range)		1	445	Spring	-109.6	-14.72	
NE	North Spring		2	237	Spring	-112.4	-15.11	
NE	Second Sawmill Spring		1	222	Spring	-110.0	-14.70	
NE	South Spring (Egan)		2	236	Spring	-111.5	-15.12	
NE	Upper Terrace Spring WR2		14	270	Spring	-114.0	-15.42	
NE	Water Canyon Spring		1	358	Spring	-114.4	-15.60	
NE	Lund Spring		1	221	Spring	-113.0	-15.40	Local Valley spring not included in recharge calculation
NE	Water Canyon		2	233	Surface	-116.0		Surface Water not included in <mark>recha</mark> rge average
NW	Big Tom Plain Spring		1	326	Spring	-121.1	-15.92	
NW	Deer Spring (White Pine)		2	322	Spring	-119.3	-15.87	
NW	Unnamed Spring #1 (White Pine)		1	359	Spring	-114.8	-15.36	
NW	Unnamed Spring #2 (White Pine)		1	360	Spring	-114.9	-15.66	
NW	Unnamed Spring #3 (White Pine)		1	361	Spring	-113.1	-14.96	
NW NW	Unnamed Spring #4 (White Pine) Unnamed Spring #5 (White Pine)		1 3	362 363	Spring Spring	-116.3 -116.0	-15.01 -15.36	
NW	Unnamed Spring #6 (White Pine)		3	363 364	Spring	-116.0	-15.36	
NW	Halfway Spring (RS)		2	429	Spring	-108.7	-13.52	
NW	Easter Spring		1	365	Spring	-119.4	-15.56	
NW	Little Tom Plain Spring		2	337	Spring	-121.0	-15.86	
NW	Monitoring Spring WR1		14	320	Spring	-113.7	-15.58	
NW	Saddle Spring (White Pine)		3	357	Spring	-116.8	-15.45	
NW	Secret Spring		1	220	Spring	-110.0	-14.00	
NW	Unnamed Spring below Currant Mtn		1	226	Spring	-107.0	-14.00	
NW	Stove Spring		1	347	Spring	-114.5	-15.71	
NW	ned Spring in dry creek bed (White Pine R		1	321	Spring	-113.6	-15.31	
NW	Snowmelt Below Duckwater Peak	5,700	1	224	Surface	-105.0		Surface Water not included in recharge average
NW	Little Currant Creek	4.000	1	217	Surface	-113.0		Surface Water not included in recharge average
Warm	Cold Spring, Preston	1,000	2	230	Spring	-123.5	-15.80	
Warm	Nicholas Spring	2,000	1	227	Spring	-124.0	-16.10	
Warm Warm	Preston Big Spring Discharge Warm Sprs (Avg)	5,900 8,900	11 14	231	Spring	-122.0 -122.6	-15.88 -15.92	-121.3 -15.86 Inter-basin flow from Jakes Valley
ET	ET	20,500				-122.0	-13.32	-121.3 -15.50 inter-basin now from Jakes valley
2075	GW Outflow (SWRV)	35,800						-117.5 -15.52
XXXXXXX	× ××××××××××××××××××××××××××××××××××××	*****	*****	XXXXXX	*******	XXXXXX	XXXXXX	*****
207S	South White River Valley	WRV Tot Recl	narge					

		41,000					-
207N	Inflow (N White River)	35,800				-117.5	-15.52
180	Inflow (Cave)	4,000				-106.5	-14.28
207 SE	Egan Rng South	7,423				-106.9	-14.15 41
207 SW	Grant Rng	6,117				-106.5	-14.23 42
TR	Total Recharge	13,500				-106.7	-14.18
E	Chimney Rock Spring	,	2	219	Spring	-110.5	-14.52
Ē	Granite Spring		1	440	Spring	-103.4	-13.32
E	Haggerty Spring		1	387	Spring	-109.6	-14.78
Ē	Silver Spring		2	385	Spring	-111.4	-14.71
E	Big Spring (Egan)		4	206	Spring	-105.5	-13.90
E	Shingle Spring		2	203	Spring	-103.7	-13.33
E	Perry Sp Barcass 37		1	408	Spring	-107.7	-15.04
E	Trough Spring		1	413	Spring	-103.6	-13.56
E	Butterfield Spring	4,000	1	202	Spring	-105.0	-14.20 Local Valley spring not included in recharge calculation
E	Emigrant Spring	1,900	2	207	Spring	-107.8	-14.50 Local Valley spring not included in recharge calculation
E	Flag Spring #3	i i	1	201	Spring	-105.0	-14.30 Local Valley spring not included in recharge calculation
SW	Albert Spring		1	204	Spring	-107.0	-13.95
SW	Big Spring (Grant)		1	194	Spring	-112.0	-15.20
SW	Brady Spring		2	282	Spring	-109.5	-15.38
SW	Forest Home Spring (Unnamed Spring)		1	195	Spring	-108.5	-14.50
SW	Horse Spring (Grant)		1	370	Spring	-99.5	-12.86
SW	Teaspoon Spring		1	371	Spring	-100.0	-13.26
SW	Wiregrass Spring (Grant)		1	372	Spring	-101.4	-13.29
SW	Murphy Spring		1	373	Spring	-114.5	-15.40
SW	Little Spring (Grant Range)		1	369	Spring	-99.4	-12.48 Evaporated so not used in recharge calculation
Warm	Hot Creek Campground Well	0	1	198	Well	-118.0	-15.30
Warm	Hot Creek Springs	10,000	10	197	Spring	-118.9	-15.69
Warm	Moon River Spring	2,800	1	192	Spring	-120.0	-15.80
Warm	Moorman Spring	400	1	205	Spring	-119.0	-15.70
Warm	Discharge Warm Sprs (Avg)	13,200	13			-119.2	-15.71 -117.5 -15.52 Inter-basin flow from Northern White River Vall
ET	ET	46,900					-113.9 -15.09
208	GW Outflow (Pahroc)	6,400					-113.9 -15.09
172 xxxxxxx	Garden Valley	~~~~~~~	~~~~		~~~~	~~~~	*****
0	Inflow (None)	0				0.0	0.00
SW	Quinn Canyon Range	15,120				0.0	
172 NW						-104.6	-14.08 171
172 NU						-104.6	-14.08 171
	Grant Range	7,757				-106.5	-14.27 170
172 CE	Golden Gate Rng	7,757 980				-106.5 -98.0	-14.27 170 -13.30 55
172 SE	Golden Gate Rng Worthington Mountains	7,757 980 962				-106.5 -98.0 -98.0	-14.27 170 -13.30 55 -13.30 56
TR	Golden Gate Rng Worthington Mountains Total Recharge	7,757 980	1	367	Spring	-106.5 -98.0 -98.0 -104.7	-14.27 170 -13.30 55 -13.30 56 -14.08
TR SW	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn)	7,757 980 962	1	367	Spring	-106.5 -98.0 -98.0 -104.7 -105.9	-14.27 170 -13.30 55 -13.30 56 -14.08 -14.23
TR SW SW	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn)	7,757 980 962	1	368	Spring	-106.5 -98.0 -98.0 -104.7 -105.9 -104.4	-14.27 170 -13.30 55 -13.30 56 -14.08 -14.23 -14.18
TR SW SW SW	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring	7,757 980 962	1 2	368 177	Spring Spring	-106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3	-14.27 170 -13.30 55 -13.30 56 -14.08 -14.23 -14.18 -14.01
TR SW SW SW SW	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring	7,757 980 962	1 2 1	368 177 182	Spring Spring Spring	-106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0	-14.27 170 -13.30 55 -13.30 56 -14.08 -14.23 -14.18 -14.01 -13.90
TR SW SW SW SW SW	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring	7,757 980 962	1 2	368 177 182 171	Spring Spring Spring Spring	-106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0	-14.27 170 -13.30 55 -13.30 56 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporated so not used in recharge calculation
TR SW SW SW SW SW	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant)	7,757 980 962	1 2 1 1 1	368 177 182 171 194	Spring Spring Spring Spring Spring	-106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0	-14.27 170 -13.30 55 -13.30 56 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporated so not used in recharge calculation -15.20
TR SW SW SW SW SW NW	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring	7,757 980 962	1 2 1 1	368 177 182 171 194 282	Spring Spring Spring Spring Spring Spring	-106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5	-14.27 170 -13.30 55 -13.30 55 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporated so not used in recharge calculation -15.20 -15.38
TR SW SW SW SW SW NW NW	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring)	7,757 980 962	1 2 1 1 1 2	368 177 182 171 194 282 195	Spring Spring Spring Spring Spring Spring Spring	-106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -108.5	-14.27 170 -13.30 55 -13.30 56 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporated so not used in recharge calculation -15.20 -15.38 -14.50
TR SW SW SW SW SW NW	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant)	7,757 980 962	1 2 1 1 2 1	368 177 182 171 194 282	Spring Spring Spring Spring Spring Spring Spring Spring	-106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -108.5 -99.5	-14.27 170 -13.30 55 -13.30 55 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporated so not used in recharge calculation -15.20 -15.38
TR SW SW SW SW SW NW NW NW	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring	7,757 980 962	1 2 1 1 2 1 1	368 177 182 171 194 282 195 370	Spring Spring Spring Spring Spring Spring Spring Spring Spring	-106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -108.5	-14.27 170 -13.30 55 -13.30 56 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporated so not used in recharge calculation -15.20 -15.38 -14.50 -12.86
TR SW SW SW SW SW NW NW NW NW NW	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant)	7,757 980 962	1 2 1 1 2 1 1 1	368 177 182 171 194 282 195 370 371 372	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -108.5 -99.5 -100.0	-14.27 170 -13.30 55 -13.30 56 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporated so not used in recharge -15.20 -15.38 -14.50 -12.86 -13.26
TR SW SW SW SW SW NW NW NW NW	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring	7,757 980 962	1 2 1 1 2 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-106.5 -98.0 -98.0 -105.9 -104.4 -105.3 -104.4 -105.3 -108.0 -95.0 -112.0 -108.5 -99.5 -108.5 -99.5 -100.0 -101.4 -114.5	-14.27 170 -13.30 55 -13.30 55 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporated so not used in recharge calculation -15.20 -15.20 -12.86 -13.26 -13.29 -15.40
TR SW SW SW SW SW NW NW NW NW NW NW	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant)	7,757 980 962	1 2 1 1 2 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-106.5 -98.0 -98.0 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -108.5 -99.5 -100.0 -101.4	-14.27 170 -13.30 55 -13.30 55 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporated so not used in recharge calculation -15.20 -15.38 -14.50 -12.86 -13.26 -13.29
TR SW SW SW SW SW NW NW NW NW NW NW NW	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring Wiregrass Spring Little Spring (Grant Range)	7,757 980 962	1 2 1 1 2 1 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-106.5 -98.0 -98.0 -105.9 -104.4 -105.3 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -108.5 -99.5 -108.5 -99.5 -100.0 -101.4 -114.5 -99.4	-14.27 170 -13.30 55 -13.30 56 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporated so not used in recharge calculation -15.20 -15.38 -14.50 -12.86 -13.29 -15.40 -12.48 Evaporated so not used in recharge calculation
TR SW SW SW SW NW NW NW NW NW NW NW NW NW SE	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring)	7,757 980 962 24,800	1 2 1 1 2 1 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-106.5 -98.0 -98.0 -105.9 -104.4 -105.3 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -108.5 -99.5 -108.5 -99.5 -100.0 -101.4 -114.5 -99.4	-14.27 170 -13.30 55 -13.30 56 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporated so not used in recharge calculation -15.20 -15.38 -14.50 -15.40 -13.26 -13.26 -13.26 -13.29 -15.40 -12.48 Evaporated so not used in recharge calculation -13.30
TR SW SW SW SW SW NW NW NW NW NW NW NW NW SE ET 171 XXXXXXX	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring) ET	7,757 980 962 24,800 1,700 23,100	1 2 1 1 2 1 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369 136	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -100.0 -101.4 -108.5 -99.5 -100.0 -101.4 -114.5 -99.4 -98.0	-14.27 170 -13.30 55 -13.30 56 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporated so not used in recharge calculation -15.20 -15.38 -14.50 -12.86 -13.26 -13.29 -15.40 -12.48 Evaporated so not used in recharge calculation -13.30 -104.7 -14.08 -104.7 -14.08
TR SW SW SW SW SW NW NW NW NW NW NW NW NW SE ET 171	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring) ET GW Outflow (Coal)	7,757 980 962 24,800 1,700 23,100	1 2 1 1 2 1 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369 136	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -100.0 -101.4 -108.5 -99.5 -100.0 -101.4 -114.5 -99.4 -98.0	-14.27 170 -13.30 55 -13.30 56 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporated so not used in recharge calculation -15.20 -15.38 -14.50 -12.86 -13.26 -13.29 -15.40 -12.48 Evaporated so not used in recharge calculation -13.30 -104.7 -14.08 -104.7 -14.08
TR SW SW SW SW SW NW NW NW NW NW NW NW NW SE ET 171 XXXXXXX	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring) ET GW Outflow (Coal)	7,757 980 962 24,800 1,700 23,100	1 2 1 1 2 1 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369 136	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -100.0 -101.4 -108.5 -99.5 -100.0 -101.4 -114.5 -99.4 -98.0	-14.27 170 -13.30 55 -13.30 56 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporated so not used in recharge calculation -15.20 -15.38 -14.50 -12.86 -13.29 -15.40 -12.48 Evaporated so not used in recharge calculation -13.30 -104.7 -14.08 -104.7 -14.08 -104.7 -14.08
TR SW SW SW SW SW NW NW NW NW NW NW SE ET 171 XXXXXXX	Golden Gate Rng Worthington Mountainss Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring) ET GW Outflow (Coal) (X XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,757 980 962 24,800 1,700 23,100	1 2 1 1 2 1 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369 136	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -102.0 -109.5 -100.0 -101.4 -104.5 -99.5 -99.5 -100.0 -101.4 -114.5 -99.4 -98.0	-14.27 170 -13.30 55 -13.30 56 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporated so not used in recharge calculation -15.20 -15.20 -15.20 -12.86 -13.29 -15.40 -12.48 Evaporated so not used in recharge calculation -13.30 -104.7 -14.08 -104.7 -14.08 -104.7 -14.08
TR SW SW SW SW SW NW NW NW NW NW NW NW NW SE ET 171 171 172	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring) ET GW Outflow (Coal) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,757 980 962 24,800 1,700 23,100 XXXXXXXXXX	1 2 1 1 2 1 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369 136	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-106.5 -98.0 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -109.5 -108.5 -99.5 -108.5 -99.5 -108.5 -99.5 -101.4 -101.4 -101.4 -101.4 -98.0 -101.4 -101.5 -101.4 -101.5 -101.4 -101.5 -101.4 -101.5 -101.4 -101.5 -101.4 -101.5 -101.5 -101.4 -101.5 -101.4 -101.5 -101.5 -101.5 -101.5 -101.5 -101.5 -101.5 -101.5 -101.4 -101.5 -10	-14.27 170 -13.30 55 -13.30 55 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporated so not used in recharge calculation -15.20 -15.38 -14.50 -12.86 -13.26 -13.29 -15.40 -12.48 Evaporated so not used in recharge calculation -13.30 -104.7 -14.08 -104.7 -14.08 -14.08 -15.09
TR SW NW NW NW NW NW NW SE ET 171 172 172	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring) ET GW Outflow (Coal) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,757 980 962 24,800 1,700 23,100 XXXXXXXX X3 23,100 0	1 2 1 1 2 1 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369 136	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-106.5 -98.0 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -108.5 -99.5 -108.5 -99.5 -108.5 -99.5 -101.4 -114.5 -99.4 -98.0 -02.5 -99.4 -98.0 -104.7 -113.9	-14.27 170 -13.30 55 -13.30 55 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporated so not used in recharge calculation -15.20 -15.38 -14.50 -12.86 -13.26 -13.26 -13.29 -15.40 -12.48 Evaporated so not used in recharge calculation -13.30 -104.7 -14.08 -104.7 -14.08 -104.7 -14.08 -13.13 75
TR SW SW SW SW SW SW NW NW NW NW NW NW NW SE ET 171 171 172 172 171 E	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Grant) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring) ET GW Cutflow (Coal) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,757 980 962 24,800 1,700 23,100 xxxxxxx xx 23,100 0 1,182	1 2 1 1 2 1 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369 136	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -100.5 -108.5 -99.5 -100.0 -114.5 -99.4 -98.0 -98.0 -104.7 -113.9 -99.0	-14.27 170 -13.30 55 -13.30 55 -14.08 -14.23 -14.18 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporated so not used in recharge calculation -15.20 -15.38 -14.50 -12.86 -13.29 -15.40 -104.7 -14.08 -104.7 -
TR SW NW NW NW SE ET 1711 172 171 171 171 171 171	Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring) ET GW Outflow (Coal) X XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,757 980 962 24,800 1,700 23,100 xxxxxxx xx 23,100 0 1,182 2,675	1 2 1 1 2 1 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369 136	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-106.5 -98.0 -98.0 -98.0 -104.7 -105.9 -104.7 -105.3 -103.0 -102.0 -102.0 -108.5 -99.5 -108.5 -99.5 -108.0 -101.4 -114.5 -99.4 -98.0 -88.0 -104.7 -113.9 -98.0 -98.2	-14.27 170 -13.30 55 -13.30 56 -14.08 -14.23 -14.18 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporated so not used in recharge calculation -15.20 -15.20 -15.40 -12.48 Evaporated so not used in recharge calculation -13.30 -104.7 -14.08 -104.7 -14.08 -104.7 -14.08 -104.7 7 -14.08 -12.87 76 -12.95

W W E Carb Wel	Henry Spring Little Cut Spring Seaman Spring I USGS-MX C.V. Well (CV-DT-1)		1 2 1 2	287 286 306 176	Spring Spring Spring Well	-97.4 -98.3 -99.0 -109.0	-12.77 -12.85 -13.13 -14.56	-104.7	-14.08	Underflov	v from Garder	n Vallev
ET 208	ET GW Outflow (Pahroc)	0 27,000	_					-103.8 -103.8	-13.91 -13.91			,
XXXXXX	x xxxxxxxxxxxxxxxxxxxxxxxx	XXXXXXXX X	ххххх	(XKXXXXX	(XXXXXXXX)	XXXXXX	XXXXXX	XXXXXX	ххххх	XXXXXX		
208	Pahroc Valley											
207S	Inflow (S. White River)	6,400				-113.9	-15.09					
170	Inflow (Cave)	9,400				-106.5	-14.28					
171	Inflow (Coal)	27,000				-103.8	-13.91					
208 E	N. Pahroc Rng.	2,390				-94.2	-12.42			73 74		
208 W TR	Seaman Rng. Total Recharge	2,117 4,500				-99.0 -96.4	-13.13 -12.75			74		
	Black Rock Spring	4,500	2	158	Spring	-93.8	-12.31					
E E E E E E E	Coyote Spring		2	169	Spring	-95.1	-12.53					
E	Hamilton Spring		1	298	Spring	-93.1	-11.76					
E	Little Boulder Spring		1	301	Spring	-97.2	-13.06					
E	Mustang Spring		2	135	Spring	-90.5	-12.49					
E	Pahroc Spring		3	131	Spring	-92.2	-12.65					
E	Rattlesnake Spring		1	302 299	Spring	-97.3	-12.65 -11.90					
W	Unnamed Springnr Blackrock Seaman Spring		1	306	Spring Spring	-94.3 -99.0	-13.13					
Evaporate			1	154	Spring	-90.0		Evaporate	d not use	ed in rechar	ge calculation	
ET	ET	0	•		oping	00.0	.2	-105.0	-14.04		go baloalation	
209	GW Outflow (Pahranagat)	45,300						-105.0	-14.04			
181	GW Outflow (Dry Lake)	2,000						-106.5	-14.28			
xxxxxx	x xxxxxxxxxxxxxxxxxxxxxxx	XXXXXXXX X	xxxxx	(XKXXXXX	(XXXXXXXX)	XXXXXX	XXXXXX	XXXXXX	xxxxx	XXXXXX		
209	Pahranagat Valley											
208	Inflow (Pahroc)	45,300				-105.0	-14.04					
181	Inflow (Pariloc)	45,500				-98.9	-13.12					
209	Inflow (Delamar)	ŏ				-97.3	-12.92					
209 E	S. Pahroc Rng.	1,283				-94.9	-12.83			77, 78		
209 W	Mt. Irish/Pahranagat Rng.	4,223				-98.4	-14.24		79, 80	(172, 173)		
TR	Total Recharge	5,500				-97.6	-13.91					
E E E E E E E	Eightmile Spring	Outob)	2	295	Spring	-95.6	-13.09					
E	Gulch Spring(Unnamed Spring in Hells A Sixmile Spring	cres Gulch)	1	109 112	Spring Spring	-93.0 -93.4	-12.30 -13.06					
E	Twin Spring		1	294	Spring	-93.4 -97.4	-13.00					
Ē	named Spring in Road(South Pahroc Ran	ae)	1	303	Spring	-96.7	-13.07					
E	Unnamed Spring nr Six Mile seep	3-7	1	296	Spring	-94.5	-12.62					
E	Water Tank 0.4mi West of Sixmile		1	297	Spring	-93.8	-12.44					
S	Maynard Lake Spring (Unnamed Spring)		1	94	Spring	-94.0		Local Valle	ey spring	not include	<mark>ed in r</mark> echarge (calculation
W	Reed Spring		1	289	Spring	-98.4	-14.24					
Warm	Ash Springs	12400	6	110	Spring	-109.1	-14.11					
Warm Warm	Little Ash Spring (Ash Spring) Crystal Springs	500 8,200	1 17	111 116	Spring Spring	-107.2 -108.8	-14.20 -14.41					
Warm	Hiko Spring	4,300	7	122	Spring	-108.7	-14.39					
Warm	Discharge Warm Springs (Avg)	25,400	31		oping	-108.9	-14.26	-105.0	-14.04	Inter-basi	n flow from P	ahroc Valley
ET	ET	28,500						-104.2	-14.02			
Well	209M-1		1	608	Deep Well	-104.7	-13.53	-105.0			<mark>n flo</mark> w from Pa	ahroc Valley
210	GW Outflow (Coyote Spr)	22,300						-104.2	-14.02			
xxxxxx	x xxxxxxxxxxxxxxxxxxxxxxx	XXXXXXXX X	xxxxx	(XKXXXXX	xxxxxxxx	XXXXXX	XXXXXX	XXXXXX	xxxxx	xxxxxx		
181	Dry Lake Valley											
208	Inflow (Pahroc)	2,000				-106.5	-14.28					
181 NW	S. Schell Ck Range	852				-100.4	-13.21			59		
181 SW	N. Pahroc Rng.	2,289				-94.2	-12.42			57		
181 NE	Fairview Rng.	3,490				-99.5	-12.89			58		
181 E	Bristol/Highland Rng.	7,465				-98.9	-13.28			61		
181 SE	Chief Rng.	1,571				-94.6	-12.36			62		
TR	Total Recharge	15,700	~	400	Oraci	-98.0	-12.97					
E	Deadman Spring (Highland)		2	162	Spring	-95.0	-12.07					

										_
E	Highland Spring		3	163	Spring	-99.1	-13.36			
E	Lime Spring		2	160	Spring	-98.5	-13.16			
E	Pine Spring		2	157	Spring	-99.0	-13.37			
E	Connor Spring		1	283	Spring	-100.6	-13.84			
E	Upper Conner Spring		2	156	Spring	-101.2	-13.87			
SE	Red Rock Spring		1	256	Spring	-95.0	-12.30			
SE			1							
	Abandoned Spring			266	Spring	-94.5	-12.32			
SE	Buckboard Spring		1	264	Spring	-88.2	-11.71			
SE	Cottonwood Spring (Delamar)		1	265	Spring	-96.9	-12.87			
SE	Lower Chokecherry Spring		1	261	Spring	-98.4	-12.98			
SE	Oak Spring		1	269	Spring	-90.0	-11.87			
SE	Unnamed Chokecherry Spring		1	263	Spring	-98.1	-12.54			
SE										
SE	Upper Chokecherry Spring		1	262	Spring	-98.9	-12.96			
SE	Willow Spring 2 (So.of Oak Sps.summit)		1	260	Spring	-91.2	-11.69			
NE	Bailey Spring (Fairview)		2	277	Spring	-98.2	-12.69			
NE	Cottonwood Spring (Fairview)		1	274	Spring	-102.2	-13.40			
NE	Littlefield Spring		1	275	Spring	-98.5	-12.73			
NE	Lower Pony Spring		2	190	Spring	-101.0	-13.25			
NE			2 1	276		-99.8				
	Meloy Spring		1 C C C C C C C C C C C C C C C C C C C		Spring		-12.75			
NE	Scotty Spring		1	272	Spring	-98.9	-12.73			
NE	Indian Spring near Steward Ranch		1	188	Spring	-102.0	-13.60			
NE	Unnamed Spring near Pony Spring		1	191	Spring	-99.0	-12.90			
NE	Fence Spring		1	278	Spring	-97.4	-12.55			
NE	Fox Cabin		1	273	Spring	-103.5	-13.59			
NE			1	273		-103.5	-12.39			
	Lower Fairview				Spring					
NE	Robison Spring		1	279	Spring	-97.9	-12.34			
NE	Upper Fairview		1	280	Spring	-97.7	-12.66			
SW	Black Rock Spring		2	158	Spring	-93.8	-12.31			
SW	Coyote Spring		2	169	Spring	-95.1	-12.53			
SW	Hamilton Spring		1	298	Spring	-93.1	-11.76			
SW	Little Boulder Spring		1	301		-97.2	-13.06			
					Spring					
SW	Mustang Spring		2	135	Spring	-90.5	-12.49			
SW	Pahroc Spring		3	131	Spring	-92.2	-12.65			
SW	Rattlesnake Spring		1	302	Spring	-97.3	-12.65			
SW	Unnamed Springnr Blackrock		1	299	Spring	-94.3	-11.90			
	Sidehill Spring	1,600	2	200	Spring	-100.4	-13.21			
					Spring	-100.4	-10.21			
NW		.,					44.00	F uen/	مالية من المم مم أو	-
Evporated	Grassy Spring	1,000	3	117	Spring	-88.7			d so not used in rec	
Evporated Evaporated	Grassy Spring Wildhorse Spring (Fairview)	1,000	3 1	117 183	Spring Spring	-88.7 -92.5	-11.70	Evaporate	d so not used in red	harg
Evporated Evaporated Carb Well	Grassy Spring	1,000	3 1 2	117 183 179	Spring Spring Well	-88.7 -92.5 -107.5	-11.70 -14.16	Evaporate -106.5	d so not used in rec -14.28 Inter-bas	harg in flo
Evporated Evaporated	Grassy Spring Wildhorse Spring (Fairview)	1,000	3 1	117 183	Spring Spring	-88.7 -92.5	-11.70	Evaporate	d so not used in red	harg in flo
Evporated Evaporated Carb Well	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well	1,000	3 1 2	117 183 179	Spring Spring Well	-88.7 -92.5 -107.5	-11.70 -14.16	Evaporate -106.5	d so not used in rec -14.28 Inter-bas	harg in flo in flo
Evporated Evaporated Carb Well Carb Well Carb Well	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M		3 1 2 1	117 183 179 603	Spring Spring Well Deep Well	-88.7 -92.5 -107.5 -105.0	-11.70 -14.16 -13.67	Evaporate -106.5 -106.5 -106.5	d so not used in red -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas	harg in flo in flo
Evporated Evaporated Carb Well Carb Well Carb Well ET	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET	0	3 1 2 1	117 183 179 603	Spring Spring Well Deep Well	-88.7 -92.5 -107.5 -105.0	-11.70 -14.16 -13.67	Evaporate -106.5 -106.5 -106.5 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12	harg in flo in flo
Evporated Evaporated Carb Well Carb Well Carb Well ET 209	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat)	0 0	3 1 2 1	117 183 179 603	Spring Spring Well Deep Well	-88.7 -92.5 -107.5 -105.0	-11.70 -14.16 -13.67	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12	harg in flo in flo
Evporated Evaporated Carb Well Carb Well Carb Well ET	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET	0	3 1 2 1	117 183 179 603	Spring Spring Well Deep Well	-88.7 -92.5 -107.5 -105.0	-11.70 -14.16 -13.67	Evaporate -106.5 -106.5 -106.5 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12	harg in flo in flo
Evporated Evaporated Carb Well Carb Well Carb Well ET 209 182	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 1811M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar)	0 0 17,700	3 1 2 1 1	117 183 179 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -107.5 -105.0 -104.6	-11.70 -14.16 -13.67 -13.50	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in red -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12	harg in flo in flo in flo
Evporated Evaporated Carb Well Carb Well Carb Well ET 209 182	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat)	0 0 17,700	3 1 2 1 1	117 183 179 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -107.5 -105.0 -104.6	-11.70 -14.16 -13.67 -13.50	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in red -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12	harg in flo in flo in flo
Evporated Evaporated Carb Well Carb Well Carb Well ET 209 182 XXXXXXX	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar)	0 0 17,700	3 1 2 1 1	117 183 179 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -107.5 -105.0 -104.6	-11.70 -14.16 -13.67 -13.50	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in red -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12	harg in flo in flo in flo
Evporated Evaporated Carb Well Carb Well Carb Well ET 209 182	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 1811M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar)	0 0 17,700	3 1 2 1 1	117 183 179 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -107.5 -105.0 -104.6	-11.70 -14.16 -13.67 -13.50	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in red -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12	harg in flo in flo in flo
Evporated Evaporated Carb Well Carb Well Carb Well ET 209 182 XXXXXXXXX 182	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 1811M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X	3 1 2 1 1	117 183 179 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -107.5 -105.0 -104.6	-11.70 -14.16 -13.67 -13.50	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in red -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12	harg in flo in flo in flo
Evporated Evaporated Carb Well Carb Well ET 209 182 XXXXXXXX 182 181	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X 17,700	3 1 2 1 1	117 183 179 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -107.5 -105.0 -104.6 XXXXXX 3	-11.70 -14.16 -13.67 -13.50	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 XXXXXX XXXXXX	harg in flo in flo
Evporated Evaporated Carb Well Carb Well ET 209 182 XXXXXXXX 182 181 182 E	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X 17,700 5,415	3 1 2 1 1	117 183 179 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -107.5 -105.0 -104.6 XXXXXXX 3 -98.9 -92.5	-11.70 -14.16 -13.67 -13.50 (XXXXXX) -13.12 -12.32	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12	harg in flo in flo
Evporated Evaporated Carb Well Carb Well ET 182 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X 17,700	3 1 2 1 1	117 183 179 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -107.5 -105.0 -104.6 XXXXXX 3	-11.70 -14.16 -13.67 -13.50	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 XXXXXX XXXXXX	harg in flo in flo
Evporated Evaporated Carb Well Carb Well ET 209 182 XXXXXXXX 182 181 182 E	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X 17,700 5,415	3 1 2 1 1	117 183 179 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -107.5 -105.0 -104.6 XXXXXXX 3 -98.9 -92.5	-11.70 -14.16 -13.67 -13.50 (XXXXXX) -13.12 -12.32	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12	harg in flo in flo
Evporated Evaporated Carb Well Carb Well ET 209 182 XXXXXXXX 182 181 182 181 182 E 182 182 XXXXXXXXX	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181M909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X 17,700 5,415 986	3 1 2 1 1 1	117 183 179 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -107.5 -105.0 -104.6 XXXXXXX 3 -98.9 -92.5 -94.6 -92.8	-11.70 -14.16 -13.67 -13.50 (XXXXXX : -13.12 -12.32 -12.81 -12.39	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12	harg in flo in flo
Evporated Evaporated Carb Well Carb Well ET 209 182 XXXXXXXX 182 182 182 182 182 182 182 182 182 182	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 1811M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X 17,700 5,415 986	3 1 2 1 1	117 183 179 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -107.5 -105.0 -104.6 XXXXXXX 3 -98.9 -92.5 -94.6 -92.8 -94.5	-11.70 -14.16 -13.67 -13.50 (XXXXXX) -13.12 -12.81 -12.82 -12.81 -12.39 -12.32	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12	harg in flo in flo
Evporated Evaporated Carb Well Carb Well ET 209 182 XXXXXXXX 182 181 182 181 182 182 182 182 182 182	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X 17,700 5,415 986	3 1 2 1 1 1 (XXXXXXX 1 1	117 183 179 603 604 (XKXXXX)	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -105.0 -105.0 -104.6 XXXXXXX 2 -98.9 -92.5 -94.6 -92.8 -94.6 -92.8 -94.5	-11.70 -14.16 -13.67 -13.50 (XXXXXX : -13.12 -12.32 -12.32 -12.32 -12.32 -12.32	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12	harg in flo in flo
Evporated Evaporated Carb Well Carb Well ET 209 182 XXXXXXXX 182 181 182 E 182 W TR E E E	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 1811M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X 17,700 5,415 986	3 1 2 1 1 1 (XXXXXXX (XXXXXX) (XXXXXXX) (XXXXXXX) 1 1 1	117 183 179 603 604 (XKXXXXX)	Spring Spring Well Deep Well Deep Well (XXXXXXXXX) Spring Spring Spring	-88.7 -92.5 -107.5 -105.0 -104.6 -104.6 -92.5 -94.6 -92.8 -94.5 -94.5 -95.0	-11.70 -14.16 -13.67 -13.50 -13.50 -13.12 -12.32 -12.32 -12.39 -12.30 -11.87	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12	harg in flo in flo
Evporated Evaporatec Carb Well Carb Well ET 209 182 XXXXXXXX 182 181 182 182 181 182 182 182 182 182	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X 17,700 5,415 986	3 1 2 1 1 1 (XXXXXXX 1 1	117 183 179 603 604 (XKXXXXX) (XKXXXXX) 266 256 269 262	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -107.5 -105.0 -104.6 -104.6 -98.9 -92.5 -94.6 -92.8 -94.5 -94.5 -95.0 -90.0 -90.0	-11.70 -14.16 -13.67 -13.50 (XXXXXX : -13.12 -12.32 -12.32 -12.32 -12.32 -12.32	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12	harg in flo in flo
Evporated Evaporatec Carb Well Carb Well ET 209 182 XXXXXXXX 182 181 182 E 182 W TR E E E	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 1811M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X 17,700 5,415 986	3 1 2 1 1 1 (XXXXXXX (XXXXXX) (XXXXXXX) (XXXXXXX) 1 1 1	117 183 179 603 604 (XKXXXXX)	Spring Spring Well Deep Well Deep Well (XXXXXXXXX) Spring Spring Spring	-88.7 -92.5 -107.5 -105.0 -104.6 -104.6 -92.5 -94.6 -92.8 -94.5 -94.5 -95.0	-11.70 -14.16 -13.67 -13.50 -13.50 -13.12 -12.32 -12.32 -12.39 -12.30 -11.87	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12	harg in flo in flo
Evporated Evaporated Carb Well Carb Well ET 209 182 XXXXXXXX 182 182 182 182 182 182 182 182 182 182	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Pahranagat) GW Outflow (Pahranagat) GW Outflow (Pahranagat) GW Outflow (Pahranagat) GW Outflow (Pahranagat) GW Outflow (Pahranagat) Delamar Valley Inflow (Dry Lake) Delamar Mtns. S. Pahroc Rng. Total Recharge Abandoned Spring Red Rock Spring Oak Spring Upper Chokecherry Spring Upper Chokecherry Spring	0 0 17,700 XXXXXXX X 17,700 5,415 986	3 1 2 1 1 1 (XXXXXXX (XXXXXXX) 1 1 1 1	117 183 179 603 604 (XKXXXX) 266 256 256 269 262 268	Spring Spring Well Deep Well Ceep Well KXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	-88.7 -92.5 -107.5 -105.0 -104.6 XXXXXXX J -98.9 -92.5 -94.6 -92.8 -94.6 -92.8 -94.6 -92.8 -94.5 -95.0 -90.0 -88.9 -88.0	-11.70 -14.16 -13.67 -13.50 -13.50 -13.50 -13.50 -13.52 -12.32 -12.32 -12.32 -12.32 -12.30 -11.87 -12.96 -11.46	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12	harg in flo in flo
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Evporated Evaporated Carb Well Carb Well ET 209 182 182 182 182 182 182 182 182 182 82 W TR E E E E E E E	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 1811M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X 17,700 5,415 986	3 1 2 1 1 1 (XXXXXXX (XXXXXX) (XXXXXXX) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	117 183 179 603 604 (XKXXXXX) (XKXXXXX) 266 256 269 262 268 269 262 268 267 98 257	Spring Spring Well Deep Well MXXXXXXXXXX KXXXXXXXXXXXXXXXXXXXXXXXX	-88.7 -92.5 -107.5 -105.0 -104.6 -104.6 -98.9 -92.5 -94.6 -92.5 -94.6 -92.8 -94.5 -95.0 -90.0 -88.9 -92.5 -95.0 -90.5 -95.0 -98.9 -92.5	-11.70 -14.16 -13.67 -13.50 -13.50 -13.50 -13.12 -12.32 -12.39 -12.32 -12.39 -12.39 -12.39 -12.39 -12.47	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12	harg in flo in flo
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Evporated Evaporated Carb Well Carb Well ET 209 182 XXXXXXXX 182 181 182 182 181 182 182 182 182 182	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X 17,700 5,415 986	3 1 2 1 1 1 (XXXXXXX 1 1 1 1 1 1 1 1 3	117 183 179 603 604 (XKXXXX) 266 256 269 262 268 267 98 267 98 257 107	Spring Spring Well Deep Well Composition Composition Spring Sprin	-88.7 -92.5 -107.5 -105.0 -104.6 -104.6 -98.9 -92.5 -94.6 -92.8 -94.5 -95.0 -90.0 -98.0 -96.0 -98.0 -96.0 -98.2 -94.2 -92.5 -87.2	-11.70 -14.16 -13.67 -13.50 -13.50 -13.50 -13.12 -12.32 -12.30 -12.32 -12.30 -11.46 -12.62 -12.47 -12.62 -12.47 -12.62 -12.47 -12.62	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12	harg in flo in flo
Evporated Evaporated Carb Well Carb Well ET 209 182 XXXXXXXX 182 181 182 181 182 182 182 182 182 182	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X 17,700 5,415 986	3 1 2 1 1 1 (XXXXXXX 1 1 1 1 1 1 1 1 1 1 1 1	117 183 179 603 604 (XKXXXXX) (XKXXXXX) 266 256 269 262 268 267 98 257 107 264 265	Spring Spring Well Deep Well CXXXXXXXXXX CXXXXXXXXXXXXXXXXXXXXXXX	-88.7 -92.5 -107.5 -105.0 -104.6 -92.8 -92.5 -94.6 -92.8 -94.5 -95.0 -90.0 -98.9 -92.5 -94.6 -92.8 -94.5 -95.0 -90.0 -98.9 -92.5 -94.6 -92.5 -94.6 -92.8 -94.5 -95.0 -90.0 -98.9 -92.5 -94.6 -92.8 -94.5 -92.5 -94.6 -92.8 -94.5 -94.6 -92.8 -94.5 -94.6 -92.8 -94.5 -94.6 -92.5 -94.6 -94.6 -92.5 -94.6 -94.6 -92.5 -94.6 -94	-11.70 -14.16 -13.67 -13.50 (XXXXXX) -13.12 -12.32 -12.31 -12.32 -12.32 -12.31 -12.39 -12.32 -12.32 -12.31 -12.39 -11.87 -12.47 -11.72 -11.71 -12.87	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12	harg in flo in flo
Evporated Evaporated Carb Well Carb Well ET 209 182 XXXXXXXX 182 181 182 182 181 182 182 182 182 182	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Pahranagat) GW Outflow (Pahranagat) GW Outflow (Pahranagat) GW Outflow (Pahranagat) GW Outflow (Pahranagat) GW Outflow (Pahranagat) Selamar Valley Inflow (Dry Lake) Delamar Valley Inflow (Dry Lake) Delamar Mtns. S. Pahroc Rng. Total Recharge Abandoned Spring Red Rock Spring Upper Indian Spring Upper Indian Spring Lower Indian Spring Bishop Spring Bishop Spring Bishop Spring Bishop Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring	0 0 17,700 XXXXXXX X 17,700 5,415 986	3 1 2 1 1 1 (XXXXXXX (XXXXXX) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	117 183 179 603 604 (XXXXXX) 266 256 269 262 268 269 262 268 267 98 267 98 267 107 264 265 261	Spring Spring Well Deep Well Deep Well Composition Spring	-88.7 -92.5 -105.0 -105.0 -104.6 -104.6 -98.9 -92.5 -94.6 -92.8 -94.6 -92.8 -94.5 -95.0 -94.0 -95.0 -90.0 -88.0 -86.0 -88.0 -88.0 -88.0 -88.2 -92.5 -87.2 -88.2 -98.4	-11.70 -14.16 -13.67 -13.50 -13.50 -13.50 -13.50 -13.50 -12.32 -12.39 -12.32 -12.39 -12.39 -12.39 -12.39 -12.47 -11.72 -12.47 -11.72 -12.47 -12.88	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12	harg in flo in flo
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Evporated Evaporated Carb Well Carb Well ET 209 182 XXXXXXXX 182 181 182 182 181 182 182 182 182 182	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X 17,700 5,415 986	3 1 2 1 1 1 (XXXXXXX (XXXXXXX) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	117 183 179 603 604 (XXXXXXX) 266 256 269 262 268 267 98 257 107 264 265 264 265 264 265 264 265 264 265 264	Spring Spring Well Deep Well Composition Composition Spring Sprin	-88.7 -92.5 -107.5 -105.0 -104.6 -204.6 -92.8 -94.6 -92.8 -94.6 -92.8 -94.6 -92.8 -94.5 -95.0 -90.0 -90.0 -98.9 -88.9 -92.5 -87.2 -95.2 -87.2 -88.2 -96.9 -88.4 -88.7 -91.8	-11.70 -14.16 -13.67 -13.50 -13.50 -13.50 -13.12 -12.32 -12.32 -12.30 -11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -12.47 -12.47 -12.47 -12.47 -12.47 -12.47 -12.88 -12.88	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12	harg in flo in flo
Evporated Evaporated Carb Well Carb Well ET 209 182 XXXXXXXX 182 181 182 182 181 182 182 182 182 182	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X 17,700 5,415 986	3 1 2 1 1 (XXXXXXX (XXXXXXX) 1 1 1 1 1 1 1 1 1 1 5	117 183 179 603 604 (XKXXXXX) (XKXXXXX) (XKXXXXX) 266 256 269 262 268 267 98 257 107 264 265 261 259 265 261 259 258 105	Spring Spring Well Deep Well Ceep Well Ceep Well Spring Sp	-88.7 -92.5 -107.5 -105.0 -104.6 -104.6 -98.9 -92.5 -94.6 -92.5 -94.6 -92.5 -94.6 -92.5 -94.6 -92.5 -95.0 -90.0 -88.9 -92.5 -95.0 -90.0 -88.9 -92.5 -95.0 -92.5 -95.0 -92.5 -95.9 -92.5 -94.6 -94.8 -92.5 -94.6 -94.8 -92.5 -94.6 -94.8 -94.5 -94.6 -94.8 -94.5 -94.5 -94.6 -94.8 -94.5 -94.5 -94.6 -94.8 -94.5 -94.5 -94.5 -94.6 -94.5 -95.5 -94.6 -94.5 -95.5 -94.5 -95.5 -95.5 -94.5 -95.5 -9	-11.70 -14.16 -13.67 -13.50 (XXXXXX : -13.50 -13.50 -13.67 -12.83 -12.81 -12.83 -12.83 -12.87 -12.96 -11.46 -12.47 -12.47 -12.47 -12.47 -12.87 -12.87 -12.88 -12.89 -12.87 -12.89 -12.87 -12.98 -12.87 -12.87 -12.87 -12.98 -12.87 -12.87 -12.87 -12.87 -12.88 -12.89 -12.88 -12.89	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12	harg in flo in flo
Evporated Evaporated Carb Well Carb Well ET 209 182 XXXXXXXX 182 181 182 181 182 182 182 182 182 182	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X 17,700 5,415 986	3 1 2 1 1 1 (XXXXXXX (XXXXXXX) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	117 183 179 603 604 (XXXXXXX) 266 256 269 262 268 267 98 257 107 264 265 264 265 264 265 264 265 264 265 264	Spring Spring Well Deep Well Composition Composition Spring Sprin	-88.7 -92.5 -107.5 -105.0 -104.6 -204.6 -92.8 -94.6 -92.8 -94.6 -92.8 -94.6 -92.8 -94.5 -95.0 -90.0 -90.0 -98.9 -88.9 -92.5 -87.2 -95.2 -87.2 -88.2 -96.9 -88.4 -88.7 -91.8	-11.70 -14.16 -13.67 -13.50 -13.50 -13.50 -13.12 -12.32 -12.32 -12.30 -11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -12.47 -12.47 -12.47 -12.47 -12.47 -12.47 -12.88 -12.88	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12	harg in flo in flo
Evporated Evaporated Carb Well Carb Well ET 209 182 XXXXXXXX 182 181 182 182 181 182 182 182 182 182	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X 17,700 5,415 986	3 1 2 1 1 1 (XXXXXXX 1 1 1 1 1 1 1 1 1 1 1 1	117 183 179 603 604 (XXXXXX) 266 256 268 267 98 257 264 265 261 107 264 265 261 107 264 259 258 105 263	Spring Spring Well Deep Well Deep Well Composition Spring	-88.7 -92.5 -105.0 -105.0 -104.6 -205 -94.6 -92.5 -94.6 -92.8 -94.5 -95.0 -90.0 -90.0 -96.0 -90.0 -96.0 -96.0 -96.0 -96.2 -96.2 -96.2 -87.2 -88.2 -96.2 -87.2 -88.2 -96.3 -87.2 -88.2 -96.3 -87.2 -88.2 -96.3 -87.2 -88.2 -96.3 -87.2 -88.2 -96.3 -87.2 -88.2 -96.3 -87.2 -88.2 -96.3 -87.2 -88.2 -88.2 -96.3 -87.2 -88.2 -87.2 -88.2 -88.2 -88.2 -88.2 -92.5 -87.2 -88.2 -88.2 -92.5 -87.2 -88.2 -88.2 -87.2 -88.2 -87.2 -88.2 -87.2 -88.2 -87.2 -88.2 -87.2 -88.2 -87.2 -88.2 -92.5 -87.2 -88.2 -92.5 -87.2 -88.2 -92.5 -87.2 -88.2 -92.5 -87.2 -88.2 -87.2 -88.2 -87.2 -88.2 -92.5 -87.2 -88.2 -92.5 -87.2 -88.2 -92.5 -87.2 -88.2 -92.5 -87.2 -88.2 -92.5 -87.2 -88.2 -92.5 -87.2 -88.2 -92.5 -87.2 -88.2 -92.5 -87.2 -88.2 -92.5 -87.2 -88.2 -92.5 -87.2 -88.2 -92.8 -87.2 -88.2 -92.8 -87.2 -88.2 -92.8 -87.2 -88.2 -92.8 -87.2 -88.2 -92.8 -87.2 -88.2 -92.8 -87.2 -88.2 -92.8 -87.2 -88.2 -92.8 -87.2 -88.2 -92.8 -87.2 -88.2 -92.8 -87.2 -88.2 -92.8 -87.2 -88.2 -92.8 -92.8 -87.2 -88.2 -92.8 -87.2 -88.2 -92.8 -87.2 -88.7 -92.8 -93.8 -93.	-11.70 -14.16 -13.67 -13.50 -13.50 -13.50 -13.50 -13.50 -12.32 -12.30 -12.32 -12.30 -11.46 -12.62 -12.47 -12.98 -11.46 -11.46 -12.62 -12.47 -12.98 -12.58 -12.54	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12	harg in flo in flo
Evporated Evaporated Carb Well Carb Well ET 209 182 XXXXXXXX 182 182 182 182 182 182 182 182 182 182	Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X 17,700 5,415 986	3 1 2 1 1 (XXXXXXX (XXXXXXX) 1 1 1 1 1 1 1 1 1 1 5	117 183 179 603 604 (XKXXXXX) (XKXXXXX) (XKXXXXX) 266 256 269 262 268 267 98 257 107 264 265 261 259 265 261 259 258 105	Spring Spring Well Deep Well Deep Well (XXXXXXXXX) (XXXXXXXXX) (XXXXXXXXX) (XXXXXXXX	-88.7 -92.5 -107.5 -105.0 -104.6 -104.6 -98.9 -92.5 -94.6 -92.5 -94.6 -92.5 -94.6 -92.5 -94.6 -92.5 -95.0 -90.0 -88.9 -92.5 -95.0 -90.0 -88.9 -92.5 -95.0 -92.5 -95.0 -92.5 -95.9 -92.5 -94.6 -94.8 -92.5 -94.6 -94.8 -92.5 -94.6 -94.8 -94.5 -94.6 -94.8 -94.5 -94.5 -94.6 -94.8 -94.5 -94.5 -94.6 -94.8 -94.5 -94.5 -94.5 -94.6 -94.5 -95.5 -94.5 -95.5 -94.5 -95.5 -94.5 -95.5 -9	-11.70 -14.16 -13.67 -13.50 (XXXXXX : -13.50 -13.50 -13.67 -12.83 -12.81 -12.83 -12.83 -12.87 -12.96 -11.46 -12.47 -12.47 -12.47 -12.47 -12.87 -12.87 -12.88 -12.89 -12.87 -12.89 -12.87 -12.98 -12.87 -12.87 -12.87 -12.98 -12.87 -12.87 -12.87 -12.87 -12.88 -12.89 -12.88 -12.89	Evaporate -106.5 -106.5 -106.5 -98.9 -98.9 -98.9	d so not used in rec -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12 -13.12	harg in flo in flo

	Ilch Spring(Unnamed Spring in Hells Acro	es Gulch)	1	109	Spring	-93.0	-12.30					
N	Sixmile Spring		1	112	Spring	-93.4	-13.06					
V	Eightmile Spring		2	295	Spring	-95.6	-13.09					
/	Twin Spring		1	294	Spring	-97.4	-13.24					
			1									
	ned Spring in Road(South Pahroc Range	*)		303	Spring	-96.7	-13.07					
V	Unnamed Spring nr Six Mile seep		1	296	Spring	-94.5	-12.62					
1	Water Tank 0.4mi West of Sixmile		1	297	Spring	-93.8	-12.44					
vaporated	Grassy Spring		3	117	Spring	-88.7		vanorato	l so not i	used in rec	harge (ralculati
			5	117	Spring	-00.7	-11.00 L			useu in rec	narge (aiculati
т	ET	0						-97.3	-12.92			
ell	182W906M		1	607	Deep Well	-100.3	-13.33	-98.9	-13.12	Inter-bas	i <mark>n flo</mark> w	from D
09	GW Outflow (Pahranagat)	0			-			-97.3	-12.92			
0								-97.3	-12.92			
U	GW Outflow (Coyote Spr)	24,100						-97.5	-12.92			
XXXXXX X	****	(XXXXXXXX)	<pre>xxxxx</pre>	******	(XXXXXXXXX)	XXXXXX 'X	(XXXXX'X	(XXXXX)	XXXXX	XXXXXX		
0000000 /		00000000	000000				0000000		000000	100000		
6	Kane Springs Valley											
	Inflow (None)	0				0.0	0.00					
6 W							-12.22			00		
	Delamar Mtns.	3,910				-89.0				90		
06 E	Meadow Valley Mtns.	279				-87.4	-11.92			91		
R	Total Recharge	4,200				-88.9	-12.20					
	Grapevine Spring (KSV-2)		10	93	Spring	-87.4	-11.92					
	Sawmill Spring (Delamar Range)		1	259	Spring	-88.7	-12.58					
	Sawmill Spring West		1	258	Spring	-91.8	-12.86					
	Bishop Spring		3	107	Spring	-87.2	-11.72					
	Boulder Spring (KSV-4)		4	98	Spring	-89.2	-12.47					
	Kane Springs (KSV-3)		3	97	Spring	-86.8	-12.13					
	Narrow Canyon Spring		1	257	Spring	-92.5	-12.47					
	Upper Riggs Spring WR4		5	105	Spring	-87.1	-11.95					
	Willow Spring (KSV-1)		4	92	Spring	-88.4	-11.60					
		•	4	32	oping	-00.4	-11.00	00.0	40.00			
	ET	0						-88.9	-12.20			
	GW Outflow (Coyote Spr)	4,200						-88.9	-12.20			
	xxxxxxxxxxxxxxxxxxxxxxxxxxx	(XXXXXX X)	(XXXXX	XXXXXXX	(XXXXXXXXX)	XXXXXXXX	XXXXXXXX	(XXXXX)	XXXXXX	XXXXXX		
	******	(XXXXXX X)	XXXXX	XKXXXXX		XXXXXX	XXXXXX X	(XXXXX)	XXXXX	XXXXXX		
(XXXXXX) 0	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	(XXXXXX X)	(XXXXX	XKXXXXX		XXXXXX D	XXXXXX X	XXXXX >	XXXXX	XXXXXX		
0 9		(XXXXXXX X) 22,300	XXXXX	XKXXXX	(XXXXXXXX)	-104.2	-14.02	(XXXXX)	XXXXXX	XXXXXX		
)	Coyote Springs Valley		(XXXXX	XKXXXX	(XXXXXXXXX)			(XXXXX)	XXXXX	XXXXXX		
)	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar)	22,300 24,100	xxxxx	XKXXXXX	(XXXXXXXXX)	-104.2 -97.3	-14.02 -12.92	(XXXXX)	XXXXX	XXXXXX		
) 9 2 5	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs)	22,300 24,100 4,200	xxxxx	XXXXXX	(XXXXXXXX)	-104.2 -97.3 -88.9	-14.02 -12.92 -12.20	(XXXXX)	XXXXX			
0 9 2 6 0 NE	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns.	22,300 24,100 4,200 977	xxxxx	XKXXXX	(XXXXXXXX)	-104.2 -97.3 -88.9 -89.0	-14.02 -12.92 -12.20 -12.22	XXXXXX >	xxxxx	83		
0 9 2 6 0 NE	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs)	22,300 24,100 4,200	xxxxx	XKXXXX	(XXXXXXXX)	-104.2 -97.3 -88.9	-14.02 -12.92 -12.20	(XXXXX)	xxxxx			
0 9 2 6 0 NE 0 E	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns.	22,300 24,100 4,200 977	XXXXX	xxxxxx	(XXXXXXXX)	-104.2 -97.3 -88.9 -89.0	-14.02 -12.92 -12.20 -12.22	(XXXXX)	xxxxx	83		
0 2 6 0 NE 0 E 0 NW	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake	22,300 24,100 4,200 977 14 0	XXXXX	XKXXXX	(XXXXXXXX)	-104.2 -97.3 -88.9 -89.0 -87.4 -94.0	-14.02 -12.92 -12.20 -12.22 -11.9 -12.30	XXXXXX >	xxxxx	83 84 87		
0 2 6 0 NE 0 E 0 NW 0 SE	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng.	22,300 24,100 4,200 977 14 0 14	(XXXXX	XKXXXX	(XXXXXXX)	-104.2 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0	-14.02 -12.92 -12.20 -12.22 -11.9 -12.30 -10.60	(XXXXX)	xxxxx	83 84 87 88		
0 2 6 5 0 NE 0 E 0 NW 0 SE 0 W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range	22,300 24,100 4,200 977 14 0 14 1,124	XXXXX	XKXXXX	(XXXXXXX)	-104.2 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.7	-14.02 -12.92 -12.20 -12.22 -11.9 -12.30 -10.60 -12.83	(XXXXX)	XXXXX	83 84 87		
0 2 6 5 0 NE 0 E 0 NW 0 SE 0 W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng.	22,300 24,100 4,200 977 14 0 14	(XXXXX		(XXXXXXXX)	-104.2 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0	-14.02 -12.92 -12.20 -12.22 -11.9 -12.30 -10.60	(XXXXX)	XXXXX	83 84 87 88		
)) NE) E) NW) SE) W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge	22,300 24,100 4,200 977 14 0 14 1,124	4	47	(XXXXXXXX)	-104.2 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.7	-14.02 -12.92 -12.20 -12.22 -11.9 -12.30 -10.60 -12.83	(XXXXX)	xxxxx	83 84 87 88		
)) NE) E) NW) SE) W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring	22,300 24,100 4,200 977 14 0 14 1,124	4	47	Spring	-104.2 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9	-14.02 -12.92 -12.22 -11.9 -12.30 -10.60 -12.83 -12.53	(XXXXX)	XXXXX	83 84 87 88		
)) NE) E) NW) SE) W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring	22,300 24,100 4,200 977 14 0 14 1,124	4	47 86	Spring	-104.2 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9 -92.5	-14.02 -12.92 -12.20 -12.22 -11.9 -12.30 -10.60 -12.83 -12.53 -12.53 -13.15	(XXXXX)	xxxxx	83 84 87 88		
0 2 6 5 0 NE 0 E 0 NW 0 SE 0 W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3	47 86 53	Spring Spring Spring	-104.2 -97.3 -88.90 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9 -92.5 -91.8	-14.02 -12.92 -12.20 -12.22 -11.9 -12.30 -10.60 -12.83 -12.53 -12.53 -13.15 -12.67	(XXXXX)	xxxxx	83 84 87 88		
)) NE) E) NW) SE	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring	22,300 24,100 4,200 977 14 0 14 1,124	4	47 86	Spring	-104.2 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9 -92.5	-14.02 -12.92 -12.20 -12.22 -11.9 -12.30 -10.60 -12.83 -12.53 -12.53 -13.15	(XXXXX)	xxxxx	83 84 87 88		
)) NE) E) NW) SE) W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3	47 86 53 341	Spring Spring Spring Spring	-104.2 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3	-14.02 -12.92 -12.20 -12.22 -11.9 -12.30 -12.83 -12.53 -12.53 -13.15 -12.67 -12.31	(XXXXX)	xxxxx	83 84 87 88		
0 2 6 5 0 NE 0 E 0 NW 0 SE 0 W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1	47 86 53 341 58	Spring Spring Spring Spring Spring	-104.2 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9 -92.5 -91.9 -92.5 -91.8 -89.3 -92.0	-14.02 -12.92 -12.20 -12.22 -11.9 -12.30 -10.60 -12.83 -12.53 -12.53 -12.53 -12.67 -12.31 -12.85	(XXXXX)	xxxxx	83 84 87 88		
)) NE) E) NW) SE) W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep Range)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1	47 86 53 341 58 83	Spring Spring Spring Spring Spring Spring	-104.2 -97.3 -88.9 -87.4 -94.0 -87.4 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3 -92.0 -96.0	-14.02 -12.92 -12.20 -12.29 -12.30 -10.60 -12.83 -12.53 -13.15 -12.67 -12.31 -12.85 -13.35	(XXXXX)	xxxxx	83 84 87 88		
)) NE) E) NW) SE) W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep) Wiregrass Spring (Sheep)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 1 3	47 86 53 341 58 83 49	Spring Spring Spring Spring Spring Spring Spring	-104.2 -97.3 -88.9 -89.0 -87.4 -94.0 -92.7 -90.9 -91.9 -92.7 -91.9 -91.8 -91.8 -91.8 -92.8 -91.8 -95.1	-14.02 -12.92 -12.22 -11.9 -12.30 -10.60 -12.83 -12.53 -12.53 -13.15 -12.67 -12.31 -12.67 -12.31 -12.35 -13.35 -12.93			83 84 87 88 89		
) 2 5 0 NE 0 E 0 NW 0 SE 0 W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep Range)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1	47 86 53 341 58 83	Spring Spring Spring Spring Spring Spring	-104.2 -97.3 -88.9 -87.4 -94.0 -87.4 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3 -92.0 -96.0	-14.02 -12.92 -12.22 -11.9 -12.30 -10.60 -12.83 -12.53 -12.53 -13.15 -12.67 -12.31 -12.67 -12.31 -12.35 -13.35 -12.93			83 84 87 88		:ulation
) 2 5 0 NE 0 E 0 NW 0 SE 0 W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep) Wiregrass Spring (Sheep) White Rock Spring (Sheep)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 1 3	47 86 53 341 58 83 49	Spring Spring Spring Spring Spring Spring Spring Spring	-104.2 -97.3 -88.9 -87.4 -94.0 -87.4 -94.0 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3 -92.0 -96.1 -95.1 -85.5	-14.02 -12.92 -12.20 -11.9 -12.30 -10.60 -12.83 -12.53 -12.53 -12.53 -12.67 -12.31 -12.85 -13.35 -12.93 -10.17 E			83 84 87 88 89		ulation
)))))))))))))))))))	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep) Wiregrass Spring (Sheep) White Rock Spring (Sheep) aynard Lake Spring (Unnamed Spring)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 3 2 1	47 86 53 341 58 83 49 64 94	Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.2 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.0 -96.0 -95.1 -85.5 -94.0	-14.02 -12.92 -12.20 -11.9 -12.30 -10.60 -12.83 -12.53 -12.53 -12.53 -12.53 -12.31 -12.85 -13.35 -12.35 -12.35 -12.35 -12.35 -12.35 -12.35			83 84 87 88 89		ulation
) NNE E NWW SE W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) aynard Lake Spring (Unnamed Spring) Wamp Spring	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 3 2 1 1	47 86 53 341 58 83 49 64 94 95	Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.2 -97.3 -88.9 -87.4 -94.0 -92.7 -90.9 -92.5 -91.8 -89.3 -92.5 -91.8 -89.3 -92.6 -91.8 -89.3 -92.5 -91.8 -89.3 -92.5 -91.8 -89.3 -95.1 -85.5 -94.0 -81.0	-14.02 -12.92 -12.92 -11.9 -12.22 -11.9 -12.83 -12.83 -12.53 -12.53 -13.15 -12.67 -12.31 -12.83 -13.15 -12.93 -13.35 -12.93 -10.17 E -12.90 -12.93 -10.00			83 84 87 88 89		ulation
NE E NW SE W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sheep Spring (Sheep) White Rock Spring (Sheep) Wamp Spring Grapevine Spring (KSV-2)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 1 2 1 1 10	47 86 53 341 58 83 49 64 94 95 2 93	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.2 -97.3 -89.0 -87.4 -94.0 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3 -92.0 -95.1 -85.5 -94.0 -85.5 -94.0 -81.0 -87.4	-14.02 -12.92 -12.22 -11.9 -12.30 -10.60 -12.83 -12.53 -12.53 -12.67 -12.31 -12.85 -13.35 -13.35 -13.35 -13.35 -13.35 -12.93 -0.17 E			83 84 87 88 89		ulation
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NE E NW SE W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) Wamp Spring Grapevine Spring (KSV-2) Bishop Spring Boulder Spring (KSV-4)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 3 2 1 1 1 0 3 4	47 86 53 341 58 83 49 64 94 52 93 107 98	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.2 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.0 -96.0 -95.1 -96.0 -95.5 -94.0 -87.4 -85.5 -94.0 -81.0 -87.4 -81.0 -81.0 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.0 -92.0 -92.0 -92.0 -92.0 -92.0 -92.0 -92.0 -92.0 -92.0 -93.0 -94.0 -95.5 -94.0 -95.5 -94.0 -95.5 -94.0 -95.5 -94.0 -95.5 -94.0 -95.5 -94.0 -95.5 -94.0 -95.5 -94.0 -95.5 -94.0 -95.5 -94.0 -85.5 -94.0 -87.4	-14.02 -12.92 -12.20 -11.9 -12.30 -10.60 -12.83 -12.53 -12.53 -12.53 -12.63 -12.31 -12.85 -13.35 -12.31 -12.30 -10.60 -11.92 -11.72 -12.47			83 84 87 88 89		ulation
) 2 3 0 E 0 E 0 NW 0 SE 0 W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) Wamp Spring Grapevine Spring (KSV-2) Bishop Spring Boulder Spring (KSV-4) Kane Spring (KSV-3)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 3 2 1 1 10 3 4 3	47 86 53 341 58 83 49 64 93 64 93 107 98 97	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.2 -97.3 -88.9 -89.0 -87.4 -94.0 -92.7 -90.9 -91.9 -92.7 -91.9 -92.8 -91.8 -91.8 -92.7 -91.9 -95.1 -85.5 -94.0 -85.1 -85.5 -94.0 -81.0 -87.4 -87.2 -86.8	-14.02 -12.92 -12.92 -11.9 -12.22 -11.9 -12.30 -12.83 -12.53 -12.53 -12.53 -12.67 -12.31 -12.85 -13.35 -12.93 -10.17 E -12.30 -11.92 -11.72 -12.31			83 84 87 88 89		sulation
)) NE) E) NW) SE) W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) Wamp Spring Grapevine Spring (KSV-2) Bishop Spring Boulder Spring (KSV-4)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 3 2 1 1 1 0 3 4	47 86 53 341 58 83 49 64 94 52 93 107 98	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.2 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.0 -96.0 -95.1 -96.0 -95.5 -94.0 -87.4 -85.5 -94.0 -81.0 -87.4 -81.0 -81.0 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.0 -92.0 -92.0 -92.0 -92.0 -92.0 -92.0 -92.0 -92.0 -92.0 -93.0 -94.0 -95.5 -94.0 -95.5 -94.0 -95.5 -94.0 -95.5 -94.0 -95.5 -94.0 -95.5 -94.0 -95.5 -94.0 -95.5 -94.0 -95.5 -94.0 -95.5 -94.0 -85.5 -94.0 -87.4	-14.02 -12.92 -12.20 -11.9 -12.30 -10.60 -12.83 -12.53 -12.53 -12.53 -12.63 -12.31 -12.85 -13.35 -12.31 -12.30 -10.60 -11.92 -11.72 -12.47			83 84 87 88 89		culation
0 9 2 6 0 NE 0 E 0 NW 0 SE 0 W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) Wamp Spring Grapevine Spring (KSV-2) Bishop Spring Boulder Spring (KSV-3) Narrow Canyon Spring	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 3 2 1 1 10 3 4 3	47 86 53 341 58 83 341 58 83 49 64 94 52 93 107 98 97 257	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.2 -97.3 -88.9 -87.4 -94.0 -87.4 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3 -92.0 -95.1 -85.5 -94.0 -81.0 -85.1 -85.5 -94.0 -81.4 -87.2 -86.8 -89.2 -86.8 -92.5	-14.02 -12.92 -12.22 -11.9 -12.30 -10.60 -12.83 -12.53 -12.53 -12.53 -12.53 -12.67 -12.31 -12.85 -13.35 -13.35 -12.93 -10.17 E -12.30 -10.60 -11.92 -11.72 -12.21 -11.72 -12.13 -12.47			83 84 87 88 89		sulation
0 9 2 6 0 NE 0 E 0 NW 0 SE 0 W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) White Spring (Sheep) Bishop Spring Grapevine Spring (KSV-2) Bishop Spring Boulder Spring (KSV-3) Narrow Canyon Spring Sawmill Spring (Delamar Range)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 1 2 1 1 10 3 4 3 1 1	47 86 53 341 58 83 49 64 94 52 93 107 98 97 257 259	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.2 -97.3 -88.9 -87.4 -94.0 -87.4 -94.0 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3 -92.0 -965.1 -95.1 -85.5 -94.0 -87.4 -87.2 -89.2 -89.2 -88.7	-14.02 -12.92 -12.20 -11.9 -12.30 -10.60 -12.83 -12.53 -12.53 -12.53 -12.67 -12.31 -12.85 -12.35 -12.93 -10.17 E -12.30 -10.60 -11.92 -11.72 -12.47 -12.47 -12.58			83 84 87 88 89		culation
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0 9 2 6 6 0 NE 0 E 0 NW 0 SE 0 W 1 1	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) White Rock Spring (Sheep) Wamp Spring Grapevine Spring (KSV-2) Bishop Spring Boulder Spring (KSV-4) Kane Spring (KSV-4) Kane Spring (Velamar Range) Sawmill Spring (Delamar Range) Sawmill Spring West Upper Riggs Spring WR4	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 3 2 1 1 1 0 3 4 3 1 1 1 5	47 86 53 341 58 83 49 64 93 107 98 97 257 257 257 258 105	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.2 -97.3 -88.9 -89.0 -87.4 -94.0 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3 -92.0 -96.0 -95.1 -85.5 -94.0 -95.1 -85.5 -94.0 -85.1 -85.5 -94.0 -87.4 -87.2 -88.8 -87.4 -87.2 -88.8 -87.4 -87.2 -88.8 -87.4 -87.2 -88.8 -87.4 -87.2 -88.8 -87.4 -87.4 -87.4 -87.4 -87.5 -94.0 -87.4 -95.5 -94.0 -95.1 -85.5 -94.0 -85.5 -94.0 -85.5 -94.0 -85.5 -94.0 -85.1 -85.5 -94.0 -85.1 -85.5 -94.0 -85.1 -85.5 -94.0 -85.1 -95.1 -85.5 -94.0 -85.1 -85.5 -94.0 -85.1 -85.5 -94.0 -85.1 -85.5 -94.0 -85.1 -85.5 -94.0 -85.1 -85.5 -94.0 -85.1 -85.5 -94.0 -85.1 -85.5 -94.0 -85.1 -85.5 -94.0 -85.1 -87.4 -87.4 -85.5 -94.0 -87.4 -87.4 -87.4 -95.1 -85.5 -94.0 -87.4 -87.4 -87.4 -87.2 -95.1 -87.4 -87.4 -87.2 -87.4	-14.02 -12.92 -12.22 -11.9 -12.30 -12.83 -12.53 -12.53 -13.15 -12.67 -12.31 -12.83 -10.60 -11.92 -11.72 -12.30 -11.92 -11.72 -12.47 -12.13 -12.47 -12.58 -12.86 -11.95			83 84 87 88 89		sulation
0 9 2 6 0 NE 0 E 0 NW 0 SE 0 W 8	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) White Rock Spring Grapevine Spring Grapevine Spring Bishop Spring Boulder Spring (KSV-2) Bishop Spring Boulder Spring (KSV-3) Narrow Canyon Spring Sawmill Spring (Delamar Range) Sawmill Spring West	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 13 2 1 1 10 3 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	47 86 53 341 58 83 49 64 94 52 93 107 98 97 257 259 258	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.2 -97.3 -88.9 -89.0 -87.4 -94.0 -92.7 -90.9 -92.5 -91.8 -89.3 -92.5 -91.8 -89.3 -92.5 -91.8 -89.3 -95.1 -85.5 -94.0 -81.0 -87.4 -87.4 -87.2 -88.2 -88.2 -88.8 -92.5 -88.7 -91.8	-14.02 -12.92 -12.92 -11.9 -12.22 -11.9 -12.83 -12.83 -12.53 -12.53 -13.15 -12.67 -12.31 -12.83 -13.15 -12.93 -10.60 -11.92 -11.72 -12.247 -12.13 -12.47 -12.58			83 84 87 88 89		sulation
0 9 2 6 0 NE 0 E 0 NW 0 SE 0 W	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Kamp Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) Wamp Spring Grapevine Spring (KSV-2) Bishop Spring Boulder Spring (KSV-3) Narrow Canyon Spring Sawmill Spring (Delamar Range) Sawmill Spring West Upper Riggs Spring WR4 Willow Spring (KSV-1)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 3 2 1 1 1 0 3 4 3 1 1 1 5	47 86 53 341 58 83 49 64 94 94 93 107 98 97 257 259 258 105 92	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.2 -97.3 -88.9 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3 -92.0 -95.1 -85.5 -94.0 -85.5 -94.0 -87.4 -87.2 -89.2 -88.7 -92.5 -88.7 -91.8 -92.5 -88.7 -91.8 -87.4 -91.8 -87.4 -91.8 -87.4 -91.8 -87.4 -91.8 -87.4 -91.8 -87.4 -91.9 -91.9 -92.7 -92.7 -94.0 -87.4 -87.2 -88.2 -88.7 -88.2 -88.7 -88.2 -88.7 -88.2 -88.7 -88.2 -87.2 -88.2 -88.2 -87.2 -88.2 -88.2 -87.2 -88.2 -88.2 -88.2 -87.2 -88.2 -87.2	-14.02 -12.92 -12.22 -11.9 -12.30 -10.60 -12.83 -12.53 -12.53 -12.53 -12.67 -12.31 -12.85 -13.35 -12.93 -10.17 E -12.30 -10.67 E -12.30 -10.77 E -12.30 -10.72 E -12.57 E -12			83 84 87 88 89		sulation
0 9 2 6 0 NE 0 E 0 NW 0 SE 0 W 2 V Ma	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) Bishop Spring Grapevine Spring (KSV-2) Bishop Spring Boulder Spring (KSV-3) Narrow Canyon Spring Sawmill Spring (Delamar Range) Sawmill Spring (Wets Upper Riggs Spring WR4 Willow Spring (KSV-1) CSVM-2	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 1 2 1 1 1 3 4 3 1 1 5 4	47 86 53 341 58 83 49 64 94 52 93 107 98 97 257 259 258 105 92 612	Spring Sp	-104.2 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3 -92.0 -96.0 -95.1 -85.5 -94.0 -87.4 -87.2 -89.2 -89.2 -88.7 -91.8 -82.7 -91.8 -82.7 -91.8 -82.7 -91.8 -82.7 -91.8 -82.7 -91.8 -82.7 -91.8 -82.7 -91.8 -82.7 -91.8 -82.7 -91.8 -82.7 -91.8 -82.7 -91.9 -92.7 -94.0 -87.7 -94.0 -87.7 -91.8 -91.9	-14.02 -12.92 -12.20 -11.9 -12.30 -10.60 -12.83 -12.53 -12.53 -12.53 -12.67 -12.31 -12.85 -12.35 -12.93 -10.17 E -12.30 -10.60 -11.92 -11.72 -12.47 -12.47 -12.58 -12.86 -11.95 -11.60 -13.14			83 84 87 88 89		culation
0 9 2 6 6 0 NE 0 E 0 NW 0 SE 0 W 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. Sheep Range Total Recharge Cow Camp Spring Mormon Well Spring Neep Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (SV-2) Bishop Spring Boulder Spring (KSV-3) Narrow Canyon Spring Sawmill Spring (Vest Upper Riggs Spring WR4 Willow Spring (KSV-1) CSVM-2 CSVM-3	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 13 2 1 1 10 3 4 3 1 1 1 5 4 1 1 5 4 1 1	47 86 53 341 58 83 49 64 93 107 98 97 257 257 257 257 258 105 92 258 105 92 612 613	Spring Sp	-104.2 -97.3 -88.9 -87.4 -94.0 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3 -92.0 -95.1 -85.5 -94.0 -95.1 -85.5 -94.0 -81.0 -87.4 -87.4 -87.2 -88.8 -92.5 -88.7 -91.8 -87.1 -88.4 -97.7 -91.8	-14.02 -12.92 -12.92 -11.9 -12.22 -11.9 -12.30 -10.60 -12.83 -12.53 -12.53 -12.67 -12.31 -12.85 -13.35 -12.93 -10.60 -11.92 -11.72 -12.30 -11.92 -11.72 -12.47 -12.13 -12.47 -12.58 -12.68 -11.95 -11.60 -13.14 -13.10			83 84 87 88 89		sulation
0 9 2 6 0 NE 0 E 0 NW 0 SE 0 W 2 V Ma	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Mormon Well Spring Mormon Well Spring Sawmill Spring (Sheep) White Rock Spring (Sheep) Morand Lake Spring (KSV-2) Bishop Spring Boulder Spring (KSV-4) Kane Springs (KSV-4) Kane Spring (VSV-4) Kane Spring (WS4-4) Varrow Canyon Spring Sawmill Spring (WS4 Willow Spring (KSV-1) CSVM-2 CSVM-3 CSVM-4	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 1 2 1 1 1 3 4 3 1 1 5 4	47 86 53 341 58 83 49 64 94 52 93 107 98 97 257 259 258 105 92 612 613 614	Spring Sp	-104.2 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3 -92.0 -96.0 -95.1 -85.5 -94.0 -87.4 -87.2 -89.2 -89.2 -88.7 -91.8 -82.7 -91.8 -82.7 -91.8 -82.7 -91.8 -82.7 -91.8 -82.7 -91.8 -82.7 -91.8 -82.7 -91.8 -82.7 -91.8 -82.7 -91.8 -82.7 -91.8 -82.7 -91.9 -92.7 -94.0 -87.7 -94.0 -87.7 -91.8 -91.9	-14.02 -12.92 -12.20 -11.9 -12.30 -10.60 -12.83 -12.53 -12.53 -12.53 -12.67 -12.31 -12.85 -12.35 -12.93 -10.17 E -12.30 -10.60 -11.92 -11.72 -12.47 -12.47 -12.58 -12.86 -11.95 -11.60 -13.14			83 84 87 88 89		culation
0 9 2 6 0 NE 0 E 0 NW 0 SE 0 W 2 V Ma	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. Sheep Range Total Recharge Cow Camp Spring Mormon Well Spring Neep Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (SV-2) Bishop Spring Boulder Spring (KSV-3) Narrow Canyon Spring Sawmill Spring (Vest Upper Riggs Spring WR4 Willow Spring (KSV-1) CSVM-2 CSVM-3	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 13 2 1 1 10 3 4 3 1 1 1 5 4 1 1 5 4 1 1	47 86 53 341 58 83 49 64 93 107 98 97 257 257 257 257 258 105 92 258 105 92 612 613	Spring Sp	-104.2 -97.3 -88.9 -87.4 -94.0 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3 -92.0 -95.1 -85.5 -94.0 -95.1 -85.5 -94.0 -81.0 -87.4 -87.4 -87.2 -88.8 -92.5 -88.7 -91.8 -87.1 -88.4 -97.7 -91.8	-14.02 -12.92 -12.92 -11.9 -12.22 -11.9 -12.30 -10.60 -12.83 -12.53 -12.53 -12.67 -12.31 -12.85 -13.35 -12.93 -10.60 -11.92 -11.72 -12.30 -11.92 -11.72 -12.47 -12.13 -12.47 -12.58 -12.68 -11.95 -11.60 -13.14 -13.10			83 84 87 88 89		sulation
0 9 2 6 0 NE 0 E 0 NW 0 SE 0 W 1 V Ma	Coyote Springs Valley Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Mormon Well Spring Mormon Well Spring Sawmill Spring (Sheep) White Rock Spring (Sheep) Morand Lake Spring (KSV-2) Bishop Spring Boulder Spring (KSV-4) Kane Springs (KSV-4) Kane Spring (VSV-4) Kane Spring (WS4-4) Varrow Canyon Spring Sawmill Spring (WS4 Willow Spring (KSV-1) CSVM-2 CSVM-3 CSVM-4	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 3 2 1 1 1 3 3 4 3 1 1 1 5 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	47 86 53 341 58 83 49 64 94 52 93 107 98 97 257 259 258 105 92 612 613 614	Spring Sp	-104.2 -97.3 -89.0 -87.4 -94.0 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3 -92.0 -95.1 -85.5 -94.0 -95.1 -85.5 -94.0 -95.1 -85.5 -94.0 -87.4 -87.2 -88.8 -92.5 -88.7 -91.8 -87.4 -87.2 -88.8 -92.5 -88.7 -91.9 -92.5 -88.7 -91.9 -92.5 -88.7 -91.9 -97.7 -98.0 -98.0 -97.7 -98.0 -98.0 -97.7 -98.0 -98.0 -97.7 -98.0 -90.5 -97.7 -98.0 -90.5 -97.7	-14.02 -12.92 -12.22 -11.9 -12.30 -12.83 -12.53 -12.53 -13.15 -12.31 -12.31 -12.35 -13.35 -13.35 -13.35 -13.35 -13.35 -13.35 -13.35 -13.35 -13.35 -13.35 -12.93 -0.60 -11.92 -11.72 -12.13 -12.47 -12.47 -12.47 -12.47 -12.47 -12.47 -12.47 -12.47 -12.47 -12.47 -12.47 -12.47 -12.47 -12.47 -12.47 -12.47 -12.47 -12.47 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10			83 84 87 88 89		sulation

Carb Well Carb Well Carb Well Carb Well Carb Well CARB ET 219 217	CSI-3 USGS CSV-1 CE-VF-2 Well Fugro CV Deep Well CE-DT-5 CE-DT-4 Carbonate Well (Avg) ET GW Outflow (Muddy) GW Outflow (Hidden)	0 37,700 15,000	1 61 ¹ 1 71 2 81 3 77 1 78 6	Well Well Well Well	-99.6 -103.0 -101.0 -99.6 -102.5 -100.7	-13.03 -13.55 -13.10 -12.96 -13.00 -13.11	-99.6 -99.3 -99.3 -99.3	-13.32
		******		*****).XXXXXXX.)			******
219 205 210 219 S 219 N TR N/S Warm Warm Warm Warm Warm Warm Warm Warm	Upper Moapa (Muddy) Valley Inflow (LMVW) Inflow (Coyote) E. Arrow Canyon? Wildcat Wash Total Recharge Grapevine Spring (KSV-2) APCAR Baldwin Spring Big Muddy Spring Iverson's Spring Jones Spring Pumphouse M-8 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) Pederson's East Pederson's East Pederson's Warm Spring (M-13) Dicharge Warm Spris (Avg) CE-DT-6 Well CSV-2 Well Deep Carbonate Well (Avg) ET Moapa Gage SW Outflow (California) GW Outflow (California)	4,000 37,700 2 36 0 0 2226 5500 0 0 0 200 0 200 0 400 8,300 6,000 34,000 34,000 1,700	10 93 1 29; 9 29; 6 69 1 65 6 29; 1 68 1 70 9 29(15 67 49 2 2 76 4 4	2 Spring Spring Spring Spring Spring Spring Spring Spring Spring Well Well	-93.5 -99.3 -87.4 -87.4 -87.4 -97.6 -97.9 -97.0 -97.9 -99.0 -96.5 -97.8 -97.8 -97.8 -97.9 -97.9 -97.9	-12.59 -13.32 -11.92 -11.92 -12.94 -12.97 -12.89 -13.05 -12.75 -12.45 -12.75 -12.45 -12.93 -12.90 -13.03 -12.92 -12.97	-98.7 -98.7 -98.73 -98.73	-13.25 Flow weighted average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys -13.25 -13.25
217 210	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	15,000			-99.3	-13.32		
217 E 217 W TR W ET 216	E, Hidden W. Hidden Total Recharge Wamp Spring ET	0 42 0	1 52	Spring	-81.0 -81.0 -81.0 -81.0	-10.60 -10.60 -10.60 -10.60	-99.3 -99.3	
	GW Outflow (Garnet) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	15,000 xxxxxxx xx	****	*******		(XXXXX)		
216	Garnet Valley							
217 216 E 216 W TR W Carb Well	Inflow (Hidden) Apex Las Vegas Range Total Recharge Wamp Spring Dry Lake Valley Well GP Apex Well Janamed Well (Near Dry Lake Range) US Lime Well (Genstar) Wells (Avg) ET GW Outflow (California)	15,000 96 100 0 15,100	1 52 1 34 3 17 1 24 1 27 6	Well Well Well	-97.2 -96.0 -97.0	-13.32 -10.60 -10.60 -10.60 -13.30 -13.53 -13.70 -12.75 -13.32	-99.2	-13.32 Inter-basin flow from Hidden Valley -13.30 -13.30
xxxxxxxx	*****	xxxxxxx xx	XXXXXXXXXXXX	хжххххххх		(XXXXX)	(XXXXX)	XXXXXX XXXXX
218	California Wash							

219	SW Inflow (Muddy)	34,000								
205	SW Inflow (LMVW)	0								
219	Inflow (Muddy)	1,700				-98.7	-13.25			
205	Inflow (Lower Meadow VW)	5,300				-93.5	-12.59			
216	Inflow (Garnet)	15,100				-99.2	-13.30			
218 E	Moapa Paiutes	0				-82.0	-10.60		110	
218 W	Muddy Mtns.	0							111	
						-82.0	-10.60		111	
TR	Total Recharge	0				0.0	0.00			
W	Valley of Fire Well		1	31	Well	-82.0	-10.60			
Carb Well	Calpine Test Well 1a		1	43	Well	-99.0	-13.50			
Carb Well	Moapa Well		1	41	Well	-99.0	-13.40			
								07.0	12 12 Wainhia	Average of Information flow from Connet and Unner Macno Vallava
CARB	Carbonate Well (Avg)					-99.0	-13.45	-97.8		d <mark>Aver</mark> age of Infterbasin flow from Garnet and Upper Moapa Valleys
ET	ET	4,500						-97.8	-13.12	
220	GW Outflow (Lower Moapa)	18,900						-97.8	-13.12	
215	GW Outflow (Black Mtn Area)	2,000						-97.8	-13.12	
220	SW Outflow (Lower Moapa)	30,700								
	~~~~~~~~								~~~~	
*****	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXX	XXXXXX	XXXXXXX		. XXXXXX .)	XXXXXX X	XXXXX	<b>(XXXXX XXXXXX</b>	
215	Black Mountains Area									
215	Black Mountains Area									
218	Inflow (California Wash)	2,000				-97.8	-13.12			
215 NE	Muddy Mtns.	0				-85.0	-10.95		113	
215 SE	Black Mtns.	0				-79.5	-10.65		114	
215 W	Gypsum Wash	0				-79.5	-10.65		112, 166	
TR		ŏ							,	
	Total Recharge					0.0	0.00			
SE	Cottonwood Spring (Black Mtns.)	0	1	8	Spring	-80.0	-10.80			
SE	Sandstone Spring	0	1	10	Spring	-79.0	-10.50			
NE	Unnamed, Kaolin Wash		1	35						
					Spring	-88.0	-11.30			
NE	Valley of Fire Well		1	31	Well	-82.0	-10.60			
Alluvial Spri	Bitter Spring	5	1	14	Spring	-77.0	-9.90			
	Blue Point Spring	440	5	26						
Carb Spr					Spring	-92.6	-12.40			
Carb Spr	Corral Spring (Unnamed Spring)	0	1	19	Spring	-91.5	-12.10			
Carb Spr	Rogers Spring	1,200	3	21	Spring	-91.7	-12.33			
		0	1							
Carb Spr	Scirpus Spring (No spring on Map)			20	Spring	-90.0	-12.00			
							-11.20			
Carb Spr	VF Spring 1	0	1	28	Spring	-88.0	-11.20			
Carb Spr	VF Spring 2	6	1	29	Spring	-92.0	-11.80			
Carb Spr Carb Spr	VF Spring 2 VF Spring 3	6 17	1			-92.0 -93.0	-11.80 -12.20			
Carb Spr	VF Spring 2	6	1	29	Spring	-92.0	-11.80	-97.8	-13.12 Weighted	Average of Inflow from Califronia Wash
Carb Spr Carb Spr CARB	VF Spring 2 VF Spring 3 Carbonate Spr (Avg)	6 17 1,663	1	29	Spring	-92.0 -93.0	-11.80 -12.20			Average of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET	6 17 1,663 <b>1,400</b>	1	29	Spring	-92.0 -93.0	-11.80 -12.20	-97.8	-13.12	Average of Inflow from Califronia Wash
Carb Spr Carb Spr CARB	VF Spring 2 VF Spring 3 Carbonate Spr (Avg)	6 17 1,663	1	29	Spring	-92.0 -93.0	-11.80 -12.20			Average of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River)	6 17 1,663 <b>1,400</b> 600	1 1 13	29 30	Spring Spring	-92.0 -93.0 <b>-91.3</b>	-11.80 -12.20 <b>-12.01</b>	-97.8 -97.8	-13.12 -13.12	
Carb Spr Carb Spr CARB ET 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River)	6 17 1,663 <b>1,400</b> 600	1 1 13	29 30	Spring Spring	-92.0 -93.0 <b>-91.3</b>	-11.80 -12.20 <b>-12.01</b>	-97.8 -97.8	-13.12 -13.12	
Carb Spr Carb Spr CARB ET 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River)	6 17 1,663 <b>1,400</b> 600	1 1 13	29 30	Spring Spring	-92.0 -93.0 <b>-91.3</b>	-11.80 -12.20 <b>-12.01</b>	-97.8 -97.8	-13.12 -13.12	
Carb Spr Carb Spr CARB ET 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 <b>1,400</b> 600	1 1 13	29 30	Spring Spring	-92.0 -93.0 <b>-91.3</b>	-11.80 -12.20 <b>-12.01</b>	-97.8 -97.8	-13.12 -13.12	
Carb Spr Carb Spr CARB ET 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River)	6 17 1,663 <b>1,400</b> 600	1 1 13	29 30	Spring Spring	-92.0 -93.0 <b>-91.3</b>	-11.80 -12.20 <b>-12.01</b>	-97.8 -97.8	-13.12 -13.12	
Carb Spr Carb Spr CARB ET 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 <b>1,400</b> 600	1 1 13	29 30	Spring Spring	-92.0 -93.0 <b>-91.3</b>	-11.80 -12.20 <b>-12.01</b>	-97.8 -97.8	-13.12 -13.12	
Carb Spr Carb Spr CARB ET 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 <b>1,400</b> 600	1 1 13	29 30	Spring Spring	-92.0 -93.0 <b>-91.3</b>	-11.80 -12.20 <b>-12.01</b>	-97.8 -97.8	-13.12 -13.12	
Carb Spr Carb Spr CARB ET 999 XXXXXXXXX 220 218	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXXXXXX 18,900	1 1 13	29 30	Spring Spring	-92.0 -93.0 <b>-91.3</b> XXXXXX D	-11.80 -12.20 <b>-12.01</b>	-97.8 -97.8	-13.12 -13.12	
Carb Spr Carb Spr CARB ET 999 XXXXXXXXX 220 218 218	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXX X3 18,900 30,700	1 1 13	29 30	Spring Spring	-92.0 -93.0 <b>-91.3</b> XXXXXX D	-11.80 -12.20 -12.01	-97.8 -97.8	-13.12 -13.12	
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 S	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXXXXX 18,900 30,700 0	1 1 13	29 30	Spring Spring	-92.0 -93.0 -91.3 XXXXXX D -97.8 -88.0	-11.80 -12.20 -12.01 (XXXXXX X -13.12 -11.30	-97.8 -97.8	-13.12 -13.12 (XXXXXX XXXXXXX 101	
Carb Spr Carb Spr CARB ET 999 XXXXXXXXX 220 218 218	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXX X3 18,900 30,700	1 1 13	29 30	Spring Spring	-92.0 -93.0 <b>-91.3</b> XXXXXX D	-11.80 -12.20 -12.01	-97.8 -97.8	-13.12 -13.12	
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 S 220 N	VF Spring 2 VF Spring 3 Carbonate Spr (Avy) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXXXXX 18,900 30,700 0	1 1 13	29 30	Spring Spring	-92.0 -93.0 -91.3 XXXXXX 3 -97.8 -88.0 -88.3	-11.80 -12.20 -12.01 (XXXXXX X -13.12 -11.30 -12.50	-97.8 -97.8	-13.12 -13.12 (XXXXXX XXXXXXX 101	
Carb Spr Carb Spr CARB ET 999 XXXXXXXXX 220 218 218 220 S 220 N TR	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 600 XXXXXXXX X 18,900 30,700 0 33	1 1 13	29 30	Spring Spring	-92.0 -93.0 -91.3 XXXXXX 3 -97.8 -88.0 -88.3 -88.3	-11.80 -12.20 -12.01 (XXXXX X -13.12 -11.30 -12.50 -12.50	-97.8 -97.8	-13.12 -13.12 (XXXXXX XXXXXXX 101	
Carb Spr Carb Spr CARB ET 999 XXXXXXXXX 220 218 218 220 N 218 220 N TR N	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 600 XXXXXXXX X 18,900 30,700 0 33	1 1 13 ******	29 30 <b>XKXXXXX</b> 90	Spring Spring	-92.0 -93.0 -91.3 XXXXXX J -97.8 -88.0 -88.3 -88.3 -88.3 -89.0	-11.80 -12.20 -12.01 (XXXXXX X -13.12 -11.30 -12.50 -12.50 -12.50	-97.8 -97.8	-13.12 -13.12 (XXXXXX XXXXXXX 101	
Carb Spr Carb Spr CARB ET 999 XXXXXXXXX 220 218 218 220 S 220 N TR	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 600 XXXXXXXX X 18,900 30,700 0 33	1 1 13	29 30	Spring Spring	-92.0 -93.0 -91.3 XXXXXX 3 -97.8 -88.0 -88.3 -88.3	-11.80 -12.20 -12.01 (XXXXX X -13.12 -11.30 -12.50 -12.50	-97.8 -97.8	-13.12 -13.12 (XXXXXX XXXXXXX 101	
Carb Spr Carb Spr CARB ET 999 XXXXXXXXX 220 218 218 220 N 218 220 N TR N	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 600 XXXXXXXX X 18,900 30,700 0 33	1 1 13 ******	29 30 *******	Spring Spring	-92.0 -93.0 -91.3 XXXXXXX ) -97.8 -88.0 -88.3 -88.3 -88.0 -88.3 -88.0 -87.0	-11.80 -12.20 -12.01 -12.01 (XXXXXX X -13.12 -13.12 -11.30 -12.50 -12.50 -12.30	-97.8 -97.8	-13.12 -13.12 (XXXXXX XXXXXXX 101	
Carb Spr Carb Spr CARB ET 999 XXXXXXXXX 220 218 218 220 S 220 N TR N N N	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 600 XXXXXXXX X 18,900 30,700 0 33	1 1 13 (XXXXXX)	29 30 ***********************************	Spring Spring XXXXXXXXXX Spring Spring Spring	-92.0 -93.0 -91.3 XXXXXXX X -97.8 -88.0 -88.3 -88.3 -88.3 -88.3 -89.0 -87.0 -89.0	-11.80 -12.20 -12.01 (XXXXXX X -13.12 -11.30 -12.50 -12.50 -12.50 -12.30 -12.70	-97.8 -97.8	-13.12 -13.12 (XXXXXX XXXXXXX 101	
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 S 220 N TR N N N N S	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 600 XXXXXXXX X 18,900 30,700 0 33	1 1 13 <b>XXXXXX</b> 1 1	29 30 *********	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Spring	-92.0 -93.0 -91.3 XXXXXX 3 -97.8 -88.0 -88.0 -88.3 -88.3 -89.0 -87.0 -89.0 -87.0 -89.0	-11.80 -12.20 -12.01 (XXXXXX X -13.12 -11.30 -12.50 -12.50 -12.50 -12.20 -12.70 -12.30 -12.70 -12.30 -12.70 -11.30	-97.8 -97.8	-13.12 -13.12 (XXXXXX XXXXXXX 101	
Carb Spr Carb Spr CARB ET 999 XXXXXXXXX 220 218 218 220 S 220 N TR N N N	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 600 XXXXXXXX X 18,900 30,700 0 33	1 1 13 (XXXXXX)	29 30 ***********************************	Spring Spring XXXXXXXXXX Spring Spring Spring	-92.0 -93.0 -91.3 XXXXXXX X -97.8 -88.0 -88.3 -88.3 -88.3 -88.3 -89.0 -87.0 -89.0	-11.80 -12.20 -12.01 (XXXXXX X -13.12 -11.30 -12.50 -12.50 -12.50 -12.30 -12.70	-97.8 -97.8	-13.12 -13.12 (XXXXXX XXXXXXX 101	
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 218 220 X 220 N TR N N N N N S S Carb Well	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 600 XXXXXXXX X 18,900 30,700 0 33	1 1 13 (XXXXXX)	29 30 ***********************************	Spring Spring XXXXXXXXXXX Spring Spring Spring Spring Well		-11.80 -12.20 -12.01 -12.01 -13.12 -13.12 -11.30 -12.50 -12.50 -12.30 -12.30 -12.30 -12.30 -12.45	-97.8 -97.8	-13.12 -13.12 (XXXXXX XXXXXXX 101	
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 S 220 N TR N N N N S Carb Well Carb Well	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 600 XXXXXXXX X 18,900 30,700 0 33	1 1 13 (XXXXXX) 1 1 1 1 1 1 1	29 30 *********	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Spring	-92.0 -93.0 -91.3 XXXXXXX X -97.8 -88.0 -88.3 -88.0 -88.3 -88.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -81.0 -91.0	-11.80 -12.20 -12.01 -12.01 -13.12 -13.12 -13.12 -11.30 -12.50 -12.50 -12.30 -12.70 -11.30 -12.45 -12.70	-97.8 -97.8 XXXXX )	-13.12 -13.12 (XXXXX XXXXXX 101 102	
Carb Spr Carb Spr CARB ET 999 XXXXXXXXX 220 218 218 220 S 220 N TR N N N N N S Carb Well CARB	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXXX XX 18,900 30,700 0 33 0	1 1 13 ********	29 30 ***********************************	Spring Spring XXXXXXXXXXX Spring Spring Spring Spring Well		-11.80 -12.20 -12.01 -12.01 -13.12 -13.12 -11.30 -12.50 -12.50 -12.30 -12.30 -12.30 -12.30 -12.45	-97.8 -97.8 XXXXX 3	-13.12 -13.12 (XXXXX XXXXXX 101 102 -12.59 Inter-bas	
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 S 220 N TR N N N N S Carb Well Carb Well	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 600 XXXXXXXX X 18,900 30,700 0 33	1 1 13 (XXXXXX) 1 1 1 1 1 1 1	29 30 ***********************************	Spring Spring XXXXXXXXXXX Spring Spring Spring Spring Well	-92.0 -93.0 -91.3 XXXXXXX X -97.8 -88.0 -88.3 -88.0 -88.3 -88.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -81.0 -91.0	-11.80 -12.20 -12.01 -12.01 -13.12 -13.12 -13.12 -11.30 -12.50 -12.50 -12.30 -12.70 -11.30 -12.45 -12.70	-97.8 -97.8 XXXXX )	-13.12 -13.12 (XXXXX XXXXXX 101 102	
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 218 220 8 220 N TR N N N N S Carb Well CARB ET	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXX XX 18,900 30,700 0 33,700 0 33 0	1 1 13 (XXXXXX) 1 1 1 1 1 1 1	29 30 ***********************************	Spring Spring XXXXXXXXXXX Spring Spring Spring Spring Well	-92.0 -93.0 -91.3 XXXXXXX X -97.8 -88.0 -88.3 -88.0 -88.3 -88.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -81.0 -91.0	-11.80 -12.20 -12.01 -12.01 -13.12 -13.12 -13.12 -11.30 -12.50 -12.50 -12.30 -12.70 -11.30 -12.45 -12.70	-97.8 -97.8 XXXXX 2 -93.5 -97.8	-13.12 -13.12 (XXXXX XXXXXX 101 102 -12.59 Inter-bas -13.12	
Carb Spr Carb Spr CARB ET 9999 XXXXXXXX 220 218 218 220 218 220 X 220 X TR N N N N N S Carb Well Carb Well CARB ET 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXX XX 18,900 30,700 0 33,700 0 33 0	1 1 13 (XXXXXX) 1 1 1 1 1 1 1	29 30 ***********************************	Spring Spring XXXXXXXXXXX Spring Spring Spring Spring Well	-92.0 -93.0 -91.3 XXXXXXX X -97.8 -88.0 -88.3 -88.0 -88.3 -88.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -81.0 -91.0	-11.80 -12.20 -12.01 -12.01 -13.12 -13.12 -13.12 -11.30 -12.50 -12.50 -12.30 -12.70 -11.30 -12.45 -12.70	-97.8 -97.8 XXXXX 3	-13.12 -13.12 (XXXXX XXXXXX 101 102 -12.59 Inter-bas	
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 218 220 8 220 N TR N N N N S Carb Well CARB ET	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXX XX 18,900 30,700 0 33,700 0 33 0	1 1 13 (XXXXXX) 1 1 1 1 1 1 1	29 30 ***********************************	Spring Spring XXXXXXXXXXX Spring Spring Spring Spring Well	-92.0 -93.0 -91.3 XXXXXXX X -97.8 -88.0 -88.3 -88.0 -88.3 -88.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -81.0 -91.0	-11.80 -12.20 -12.01 -12.01 -13.12 -13.12 -13.12 -11.30 -12.50 -12.50 -12.30 -12.70 -11.30 -12.45 -12.70	-97.8 -97.8 XXXXX 2 -93.5 -97.8	-13.12 -13.12 (XXXXX XXXXXX 101 102 -12.59 Inter-bas -13.12	
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 218 220 8 220 N TR N N N N S Carb Well CARB ET 999 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXX XX 18,900 30,700 0 33 0 0 25,300 15,300 9,000	1 1 13 <b>*******</b>	29 30 <b>xxxxxxxx</b> 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	-92.0 -93.0 -91.3 XXXXXX 7 -97.8 -88.0 -88.0 -88.3 -88.3 -89.0 -87.0 -89.0 -87.0 -91.0 -91.0	-11.80 -12.20 -12.01 (XXXXXX  X -13.12 -11.30 -12.50 -12.50 -12.50 -12.50 -12.70 -12.45 -12.70 -12.58	-97.8 -97.8 XXXXX 2 -93.5 -97.8 -97.8	-13.12 -13.12 (XXXXX XXXXXX 101 102 -12.59 Inter-bas -13.12 -13.12	in flow from Lower Meadow Valley Wash
Carb Spr Carb Spr CARB ET 9999 XXXXXXXX 220 218 218 220 218 220 X 220 X TR N N N N N S Carb Well Carb Well CARB ET 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXX XX 18,900 30,700 0 33 0 0 25,300 15,300 9,000	1 1 13 <b>*******</b>	29 30 <b>xxxxxxxx</b> 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	-92.0 -93.0 -91.3 XXXXXX 7 -97.8 -88.0 -88.0 -88.3 -88.3 -89.0 -87.0 -89.0 -87.0 -91.0 -91.0	-11.80 -12.20 -12.01 (XXXXXX  X -13.12 -11.30 -12.50 -12.50 -12.50 -12.50 -12.70 -12.45 -12.70 -12.58	-97.8 -97.8 XXXXX 2 -93.5 -97.8 -97.8	-13.12 -13.12 (XXXXX XXXXXX 101 102 -12.59 Inter-bas -13.12	in flow from Lower Meadow Valley Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 218 220 XXXXXXXX N N N N S Carb Well CARB ET 999 999 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avy) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXX XX 18,900 30,700 0 33 0 0 25,300 15,300 9,000	1 1 13 <b>*******</b>	29 30 <b>xxxxxxxx</b> 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	-92.0 -93.0 -91.3 XXXXXX 7 -97.8 -88.0 -88.0 -88.3 -88.3 -89.0 -87.0 -89.0 -87.0 -91.0 -91.0	-11.80 -12.20 -12.01 (XXXXXX  X -13.12 -11.30 -12.50 -12.50 -12.50 -12.50 -12.70 -12.45 -12.70 -12.58	-97.8 -97.8 XXXXX 2 -93.5 -97.8 -97.8	-13.12 -13.12 (XXXXX XXXXXX 101 102 -12.59 Inter-bas -13.12 -13.12	in flow from Lower Meadow Valley Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 218 220 8 220 N TR N N N N S Carb Well CARB ET 999 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXX XX 18,900 30,700 0 33 0 0 25,300 15,300 9,000	1 1 13 <b>*******</b>	29 30 <b>xxxxxxxx</b> 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	-92.0 -93.0 -91.3 XXXXXX 7 -97.8 -88.0 -88.0 -88.3 -88.3 -89.0 -87.0 -89.0 -87.0 -91.0 -91.0	-11.80 -12.20 -12.01 (XXXXXX  X -13.12 -11.30 -12.50 -12.50 -12.50 -12.50 -12.70 -12.45 -12.70 -12.58	-97.8 -97.8 XXXXX 2 -93.5 -97.8 -97.8	-13.12 -13.12 (XXXXX XXXXXX 101 102 -12.59 Inter-bas -13.12 -13.12	in flow from Lower Meadow Valley Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 218 220 8 220 N TR N N N S Carb Well CArb ET 999 999 209 XXXXXXXXXXXXXXXXXXXXXXXXXXX	YF Spring 2 YF Spring 3 Carbonate Spri (Avs) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXX XX 18,900 30,700 0 33 0 25,300 15,300 9,000 XXXXXXX XX	1 1 13 <b>*******</b>	29 30 <b>xxxxxxxx</b> 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	-92.0 -93.0 -91.3 XXXXXX 3 -97.8 -88.0 -88.0 -88.3 -89.0 -88.0 -87.0 -88.0 -89.0 -81.0 -91.0 -91.0 XXXXXX 3	-11.80 -12.20 -12.01 (XXXXXX X -13.12 -11.30 -12.50 -12.50 -12.50 -12.50 -12.70 -11.30 -12.45 -12.70 -12.58	-97.8 -97.8 XXXXX 2 -93.5 -97.8 -97.8	-13.12 -13.12 (XXXXX XXXXXX 101 102 -12.59 Inter-bas -13.12 -13.12	in flow from Lower Meadow Valley Wash
Carb Spr Carb Spr CARB ET 9999 XXXXXXXX 220 218 220 218 220 218 220 218 220 XXXXXXXX N N N N N S Carb Well Carb Well Carb Well Carb Well Carb Well Carb Well Carb Well Carb Well Carb Well Carb R 210	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXX XX 18,900 30,700 0 33 0 25,300 15,300 9,000 XXXXXXX XX 600	1 1 13 <b>*******</b>	29 30 <b>xxxxxxxx</b> 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	-92.0 -93.0 -91.3 XXXXXX X -97.8 -88.3 -88.3 -88.0 -87.0 -87.0 -88.0 -87.0 -87.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.0	-11.80 -12.20 -12.01 -12.01 (XXXXX X -13.12 -11.30 -12.50 -12.50 -12.50 -12.50 -12.30 -12.45 -12.70 -12.45 -12.70 -12.58 (XXXXX X -13.12	-97.8 -97.8 XXXXX 2 -93.5 -97.8 -97.8	-13.12 -13.12 (XXXXX XXXXXX 101 102 -12.59 Inter-bas -13.12 -13.12	in flow from Lower Meadow Valley Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 218 220 8 220 N TR N N N S Carb Well CArb ET 999 999 209 XXXXXXXXXXXXXXXXXXXXXXXXXXX	YF Spring 2 YF Spring 3 Carbonate Spri (Avs) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXX XX 18,900 30,700 0 33 0 25,300 15,300 9,000 XXXXXXX XX	1 1 13 <b>*******</b>	29 30 <b>xxxxxxxx</b> 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	-92.0 -93.0 -91.3 XXXXXX 3 -97.8 -88.0 -88.0 -88.3 -89.0 -88.0 -87.0 -88.0 -89.0 -81.0 -91.0 -91.0 XXXXXX 3	-11.80 -12.20 -12.01 (XXXXXX X -13.12 -11.30 -12.50 -12.50 -12.50 -12.50 -12.70 -11.30 -12.45 -12.70 -12.58	-97.8 -97.8 XXXXX 2 -93.5 -97.8 -97.8	-13.12 -13.12 (XXXXX XXXXXX 101 102 -12.59 Inter-bas -13.12 -13.12	in flow from Lower Meadow Valley Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 218 218 220 S 220 N TR N N N S S Carb Well Carb Well CARB ET 999 999 XXXXXXXX Colorado R 210 205	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXXX X 18,900 30,700 0 33,700 0 33 0 25,300 15,300 9,000 XXXXXXXX X 600 15,300	1 1 13 <b>*******</b>	29 30 <b>xxxxxxxx</b> 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	-92.0 -93.0 -91.3 XXXXXX X -97.8 -88.3 -88.3 -88.0 -87.0 -87.0 -88.0 -87.0 -87.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.0	-11.80 -12.20 -12.01 -12.01 (XXXXX X -13.12 -11.30 -12.50 -12.50 -12.50 -12.50 -12.30 -12.45 -12.70 -12.45 -12.70 -12.58 (XXXXX X -13.12	-97.8 -97.8 XXXXX 2 -93.5 -97.8 -97.8 -97.8	-13.12 -13.12 (XXXXX XXXXXX 101 102 -12.59 Inter-bas -13.12 -13.12 (XXXXX XXXXXX	in flow from Lower Meadow Valley Wash
Carb Spr Carb Spr CARB ET 9999 XXXXXXXX 220 218 220 218 220 218 220 218 220 XXXXXXXX N N N N N S Carb Well Carb Well Carb Well Carb Well Carb Well Carb Well Carb Well Carb Well Carb Well Carb R 210	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXX XX 18,900 30,700 0 33 0 25,300 15,300 9,000 XXXXXXX XX 600	1 1 13 <b>*******</b>	29 30 <b>xxxxxxxx</b> 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	-92.0 -93.0 -91.3 XXXXXX X -97.8 -88.3 -88.3 -88.0 -87.0 -87.0 -88.0 -87.0 -87.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.0	-11.80 -12.20 -12.01 -12.01 (XXXXX X -13.12 -11.30 -12.50 -12.50 -12.50 -12.50 -12.30 -12.45 -12.70 -12.45 -12.70 -12.58 (XXXXX X -13.12	-97.8 -97.8 XXXXX 2 -93.5 -97.8 -97.8 -97.8	-13.12 -13.12 (XXXXX XXXXXX 101 102 -12.59 Inter-bas -13.12 -13.12	in flow from Lower Meadow Valley Wash
Carb Spr Carb Spr CARB ET 9999 XXXXXXXX 220 218 218 220 218 220 218 220 XXXXXXXX N N N N N S Carb Well CARB ET 999 999 3999 XXXXXXXXXXXXXXXXXXXXXXXXX	VF Spring 2 VF Spring 3 Carbonate Spri (Avs) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXX XX 18,900 30,700 0 33 0 25,300 15,300 9,000 XXXXXXX XX 600 15,300 15,300	1 1 13 <b>*******</b>	29 30 <b>xxxxxxxx</b> 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	-92.0 -93.0 -91.3 XXXXXX X -97.8 -88.3 -88.3 -88.0 -87.0 -87.0 -88.0 -87.0 -87.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.0	-11.80 -12.20 -12.01 -12.01 (XXXXX X -13.12 -11.30 -12.50 -12.50 -12.50 -12.50 -12.30 -12.45 -12.70 -12.45 -12.70 -12.58 (XXXXX X -13.12	-97.8 -97.8 XXXXX 2 -93.5 -97.8 -97.8 -97.8	-13.12 -13.12 (XXXXX XXXXXX 101 102 -12.59 Inter-bas -13.12 -13.12 (XXXXX XXXXXX	in flow from Lower Meadow Valley Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 218 218 220 S 220 N TR N N N S S Carb Well Carb Well CARB ET 999 999 XXXXXXXX Colorado R 210 205	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,663 1,400 600 XXXXXXXX X 18,900 30,700 0 33,700 0 33 0 25,300 15,300 9,000 XXXXXXXX X 600 15,300	1 1 13 <b>*******</b>	29 30 <b>xxxxxxxx</b> 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	-92.0 -93.0 -91.3 XXXXXX X -97.8 -88.3 -88.3 -88.0 -87.0 -87.0 -88.0 -87.0 -87.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.0	-11.80 -12.20 -12.01 -12.01 (XXXXX X -13.12 -11.30 -12.50 -12.50 -12.50 -12.50 -12.30 -12.45 -12.70 -12.45 -12.70 -12.58 (XXXXX X -13.12	-97.8 -97.8 XXXXX 2 -93.5 -97.8 -97.8 -97.8	-13.12 -13.12 (XXXXX XXXXXX 101 102 -12.59 Inter-bas -13.12 -13.12 (XXXXX XXXXXX	in flow from Lower Meadow Valley Wash

999	Surface water Total	9,000						_
999	Inflow Total	24,900						
XXXXXXX		XXXXXXX XX	xxxxx	XKXXXXX	xxxxxxx		xxxxx	XXXXXX XXXXXX XXXXXX
183	Lake Valley							
0	Inflow (None)	0				0.0	0.00	
183 NE	Fortification Rng	1,517				-106.3	-14.16	49
183 NW	Cen. Schell Cr. Rng	4,239				-108.1	-14.74	51
183 SE	Wilson Cr. Rng. @ Atlanta	4,816				-104.7	-13.75	50
183 SW	Fairview Rng.	1,737				-101.1	-13.29	60
TR	Total Recharge	12,300			<b>.</b> .	-105.5	-14.08	
NE	Indian Springs	700	1	375	Spring	-106.3	-14.16	
NW NW	Big Spring North	700	1	211	Spring	-112.0	-15.10	
NW	Big Spring South Geyser Spring	1,600 340	1	210 213	Spring Spring	-111.0 -105.0	-14.80 -14.50	
NW	North Creek Spring	1,200	1	213	Spring	-105.0	-14.50	
NW	Patterson Pass Spring WR3	1,200	15	305	Spring	-108.4	-14.95	
NW	Unnamed Spring in Schell Creek Range		4	304	Spring	-107.3	-14.48	
SE	Headwaters Spring WR5		17	309	Spring	-107.3	-14.57	
SE	Bailey Spring (Wilson Ck)		1	310	Spring	-102.0	-12.93	
SE	Wilson Creek		1	189	Surface	-97.5		Surface Water not included in recharge average
SW	Cottonwood Spring (Fairview)		1	274	Spring	-102.2	-13.40	<b>3 1 1 1 1 1</b>
SW	Lower Pony Spring		2	190	Spring	-101.0	-13.25	
SW	Indian Spring near Steward Ranch		1	188	Spring	-102.0	-13.60	
SW	Unnamed Spring near Pony Spring		1	191	Spring	-99.0	-12.90	
ET	ET	6,700						-105.5 -14.08
202	GW Outflow (Patterson)	5,600						-105.5 -14.08
XXXXXXX	**	XXXXXXX X	(XXXXX	XXXXXX	xxxxxxx	DXXXXXX	XXXXXX	XXXXXX XXXXXX XXXXXX
202	Patterson Valley							
183	Inflow (Lake)	5,600						
		3,000				-105.5	-14.08	
202 E	Wilson Cr. Rng. @ Mt. Wilson	6,542				-105.5 -97.7	-14.08 -12.99	47
202 W								47 48
202 W TR	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge	6,542				-97.7 -99.2 <b>-98.3</b>	-12.99 -13.10 <b>-13.03</b>	
202 W TR E	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. <b>Total Recharge</b> Bailey Spring (Wilson Ck)	6,542 4,039	1	310	Spring	-97.7 -99.2 <b>-98.3</b> -102.0	-12.99 -13.10 <b>-13.03</b> -12.93	
202 W TR E E	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. <b>Total Recharge</b> Bailey Spring (Wilson Ck) Blue Rock Spring	6,542 4,039	1	311	Spring	-97.7 -99.2 <b>-98.3</b> -102.0 -93.4	-12.99 -13.10 <b>-13.03</b> -12.93 -12.68	
202 W TR E E E	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. <b>Total Recharge</b> Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5	6,542 4,039	1 17	311 309	Spring Spring	-97.7 -99.2 <b>-98.3</b> -102.0 -93.4 -107.3	-12.99 -13.10 <b>-13.03</b> -12.93 -12.68 -14.57	
202 W TR E E E E	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. <b>Total Recharge</b> Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring	6,542 4,039	1 17 1	311 309 312	Spring Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.3	-12.99 -13.10 <b>-13.03</b> -12.93 -12.68 -14.57 -12.30	
202 W TR E E E E E E	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Parsnip Spring	6,542 4,039	1 17 1 1	311 309 312 180	Spring Spring Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.3 -93.5	-12.99 -13.10 <b>-13.03</b> -12.93 -12.68 -14.57 -12.30 -12.80	
202 W TR E E E E E E E	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Parsnip Spring Horsethief Spring	6,542 4,039	1 17 1 1 2	311 309 312 180 314	Spring Spring Spring Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.3 -93.5 -97.0	-12.99 -13.10 -13.03 -12.93 -12.68 -14.57 -12.30 -12.80 -12.68	48
202 W TR E E E E E E E	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. <b>Total Recharge</b> Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Parsnip Spring Horsethief Spring Wilson Creek	6,542 4,039	1 17 1 2 1	311 309 312 180 314 189	Spring Spring Spring Spring Spring Surface	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.3 -93.5 -97.0 -97.5	-12.99 -13.10 -13.03 -12.93 -12.68 -14.57 -12.30 -12.80 -12.68 -13.20	
202 W TR E E E E E E E W	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. <b>Total Recharge</b> Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Parsnip Spring Horsethief Spring Wilson Creek Deadman Spring (Highland)	6,542 4,039	1 17 1 2 1 2	311 309 312 180 314 189 162	Spring Spring Spring Spring Spring Surface Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.3 -93.5 -97.0 -97.5 -95.0	-12.99 -13.10 -13.03 -12.93 -12.68 -14.57 -12.30 -12.80 -12.68 -13.20 -12.07	48
202 W TR E E E E E E E	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Parsnip Spring Horsethief Spring Wilson Creek Deadman Spring (Highland) Highland Spring	6,542 4,039	1 17 1 2 1	311 309 312 180 314 189	Spring Spring Spring Spring Surface Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.3 -93.5 -97.0 -97.5	-12.99 -13.10 -13.03 -12.93 -12.68 -14.57 -12.30 -12.80 -12.68 -13.20	48 Surface Water not included in recharge average
202 W TR E E E E E E W W	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. <b>Total Recharge</b> Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Parsnip Spring Horsethief Spring Wilson Creek Deadman Spring (Highland)	6,542 4,039	1 17 1 2 1 2 3	311 309 312 180 314 189 162 163	Spring Spring Spring Spring Spring Surface Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.3 -93.5 -97.0 -97.5 -95.0 -99.1	-12.99 -13.10 -13.03 -12.93 -12.68 -14.57 -12.30 -12.80 -12.68 -13.20 -12.07 -13.36	48 Surface Water not included in recharge average
202 W TR E E E E E E W W W	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Parsnip Spring Horsethief Spring Wilson Creek Deadman Spring (Highland) Highland Spring Lime Spring	6,542 4,039	1 17 1 2 1 2 3 2	311 309 312 180 314 189 162 163 160	Spring Spring Spring Spring Surface Spring Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.3 -93.5 -97.0 -97.5 -95.0 -99.1 -98.5	-12.99 -13.10 -13.03 -12.93 -12.68 -14.57 -12.30 -12.80 -12.68 -13.20 -12.07 -13.36 -13.16	48 Surface Water not included in recharge average
202 W TR E E E E E W W W W	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Parsnip Spring Horsethief Spring Wilson Creek Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring	6,542 4,039	1 17 1 2 1 2 3 2 2	311 309 312 180 314 189 162 163 160 157	Spring Spring Spring Spring Surface Spring Spring Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.3 -93.5 -97.0 -97.5 -95.0 -99.1 -98.5 -99.0	-12.99 -13.10 -13.03 -12.93 -12.68 -14.57 -12.30 -12.80 -12.80 -13.80 -13.16 -13.37	48 Surface Water not included in recharge average
202 W TR E E E E E W W W W W W W W W W W W W W	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Parsnip Spring Horsethief Spring Wilson Creek Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Upper Conner Spring	6,542 4,039	1 17 1 2 1 2 3 2 2 1	311 309 312 180 314 189 162 163 160 157 156	Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.3 -93.5 -97.0 -97.5 -95.0 -99.1 -98.5 -99.0 -102.3	-12.99 -13.10 -13.03 -12.93 -12.68 -14.57 -12.30 -12.80 -12.68 -13.20 -12.07 -13.36 -13.16 -13.37 -13.88	48 Surface Water not included in recharge average
202 W TR E E E E E W W W W W W W W W W W W W W	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Horsethief Spring Wilson Creek Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Upper Conner Spring Connor Spring Fox Cabin Scotty Spring	6,542 4,039	1 17 1 2 1 2 3 2 2 1 1 1 1	311 309 312 180 314 189 162 163 160 157 156 283 273 272	Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.5 -97.0 -97.5 -95.0 -99.0 -102.3 -100.6 -100.5 -98.9	-12.99 -13.10 -13.03 -12.93 -12.68 -14.57 -12.30 -12.80 -12.80 -12.68 -13.20 -12.07 -13.36 -13.16 -13.37 -13.88 -13.84 -13.59 -12.73	48 Surface Water not included in recharge average
202 W TR E E E E E E W W W W W W W W W W W W W	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Parsnip Spring Horsethief Spring Wilson Creek Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Upper Conner Spring Connor Spring Fox Cabin Scotty Spring Upper Fairview	6,542 4,039	1 17 1 2 1 2 3 2 2 1 1 1 1 1	311 309 312 180 314 189 162 163 160 157 156 283 273 272 280	Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.4 -93.3 -93.5 -97.0 -97.5 -95.0 -99.1 -98.5 -99.0 -99.1 -98.5 -99.0 -102.3 -100.6 -103.5 -98.9 -97.7	-12.99 -13.10 -13.03 -12.93 -12.68 -14.57 -12.30 -12.68 -13.20 -12.68 -13.16 -13.16 -13.37 -13.88 -13.84 -13.59 -12.73 -12.66	48 Surface Water not included in recharge average
202 W TR E E E E E W W W W W W W W W W W W W W	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Horsethief Spring Wilson Creek Deadman Spring (Highland) Highland Spring Lime Spring Upper Conner Spring Connor Spring Fox Cabin Scotty Spring Upper Fairview Lower Fairview	6,542 4,039	1 17 1 2 1 2 3 2 2 1 1 1 1 1 1	311 309 312 180 314 189 162 163 160 157 156 283 273 272 280 281	Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.5 -97.0 -97.5 -95.0 -99.1 -98.5 -99.0 -102.3 -100.6 -103.5 -97.7 -97.5	-12.99 -13.10 -13.03 -12.68 -14.57 -12.30 -12.68 -13.20 -12.68 -13.20 -12.63 -13.36 -13.37 -13.88 -13.84 -13.59 -12.73 -12.66 -12.39	48 Surface Water not included in recharge average
202 W TR E E E E E W W W W W W W W W W W W W W	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Parsnip Spring Horsethief Spring Wilson Creek Deadman Spring (Highland) Highland Spring Lime Spring Upper Conner Spring Connor Spring Fox Cabin Scotty Spring Upper Fairview Lower Fairview Wildhorse Spring (Fairview)	6,542 4,039	1 17 1 2 3 2 2 1 1 1 1 1 1 1 1	311 309 312 180 314 189 162 163 160 157 156 283 273 272 280 281 183	Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.5 -97.0 -97.5 -95.0 -99.1 -98.5 -99.0 -102.3 -100.6 -103.5 -98.9 -97.7 -97.5 -95.5 -92.5	-12.99 -13.10 -13.03 -12.93 -12.68 -14.57 -12.80 -12.80 -12.80 -12.68 -13.16 -13.36 -13.16 -13.37 -13.88 -13.84 -13.59 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.77 -13.88 -13.59 -12.73 -12.69 -12.73 -12.69 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.77 -13.76 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.77 -13.79 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.75 -12.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -1	48 Surface Water not included in recharge average Evaporated so not used in recharge calculation
202 W TR E E E E E W W W W W W W W W W W W W W	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Parsnip Spring Horsethief Spring Wilson Creek Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Upper Conner Spring Connor Spring Fox Cabin Scotty Spring Upper Fairview Lower Fairview Wildhorse Spring (Fairview) McDermitt Spring	6,542 4,039 <b>10,600</b>	1 17 1 2 1 2 3 2 2 1 1 1 1 1 1	311 309 312 180 314 189 162 163 160 157 156 283 273 272 280 281	Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.5 -97.0 -97.5 -95.0 -99.1 -98.5 -99.0 -102.3 -100.6 -103.5 -97.7 -97.5	-12.99 -13.10 -13.03 -12.93 -12.68 -14.57 -12.80 -12.80 -12.80 -12.68 -13.16 -13.36 -13.16 -13.37 -13.88 -13.84 -13.59 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.77 -13.88 -13.59 -12.73 -12.69 -12.73 -12.69 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.77 -13.76 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.77 -13.79 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.75 -12.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -1	48 Surface Water not included in recharge average Evaporated so not used in recharge calculation Evaporated so not used in recharge calculation
202 W TR E E E E E W W W W W W W W W W W W W W	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Parsnip Spring Horsethief Spring Wilson Creek Deadman Spring (Highland) Highland Spring Lime Spring Upper Conner Spring Connor Spring Fox Cabin Scotty Spring Upper Fairview Lower Fairview Wildhorse Spring (Fairview)	6,542 4,039	1 17 1 2 3 2 2 1 1 1 1 1 1 1 1	311 309 312 180 314 189 162 163 160 157 156 283 273 272 280 281 183	Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.5 -97.0 -97.5 -95.0 -99.1 -98.5 -99.0 -102.3 -100.6 -103.5 -98.9 -97.7 -97.5 -95.5 -92.5	-12.99 -13.10 -13.03 -12.93 -12.68 -14.57 -12.80 -12.80 -12.80 -12.68 -13.16 -13.36 -13.16 -13.37 -13.88 -13.84 -13.59 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -12.69 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.77 -13.88 -13.59 -12.73 -12.69 -12.73 -12.69 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.76 -13.77 -13.76 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.76 -13.77 -13.77 -13.79 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.73 -12.69 -12.75 -12.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -13.75 -1	48 Surface Water not included in recharge average Evaporated so not used in recharge calculation
202 W TR E E E E E W W W W W W W W W W W W W W	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Parsnip Spring Wilson Creek Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Upper Conner Spring Connor Spring Fox Cabin Scotty Spring Upper Fairview Lower Fairview Wildhorse Spring (Fairview) McDermit Spring	6,542 4,039 <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b>	1 17 1 2 1 2 3 2 2 1 1 1 1 1 1 1 1	311 309 312 180 314 189 162 163 160 157 156 283 273 272 280 281 183 323	Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.5 -97.0 -97.5 -95.0 -99.1 -98.5 -99.0 -102.3 -100.6 -103.5 -98.9 -97.7 -97.5 -92.5 -92.5 -92.5 -94.3	-12.99 -13.10 -13.03 -12.93 -12.68 -14.57 -12.30 -12.60 -12.60 -13.16 -13.16 -13.37 -13.88 -13.84 -13.59 -12.73 -12.66 -12.39 -11.70 -11.21	48 Surface Water not included in recharge average Evaporated so not used in recharge calculation Evaporated so not used in recharge calculation -100.8 -13.39 -100.8 -13.39
202 W TR E E E E W W W W W W W W W W W W W W W	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Horsethief Spring Wilson Creek Deadman Spring (Highland) Highland Spring Lime Spring Upper Conner Spring Connor Spring Fox Cabin Scotty Spring Upper Fairview Lower Fairview Wildhorse Spring (Fairview) McDermitt Spring ET GW Outflow (Panaca)	6,542 4,039 <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b>	1 17 1 2 1 2 3 2 2 1 1 1 1 1 1 1 1	311 309 312 180 314 189 162 163 160 157 156 283 273 272 280 281 183 323	Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.5 -97.0 -97.5 -95.0 -99.1 -98.5 -99.0 -102.3 -100.6 -103.5 -98.9 -97.7 -97.5 -92.5 -92.5 -92.5 -94.3	-12.99 -13.10 -13.03 -12.93 -12.68 -14.57 -12.30 -12.60 -12.60 -13.16 -13.16 -13.37 -13.88 -13.84 -13.59 -12.73 -12.66 -12.39 -11.70 -11.21	48 Surface Water not included in recharge average Evaporated so not used in recharge calculation Evaporated so not used in recharge calculation -100.8 -13.39 -100.8 -13.39
202 W TR E E E E W W W W W W W W W W W W W W W	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Bulee Rock Spring Headwaters Spring WR5 Upper Tower Spring Parsnip Spring Horsethief Spring Wilson Creek Deadman Spring (Highland) Highland Spring Lime Spring Dipper Conner Spring Connor Spring Fox Cabin Scotty Spring Upper Fairview Lower Fairview Wildhorse Spring (Fairview) McDermitt Spring ET GW Outflow (Panaca)	6,542 4,039 <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b>	1 17 1 2 1 2 3 2 2 1 1 1 1 1 1 1 1	311 309 312 180 314 189 162 163 160 157 156 283 273 272 280 281 183 323	Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.5 -97.0 -97.5 -95.0 -99.1 -98.5 -99.0 -102.3 -100.6 -103.5 -98.0 9 -97.7 -97.5 -98.3 9 -97.7 -97.5 -98.3 -97.5 -98.3 -99.2 -98.3 -99.2 -98.3 -99.2 -98.3 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.5 -95.5 -97.0 -99.5 -95.5 -97.0 -99.1 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99	-12.99 -13.10 -13.03 -12.93 -12.68 -14.57 -12.30 -12.80 -12.68 -13.207 -13.36 -13.16 -13.37 -13.88 -13.84 -13.59 -12.73 -12.66 -12.39 -12.73 -12.69 -11.21	48 Surface Water not included in recharge average Evaporated so not used in recharge calculation Evaporated so not used in recharge calculation -100.8 -13.39 -100.8 -13.39
202 W TR E E E E W W W W W W W W W W W W W W W	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Parsnip Spring Horsethief Spring Wilson Creek Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Upper Conner Spring Connor Spring Fox Cabin Scotty Spring Upper Fairview Lower Fairview Wildhorse Spring (Fairview) McDermitt Spring ET GW Outflow (Panaca) XX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6,542 4,039 <b>10,600</b> <b>11,600</b> <b>14,900</b> <b>XXXXXXX X</b>	1 17 1 2 1 2 3 2 2 1 1 1 1 1 1 1 1	311 309 312 180 314 189 162 163 160 157 156 283 273 272 280 281 183 323	Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.5 -97.0 -93.5 -97.0 -99.1 -98.5 -95.0 -99.1 -98.5 -99.0 -102.3 -100.6 -103.5 -98.9 -97.7 -97.5 -92.5 -94.3	-12.99 -13.10 -13.03 -12.93 -12.93 -12.68 -14.57 -12.30 -12.80 -12.07 -13.36 -13.16 -13.16 -13.16 -13.17 -13.88 -13.84 -13.59 -12.73 -12.66 -12.39 -11.70 -11.21	48 Surface Water not included in recharge average Evaporated so not used in recharge calculation -100.8 -13.39 -100.8 -13.39
202 W TR E E E E E E E E E E E E E E E E E E	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Horsethief Spring Wilson Creek Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Upper Conner Spring Connor Spring Connor Spring Fox Cabin Scotty Spring Upper Fairview Lower Fairview Wildhorse Spring (Fairview) McDermitt Spring ET GW Outflow (Panaca) XX XXXXXXXXXXXXXXXX XX	6,542 4,039 <b>10,600</b> <b>10,600</b> <b>14,900</b> <b>XXXXXXX X3</b> <b>0</b> 5,975	1 17 1 2 1 2 3 2 2 1 1 1 1 1 1 1 1	311 309 312 180 314 189 162 163 160 157 156 283 273 272 280 281 183 323	Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.5 -97.0 -97.5 -97.5 -95.0 -99.1 -98.5 -99.1 -98.5 -99.1 -99.1 -99.1 -99.2 -99.1 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.2 -99.4 -99.4 -99.4 -99.5 -97.0 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.7 -99.5 -99.5 -99.5 -99.7 -99.5 -99.5 -99.5 -99.7 -97.5 -99.5 -99.5 -99.7 -97.5 -99.5 -99.7 -97.5 -99.5 -99.7 -97.5 -99.7 -97.5 -99.5 -99.7 -97.5 -99.7 -97.5 -99.7 -97.5 -99.7 -97.5 -99.7 -97.5 -99.7 -97.5 -99.7 -97.5 -99.7 -97.5 -99.7 -97.5 -99.7 -97.5 -99.7 -97.5 -99.7 -97.5 -99.7 -97.5 -99.7 -97.5 -92.5 -94.3 -97.5 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.3 -94.	-12.99 -13.10 -13.03 -12.93 -12.93 -12.68 -14.57 -12.80 -12.60 -12.07 -13.36 -13.16 -13.16 -13.16 -13.16 -13.16 -13.16 -13.16 -13.16 -13.16 -13.16 -13.27 -12.39 -11.70 -11.21	48 Surface Water not included in recharge average Evaporated so not used in recharge calculation -100.8 -13.39 -100.8 -13.39 <b>XXXXXX XXXXXX XXXXXX</b>
202 W TR E E E E W W W W W W W W W W W W W W W	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Parsnip Spring Horsethief Spring Wilson Creek Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Upper Conner Spring Connor Spring Fox Cabin Scotty Spring Upper Fairview Lower Fairview Wildhorse Spring (Fairview) McDermitt Spring ET GW Outflow (Panaca) XX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6,542 4,039 <b>10,600</b> <b>11,600</b> <b>14,900</b> <b>XXXXXXX X</b>	1 17 1 2 1 2 3 2 2 1 1 1 1 1 1 1 1	311 309 312 180 314 189 162 163 160 157 156 283 273 272 280 281 183 323	Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.5 -97.0 -93.5 -97.0 -99.1 -98.5 -95.0 -99.1 -98.5 -99.0 -102.3 -100.6 -103.5 -98.9 -97.7 -97.5 -92.5 -94.3	-12.99 -13.10 -13.03 -12.93 -12.93 -12.68 -14.57 -12.30 -12.80 -12.67 -13.36 -13.16 -13.16 -13.16 -13.17 -13.88 -13.84 -13.59 -12.73 -12.66 -12.39 -11.70 -11.21	48 Surface Water not included in recharge average Evaporated so not used in recharge -100.8 -13.39 -100.8 -13.39 <b>XXXXXX XXXXX XXXXX</b>
202 W TR E E E E E V W W W W W W W W W W W W W W	Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Horsethief Spring Wilson Creek Deadman Spring (Highland) Highland Spring Lime Spring Upper Conner Spring Connor Spring Fox Cabin Scotty Spring Upper Fairview Lower Fairview Wildhorse Spring (Fairview) McDermitt Spring ET GW Outflow (Panaca) X XXXXXXXXXXXXXXXXX XXXXXXX XXXXXXXXXX	6,542 4,039 <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,600</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b> <b>10,500</b>	1 17 1 2 1 2 3 2 2 1 1 1 1 1 1 1 1	311 309 312 180 314 189 162 163 160 157 156 283 273 272 280 281 183 323	Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-97.7 -99.2 -98.3 -102.0 -93.4 -107.3 -93.5 -97.0 -97.5 -95.0 -99.1 -98.5 -99.0 -102.3 -100.6 -103.5 -98.9 -97.5 -92.5 -94.3 )XXXXXX 1 0.0 0 -100.9 -97.7	-12.99 -13.10 -13.03 -12.93 -12.93 -12.68 -14.57 -12.30 -12.60 -12.60 -12.60 -12.60 -12.60 -12.60 -13.66 -13.16 -13.37 -13.86 -13.16 -13.37 -13.86 -13.16 -13.37 -13.66 -13.16 -13.29 -11.70 -11.21	48 Surface Water not included in recharge average Evaporated so not used in recharge calculation Evaporated so not used in recharge calculation -100.8 -13.39 -100.8 -13.39 XXXXXX XXXXX XXXXXX 52 53

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-	Lion Spring		1	318	Spring	-103.4	-14.11			
E	South Monument Spring		1	319	Spring	-102.3	-14.23			
E	Ripgut Sp #40		1	411	Spring	-106.4	-14.38			
E	Unnamed Spring #1(White Rock Mts)		1	415	Spring	-109.6	-15.05			
E	Unnamed Spring #2 (White RockMts)		1	417	Spring	-97.0	-13.00			
E	Upper Burnt Canyon Spring		1	416	Spring	-97.6	-12.83			
E E E E E E E E E E E E E	Upper Burnt Canyon Spring #2		1	416	Spring	-103.6	-13.66			
E	Jnnamed Spring nr Redd's Cabin Summit		2	173	Spring	-94.4	-12.44			
E	Tobe Spring		1	315	Spring	-100.0	-13.04			
E	Tobe Spring 2		1	316	Spring	-93.6	-12.09			
F	Unnamed Spring in Miller Canyon		1	313	Spring	-103.7	-14.27			
F	Headwaters Spring WR5		17	309	Spring	-107.3	-14.57			
Ŵ	Blue Rock Spring		1	311	Spring	-93.4	-12.68			
Ŵ	Headwaters Spring WR5		17	309	Spring	-107.3	-14.57			
Ŵ	Bailey Spring (Wilson Ck)		1	310	Spring	-107.0	-12.93			
W	Horsethief Spring		2	314	Spring	-102.0	-12.68			
W	Parsnip Spring		1	180						
					Spring	-93.5	-12.80			
W	Upper Tower Spring		1	312	Spring	-93.3	-12.30			
Surface	Camp Creek		1	184	Surface	-102.0			ater not inclu	
Surface	MVW above Eagle Canyon		1	168	Surface	-93.0	-12.00 S		ater not inclu	uded in <mark>re</mark>
ET	ET	3,900						-99.4	-13.28	
200	GW Outflow (Eagle)	7,300						-99.4	-13.28	
200	SW Outflow (Eagle)	0						-97.5	-13.00	
	~~~~~									
*****	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		*****							*****
200	Eagle Valley									
201	Inflow (Spring)	7,300				-99.4	-13.28			
201	SW Inflow (Spring)	0				-97.5	-13.00			
200 E	E. Eagle (Ursine) Valley	1,578				-99.1	-13.28			63
200 W	W. Eagle (Ursine) Valley	417				-97.0	-12.68			64
TR	Total Recharge	2,000				-98.7	-13.15			-
	Butcher Spring	,	1	424	Spring	-103.2	-14.22			
F	Newels Spring		1	423	Spring	-96.0	-12.48			
Ē	Ox Valley Spring		1	422	Spring	-100.0	-13.95			
-	Unnamed Spring #2 (Mahogany Mts)		4	421	Spring	-100.7	-13.47			
5	Water Canyon Spring (Mahogany)		1	420	Spring	-100.4	-13.68			
			1	420 315		-100.4	-13.00			
E E E E E E E	Tobe Spring				Spring					
E	Tobe Spring 2		1	316	Spring	-93.6 -97.0	-12.09			
14/							-12.68			
W	Horsethief Spring	4 000	2	314	Spring	-57.0			40.05	
ET	ET	1,000	2	314	Spring	-97.0		-99.3	-13.25	
ET 199	ET GW Outflow (Rose)	8,300	2	314	Spring	-97.0		-99.3	-13.25	
ET	ET		2	314	Spring	-37.0				
ET 199	ET GW Outflow (Rose) SW Outflow (Rose)	8,300 0					XXXXXXX	-99.3 -99.3	-13.25 -13.25	xxxxx
ET 199 198	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0					XXXXXXX	-99.3 -99.3	-13.25 -13.25	xxxxx
ET 199 198 XXXXXXXX 199	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X				XXXXXX		-99.3 -99.3	-13.25 -13.25	xxxxx
ET 199 198 XXXXXXXX 199 200	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXXX X 8,300				-99.3	-13.25	-99.3 -99.3	-13.25 -13.25	xxxxx
ET 199 198 XXXXXXXXX 199 200 200	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X 8,300 0				-99.3 -99.3	-13.25 -13.25	-99.3 -99.3	-13.25 -13.25	
ET 199 198 (XXXXXXXX 199 200 200 199 E	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X 8,300 0 165				-99.3 -99.3 -99.1	-13.25 -13.25 -13.28	-99.3 -99.3	-13.25 -13.25	65
ET 199 198 XXXXXXXX 199 200 200 199 E 199 W	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X 8,300 0 165 79				-99.3 -99.3 -99.1 -97.0	-13.25 -13.25 -13.28 -12.68	-99.3 -99.3	-13.25 -13.25	
ET 199 198 XXXXXXXXX 199 200 199 E 199 W TR	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X 8,300 0 165		***	XXXXXXXXX	-99.3 -99.3 -99.1 -97.0 -98.4	-13.25 -13.25 -13.28 -12.68 -13.08	-99.3 -99.3	-13.25 -13.25	65
ET 199 198 XXXXXXXXX 199 200 199 E 199 W TR	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X 8,300 0 165 79		XXXXXXX 424	Spring	-99.3 -99.3 -99.1 -97.0 -98.4 -103.2	-13.25 -13.25 -13.28 -12.68 -13.08 -14.22	-99.3 -99.3	-13.25 -13.25	65
ET 199 198 XXXXXXXXX 199 200 199 E 199 W TR	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X 8,300 0 165 79	****	424 423	Spring Spring	-99.3 -99.3 -99.1 -97.0 -98.4	-13.25 -13.25 -13.28 -12.68 -13.08 -14.22 -12.48	-99.3 -99.3	-13.25 -13.25	65
ET 199 198 XXXXXXXX 199 200 200 199 E 199 W TR	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X 8,300 0 165 79	XXXXXX	XXXXXXX 424	Spring	-99.3 -99.3 -99.1 -97.0 -98.4 -103.2	-13.25 -13.25 -13.28 -12.68 -13.08 -14.22	-99.3 -99.3	-13.25 -13.25	65
ET 199 198 XXXXXXXX 199 200 200 200 199 E 199 W TR E E E E	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X 8,300 0 165 79	XXXXXX	424 423	Spring Spring	-99.3 -99.3 -99.1 -97.0 -98.4 -103.2 -96.0	-13.25 -13.25 -13.28 -12.68 -13.08 -14.22 -12.48	-99.3 -99.3	-13.25 -13.25	65
ET 199 198 XXXXXXXX 199 200 200 200 199 E 199 W TR E E E E E	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X 8,300 0 165 79	XXXXXX 1 1 1	424 423 422	Spring Spring Spring	-99.3 -99.3 -99.1 -97.0 -98.4 -103.2 -96.0 -100.0	-13.25 -13.25 -13.28 -12.68 -13.08 -14.22 -12.48 -13.95	-99.3 -99.3	-13.25 -13.25	65
ET 199 XXXXXXXX 199 200 200 199 E 199 W TR E E E E E E	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X 8,300 0 165 79	1 1 1 1	424 423 422 421 420	Spring Spring Spring Spring Spring Spring	-99.3 -99.3 -99.1 -97.0 -98.4 -103.2 -96.0 -100.0 -100.7 -100.4	-13.25 -13.28 -13.28 -13.08 -14.22 -12.48 -13.95 -13.47 -13.68	-99.3 -99.3	-13.25 -13.25	65
ET 199 XXXXXXXX 199 200 200 199 E 199 W TR E E E E E E	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X 8,300 0 165 79	XXXXXX 1 1 1 1 1 1 1	424 423 422 421 420 315	Spring Spring Spring Spring Spring Spring Spring Spring	-99.3 -99.3 -99.1 -97.0 -98.4 -103.2 -96.0 -100.0 -100.7 -100.4 -100.0	-13.25 -13.25 -13.28 -12.68 -13.08 -14.22 -12.48 -13.95 -13.47 -13.68 -13.04	-99.3 -99.3	-13.25 -13.25	65
ET 199 XXXXXXXX 199 200 200 199 E 199 W TR E E E E E E	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X 8,300 0 165 79	XXXXXX 1 1 1 1 1 1 1 1	424 423 422 421 420 315 316	Spring Spring Spring Spring Spring Spring Spring Spring	-99.3 -99.3 -99.3 -97.0 -98.4 -103.2 -96.0 -100.7 -100.4 -100.4 -100.0 -93.6	-13.25 -13.25 -13.28 -12.68 -13.08 -14.22 -12.48 -13.08 -13.47 -13.68 -13.04 -12.09	-99.3 -99.3	-13.25 -13.25	65
ET 199 198 XXXXXXXX 199 200 200 200 199 E 199 W TR E E E E E E E E E E E E	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X 8,300 0 165 79 200	XXXXXX 1 1 1 1 1 1 1	424 423 422 421 420 315	Spring Spring Spring Spring Spring Spring Spring Spring	-99.3 -99.3 -99.1 -97.0 -98.4 -103.2 -96.0 -100.0 -100.7 -100.4 -100.0	-13.25 -13.25 -13.28 -12.68 -13.08 -14.22 -12.48 -13.95 -13.47 -13.68 -13.04	-99.3 -99.3 XXXXX >	-13.25 -13.25	65
ET 199 198 XXXXXXXX 199 200 200 199 E 199 W TR E E E E E E E E E E E E E E E E E E	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X 8,300 0 165 79 200	XXXXXX 1 1 1 1 1 1 1 1	424 423 422 421 420 315 316	Spring Spring Spring Spring Spring Spring Spring Spring	-99.3 -99.3 -99.3 -97.0 -98.4 -103.2 -96.0 -100.7 -100.4 -100.4 -100.0 -93.6	-13.25 -13.25 -13.28 -12.68 -13.08 -14.22 -12.48 -13.08 -13.47 -13.68 -13.04 -12.09	-99.3 -99.3 XXXXX)	-13.25 -13.25 XXXXXX XX -13.24	65
ET 199 198 XXXXXXXX 199 200 200 199 E 199 W TR E E E E E E E E E E E E E E E E E E	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X 8,300 0 165 79 200 600 7,900	XXXXXX 1 1 1 1 1 1 1 1	424 423 422 421 420 315 316	Spring Spring Spring Spring Spring Spring Spring Spring	-99.3 -99.3 -99.3 -97.0 -98.4 -103.2 -96.0 -100.7 -100.4 -100.4 -100.0 -93.6	-13.25 -13.25 -13.28 -12.68 -13.08 -14.22 -12.48 -13.08 -13.47 -13.68 -13.04 -12.09	-99.3 -99.3 XXXXX > -99.2 -99.2	-13.25 -13.25 XXXXXX X -13.24 -13.24	65
ET 199 308 309 200 200 199 E 199 W TR E E E E E E E E E E E E E E E E E E	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X 8,300 0 165 79 200	XXXXXX 1 1 1 1 1 1 1 1	424 423 422 421 420 315 316	Spring Spring Spring Spring Spring Spring Spring Spring	-99.3 -99.3 -99.3 -97.0 -98.4 -103.2 -96.0 -100.7 -100.4 -100.4 -100.0 -93.6	-13.25 -13.25 -13.28 -12.68 -13.08 -14.22 -12.48 -13.08 -13.47 -13.68 -13.04 -12.09	-99.3 -99.3 XXXXX)	-13.25 -13.25 XXXXXX XX -13.24	65
ET 199 198 XXXXXXXXXX 199 200 199 E 199 W TR E E E E E E E E E E E E E	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X 8,300 0 165 79 200 200 7,900 7,900 0	XXXXXXX 1 1 1 1 1 1 1 2	424 423 422 421 420 315 316 314	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-99.3 -99.3 -99.1 -97.0 -96.0 -100.2 -96.0 -100.7 -100.4 -100.0 -93.6 -97.0	-13.25 -13.25 -13.28 -12.68 -14.22 -12.48 -13.95 -13.47 -13.68 -13.04 -12.09 -12.68	-99.3 -99.3 XXXXX) -99.2 -99.2 -99.2 -99.3	-13.25 -13.25 XXXXXX X -13.24 -13.24 -13.25	65 66
ET 199 198 XXXXXXXXXX 199 200 199 E 199 W TR E E E E E E E E E E W ET 198 198	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X 8,300 0 165 79 200 200 7,900 7,900 0	XXXXXXX 1 1 1 1 1 1 1 2	424 423 422 421 420 315 316 314	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-99.3 -99.3 -99.1 -97.0 -96.0 -100.2 -96.0 -100.7 -100.4 -100.0 -93.6 -97.0	-13.25 -13.25 -13.28 -12.68 -14.22 -12.48 -13.95 -13.47 -13.68 -13.04 -12.09 -12.68	-99.3 -99.3 XXXXX) -99.2 -99.2 -99.2 -99.3	-13.25 -13.25 XXXXXX X -13.24 -13.24 -13.25	65 66
ET 199 198 XXXXXXXX 199 200 200 199 E 199 W TR E E E E E E E E E E E E E E E E XXXXXXX	ET GW Outflow (Rose) SW Outflow (Rose) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8,300 0 XXXXXX X 8,300 0 165 79 200 200 7,900 7,900 0	XXXXXXX 1 1 1 1 1 1 1 2	424 423 422 421 420 315 316 314	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-99.3 -99.3 -99.1 -97.0 -96.0 -100.2 -96.0 -100.7 -100.4 -100.0 -93.6 -97.0	-13.25 -13.25 -13.28 -12.68 -14.22 -12.48 -13.95 -13.47 -13.68 -13.04 -12.09 -12.68	-99.3 -99.3 XXXXX) -99.2 -99.2 -99.2 -99.3	-13.25 -13.25 XXXXXX X -13.24 -13.24 -13.25	65 66

199 198 E 198 W FR	SW Inflow (Rose) E. Dry Valley W. Dry Valley Total Recharge Kiln Spring Summit Spring (Mahogany Mts.) Newels Spring	0 2,895 324 3,200	1 1 1	418 419 423	Spring Spring Spring	-99.3 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0	-13.25 -12.99 -12.68 -12.96 -12.34 -12.04 -12.48		67 68	
W Warm Sprine Spring ET 203 203	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring Flatnose Spring (Unnamed Spring) Delmues Spring (Unnamed Spring) ET GW Outflow (Panaca) SW Outflow (Panaca)	3,700 7,400 0	1 1 2 1 1	422 421 420 314 153 149	Spring Spring Spring Spring Spring Spring	-100.0 -100.7 -100.4 -97.0 -101.0 -104.0	-13.95 -13.47 -13.68 -12.68 -13.40 -13.40	-99.2 -98.6 -98.6 -99.2		n flow from Dry Valley ay spring not included in recharge calculation
		XXXXXXXXXXX	XXXXX	XKXXXXX	XXXXXXXX	XXXXXX)	(XXXXX)	XXXXX X	XXXXXX XXXXXX	
204	Clover Valley									
0 204 N 204 S FR	Inflow (None) South of Beaver Dam North of Jack's Mtn Total Recharge Acoma Well	0 8,332 6,529 14,900	1	118	Well	0.0 -92.2 -92.0 -92.1 -95.0	0.00 -12.42 -12.52 -12.46 -12.60		71 72	
N N N S S S	Cave Spring (Clover) Clover Creek Valley Well 246 Ramone Mathews Well Big Spring (Clover) East Settling Spring		2 1 1 2 1	247 120 115 253 248	Spring Well Well Spring Spring	-92.8 -89.0 -92.0 -93.6 -92.2	-12.37 -12.40 -12.30 -12.89 -12.76			
	Ella Spring Little Springs (Clover Mts) Quaking Aspen Spring Sheep Spring (Clover) Unnamed Spring		1 2 1 2 1	251 254 255 108 113	Spring Spring Spring Spring Spring	-95.8 -93.3 -93.6 -88.8 -86.5	-12.56 -12.81 -12.98 -12.03 -11.60			
Alluvial Well ET 205 205	Clover Creek Valley Well 232 ET GW Outflow (LMVW) SW Outflow (LMVW)	5,200 9,700 0	1	114	Well	-84.0	-11.70	-92.1 -92.1 -92.1	-12.46 -12.46 -12.46	
xxxxxxx	*****	XXXXXXX XX	xxxxx	xxxxxx	xxxxxxx	XXXXXX	xxxxx	(XXXXX)	xxxxx xxxxxx	
203	Panaca Valley									
202 198	Inflow (Patterson) Inflow (Dry)	14,900 7,400				-100.8 -98.6	-13.39 -13.16			
198 203 E 203 W FR	SW Inflow (Dry) Condor Canyon Cathedral Gorge Total Recharge	0 2,509 3,020 5,500				-99.2 -92.0 -98.9 -95.8	-13.24 -12.19 -13.28 -12.78		69 70	
N N N N	Connor Spring Deadman Spring (Highland) Highland Spring Lime Spring		1 2 3 2	283 162 163 160	Spring Spring Spring Spring	-100.6 -95.0 -99.1 -98.5	-13.84 -12.07 -13.36 -13.16			
N N E	Pine Spring Upper Conner Spring Kiln Spring		2 2 1	157 156 418	Spring Spring Spring	-99.0 -101.2 -91.9	-13.37 -13.87 -12.34			
Narm Warm Warm	Summit Spring (Mahogany Mts.) Bennett Spring Caliente Hot Springs (Hotel) Panaca Spring	20 0 7700	1 1 8 13	419 141 129 144	Spring Spring Spring Spring	-92.1 -103.0 -107.9 -106.9	-12.04 -13.70 -14.44 -14.14	-100.8 -105.5 -105.5	-14.08 Inter-basi	n flow from Patterson Valley n flow from Lake Valley n flow from Lake Valley
Surface Warm Warm Warm	Meadow Valley Wash, Cal. Lester Mathews Well Panaca Town Well North Lee Well		1 1 1 1	130 142 143 147	Surface Well Well Well	-97.0 -103.0 -106.0 -101.0	-13.10 -13.30 -14.00 -13.30			
	ET	18,900						-99.2	-13.21	
ET 205	GW Outflow (LMVW)	8,900						-99.2	-13.21	

205	Lower Meadow Valley Wash										
203	Inflow (Panaca)	8,900				-99.2	-13.21				
204	Inflow (Clover)	9,700				-92.1	-12.46				
203	SW Inflow (Panaca)	0				-97.0	-13.10				
204	SW Inflow (Clover)	0				-92.1	-12.46				
205 NW	Delamar Mtns.	3,114				-92.2	-12.28		92		
205 NE	Clover Mountains	7,378				-90.4	-12.25		93		
205 SW	Meadow Valley Mtns.	1,160				-87.4	-11.92		94		
205 SE	Mormon Mtns.	906				-88.3	-12.50		95		
TR	Total Recharge	12,600				-90.4	-12.24				
NE	Big Spring (Clover)		2	253	Spring	-93.6	-12.89				
NE	East Settling Spring		1	248	Spring	-92.2	-12.76				
NE	Ella Spring		1	251	Spring	-95.8	-12.56				
NE	Garden Spring		1	246	Spring	-87.0	-11.54				
NE	Kershaw-Ryan Spring #1		1	250	Spring	-95.1	-13.11				
NE	Sheep Spring (Clover)		2	108	Spring	-88.8	-12.03				
NE	Unnamed Spring		1	113	Spring	-86.5	-11.60				
NE	Unnamed Spring (Clover)		1	249	Spring	-88.0	-12.20				
NE	Garden Spring		1	246	Spring	-87.0	-11.54				
NW	Abandoned Spring		1	266	Spring	-94.5	-12.32				
NW	Grassy Spring		3	117	Spring	-88.7		vaporate	d so not used in rec	narge	calculation
NW	Buckboard Spring		1	264	Spring	-88.2	-11.71				
NW	Cottonwood Spring (Delamar)		1	265	Spring	-96.9	-12.87				
NW NW	Bishop Spring		3 4	107	Spring	-87.2	-11.72				
NW	Boulder Spring (KSV-4) Lower Chokecherry Spring		4	98 261	Spring	-89.2 -98.4	-12.47 -12.98				
NW	Lower Indian Spring		1	261	Spring	-98.4 -96.0	-12.98				
NW	Narrow Canyon Spring		1	257	Spring Spring	-90.0	-12.02				
NW	Oak Spring		1	269	Spring	-92.5	-12.47				
NW	Red Rock Spring		1	209	Spring	-95.0	-12.30				
NW	Willow Spring (KSV-1)		4	92	Spring	-88.4	-11.60				
NW	Sawmill Spring (Delamar Range)		1	259	Spring	-88.7	-12.58				
NW	Sawmill Spring West		1	258	Spring	-91.8	-12.86				
NW	Unnamed Chokecherry Spring		1	263	Spring	-98.1	-12.54				
NW	Upper Chokecherry Spring		1	262	Spring	-98.9	-12.96				
NW	Willow Spring 2 (So.of Oak Sps.summit)		1	260	Spring	-91.2	-11.69				
NW	Upper Indian Spring		1	268	Spring	-88.0	-11.46				
NW	Upper Riggs Spring WR4		5	105	Spring	-87.1	-11.95				
SW	Grapevine Spring (KSV-2)		10	93	Spring	-87.4	-11.92				
SE	Davies Spring		1	90	Spring	-89.0	-12.50				
SE	Horse Spring (Morman)		1	85	Spring	-89.0	-12.70				
SE	Hackberry Spring		1	84	Spring	-87.0	-12.30				
Warm	Kershaw-Ryan Spring #1		1	250	Spring	-95.1	-13.11	-95.5	-12.82 Weighted	Aver	age of Infterbasin flow from Garnet and Upper Moapa Valleys
Warm	EH-6 Weiser Wash		1	59	Well	-99.5	-13.90				
Warm	EH-8 Weiser Wash		1	57	Well	-96.5	-13.70				
Alluvial We			1	80	Well	-97.5	-12.50				
ET	ET	21,900						-93.5	-12.59		
206	GW Outflow (Upper Moapa)	4,000						-93.5	-12.59		
218	GW Outflow (California Wash)	5,300						-93.5	-12.59		
218	GW Outflow (Lower Moapa)	0						-93.5	-12.59		
218	SW Outflow (California Wash)	0						-93.5	-12.59		
NYVYYYYYY		<u>/////////////////////////////////////</u>	vvvvv	www	www	www.www	www	www	VVVVV WWW		
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		VYYYY X	XXXXXXX		AXXXXXX)			λλλάλλ. Χλλάχα		

						ater Budget				10
Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O	IC
XXXXXXX	*****			xxxxxx						XXXXXX
175	Long Valley									
)	Inflow (None)	0				0.0	0.00			05
75 SE 75 SW	Butte Mtn. (S) Alligator Rdg.	2,507 3,496				-119.6 -122.4	-15.53 -15.96			35 36
175 NW	Maverick Springs	10,881				-123.9	-16.23			30
175 NE	Butte Mtn. (N)	3,044				-119.2	-15.36			164
TR	Total Recharge	19,900				-122.4	-15.96			
SE	Butte Spring		1	327	Spring	-120.4	-15.79			
SE	Cabin Spring		1	328	Spring	-124.4	-15.89			
SE	Robbers Roost #2 Spring (Butte)		1	340	Spring	-112.0	-14.39			
SE	Deer Spring (Butte)		1	332	Spring	-114.1	-14.74			
SE	Summit Spring		1	348	Spring	-120.8	-15.94			
SE	Thirty Mile Spring		1	242	Spring	-126.0	-16.40			
WV WV	Mud Spring (Buck Mts)		4	339 244	Spring	-117.6 -129.5	-15.21			
NVV NW	Ram. Res. Wtr Supply Well Unnamed Near Little Willow Spring		1	244 351	Well Spring	-129.5 -125.9	-16.75 -17.04			
NW	Well at Alligator Ridge		1	243	Well	-127.0	-16.60			
NW	Woodchuck Spring		1	356	Spring	-119.6	-15.55			
NE	White Rock Spring (Butte)		1	355	Spring	-119.2	-15.36			
ET	ET	3,000						-122.4	-15.96	
154	GW Outflow (Newark)	0						-122.4	-15.96	
174	GW Outflow (Jakes)	16,900						-122.4	-15.96	
xxxxxxx	*****	XXXXXXXX	XXXXXXX	xxxxxx	xxxxxxx	OXXXXXX D	XXXXXX	XXXXXX	XXXXXX	XXXXXX
74	Jakes Valley									
75	Inflow (Long)	16,900				-122.4	-15.96			
74 E	Egan Range	2,722				-118.4	-15.31			33
74 VV	North White Pine	9,567				-120.3	-15.83			34
R	North White Pine Total Recharge	9,567 12,300								
R IW	Total Recharge Tunnel Spring		1	366	Spring	-120.3 -119.9 -118.3	-15.83 -15.71 -15.02			
R ₩ V	Total Recharge Tunnel Spring Aspen Springs North		1	349	Spring	-120.3 -119.9 -118.3 -119.3	-15.83 -15.71 -15.02 -15.84			
'R IW V V	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South		1	349 324	Spring Spring	-120.3 -119.9 -118.3 -119.3 -120.9	-15.83 -15.71 -15.02 -15.84 -16.02			
TR NW V V V	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring			349 324 330	Spring Spring Spring	-120.3 -119.9 -118.3 -119.3 -120.9 -122.0	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17			
TR NVV V V V V	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring		1	349 324 330 331	Spring Spring Spring Spring	-120.3 -119.9 -118.3 -119.3 -120.9 -122.0 -114.5	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30			
r R NVV V V V V V	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring		1	349 324 330 331 342	Spring Spring Spring Spring Spring	-120.3 -119.9 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76			
rr NVV V V V V V V V	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring		1	349 324 330 331	Spring Spring Spring Spring Spring Spring	-120.3 -119.9 -118.3 -119.3 -120.9 -122.0 -114.5	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20			
R VV V V V V V V	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring		1	349 324 330 331 342 239	Spring Spring Spring Spring Spring Spring Spring	-120.3 -119.9 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76			
R W / / / / / / / / / /	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring		1	349 324 330 331 342 239 344	Spring Spring Spring Spring Spring Spring	-120.3 -119.9 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54			
R W / / / / / / / / / / / / / / / / / /	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring		1 1 1 1 1 1 1 1	349 324 330 331 342 239 344 350	Spring Spring Spring Spring Spring Spring Spring Spring	-120.3 -119.9 -118.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69			
R W V V V V V V V V V V V V	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring		1 1 1 1 1 1 1 1 2	349 324 330 331 342 239 344 350 352 240 354	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-120.3 -119.9 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9 -123.6 -129.0 -116.2	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -16.80 -15.39			
TR JWV V V V V V V V V V V V V V	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte)		1 1 1 1 1 1 1 2 1	349 324 330 331 342 239 344 350 352 240 354 334	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-120.3 -118.3 -118.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9 -123.6 -120.9 -123.6 -129.0 -116.2 -119.1	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -16.80 -15.39 -15.31			
R IVV V V V V V V V V V V V V V V V V V V V/E V/E	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sand Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Schen Cabin Spring Indian Spring (Butte) Sammy Spring		1 1 1 1 1 1 1 2 1 1	349 324 330 331 342 239 344 350 352 240 354 334 334 343	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-120.3 -119.3 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9 -123.6 -129.0 -116.2 -119.1 -117.6	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -16.80 -16.54 -16.80 -15.39 -15.31 -15.30			34
R JWV V V V V V V V V V V V V V V V V V V/E V V	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sand Spring Sand Spring Unnamed Hayden Canyon Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk	12,300	1 1 1 1 1 1 1 2 1	349 324 330 331 342 239 344 350 352 240 354 334	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-120.3 -118.3 -118.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9 -123.6 -120.9 -123.6 -129.0 -116.2 -119.1	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -16.80 -16.54 -16.80 -15.39 -15.31 -15.30			
TR VV V V V V V V V V V V V V	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Unnamed Hayden Canyon Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET	12,300	1 1 1 1 1 1 1 2 1 1	349 324 330 331 342 239 344 350 352 240 354 334 334 343	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-120.3 -119.3 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9 -123.6 -129.0 -116.2 -119.1 -117.6	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -16.80 -16.54 -16.80 -15.39 -15.31 -15.30	-119.9	-15.71	34
TR 1/W V V V V V V V V V V V V V	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sand Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Midian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV)	12,300 400 28,800	1 1 1 1 1 1 1 2 1 1 2	349 324 330 341 342 239 344 350 352 240 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-120.3 -119.3 -118.3 -119.3 -120.9 -122.0 -123.6 -123.6 -129.0 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -16.64 -15.63 -16.88 -15.39 -15.31 -15.30 -16.10	-119.9 -121.3	-15.71 -15.86	34 ncluded in
174 W IR NW NW NN NN NN NN NN NN NN NN	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Unnamed Hayden Canyon Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET	12,300 400 28,800	1 1 1 1 1 1 1 2 1 1 2	349 324 330 341 342 239 344 350 352 240 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-120.3 -119.3 -118.3 -119.3 -120.9 -122.0 -123.6 -123.6 -129.0 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -16.64 -15.63 -16.88 -15.39 -15.31 -15.30 -16.10	-119.9 -121.3	-15.71 -15.86	34 ncluded in
R VV V V V V V V V V V V V V V V V V V	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sand Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Midian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV)	12,300 400 28,800	1 1 1 1 1 1 1 2 1 1 2	349 324 330 341 342 239 344 350 352 240 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-120.3 -119.3 -118.3 -119.3 -120.9 -122.0 -123.6 -123.6 -129.0 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -16.64 -15.63 -16.88 -15.39 -15.31 -15.30 -16.10	-119.9 -121.3	-15.71 -15.86	34 ncluded in
R IVV V V V V V V V V V V V V	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Sage Hen Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Hayden Canyon Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Ilipah Crk ET GW Outflow (NWRV)	12,300 400 28,800	1 1 1 1 1 1 1 2 1 1 2	349 324 330 341 342 239 344 350 352 240 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-120.3 -119.3 -118.3 -119.3 -120.9 -122.0 -123.6 -123.6 -129.0 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -16.64 -15.63 -16.88 -15.39 -15.31 -15.30 -16.10	-119.9 -121.3	-15.71 -15.86	34 ncluded in
R WV V V V V V V V V V V V V V V V V V V	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Saud Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Unnamed Shellback	12,300 400 28,800 XXXXXXXXX 0 7,132	1 1 1 1 1 1 1 2 1 1 2	349 324 330 341 342 239 344 350 352 240 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-120.3 -119.3 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.6 -120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -16.80 -15.31 -15.30 -16.10 -15.31 -15.30 -16.10 -14.28	-119.9 -121.3	-15.71 -15.86	34 ncluded in XXXXXXX 43,44
R WV / / / / / / / / / / / / / / / / / /	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sand Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Unnamed Shellback Ridge Spring Upper Illipah Crk ET GW Outflow (NWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	400 28,800 XXXXXXXXX 7,527	1 1 1 1 1 1 1 2 1 1 2	349 324 330 341 342 239 344 350 352 240 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-120.3 -119.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5 0XXXXXX D	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -16.7 -16.20 -16.7 -16.54 -16.64 -15.69 -16.18 -15.39 -15.31 -15.30 -16.10 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-119.9 -121.3	-15.71 -15.86	34 ncluded in XXXXXXX
R WV V V V V V V V V V V V V V V V V V V	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sand Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	12,300 400 28,800 XXXXXXXXX 0 7,132	1 1 1 1 1 1 1 1 2 2	349 324 330 331 342 239 344 350 352 240 354 334 334 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Surface	-120.3 -119.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5 OXXXXXX D 0.0 -105.0 -105.0 -105.0 -107.8 -106.5	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.84 -16.20 -16.76 -16.76 -16.76 -16.76 -16.76 -16.76 -16.70 -16.73 -16.10 -15.30 -16.10 -15.31 -15.31 -15.31 -15.31 -15.31 -15.31 -15.31 -15.31 -15.31 -15.31 -15.31 -15.31 -15.24 -15.24 -16.22 -16.17 -15.24 -16.22 -16.17 -15.84 -15.24 -15.84 -14.28 -1	-119.9 -121.3	-15.71 -15.86	34 ncluded in XXXXXXX 43,44
R JW V V V V V V V V V V V V V V V V V V V/E V/E	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Saud Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Hayden Canyon Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	400 28,800 XXXXXXXXX 7,527	1 1 1 1 1 1 1 2 1 1 2 (XXXXXX)	349 324 330 331 342 239 344 350 352 240 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-120.3 -119.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.6 -120.9 -123.6 -120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5 0XXXXXX D 0.0 -105.0	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -16.80 -15.39 -15.31 -15.30 -15.31 -15.30 -14.28 -14.28 -14.28 -14.60	-119.9 -121.3	-15.71 -15.86	34 ncluded in XXXXXXX 43,44
R WV V V V V V V V V V V V V V V V V V V	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Unnamed Shellback Ridge Spring Unper Illipah Crk ET GW Outflow (NWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	400 28,800 XXXXXXXXXX 7,527 14,700	1 1 1 1 1 1 1 1 2 1 2 (XXXXXX) (XXXXXX) 1 15	349 324 330 331 342 239 344 350 352 240 354 334 343 238	Spring Spring	-120.3 -119.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5 OXXXXXX D 0.0 -105.0 -105.0 -105.0 -105.0 -105.0 -105.4	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -15.69 -16.18 -15.39 -16.10 -15.30 -15.31 -15.30 -16.10 -14.28 -14.28 -14.28 -14.29	-119.9 -121.3	-15.71 -15.86	34 ncluded in XXXXXXX 43,44
R JW V V V V V V V V V V V V V V V V V V V/E V/E	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sand Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Unnamed Shellback Ridge Spring Upper Illipah Crk ET GW Outflow (NWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	400 28,800 XXXXXXXXXX 7,527 14,700	1 1 1 1 1 1 1 1 2 1 1 2 XXXXXXX	349 324 330 331 342 239 344 350 352 240 354 334 343 238 *********	Spring Spring	-120.3 -119.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -129.0 -123.6 -129.0 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5 0XXXXXX D 0.0 -105.0 -105.0 -105.0 -105.4 -105.0 -105.4 -105.0 -105.4 -105.0 -105.4 -105.	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -16.7 -16.20 -16.7 -16.20 -16.7 -16.20 -16.7 -16.64 -16.80 -15.39 -15.31 -15.30 -15.30 -15.30 -15.30 -15.30 -15.30 -15.30 -15.428 -15.428 -14.28 -14.48	-119.9 -121.3	-15.71 -15.86	34 ncluded in XXXXXXX 43,44
FR WW W W W W W W W W W W W W	Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Unnamed Shellback Ridge Spring Unper Illipah Crk ET GW Outflow (NWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	400 28,800 XXXXXXXXXX 7,527 14,700	1 1 1 1 1 1 1 1 2 1 2 (XXXXXX) (XXXXXX) 1 15	349 324 330 331 342 239 344 350 352 240 354 334 343 238	Spring Spring	-120.3 -119.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5 OXXXXXX D 0.0 -105.0 -105.0 -105.0 -105.0 -105.0 -105.4	-15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -15.69 -16.18 -15.39 -16.10 -15.30 -15.31 -15.30 -16.10 -14.28 -14.28 -14.28 -14.29	-119.9 -121.3	-15.71 -15.86	34 ncluded in XXXXXXX 43,44

W	Big Spring (Egan)		4	206	Spring	-105.5	-13.90	-
W	Chimney Rock Spring		2	219	Spring	-110.5	-14.52	
W	Granite Spring		1	440	Spring	-103.4	-13.32	
W	Haggerty Spring		1	387	Spring	-109.6	-14.78	
W	Hole in the Bank Spring		1	386	Spring	-114.9	-15.37	
W	Silver Spring		2	385	Spring	-111.4	-14.71	
W	Shingle Spring		2	203	Spring	-103.7	-13.33	
W	Perry Sp Barcass 37		1	408	Spring	-107.7	-15.04	
W ET	Trough Spring ET	1 200	1	413	Spring	-103.6	-13.56	-106.5 -14.28
Well	180W902	1,300	1	601	Deep Well	-104.7	-14.12	-106.5 -14.28 Local recharge
Well	180W502		1	600	Deep Well	-104.7	-14.12	-106.5 -14.28 Local recharge
208	GW Outflow (Pahroc)	9,400	•	000	Deep Wen	-105.0	-14.12	-106.5 -14.28
207S	GW Outflow (SWRV)	4,000						-106.5 -14.28
		.,						
XXXXXXX	x xxxxxxxxxxxxxxxxxxxxxxxxxx	XXXXXXX XX	XXXXXX	XXXXXX	KXXXXXXXX)	XXXXXX	XXXXXX	XXXXXX XXXXXX XXXXXX
207N	North White River Valley							
174	Inflow (Jakes)	28,800				-121.3	-15.86	
207 NE	Egan Rng North	16,085				-112.3	-15.15	38
207 NW	White Pine Rng.	11,430				-115.0	-15.18	39, 40
TR	Total Recharge	27,500				-113.4	-15.16	
NE	on Creek Spring (Unnamed Spring in Gub	er Canyon)	1	235	Spring	-111.0	-14.90	
NE	Hole in the Bank Spring		1	386	Spring	-114.9	-15.37	
NE	Lone Pine Spring		3	223	Spring	-110.2	-14.90	
NE	High Springs		1	433	Spring	-113.4	-15.43	
NE	Lion Spring (Egan Range)		1	430	Spring	-114.8	-15.34	
NE	Mud Spring		1	446	Spring	-111.0	-14.53	
NE	Pine Springs (Egan Range)		1	434	Spring	-116.0	-15.71	
NE NE	Unnamed Spring #1(Egan)		1	435	Spring	-112.2	-15.14	
NE	Unnamed Spring #2 (Egan Range) Unnamed Spring #3 (Egan Range)		1	436 437	Spring Spring	-110.0 -110.2	-15.14 -15.07	
NE	Unnamed Spring #4 (Egan Range)		1	437	Spring	-110.2	-15.07	
NE	Unnamed Spring #5 (Egan Range)		1	445	Spring	-109.6	-14.72	
NE	North Spring		2	237	Spring	-112.4	-15.11	
NE	Second Sawmill Spring		1	222	Spring	-110.0	-14.70	
NE	South Spring (Egan)		2	236	Spring	-111.5	-15.12	
NE	Upper Terrace Spring WR2		14	270	Spring	-114.0	-15.42	
NE	Water Canyon Spring		1	358	Spring	-114.4	-15.60	
NE	Lund Spring		1	221	Spring	-113.0	-15.40	Local Valley spring not include <mark>d in r</mark> echarge calculation
NE	Water Canyon		2	233	Surface	-116.0	-15.25	Surface Water not included in <mark>recha</mark> rge average
NW	Big Tom Plain Spring		1	326	Spring	-121.1	-15.92	
NW	Deer Spring (White Pine)		2	322	Spring	-119.3	-15.87	
NW	Unnamed Spring #1 (White Pine)		1	359	Spring	-114.8	-15.36	
NW	Unnamed Spring #2 (White Pine)		1	360	Spring	-114.9	-15.66	
NW	Unnamed Spring #3 (White Pine)		1	361	Spring	-113.1	-14.96	
NW	Unnamed Spring #4 (White Pine)		1	362	Spring	-116.3	-15.01	
NW NW	Unnamed Spring #5 (White Pine)		3 1	363	Spring	-116.0	-15.36	
NW	Unnamed Spring #6 (White Pine) Halfway Spring (RS)		1	364 429	Spring Spring	-115.1 -108.7	-14.98 -13.52	
NW	Easter Spring		1	365	Spring	-119.4	-15.52	
NW	Little Tom Plain Spring		2	337	Spring	-121.0	-15.86	
NW	Monitoring Spring WR1		14	320	Spring	-113.7	-15.58	
NW	Saddle Spring (White Pine)		3	357	Spring	-116.8	-15.45	
NW	Secret Spring		1	220	Spring	-110.0	-14.00	
NW	Unnamed Spring below Currant Mtn		1	226	Spring	-107.0	-14.00	
NW	Stove Spring		1	347	Spring	-114.5	-15.71	
NW	ned Spring in dry creek bed (White Pine Ra		1	321	Spring	-113.6	-15.31	
NW	Snowmelt Below Duckwater Peak	5,700	1	224	Surface	-105.0		Surface Water not included in <mark>recha</mark> rge average
NW	Little Currant Creek		1	217	Surface	-113.0		Surface Water not included in recharge average
Warm	Cold Spring, Preston	1,000	2	230	Spring	-123.5	-15.80	
Warm	Nicholas Spring	2,000	1	227	Spring	-124.0	-16.10	
Warm	Preston Big Spring	5,900	11	231	Spring	-122.0	-15.88	
Warm ET	Discharge Warm Sprs (Avg) ET	8,900 20,500	14			-122.6	-15.92	-121.3 -15.86 Inter-basin flow from Jakes Valley -113.4 -15.16
207S	GW Outflow (SWRV)	20,500 35,800						-113.4 -15.16 -119.8 -15.7
XXXXXXX	x xxxxxxxxxxxxxxxxxxxxx x	******	*****	XXXXXX	(XXXXXXXXX)	XXXXXX	XXXXXX	*****
207S	South White River Valley	VRV Tot Recl	narge					

		41,000							
207N	Inflow (N White River)	35,800				-119.8	-15.72		
180	Inflow (Cave)	4,000				-106.5	-14.28		
207 SE	Egan Rng South	7,423				-106.9	-14.15	41	
207 SW	Grant Rng	6,117				-106.5	-14.23	42	
TR	Total Recharge	13,500				-106.7	-14.18	72	
E	Chimney Rock Spring	15,500	2	219	Spring	-110.5	-14.52		
E	Granite Spring		1	440	Spring	-103.4	-13.32		
E	Haggerty Spring		1	387	Spring	-109.6	-14.78		
E			2	385			-14.71		
2	Silver Spring		4		Spring	-111.4			
E E	Big Spring (Egan)			206	Spring	-105.5	-13.90		
E	Shingle Spring		2	203	Spring	-103.7	-13.33		
E	Perry Sp Barcass 37		1	408	Spring	-107.7	-15.04		
E	Trough Spring		1	413	Spring	-103.6	-13.56		
E	Butterfield Spring	4,000	1	202	Spring	-105.0		y spring not included i	8
E	Emigrant Spring	1,900	2	207	Spring	-107.8		y spring not included i	
E	Flag Spring #3		1	201	Spring	-105.0		y spring not include <mark>d i</mark>	n recharge calculation
SW	Albert Spring		1	204	Spring	-107.0	-13.95		
SW	Big Spring (Grant)		1	194	Spring	-112.0	-15.20		
SW	Brady Spring		2	282	Spring	-109.5	-15.38		
SW	Forest Home Spring (Unnamed Spring)		1	195	Spring	-108.5	-14.50		
SW	Horse Spring (Grant)		1	370	Spring	-99.5	-12.86		
SW	Teaspoon Spring		1	371	Spring	-100.0	-13.26		
SW	Wiregrass Spring (Grant)		1	372	Spring	-101.4	-13.29		
SW	Murphy Spring		1	373	Spring	-114.5	-15.40		
SW	Little Spring (Grant Range)		1	369	Spring	-99.4	-12.48 Evaporate	d so not used in rec <mark>ha</mark>	rge calculation
Warm	Hot Creek Campground Well	0	1	198	Well	-118.0	-15.30		
Warm	Hot Creek Springs	10,000	10	197	Spring	-118.9	-15.69		
Warm	Moon River Spring	2,800	1	192	Spring	-120.0	-15.80		
Warm	Moorman Spring	400	1	205	Spring	-119.0	-15.70		
Warm	Discharge Warm Sprs (Avg)	13,200	13			-119.2	-15.71 -119.8	-15.72 Inter-basin	flow from Northern White River Valley
ET	ET	46,900					-115.1	-15.18	
208	GW Outflow (Pahroc)	6,400					-118.5	-15.58	
172	X XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	~~~~~~	~~~~		~~~~~		~~~~~	^^^^	
0	Inflow (None)	0					0.00		
0 172 SW	Inflow (None)	0				0.0	0.00	171	
172 SW	Quinn Canyon Range	15,120				-104.6	-14.08	171	
172 SW 172 NW	Quinn Canyon Range Grant Range	15,120 7,757				-104.6 -106.5	-14.08 -14.27	170	
172 SW 172 NW 172 NE	Quinn Canyon Range Grant Range Golden Gate Rng	15,120 7,757 980				-104.6 -106.5 -98.0	-14.08 -14.27 -13.30	170 55	
172 SW 172 NW 172 NE 172 SE	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains	15,120 7,757 980 962				-104.6 -106.5 -98.0 -98.0	-14.08 -14.27 -13.30 -13.30	170	
172 SW 172 NW 172 NE 172 SE TR	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge	15,120 7,757 980	1	267	Spring	-104.6 -106.5 -98.0 -98.0 -104.7	-14.08 -14.27 -13.30 -13.30 -14.08	170 55	
172 SW 172 NW 172 NE 172 SE TR SW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn)	15,120 7,757 980 962	1	367	Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9	-14.08 -14.27 -13.30 -13.30 -14.08 -14.23	170 55	
172 SW 172 NW 172 NE 172 SE TR SW SW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn)	15,120 7,757 980 962	1	368	Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9 -104.4	-14.08 -14.27 -13.30 -13.30 -14.08 -14.23 -14.18	170 55	
172 SW 172 NW 172 NE 172 SE TR SW SW SW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring	15,120 7,757 980 962	1 2	368 177	Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3	-14.08 -14.27 -13.30 -13.30 -14.08 -14.23 -14.18 -14.01	170 55	
172 SW 172 NW 172 NE 172 SE TR SW SW SW SW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring	15,120 7,757 980 962	1 2 1	368 177 182	Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0	-14.08 -14.27 -13.30 -13.30 -14.08 -14.23 -14.18 -14.01 -13.90	170 55 56	
172 SW 172 NW 172 NE 172 SE TR SW SW SW SW SW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring	15,120 7,757 980 962	1 2 1 1	368 177 182 171	Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0	-14.08 -14.27 -13.30 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate	170 55	rge calculation
172 SW 172 NW 172 NE 172 SE TR SW SW SW SW SW SW SW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant)	15,120 7,757 980 962	1 2 1 1 1	368 177 182 171 194	Spring Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0	-14.08 -14.27 -13.30 -13.30 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate -15.20	170 55 56	rge calculation
172 SW 172 NW 172 NE 172 SE TR SW SW SW SW SW SW SW SW SW SW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring	15,120 7,757 980 962	1 2 1 1 1 2	368 177 182 171 194 282	Spring Spring Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5	-14.08 -14.27 -13.30 -13.30 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate -15.20 -15.38	170 55 56	rge calculation
172 SW 172 NW 172 NE 172 SE TR SW SW SW SW SW SW SW SW SW SW SW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring)	15,120 7,757 980 962	1 2 1 1 2 1	368 177 182 171 194 282 195	Spring Spring Spring Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -108.5	-14.08 -14.27 -13.30 -13.30 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate -15.20 -15.38 -14.50	170 55 56	rge calculation
172 SW 172 NW 172 NE 172 SE TR SW SW SW SW SW SW SW NW NW NW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant)	15,120 7,757 980 962	1 2 1 1 2 1 1	368 177 182 171 194 282 195 370	Spring Spring Spring Spring Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -108.5 -99.5	-14.08 -14.27 -13.30 -13.30 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate -15.20 -15.38 -14.50 -12.86	170 55 56	rge calculation
172 SW 172 NW 172 NE 172 SE TR SW SW SW SW SW SW SW SW NW NW NW NW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring	15,120 7,757 980 962	1 2 1 1 2 1 1 1	368 177 182 171 194 282 195 370 371	Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -108.5 -99.5 -100.0	-14.08 -14.27 -13.30 -14.23 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate -15.20 -15.38 -14.50 -12.86 -13.26	170 55 56	rge calculation
172 SW 172 NW 172 NW 172 NE 172 SE TR SW SW SW SW SW SW SW SW SW SW SW SW SW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant)	15,120 7,757 980 962	1 2 1 1 2 1 1 1 1	368 177 182 171 194 282 195 370 371 372	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -108.5 -99.5 -100.0 -101.4	-14.08 -14.27 -13.30 -13.30 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate -15.20 -15.38 -14.50 -12.86 -13.26 -13.29	170 55 56	rge calculation
172 SW 172 NW 172 NE 172 SE TR SW SW SW SW SW SW NW NW NW NW NW NW NW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring	15,120 7,757 980 962	1 2 1 1 2 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -104.4 -105.3 -104.4 -105.5 -108.5 -99.5 -108.6 -100.1 -101.4 -104.5	-14.08 -14.27 -13.30 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate -15.20 -15.38 -14.50 -12.86 -13.29 -13.29 -15.40	170 55 56 d so not used in recha	
172 SW 172 NW 172 NE 172 SE TR SW SW SW SW SW SW SW NW NW NW NW NW NW NW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring Wiregrass Spring Little Spring (Grant Range)	15,120 7,757 980 962	1 2 1 1 2 1 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -108.5 -99.5 -100.0 -101.4 -114.5 -99.4	-14.08 -14.27 -13.30 -13.30 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate -15.20 -15.38 -14.50 -12.86 -13.26 -13.26 -13.29 -15.40 -12.48 Evaporate	170 55 56	
172 SW 172 NW 172 NW 172 NE 172 SE TR SW SW SW SW SW SW SW SW SW SW SW SW SW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring)	15,120 7,757 980 962 24,800	1 2 1 1 2 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -104.4 -105.3 -104.4 -105.5 -108.5 -99.5 -108.6 -100.1 -101.4 -104.5	-14.08 -14.27 -13.30 -13.30 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate -15.20 -15.38 -14.50 -15.38 -14.50 -13.26 -13.26 -13.29 -15.40 -12.48 Evaporate -13.30	170 55 56 d so not used in recha	
172 SW 172 NW 172 NE 172 SE TR SW SW SW SW SW SW SW NW NW NW NW NW NW NW NW NW NW SE ET	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring) ET	15,120 7,757 980 962 24,800	1 2 1 1 2 1 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -108.5 -99.5 -100.0 -101.4 -114.5 -99.4	-14.08 -14.27 -13.30 -13.30 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate -15.20 -15.38 -14.50 -15.38 -14.50 -12.86 -13.26 -13.26 -13.29 -15.40 -12.48 Evaporate -13.30 -12.48 Evaporate	170 55 56 Id so not used in recha	
172 SW 172 NW 172 NW 172 NE 172 SE TR SW SW SW SW SW SW SW SW SW SW SW SW SW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring)	15,120 7,757 980 962 24,800	1 2 1 1 2 1 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -108.5 -99.5 -100.0 -101.4 -114.5 -99.4	-14.08 -14.27 -13.30 -13.30 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate -15.20 -15.38 -14.50 -15.38 -14.50 -13.26 -13.26 -13.29 -15.40 -12.48 Evaporate -13.30	170 55 56 d so not used in recha	
172 SW 172 NW 172 NW 172 NE 172 SE TR SW SW SW SW SW SW SW SW SW SW SW SW SW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring) ET GW Outflow (Coal)	15,120 7,757 980 962 24,800 1,700 23,100	1 2 1 1 2 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369 136	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.3 -104.4 -105.3 -104.4 -105.3 -100.0 -112.0 -109.5 -100.0 -101.4 -101.4 -101.4 -99.5 -99.4 -98.0	-14.08 -14.27 -13.30 -13.30 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate -15.20 -15.38 -14.50 -15.20 -15.40 -12.86 -13.26 -13.26 -13.20 -15.40 -12.48 Evaporate -13.30 -104.7 -104.7	170 55 56 d so not used in recha d so not used in recha -14.08 -14.08	
172 SW 172 NW 172 NW 172 NE 172 SE TR SW SW SW SW SW SW SW SW SW SW SW SW SW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring) ET GW Outflow (Coal)	15,120 7,757 980 962 24,800 1,700 23,100	1 2 1 1 2 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369 136	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.3 -104.4 -105.3 -104.4 -105.3 -100.0 -112.0 -109.5 -100.0 -101.4 -101.4 -101.4 -99.5 -99.4 -98.0	-14.08 -14.27 -13.30 -13.30 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate -15.20 -15.38 -14.50 -15.20 -15.40 -12.86 -13.26 -13.26 -13.20 -15.40 -12.48 Evaporate -13.30 -104.7 -104.7	170 55 56 d so not used in recha d so not used in recha -14.08 -14.08	
172 SW 172 NW 172 NW 172 NE 172 SE TR SW SW SW SW SW SW SW SW SW SW SW SW SW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring) ET GW Outflow (Coal)	15,120 7,757 980 962 24,800 1,700 23,100	1 2 1 1 2 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369 136	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.3 -104.4 -105.3 -104.4 -105.3 -100.0 -112.0 -109.5 -100.0 -101.4 -101.4 -101.4 -99.5 -99.4 -98.0	-14.08 -14.27 -13.30 -13.30 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate -15.20 -15.38 -14.50 -15.20 -15.40 -12.86 -13.26 -13.26 -13.20 -15.40 -12.48 Evaporate -13.30 -104.7 -104.7	170 55 56 d so not used in recha d so not used in recha -14.08 -14.08	
172 SW 172 NW 172 NW 172 NE 172 SE TR SW SW SW SW SW SW SW SW SW SW SW SW SW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Lower Little Cherry Cr Spring Big Spring (Grant) Brady Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Brady Spring Wiregrass Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring) ET GW Outflow (Coal) Coal Valley	15,120 7,757 980 962 24,800 1,700 23,100	1 2 1 1 2 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369 136	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -100.0 -112.0 -109.5 -100.0 -101.4 -101.4 -101.4 -99.5 -99.5 -00.0 -99.5 -00.0 -99.0 -99.0 -99.0 -0.5 -99.0 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0	-14.08 -14.27 -13.30 -14.23 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate -15.20 -15.38 -14.50 -15.38 -14.50 -13.26 -13.26 -13.29 -15.40 -12.48 Evaporate -13.30 -104.7 -104.7 -104.7 -104.7	170 55 56 d so not used in recha d so not used in recha -14.08 -14.08	
172 SW 172 NW 172 NW 172 NE 172 SE TR SW SW SW SW SW SW SW SW SW SW SW SW SW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Lower Little Cherry Cr Spring Edwer Little Cherry Cr Spring Dever Little Cherry Cr Spring Edwer Spring (Grant) Brady Spring Big Spring (Grant) Brady Spring Forest Home Spring (Grant) Horse Spring (Grant) Horse Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring) ET GW Outflow (Coal) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	15,120 7,757 980 962 24,800 1,700 23,100 XXXXXXXXXX 23,100	1 2 1 1 2 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369 136	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -102.0 -109.5 -108.5 -99.5 -100.0 -101.4 -114.5 -99.4 -98.0 -88.0	-14.08 -14.27 -13.30 -13.30 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate -15.20 -15.38 -14.50 -12.86 -13.26 -13.26 -13.26 -13.29 -15.40 -12.48 Evaporate -13.30 -104.7 -104.7 -104.7 -104.7	170 55 56 d so not used in recha d so not used in recha -14.08 -14.08	
172 SW 172 NW 172 NW 172 NE 172 SE TR SW SW SW SW SW SW SW SW SW SW SW SW SW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring) ET GW Outflow (Coal) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	15,120 7,757 980 962 24,800 1,700 23,100 XXXXXXXX XX 23,100 0	1 2 1 1 2 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369 136	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -108.5 -99.5 -108.5 -108.5 -109.5 -101.4 -114.5 -99.4 -98.0 -101.4 -114.5 -98.0	-14.08 -14.27 -13.30 -14.23 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate -15.20 -15.38 -14.50 -12.86 -13.29 -15.40 -12.48 Evaporate -13.29 -15.40 -12.48 Evaporate -13.30 -104.7 -104.7 -104.7 -104.7 -104.7	170 55 56 Id so not used in recha -14.08 -14.08 XXXXXX XXXXXX	
172 SW 172 NW 172 NW 172 NE 172 SE TR SW SW SW SW SW SW SW SW SW SW SW SW SW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring) ET GW Outflow (Coal) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	15,120 7,757 980 962 24,800 1,700 23,100 xxxxxxxx xx 23,100 0 1,182	1 2 1 1 2 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369 136	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.3 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -108.5 -99.5 -100.0 -101.4 -114.5 -99.4 -98.0	-14.08 -14.27 -13.30 -14.23 -14.18 -14.01 -13.30 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate -15.20 -15.20 -15.38 -14.50 -12.86 -13.29 -15.40 -12.48 Evaporate -13.30 -104.7 -1	170 55 56 d so not used in recha -14.08 -14.08 XXXXXX XXXXXX	
172 SW 172 NW 172 NW 172 NE 172 SE TR SW SW SW SW SW SW SW SW SW SW SW SW SW	Quinn Canyon Range Grant Range Golden Gate Rng Worthington Mountains Total Recharge Unnamed Spring #7 (Quinn) Unnamed Spring #8 (Quinn) Adaven Spring Lower Little Cherry Cr Spring Carpenter Spring Big Spring (Grant) Brady Spring Forest Home Spring (Unnamed Spring) Horse Spring (Grant) Teaspoon Spring Wiregrass Spring (Grant) Murphy Spring Little Spring (Grant Range) The Seeps (Spring) ET GW Outflow (Coal) Coal Valley Inflow (SWRV) Seaman Rng Golden Gate Rng	15,120 7,757 980 962 24,800 24,800 23,100 xxxxxxx xx 23,100 0 1,182 2,675	1 2 1 1 2 1 1 1 1 1 1	368 177 182 171 194 282 195 370 371 372 373 369 136	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-104.6 -106.5 -98.0 -98.0 -104.7 -105.9 -104.4 -105.3 -103.0 -95.0 -112.0 -109.5 -100.0 -101.4 -114.5 -99.5 -100.0 -101.4 -114.5 -99.6 -98.0 -04.7 -104.7 -118.5 -99.0 -98.2	-14.08 -14.27 -13.30 -14.23 -14.08 -14.23 -14.18 -14.01 -13.90 -11.85 Evaporate -15.20 -15.38 -14.50 -12.86 -13.26 -13.26 -13.29 -15.40 -12.48 Evaporate -104.7 -1	170 55 56 d so not used in recha -14.08 -14.08 XXXXXX XXXXXX	

	W W E	Henry Spring Little Cut Spring Seaman Spring		1 2 1	287 286 306	Spring Spring Spring	-97.4 -98.3 -99.0	-12.77 -12.85 -13.13						
	Carb Well ET	USGS-MX C.V. Well (CV-DT-1) ET	0	2	176	Well	-109.0	-14.56	-104.7 -98.4	-12.95	Underflow	v from	Garden	Valley
	208	GW Outflow (Pahroc)	27,000						-103.8	-13.91				
	XXXXXXXX	*****	XXXXXXXX XX	(XXXX)	(XKXXXX)	(XXXXXXXX)	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX			
2	208	Pahroc Valley												
	207S	Inflow (S. White River)	6,400				-118.5	-15.58						
	170	Inflow (Cave)	9,400				-106.5	-14.28						
	171	Inflow (Coal)	27,000				-103.8	-13.91			70			
	208 E 208 W	N. Pahroc Rng. Seaman Rng.	2,390 2,117				-94.2 -99.0	-12.42 -13.13			73 74			
	TR	Total Recharge	4,500				-99.0	-12.75			74			
		Black Rock Spring	.,	2	158	Spring	-93.8	-12.31						
	E	Coyote Spring		2	169	Spring	-95.1	-12.53						
	E E E E E E E	Hamilton Spring		1	298	Spring	-93.1	-11.76						
	E	Little Boulder Spring		1	301	Spring	-97.2	-13.06						
	E	Mustang Spring		2	135	Spring	-90.5	-12.49						
		Pahroc Spring		3 1	131 302	Spring Spring	-92.2 -97.3	-12.65 -12.65						
	E	Rattlesnake Spring Unnamed Springnr Blackrock		1	302 299	Spring	-97.3	-12.65						
	Ŵ	Seaman Spring		1	306	Spring	-99.0	-13.13						
	Evaporated	White Rock Spring (Seaman Range)		1	154	Spring	-90.0		Evaporate	d not use	d in rechar	ge calc	ulation	
	ET	ET	0						-96.4	-12.75				
	209	GW Outflow (Pahranagat)	45,300						-105.6	-14.10				
	181	GW Outflow (Dry Lake)	2,000						-106.5	-14.28				
	XXXXXXXX	*****	XXXXXXXX XX	(XXXX)	(XKXXXX)		XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX			
:	209	Pahranagat Valley												
	208	Inflow (Pahroc)	45,300				-105.6	-14.10						
	181	Inflow (Dry Lake)	0				-98.9	-13.12						
	209	Inflow (Delamar)	0				-97.3	-12.92						
	209 E	S. Pahroc Rng.	1,283				-94.9	-12.83			77, 78			
	209 W	Mt. Irish/Pahranagat Rng.	4,223				-98.4	-14.24		79, 80	(172, 173)			
	TR	Total Recharge Eightmile Spring	5,500	2	295	Spring	-97.6 -95.6	-13.91 -13.09						
	E (E (E E 14 E 14 E	Gulch Spring(Unnamed Spring in Hells A	cres Gulch)	1	109	Spring	-93.0	-12.30						
	Ē	Sixmile Spring		1	112	Spring	-93.4	-13.06						
	E	Twin Spring		1	294	Spring	-97.4	-13.24						
	E 1a	amed Spring in Road(South Pahroc Rar	ige)	1	303	Spring	-96.7	-13.07						
	E	Unnamed Spring nr Six Mile seep		1	296	Spring	-94.5	-12.62						
	E	Water Tank 0.4mi West of Sixmile		1	297	Spring	-93.8	-12.44				1.1.1.1.1.1.1.1		
	S N W	Maynard Lake Spring (Unnamed Spring) Reed Spring		1 1	94 289	Spring Spring	-94.0 -98.4	-12.30	Local vali	ey spring	not include	a in re	charge c	acculation
	Warm	Ash Springs	12400	6	110	Spring	-109.1	-14.11						
	Warm	Little Ash Spring (Ash Spring)	500	1	111	Spring	-107.2	-14.20						
	Warm	Crystal Springs	8,200	17	116	Spring	-108.8	-14.41						
	Warm	Hiko Spring	4,300	7	122	Spring	-108.7	-14.39						
	Warm	Discharge Warm Springs (Avg)	25,400	31			-108.9	-14.26	-105.6		Inter-basi	in flow	from Pa	ahroc Valley
	ET Well	ET 209M-1	28,500	1	608	Deep Well	-104.7	-13.53	-104.1 <i>-105.6</i>	-14.07	Intor-basi	n flow	from Pa	ahroc Valley
	210	GW Outflow (Coyote Spr)	22,300	•	000	Deep Wen	-104.7	-10.00	-105.6	-14.10	inter-basi			anoc vaney
	xxxxxxxx	****	-	· · · · · · · · · · · · · · · · · · ·	~~~~~~	~~~~~~~~	*****		*****	*****	*****			
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	181	Dry Lake Valley												
	208	Inflow (Pahroc)	2,000				-106.5	-14.28						
	181 NW	S. Schell Ck Range	852				-100.4	-13.21			59			
	181 SW	N. Pahroc Rng.	2,289				-94.2	-12.42			57			
	181 NE 181 E	Fairview Rng. Bristol/Highland Rng.	3,490 7,465				-99.5 -98.9	-12.89 -13.28			58 61			
	181 E 181 SE	Chief Rng.	7,465 1,571				-98.9 -94.6	-13.28			61			
	TR	Total Recharge	1,571 15,700				-94.6 -98.0	-12.30 -12.97			02			
	E	Deadman Spring (Highland)	,	2	162	Spring	-95.0	-12.07						

E										_
F	Highland Spring		3	163	Spring	-99.1	-13.36			
	Lime Spring		2	160	Spring	-98.5	-13.16			
E	Pine Spring		2	157	Spring	-99.0	-13.37			
E	Connor Spring		1	283	Spring	-100.6	-13.84			
E	Upper Conner Spring		2	156	Spring	-101.2	-13.87			
SE	Red Rock Spring		1	256	Spring	-95.0	-12.30			
SE	Abandoned Spring		1	266	Spring	-93.0	-12.30			
SE	Buckboard Spring		1	266 264						
					Spring	-88.2	-11.71			
SE	Cottonwood Spring (Delamar)		1	265	Spring	-96.9	-12.87			
SE	Lower Chokecherry Spring		1	261	Spring	-98.4	-12.98			
SE	Oak Spring		1	269	Spring	-90.0	-11.87			
SE	Unnamed Chokecherry Spring		1	263	Spring	-98.1	-12.54			
SE	Upper Chokecherry Spring		1	262	Spring	-98.9	-12.96			
SE	Willow Spring 2 (So.of Oak Sps.summit)		1	260	Spring	-91.2	-11.69			
NE	Bailey Spring (Fairview)		2	277	Spring	-98.2	-12.69			
NE	Cottonwood Spring (Fairview)		1	274	Spring	-102.2	-13.40			
NE	Littlefield Spring		1	275	Spring	-98.5	-12.73			
NE	Lower Pony Spring		2	190	Spring	-101.0	-13.25			
NE	Meloy Spring		1	276	Spring	-99.8	-12.75			
NE	Scotty Spring		1	270	Spring	-98.9	-12.73			
NE			1							
	Indian Spring near Steward Ranch			188	Spring	-102.0	-13.60			
NE	Unnamed Spring near Pony Spring		1	191	Spring	-99.0	-12.90			
NE	Fence Spring		1	278	Spring	-97.4	-12.55			
NE	Fox Cabin		1	273	Spring	-103.5	-13.59			
NE	Lower Fairview		1	281	Spring	-97.5	-12.39			
NE	Robison Spring		1	279	Spring	-97.9	-12.34			
NE	Upper Fairview		1	280	Spring	-97.7	-12.66			
SW	Black Rock Spring		2	158	Spring	-93.8	-12.31			
SW	Coyote Spring		2	169	Spring	-95.1	-12.53			
SW	Hamilton Spring		1	298	Spring	-93.1	-11.76			
SW	Little Boulder Spring		1	301	Spring	-97.2	-13.06			
SW	Mustang Spring		2	135		-97.2	-12.49			
SW			2		Spring					
	Pahroc Spring			131	Spring	-92.2	-12.65			
SW	Rattlesnake Spring		1	302	Spring	-97.3	-12.65			
SW	Unnamed Springnr Blackrock		1	299	Spring	-94.3	-11.90			
							40.04			
NW	Sidehill Spring	1,600	2	200	Spring	-100.4	-13.21			
NW Evaporate	d Grassy Spring	1,600	3	117	Spring	-88.7	-11.08		d so not used in re	•
NW Evaporate Evaporate	d Grassy Spring d Wildhorse Spring (Fairview)	1,600	3 1			-88.7 -92.5	-11.08		d so not used in re	charge
NW Evaporate	d Grassy Spring d Wildhorse Spring (Fairview)	1,600	3	117	Spring	-88.7	-11.08			charge
NW Evaporate Evaporate	d Grassy Spring d Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well	1,600	3 1	117 183	Spring Spring	-88.7 -92.5	-11.08 -11.70	Evaporate	d so not used in re	charge sin flo
NW Evaporate Evaporate Carb Well	d Grassy Spring d Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1	1,600	3 1 <b>2</b>	117 183 <b>179</b>	Spring Spring Well	-88.7 -92.5 <b>-107.5</b>	-11.08 -11.70 <b>-14.16</b>	Evaporate -106.5	d so not used in re -14.28 Inter-bas	charge sin flo sin flo
NW Evaporate Evaporate Carb Well Carb Well	d Grassy Spring d Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1	1,600 0	3 1 2 1	117 183 <b>179</b> 603	Spring Spring Well Deep Well	-88.7 -92.5 <b>-107.5</b> <b>-105.0</b>	-11.08 -11.70 <b>-14.16</b> <b>-13.67</b>	Evaporate -106.5 -106.5	d so not used in re -14.28 Inter-bas -14.28 Inter-bas	charge sin flo sin flo
NW Evaporate Evaporate Carb Well Carb Well Carb Well ET	d Grassy Spring d Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET	0	3 1 2 1	117 183 <b>179</b> 603	Spring Spring Well Deep Well	-88.7 -92.5 <b>-107.5</b> <b>-105.0</b>	-11.08 -11.70 <b>-14.16</b> <b>-13.67</b>	Evaporate -106.5 -106.5 -106.5 -98.0	d so not used in re -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -12.97	charge sin flo sin flo
NW Evaporate Evaporate Carb Well Carb Well Carb Well ET 209	d Grassy Spring d Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat)	0 0	3 1 2 1	117 183 <b>179</b> 603	Spring Spring Well Deep Well	-88.7 -92.5 <b>-107.5</b> <b>-105.0</b>	-11.08 -11.70 <b>-14.16</b> <b>-13.67</b>	Evaporate -106.5 -106.5 -106.5 -98.0 -98.9	d so not used in re -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -12.97 -13.12	charge sin flo sin flo
NW Evaporate Evaporate Carb Well Carb Well Carb Well ET	d Grassy Spring d Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET	0	3 1 2 1	117 183 <b>179</b> 603	Spring Spring Well Deep Well	-88.7 -92.5 <b>-107.5</b> <b>-105.0</b>	-11.08 -11.70 <b>-14.16</b> <b>-13.67</b>	Evaporate -106.5 -106.5 -106.5 -98.0	d so not used in re -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -12.97	charge sin flo sin flo
NW Evaporate Evaporate Carb Well Carb Well Carb Well ET 209 182	d Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar)	0 0 17,700	3 1 2 1 1	117 183 <b>179</b> 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 <b>-107.5</b> <b>-105.0</b> <b>-104.6</b>	-11.08 -11.70 -14.16 -13.67 -13.50	Evaporate -106.5 -106.5 -106.5 -98.0 -98.9 -98.9	d so not used in re -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -12.97 -13.12 -13.12	charge in flo in flo in flo
NW Evaporate Evaporate Carb Well Carb Well Carb Well ET 209 182	d Grassy Spring d Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat)	0 0 17,700	3 1 2 1 1	117 183 <b>179</b> 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 <b>-107.5</b> <b>-105.0</b> <b>-104.6</b>	-11.08 -11.70 -14.16 -13.67 -13.50	Evaporate -106.5 -106.5 -106.5 -98.0 -98.9 -98.9	d so not used in re -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -12.97 -13.12 -13.12	charge in flo in flo in flo
NW Evaporate Evaporate Carb Well Carb Well Carb Well ET 209 182	d Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar)	0 0 17,700	3 1 2 1 1	117 183 <b>179</b> 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 <b>-107.5</b> <b>-105.0</b> <b>-104.6</b>	-11.08 -11.70 -14.16 -13.67 -13.50	Evaporate -106.5 -106.5 -106.5 -98.0 -98.9 -98.9	d so not used in re -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -12.97 -13.12 -13.12	charge in flo in flo in flo
NW Evaporate Evaporate Carb Well Carb Well ET 209 182 XXXXXXX 182	d Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) X XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X	3 1 2 1 1	117 183 <b>179</b> 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -107.5 -105.0 -104.6	-11.08 -11.70 -14.16 -13.67 -13.50	Evaporate -106.5 -106.5 -106.5 -98.0 -98.9 -98.9	d so not used in re -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -12.97 -13.12 -13.12	charge in flo in flo in flo
NW Evaporate Evaporate Carb Well Carb Well ET 209 182 XXXXXXX 182 181	d Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) X XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0 0 17,700 XXXXXXX X 17,700	3 1 2 1 1	117 183 <b>179</b> 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -107.5 -105.0 -104.6 XXXXXX 3	-11.08 -11.70 -14.16 -13.67 -13.50	Evaporate -106.5 -106.5 -106.5 -98.0 -98.9 -98.9	d so not used in re -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -12.97 -13.12 -13.12 XXXXXX XXXXXX	charge sin flo sin flo sin flo
NW Evaporate Evaporate Carb Well Carb Well Carb Well ET 209 182 XXXXXXX 182 181 182 E	d Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) X XXXXXXXXXXXXXXXXXXX XX Delamar Valley Inflow (Dry Lake) Delamar Mins.	0 0 17,700 XXXXXXX X 17,700 5,415	3 1 2 1 1	117 183 <b>179</b> 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -107.5 -105.0 -104.6 XXXXXXX 3 -98.9 -92.5	-11.08 -11.70 -14.16 -13.67 -13.50 (XXXXXX):	Evaporate -106.5 -106.5 -106.5 -98.0 -98.9 -98.9	d so not used in re -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -12.97 -13.12 -13.12 -13.12 -XXXXX XXXXXX	charge sin flo sin flo sin flo
NW Evaporate Evaporate Carb Well Carb Well Carb Well ET 209 182 XXXXXXX 182 181 182 181 182 E 182 W	d Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) X XXXXXXXXXXXXXXXXXXX XX Delamar Valley Inflow (Dry Lake) Delamar Mtns. S. Pahroc Rng.	0 0 17,700 XXXXXXX X 17,700 5,415 986	3 1 2 1 1	117 183 <b>179</b> 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -107.5 -105.0 -104.6 XXXXXXX 3 -98.9 -92.5 -94.6	-11.08 -11.70 -14.16 -13.67 -13.50 (XXXXXX) -13.12 -12.32 -12.32 -12.81	Evaporate -106.5 -106.5 -106.5 -98.0 -98.9 -98.9	d so not used in re -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -12.97 -13.12 -13.12 XXXXXX XXXXXX	charge sin flo sin flo sin flo
NW Evaporate Evaporate Carb Well Carb Well Carb Well ET 209 182 XXXXXXX 182 182 182 182 182 182 182 XR	d Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) X XXXXXXXXXXXXXXXXXXX XX Delamar Valley Inflow (Dry Lake) Delamar Mins.	0 0 17,700 XXXXXXX X 17,700 5,415	3 1 2 1 1	117 183 <b>179</b> 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -107.5 -105.0 -104.6 XXXXXXX 3 -98.9 -92.5	-11.08 -11.70 -14.16 -13.67 -13.50 (XXXXXX):	Evaporate -106.5 -106.5 -106.5 -98.0 -98.9 -98.9	d so not used in re -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -12.97 -13.12 -13.12 -13.12 -XXXXX XXXXXX	charge sin flo sin flo sin flo
NW Evaporate Evaporate Carb Well Carb Well ET 209 182 XXXXXXX 182 181 182 E 182 W	d Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) X XXXXXXXXXXXXXXXXXXX XX Delamar Valley Inflow (Dry Lake) Delamar Mtns. S. Pahroc Rng.	0 0 17,700 XXXXXXX X 17,700 5,415 986	3 1 2 1 1	117 183 <b>179</b> 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -107.5 -105.0 -104.6 XXXXXXX 3 -98.9 -92.5 -94.6	-11.08 -11.70 -14.16 -13.67 -13.50 (XXXXXX) -13.12 -12.32 -12.32 -12.81	Evaporate -106.5 -106.5 -106.5 -98.0 -98.9 -98.9	d so not used in re -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -12.97 -13.12 -13.12 -13.12 -XXXXX XXXXXX	charge sin flo sin flo sin flo
NW Evaporate Evaporate Carb Well Carb Well Carb Well Carb Well ET 209 182 XXXXXXX 182 182 182 182 182 182 182 182 182 182	d Grassy Spring Wildhorse Spring (Fairview) Fugro Dry Lake V Deep Well 181M1 181W909M ET GW Outflow (Pahranagat) GW Outflow (Delamar) X XXXXXXXXXXXXXXXXX XX Delamar Valley Inflow (Dry Lake) Delamar Mtns. S. Pahroc Rng. Total Recharge Abandoned Spring	0 0 17,700 XXXXXXX X 17,700 5,415 986	3 1 2 1 1 1	117 183 179 603 604	Spring Spring Well Deep Well Deep Well	-88.7 -92.5 -107.5 -105.0 -104.6 XXXXXXX 3 -98.9 -92.5 -94.6 -92.8 -94.5	-11.08 -11.70 -14.16 -13.67 -13.50 (XXXXXX -13.12 -12.32 -12.81 -12.39 -12.32	Evaporate -106.5 -106.5 -106.5 -98.0 -98.9 -98.9	d so not used in re -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -14.28 Inter-bas -12.97 -13.12 -13.12 -13.12 -XXXXX XXXXXX	charge sin flo sin flo sin flo
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	Gulch Spring(Unnamed Spring in Hells Acr	es Gulch)	1	109	Spring	-93.0	-12.30					
V	Eightmile Spring		2	295	Spring	-95.6	-13.09					
V	Sixmile Spring		1	112	Spring	-93.4	-13.06					
v	Twin Spring		1	294	Spring	-97.4	-13.24					
		2	1	303	Spring	-96.7	-13.07					
v id V	amed Spring in Road(South Pahroc Range	=)										
	Unnamed Spring nr Six Mile seep		1	296	Spring	-94.5	-12.62					
	Water Tank 0.4mi West of Sixmile		1	297	Spring	-93.8	-12.44					
vaporated	Grassy Spring		3	117	Spring	-88.7		vaporate	d so not i	used in rec	harge	calculati
		•	5	117	Opinig	-00.7	-11.00 L				marge	calculati
т	ET	0						-92.8	-12.39			
Vell	182W906M		1	607	Deep Well	-100.3	-13.33	-98.9	-13.12	Inter-bas	i <mark>n flow</mark>	from D
09	GW Outflow (Pahranagat)	0						-97.3	-12.92			
0	GW Outflow (Coyote Spr)	24,100						-97.3	-12.92			
		24,100						01.0	12.02			
xxxxxx	*****	******	(XXXXX	*****		XXXXXX )	(XXXXX'X	XXXXXX	*****	XXXXXX		
0000000		0000000000	000000				0000000		000000	700000		
06	Kane Springs Valley											
	hafterer (blassa)	•					0.00					
	Inflow (None)	0				0.0	0.00					
6 W	Delamar Mtns.	3,910				-89.0	-12.22			90		
6 E	Meadow Valley Mtns.	279				-87.4	-11.92			91		
	Total Recharge	4,200				-88.9	-12.20			51		
·		4,200	40		0							
	Grapevine Spring (KSV-2)		10	93	Spring	-87.4	-11.92					
	Sawmill Spring (Delamar Range)		1	259	Spring	-88.7	-12.58					
	Sawmill Spring West		1	258	Spring	-91.8	-12.86					
	Bishop Spring		3	107	Spring	-87.2	-11.72					
	Boulder Spring (KSV-4)		4	98	Spring	-89.2	-12.47					
	Kane Springs (KSV-3)		3	97	Spring	-86.8	-12.13					
	Narrow Canyon Spring		1	257	Spring	-92.5	-12.47					
	Upper Riggs Spring WR4		5	105	Spring	-87.1	-11.95					
	Willow Spring (KSV-1)		4	92	Spring	-88.4	-11.60					
	ET	0						-88.9	-12.20			
D	GW Outflow (Coyote Spr)	4,200						-88.9	-12.20			
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XXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	« X X X X X X X X X X X X X X X X X X X	(XXXXX	******	*********				*****	_ XXXXXX		
						~~~~			000000			
0	Coyote Springs Valley					~~~~						
0		22,300				-105.6	-14.10					
0 9	Inflow (Pahranagat)	22,300				-105.6	-14.10					
)	Inflow (Pahranagat) Inflow (Delamar)	22,300 24,100				-105.6 -97.3	-14.10 -12.92					
) ) 2 5	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs)	22,300 24,100 4,200				-105.6 -97.3 -88.9	-14.10 -12.92 -12.20					
D 9 2 6	Inflow (Pahranagat) Inflow (Delamar)	22,300 24,100				-105.6 -97.3	-14.10 -12.92			83		
0 2 6 0 NE	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns.	22,300 24,100 4,200 977				-105.6 -97.3 -88.9 -89.0	-14.10 -12.92 -12.20 -12.22			83		
0 9 2 6 0 NE 0 E	Inflow (Pahranagat) Inflow (Delamar) S. Delamar Mtns. S. Meadow Valley Mtns.	22,300 24,100 4,200 977 14				-105.6 -97.3 -88.9 -89.0 -87.4	-14.10 -12.92 -12.20 -12.22 -11.92			83 84		
0 9 2 6 0 NE 0 E 0 NW	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake	22,300 24,100 4,200 977 14 0				-105.6 -97.3 -88.9 -89.0 -87.4 -94.0	-14.10 -12.92 -12.20 -12.22 -11.92 -12.30			83 84 87		
0 9 2 6 0 NE 0 E 0 NW 0 SE	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng.	22,300 24,100 4,200 977 14 0 14				<b>-105.6</b> <b>-97.3</b> <b>-88.9</b> -89.0 -87.4 -94.0 -81.0	-14.10 -12.92 -12.20 -12.22 -11.92 -12.30 -10.60			83 84 87 88		
0 9 2 6 0 NE 0 E 0 NW 0 SE	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake	22,300 24,100 4,200 977 14 0				-105.6 -97.3 -88.9 -89.0 -87.4 -94.0	-14.10 -12.92 -12.20 -12.22 -11.92 -12.30			83 84 87		
0 2 6 0 NE 0 E 0 NW 0 SE 0 W	Inflow (Pahranagat) Inflow (Delamar) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range	22,300 24,100 4,200 977 14 0 14 1,124				<b>-105.6</b> <b>-97.3</b> <b>-88.9</b> -89.0 -87.4 -94.0 -81.0	-14.10 -12.92 -12.20 -12.22 -11.92 -12.30 -10.60			83 84 87 88		
) 2 5 0 NE 0 E 0 NW 0 SE 0 W	Inflow (Pahranagat) Inflow (Delamar) S. Delamar Mins. S. Meadow Valley Mins. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge	22,300 24,100 4,200 977 14 0 14				-105.6 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.7 -90.9	-14.10 -12.92 -12.20 -12.22 -11.92 -12.30 -10.60 -12.83 -12.53			83 84 87 88		
) 2 5 0 NE 0 E 0 NW 0 SE 0 W	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring	22,300 24,100 4,200 977 14 0 14 1,124	4	47	Spring	-105.6 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9	-14.10 -12.92 -12.20 -12.22 -11.92 -12.30 -10.60 -12.83 -12.53			83 84 87 88		
) 2 5 0 NE 0 E 0 NW 0 SE 0 W	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring	22,300 24,100 4,200 977 14 0 14 1,124	4	47 86	Spring	-105.6 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9 -92.5	-14.10 -12.92 -12.20 -12.22 -11.92 -12.30 -10.60 -12.83 -12.53 -12.53 -13.15			83 84 87 88		
) 2 5 0 NE 0 E 0 NW 0 SE 0 W	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring	22,300 24,100 4,200 977 14 0 14 1,124	4	47	Spring	-105.6 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9	-14.10 -12.92 -12.20 -12.22 -11.92 -12.30 -10.60 -12.83 -12.53			83 84 87 88		
0 2 5 0 NE 0 E 0 NW 0 SE 0 W	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring	22,300 24,100 4,200 977 14 0 14 1,124	4	47 86	Spring Spring Spring	-105.6 -97.3 -88.9 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9 -92.5 -91.8	-14.10 -12.92 -12.20 -12.22 -11.92 -12.30 -10.60 -12.83 -12.53 -12.53 -13.15 -12.67			83 84 87 88		
0 2 5 0 NE 0 E 0 NW 0 SE 0 W	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1	47 86 53 341	Spring Spring Spring Spring	-105.6 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3	-14.10 -12.92 -12.20 -12.22 -11.92 -12.30 -12.83 -12.53 -12.53 -13.15 -12.67 -12.31			83 84 87 88		
0 2 5 0 NE 0 E 0 NW 0 SE 0 W	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1	47 86 53 341 58	Spring Spring Spring Spring Spring	-105.6 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9 -92.5 -91.9 -92.5 -91.8 -89.3 -92.0	-14.10 -12.92 -12.20 -12.22 -11.92 -12.83 -12.83 -12.53 -12.53 -13.15 -12.67 -12.31 -12.85			83 84 87 88		
0 2 6 0 NE 0 E 0 NW 0 SE 0 W	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmil Spring (Sheep) Sheep Spring (Sheep Range)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1	47 86 53 341 58 83	Spring Spring Spring Spring Spring Spring	-105.6 -97.3 -88.9 -87.4 -94.0 -87.4 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3 -92.0 -96.0	-14.10 -12.92 -12.20 -12.22 -11.92 -12.30 -10.60 -12.83 -12.53 -13.15 -12.67 -12.31 -12.85 -13.35			83 84 87 88		
0 9 2 6 0 NE 0 E 0 NW 0 SE 0 W	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 1 3	47 86 53 341 58	Spring Spring Spring Spring Spring	-105.6 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9 -92.5 -91.9 -92.5 -91.8 -89.3 -92.0	-14.10 -12.92 -12.20 -12.22 -11.92 -12.83 -12.83 -12.53 -12.53 -13.15 -12.67 -12.31 -12.85			83 84 87 88		
0 9 2 6 0 NE 0 E 0 NW 0 SE 0 W	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmil Spring (Sheep) Sheep Spring (Sheep Range)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1	47 86 53 341 58 83	Spring Spring Spring Spring Spring Spring	-105.6 -97.3 -88.9 -87.4 -94.0 -87.4 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3 -92.0 -96.0	-14.10 -12.92 -12.22 -11.92 -12.30 -10.60 -12.83 -12.53 -12.53 -13.15 -12.67 -12.31 -12.67 -12.31 -12.93			83 84 87 88		culation
0 9 2 6 0 NE 0 E 0 NW 0 SE 0 W	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep) Wiregrass Spring (Sheep) White Rock Spring (Sheep)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 1 3 2	47 86 53 341 58 83 49 64	Spring Spring Spring Spring Spring Spring Spring Spring	-105.6 -97.3 -88.9 -87.4 -94.0 -87.4 -91.9 -91.9 -91.9 -91.9 -91.9 -92.5 -91.8 -89.3 -92.0 -96.0 -95.1 -85.5	-14.10 -12.92 -12.20 -12.22 -11.92 -12.30 -10.60 -12.83 -12.53 -12.53 -12.53 -12.67 -12.31 -12.85 -13.35 -12.93 -10.17 E			83 84 87 88 89		culation
) 2 5 0 NE 0 E 0 NW 0 SE 0 W	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmil Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) Maynard Lake Spring (Unnamed Spring)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 3 2 1	47 86 53 341 58 83 49 64 94	Spring Spring Spring Spring Spring Spring Spring Spring Spring	-105.6 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.0 -96.0 -96.0 -95.5 -94.0	-14.10 -12.92 -12.20 -11.92 -12.30 -10.60 -12.83 -12.53 -12.53 -12.53 -12.53 -12.31 -12.85 -13.35 -12.35 -12.35 -12.35 -12.35 -12.35 -12.35			83 84 87 88 89		culation
) NE E NW SE W	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmil Spring (Sheep) Sheep Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) Maynard Lake Spring (Unnamed Spring) Warm Spring	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 3 2 1 1	47 86 53 341 58 83 49 64 94 95	Spring Spring Spring Spring Spring Spring Spring Spring Spring	-105.6 -97.3 -88.9 -87.4 -94.0 -92.7 -90.9 -92.5 -91.8 -89.3 -92.5 -91.8 -89.3 -92.6 -91.8 -89.3 -92.5 -91.8 -85.5 -94.0 -81.0	-14.10 -12.92 -12.22 -11.92 -12.30 -10.60 -12.83 -12.53 -12.53 -13.15 -12.67 -12.31 -12.83 -13.15 -12.93 -13.35 -12.93 -10.17 E -12.30			83 84 87 88 89		culation
) NE E NW SE W	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmil Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) Maynard Lake Spring (Unnamed Spring)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 1 2 1 1 10	47 86 53 341 58 83 49 64 94	Spring Spring Spring Spring Spring Spring Spring Spring Spring	-105.6 -97.3 -88.9 -89.0 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.0 -96.0 -96.0 -95.5 -94.0	-14.10 -12.92 -12.20 -11.92 -12.30 -10.60 -12.83 -12.53 -12.53 -12.53 -12.53 -12.31 -12.85 -13.35 -12.35 -12.35 -12.35 -12.35 -12.35 -12.35			83 84 87 88 89		culation
NE E NW SE W	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) Maynard Lake Spring (Dnamed Spring) Wamp Spring Grapevine Spring (KSV-2)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 3 2 1 1	47 86 53 341 58 83 49 64 94 95	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-105.6 -97.3 -88.9 -89.0 -87.4 -94.0 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3 -92.0 -95.1 -85.5 -94.0 -85.5 -94.0 -81.0 -87.4	-14.10 -12.92 -12.22 -11.92 -12.30 -10.60 -12.83 -12.53 -12.53 -13.15 -12.67 -12.31 -12.83 -13.15 -12.93 -13.35 -12.93 -10.17 E -12.30			83 84 87 88 89		culation
) NE E NW SE W	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) Maynard Lake Spring (Sheep) Maynard Lake Spring (Sheep) Maynard Lake Spring (KSV-2) Bishop Spring	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 1 2 1 1 10 3	47 86 53 341 58 83 49 64 94 52 93 107	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-105.6 -97.3 -88.9 -87.4 -94.0 -87.4 -94.0 -92.7 -90.9 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -94.0 -95.1 -85.5 -94.0 -87.4 -87.2	-14.10 -12.92 -12.20 -12.22 -11.92 -12.30 -10.60 -12.83 -12.53 -12.53 -12.53 -12.53 -12.67 -12.31 -12.85 -12.93 -12.30 -10.17 E -12.30 -10.60 -11.92 -11.72			83 84 87 88 89		culation
) 2 5 0 NE 0 E 0 NW 0 SE 0 W	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) Maynard Lake Spring (Cheep) Maynard Lake Spring (Sheep) Wamp Spring Grapevine Spring (KSV-2) Bishop Spring Boulder Spring (KSV-4)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 3 2 1 1 10 3 4	47 86 53 341 58 83 49 64 94 52 93 107 98	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-105.6 -97.3 -88.9 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.0 -95.0 -96.0 -95.1 -85.5 -94.0 -81.0 -81.0 -87.4 -89.2	-14.10 -12.92 -12.20 -11.92 -12.30 -10.60 -12.83 -12.53 -12.53 -12.53 -12.63 -12.31 -12.85 -13.35 -12.31 -12.30 -10.60 -11.92 -11.72 -12.47			83 84 87 88 89		culation
) 2 3 3 0 NE 0 E 0 NW 0 SE 0 W	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmil Spring (Sheep) Sheep Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) Maynard Lake Spring (Unnamed Spring) Wamp Spring Grapevine Spring (KSV-2) Bishop Spring Boulder Spring (KSV-4) Kane Spring (KSV-3)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 3 2 1 1 10 3 4 3	47 86 53 341 58 83 49 64 93 64 93 107 98 97	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-105.6 -97.3 -88.9 -87.4 -94.0 -92.7 -90.9 -91.9 -92.7 -91.9 -91.9 -92.7 -91.8 -91.8 -94.0 -95.1 -85.5 -94.0 -95.1 -85.5 -94.0 -81.0 -87.4 -87.2 -88.8	-14.10 -12.92 -12.22 -11.92 -12.30 -10.60 -12.83 -12.53 -12.53 -12.53 -12.67 -12.31 -12.67 -12.31 -12.67 -12.31 -12.93 -10.17 E -12.30 -11.92 -11.72 -12.31			83 84 87 88 89		culation
0 2 6 0 NE 0 E 0 NW 0 SE 0 W	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) Maynard Lake Spring (Cheep) Maynard Lake Spring (Cheep) Grapevine Spring (KSV-2) Bishop Spring Boulder Spring (KSV-4)	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 3 2 1 1 10 3 4	47 86 53 341 58 83 49 64 94 52 93 107 98	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-105.6 -97.3 -88.9 -87.4 -94.0 -81.0 -92.7 -90.9 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.5 -91.9 -92.0 -95.0 -96.0 -95.1 -85.5 -94.0 -81.0 -81.0 -87.4 -89.2	-14.10 -12.92 -12.20 -11.92 -12.30 -10.60 -12.83 -12.53 -12.53 -12.53 -12.63 -12.31 -12.85 -13.35 -12.31 -12.30 -10.60 -11.92 -11.72 -12.47			83 84 87 88 89		culation
0 9 2 6 0 NE 0 E 0 NW 0 SE 0 W 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep) Waynard Lake Spring (Sheep) Waynard Lake Spring (KSV-2) Bishop Spring Boulder Spring (KSV-3) Kane Spring (KSV-3) Narrow Canyon Spring	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 3 2 1 1 10 3 4 3	47 86 53 341 58 83 341 58 83 49 64 94 52 93 107 98 97 257	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-105.6 -97.3 -88.9 -89.0 -87.4 -94.0 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3 -92.0 -95.1 -85.5 -94.0 -81.0 -85.5 -94.0 -81.4 -85.5 -94.0 -81.4 -87.2 -89.2 -86.8 -89.2 -86.2	-14.10 -12.92 -12.20 -12.22 -11.92 -12.30 -10.60 -12.83 -12.53 -12.53 -12.53 -12.53 -12.31 -12.31 -12.35 -13.35 -13.35 -12.93 -10.17 E -12.30 -10.60 -11.92 -11.72 -12.21 -11.72 -12.13 -12.21			83 84 87 88 89		culation
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0 9 2 6 6 0 NE 0 E 0 NW 0 SE 0 O W 8	Inflow (Pahranagat) Inflow (Delamar) Inflow (Kane Springs) S. Delamar Mtns. S. Meadow Valley Mtns. S. of Maynard Lake Arrow Canyon Rng. Sheep Range Total Recharge Cow Camp Spring Lamb Spring Mormon Well Spring Rye Patch Spring Sawmill Spring (Sheep) Sheep Spring (Sheep) White Rock Spring (Sheep) Warpa Spring Grapevine Spring (KSV-2) Bishop Spring Boulder Spring (KSV-4) Kane Spring (KSV-4) Kane Spring (VSV-4) Narrow Canyon Spring Sawmill Spring West Upper Riggs Spring WR4	22,300 24,100 4,200 977 14 0 14 1,124	4 1 3 1 1 1 3 2 1 1 1 0 3 4 3 1 1 1 5	47 86 53 341 58 83 49 64 93 107 98 97 257 257 257 258 105	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-105.6 -97.3 -88.9 -89.0 -87.4 -94.0 -92.7 -90.9 -91.9 -92.5 -91.8 -89.3 -92.5 -94.8 -95.1 -85.5 -94.0 -95.1 -85.5 -94.0 -87.4 -87.2 -88.8 -87.4 -87.2 -88.8 -82.5 -88.7 -81.8 -82.5 -88.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -91.9 -91.9 -91.9 -91.9 -91.9 -91.9 -91.9 -91.9 -91.9 -91.9 -91.9 -91.9 -91.9 -91.9 -91.9 -91.9 -91.9 -91.9 -91.9 -91.9 -95.1 -85.5 -94.0 -81.0 -81.0 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7 -81.7	-14.10 -12.92 -12.22 -11.92 -12.30 -12.83 -12.53 -12.53 -13.15 -12.67 -12.31 -12.67 -12.31 -12.67 -12.31 -12.93 -10.17 E -12.30 -11.92 -11.72 -12.47 -12.13 -12.47 -12.58 -12.86 -11.95			83 84 87 88 89		culation
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Carb Well Carb Well Carb Well Carb Well Carb Well CARB ET 219 217	CSI-3 USGS CSV-1 CE-VF-2 Well Fugro CV Deep Well CE-DT-5 CE-DT-4 Carbonate Well (Avg) ET GW Outflow (Muddy) GW Outflow (Hidden)	0 37,700 15,000	1 611 1 71 2 81 3 77 1 78 6	Well Well Well Well Well	-99.6 -103.0 -101.0 -99.6 -102.5 <b>-100.7</b>	-13.03 -13.55 -13.10 -12.96 -13.00 <b>-13.11</b>	-100.3 -90.9 -99.9 -99.9	-13.38 Flow weighted average of inter-basin flow from Pahranagat, Kane Springs, and Delamar Valleys -12.53 -13.35 -13.35
219				~~~~~		~~~~~	~~~~~	
205 210 219 S 219 N TR N/S Warm Warm Warm Warm Warm Warm Warm Carb Well Carb	Upper Moapa (Muddy) Valley Inflow (LMVW) Inflow (Coyote) E. Arrow Canyon? Wildcat Wash Total Recharge Grapevine Spring (KSV-2) APCCAR Baldwin Spring Big Muddy Spring Iverson's Spring Jones Spring Pumphouse M-8 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) Ce-DT-6 Well CSV-2 Well Deep Carbonate Well (Avg) ET Moapa Gage SW Outflow (California) GW Outflow (California)	4,000 37,700 2 36 0 0 2226 5500 0 0 0 200 0 0 200 0 0 400 8,300 8,300 34,000 34,000 1,700	10       93         1       292         9       291         6       69         1       65         6       292         1       68         1       70         9       290         15       67         49       2         2       72         2       76	Spring Spring Spring Spring Spring Spring Spring Spring Spring Well Well	-96.1 -99.9 -87.4 -87.4 -87.4 -87.4 -97.9 -97.0 -97.9 -97.0 -97.9 -99.0 -96.5 -97.8 -97.8 -97.8 -97.8 -97.9 -97.9	-12.90 -13.35 -11.92 -11.92 -12.97 -12.89  -13.05 -12.75 -12.45 -12.98 -12.98 -12.98 -12.93 -12.99 -13.03 -12.99 -13.03 -12.99	-99.5 -99.5 -99.5 -99.5	<ul> <li>-13.31 Flow weighted average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys</li> <li>-13.31 Flow weighted average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys</li> <li>-13.31</li> </ul>
217	Hidden Valley			<u> </u>				
210 217 E 217 W TR W ET 216	Inflow (Coyote) E. Hidden W. Hidden Total Recharge Wamp Spring ET GW Outflow (Garnet )	15,000 0 42 0 15,000	1 52	Spring	<b>-99.9</b> -81.0 -81.0 <b>-81.0</b> -81.0	-13.35 -10.60 -10.60 -10.60 -10.60	-81.0 -99.9	99 100 -10.60 -13.35
*****	*****	XXXXXXXX XX	XXXXXXXXXXXXX	XXXXXXXXX		(XXXXX)	XXXXXX :	XXXXXX XXXXXX
216 217 216 E 216 W TR W Carb Well Carb Well Carb Well Carb Well CARB ET 218	Garnet Valley Inflow (Hidden) Apex Las Vegas Range Total Recharge Wamp Spring Dry Lake Valley Well GP Apex Well Jnnamed Well (Near Dry Lake Range) US Lime Well (Genstar) Wells (Avg) ET GW Outflow (California)	15,000 0 96 100 0 15,100	1 52 1 34 3 17 1 24 1 27 6	Spring Well Well Well Well		-13.35 -10.60 -10.60 -10.60 -13.30 -13.53 -13.53 -13.70 -12.75 -13.32		-13.35 Inter-basin flow from Hidden Valley -10.60 -13.33
xxxxxxxx	*****	XXXXXXXX XX	XXXXXXXXXXXXX	XXXXXXXXX		<b>XXXXX</b>	XXXXXX :	XXXXXX XXXXX
218	California Wash							

219	SW Inflow (Muddy)	34,000									
205	SW Inflow (LMVW)	0									
219	Inflow (Muddy)	1,700				-99.5	-13.31				
205	Inflow (Lower Meadow VW)	5,300				-96.1	-12.90				
216	Inflow (Garnet)	15,100				-99.8	-13.33				
218 E	Moapa Paiutes	0				-82.0	-10.60		110		
		0									
218 W	Muddy Mtns.					-82.0	-10.60		111		
TR	Total Recharge	0				-82.0	-10.6				
W	Valley of Fire Well		1	31	Well	-82.0	-10.60				
Carb Well	Calpine Test Well 1a		4	43	Well	-99.0	-13.50				
Carb Well	Moapa Well		1	41	Well	-99.0	-13.40				
CARB	Carbonate Well (Avg)					-99.0	-13.45	-98.9	-13.22 Weighted	l Avera	ge of Infterbasin flow from Garnet and Upper Moapa Valleys
ET	ET	4,500						-82.0	-10.60		
220								-98.9	-13.22		
	GW Outflow (Lower Moapa)	18,900									
215	GW Outflow (Black Mtn Area)	2,000						-98.9	-13.22		
220	SW Outflow (Lower Moapa)	30,700									
******	****	XXXXXXXXXXX	******	*****	******	XXXXXX	XXXXXX'X				
			~~~~								
045	Disal-Manufalus Anas										
215	Black Mountains Area										
218	Inflow (California Wash)	2,000				-98.9	-13.22				
215 NE	Muddy Mtns.	0				-85.0	-10.95		113		
215 SE	Black Mtns.	0				-79.5	-10.65		114		
215 W	Gypsum Wash	0				-79.5	-10.65		112, 166		
TR	Total Recharge	0				-81.3	-10.75				
SE	Cottonwood Spring (Black Mtns.)	0	1	8	Spring	-80.0	-10.80				
SE		0	1								
	Sandstone Spring	0	10 C	10	Spring	-79.0	-10.50				
NE	Unnamed, Kaolin Wash		1	35	Spring	-88.0	-11.30				
NE	Valley of Fire Well		1	31	Well	-82.0	-10.60				
Alluvial Spri	Bitter Spring	5	1	14	Spring	-77.0	-9.90				
	Blue Point Spring	440	5								
Carb Spr				26	Spring	-92.6	-12.40				
Carb Spr	Corral Spring (Unnamed Spring)	0	1	19	Spring	-91.5	-12.10				
Carb Spr	Rogers Spring	1,200	3	21	Spring	-91.7	-12.33				
Carb Spr	Scirpus Spring (No spring on Map)	0	1	20	Spring	-90.0	-12.00				
Carb Spr	VF Spring 1	0	1	28	Spring	-88.0	-11.20				
Carb Spr Carb Spr	VF Spring 2	6	1	28 29	Spring Spring	-88.0 -92.0	-11.20				
			1 - C - C - C - C - C - C - C - C - C -								
Carb Spr Carb Spr	VF Spring 2 VF Spring 3	6 17	1	29	Spring	-92.0 -93.0	-11.80 -12.20	-98.9	-13.22 Weighted	Avera	ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB	VF Spring 2 VF Spring 3 Carbonate Spr (Avg)	6 17 1,700	1	29	Spring	-92.0	-11.80	-98.9		l Avera	ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET	6 17 1,700 1,400	1	29	Spring	-92.0 -93.0	-11.80 -12.20	-81.3	-10.75	l Avera	ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB	VF Spring 2 VF Spring 3 Carbonate Spr (Avg)	6 17 1,700	1	29	Spring	-92.0 -93.0	-11.80 -12.20			l Avera	ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River)	6 17 1,700 1,400 600	1 1 13	29 30	Spring Spring	-92.0 -93.0 -91.3	-11.80 -12.20 -12.01	-81.3 -98.9	-10.75 -13.22		ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET	6 17 1,700 1,400 600	1 1 13	29 30	Spring Spring	-92.0 -93.0 -91.3	-11.80 -12.20 -12.01	-81.3 -98.9	-10.75 -13.22		ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River)	6 17 1,700 1,400 600	1 1 13	29 30	Spring Spring	-92.0 -93.0 -91.3	-11.80 -12.20 -12.01	-81.3 -98.9	-10.75 -13.22		ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River)	6 17 1,700 1,400 600	1 1 13	29 30	Spring Spring	-92.0 -93.0 -91.3	-11.80 -12.20 -12.01	-81.3 -98.9	-10.75 -13.22		ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River)	6 17 1,700 1,400 600	1 1 13	29 30	Spring Spring	-92.0 -93.0 -91.3	-11.80 -12.20 -12.01	-81.3 -98.9	-10.75 -13.22		ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXXX 220	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 1,400 600 XXXXXXXX XX	1 1 13	29 30	Spring Spring	-92.0 -93.0 -91.3	-11.80 -12.20 -12.01	-81.3 -98.9	-10.75 -13.22		ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXXX 220 218	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 1,400 600 XXXXXXXX XX 18,900	1 1 13	29 30	Spring Spring	-92.0 -93.0 -91.3	-11.80 -12.20 -12.01	-81.3 -98.9	-10.75 -13.22		ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 1,400 600 XXXXXXX XX 18,900 30,700	1 1 13	29 30	Spring Spring	-92.0 -93.0 -91.3 ••••••••••••••••••••••••••••••••••••	-11.80 -12.20 -12.01	-81.3 -98.9	-10.75 -13.22		ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXXX 220 218	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 1,400 600 XXXXXXXX XX 18,900	1 1 13	29 30	Spring Spring	-92.0 -93.0 -91.3	-11.80 -12.20 -12.01	-81.3 -98.9	-10.75 -13.22		ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 S	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXX XX 18,900 30,700 0	1 1 13	29 30	Spring Spring	-92.0 -93.0 -91.3 ••••••••••••••••••••••••••••••••••••	-11.80 -12.20 -12.01 (XXXXXX X -13.22 -11.30	-81.3 -98.9	-10.75 -13.22 (XXXXXX XXXXXXX 101		ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 S 220 N	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXXXX 18,900 30,700 0 37	1 1 13	29 30	Spring Spring	-92.0 -93.0 -91.3 •98.9 -98.9 -88.0 -88.3	-11.80 -12.20 -12.01 (XXXXX X -13.22 -11.30 -12.50	-81.3 -98.9	-10.75 -13.22		ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXXX 220 218 218 220 S 220 N TR	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXX XX 18,900 30,700 0	1 1 13	29 30	Spring Spring	-92.0 -93.0 -91.3 •98.9 -98.9 -88.0 -88.3 -88.3	-11.80 -12.20 -12.01 -12.01 -12.01 -13.22 -13.22 -11.30 -12.50 -12.50	-81.3 -98.9	-10.75 -13.22 (XXXXXX XXXXXXX 101		ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 220 218 220 S 220 N TR N	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXXXX 18,900 30,700 0 37	1 1 13 XXXXXXX	29 30 ********	Spring Spring	0.50- 0.60- 0.610- 0.62- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.02-02- 0.02-02-02-02-02-02-02-02-02-02-02-02-02-0	-11.80 -12.20 -12.01 -12.01 -13.22 -13.22 -11.30 -12.50 -12.50 -12.50	-81.3 -98.9	-10.75 -13.22 (XXXXXX XXXXXXX 101		ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 S 220 N TR N N	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXXXX 18,900 30,700 0 37	1 1 13	29 30 ********	Spring Spring	-92.0 -93.0 -91.3 •98.9 -98.9 -88.0 -88.3 -88.3	-11.80 -12.20 -12.01 -12.01 -12.01 -13.22 -13.22 -11.30 -12.50 -12.50	-81.3 -98.9	-10.75 -13.22 (XXXXXX XXXXXXX 101		ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 220 218 220 S 220 N TR N	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXXXX 18,900 30,700 0 37	1 1 13 XXXXXXX	29 30 ********	Spring Spring	0.50- 0.60- 0.610- 0.62- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.88- 0.02-02- 0.02-02-02-02-02-02-02-02-02-02-02-02-02-0	-11.80 -12.20 -12.01 -12.01 -13.22 -13.22 -11.30 -12.50 -12.50 -12.50	-81.3 -98.9	-10.75 -13.22 (XXXXXX XXXXXXX 101		ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXXX 220 218 218 220 S 220 N TR N N N	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXXXX 18,900 30,700 0 37	1 1 13 XXXXXXX 1	29 30 *********	Spring Spring XXXXXXXXXX Spring Spring Spring	-92.0 -93.0 -91.3 •91.3 •98.9 -98.9 -88.0 -88.3 -88.3 -88.3 -88.3 -89.0 •87.0 -89.0	-11.80 -12.20 -12.01 -12.01 -13.22 -13.22 -11.30 -12.50 -12.50 -12.50 -12.30 -12.70	-81.3 -98.9	-10.75 -13.22 (XXXXXX XXXXXXX 101		ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 S 220 N TR N N N N S	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXXXX 18,900 30,700 0 37	1 1 13 XXXXXXX 1 1	29 30 ***********************************	Spring Spring XXXXXXXXXX Spring Spring Spring Spring	0.56- 0.66- 0.69- 0.69- 0.88- 0.88- 0.68- 0.68- 0.68- 0.68- 0.68- 0.68- 0.68- 0.68- 0.68- 0.68- 0.68- 0.68- 0.68- 0.68- 0.68- 0.64-0.64-0.64-0.64-0.64-0.64-0.64-0.64-	-11.80 -12.20 -12.01 (XXXXXX X -13.22 -11.30 -12.50 -12.50 -12.50 -12.50 -12.70 -12.30 -12.70 -12.30 -12.70 -11.30	-81.3 -98.9	-10.75 -13.22 (XXXXXX XXXXXXX 101		ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 220 218 220 S 220 N TR N N N N S Carb Well	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXXXX 18,900 30,700 0 37	1 1 13 XXXXXXX 1 1	29 30 ***********************************	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well		-11.80 -12.20 -12.01 -12.01 -13.22 -11.30 -12.50 -12.50 -12.50 -12.30 -12.70 -11.30 -12.45	-81.3 -98.9	-10.75 -13.22 (XXXXXX XXXXXXX 101		ge of Inflow from Califronia Wash
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 220 218 220 S 220 N TR N N N N S Carb Well Carb Well	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXXXX 18,900 30,700 0 37	1 1 13 XXXXXXX 1 1 1 1 1 1 1	29 30 ***********************************	Spring Spring XXXXXXXXXX Spring Spring Spring Spring	-92.0 -93.0 -91.3 •91.3 •98.9 -98.9 -88.0 -88.3 -88.0 -88.3 -88.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -81.0 -91.0	-11.80 -12.20 -12.01 -12.01 -13.22 -13.22 -11.30 -12.50 -12.50 -12.30 -12.30 -12.70 -11.30 -12.45 -12.70	-81.3 -98.9 XXXXX 3	-10.75 -13.22 (XXXXXX XXXXXXX (XXXXXX XXXXXXX 101 102		
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 220 218 220 S 220 N TR N N N N S Carb Well	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXXXX 18,900 30,700 0 37	1 1 13 XXXXXXX 1 1	29 30 ***********************************	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well		-11.80 -12.20 -12.01 -12.01 -13.22 -11.30 -12.50 -12.50 -12.50 -12.30 -12.70 -11.30 -12.45	-81.3 -98.9	-10.75 -13.22 (XXXXXX XXXXXXX (XXXXXX XXXXXXX 101 102		ge of Inflow from Califronia Wash from Lower Meadow Valley Wash
Carb Spr CARB ET 999 XXXXXXXXX 220 218 218 220 S 220 N TR N N N N S Carb Well Carb Well Carb Well CARB	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXX XX 18,900 30,700 0 37 0	1 1 13 XXXXXXX 1 1 1 1 1 1 1	29 30 ***********************************	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well	-92.0 -93.0 -91.3 •91.3 •98.9 -98.9 -88.0 -88.3 -88.0 -88.3 -88.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -81.0 -91.0	-11.80 -12.20 -12.01 -12.01 -13.22 -13.22 -11.30 -12.50 -12.50 -12.30 -12.30 -12.70 -11.30 -12.45 -12.70	-81.3 -98.9 XXXXX 3	-10.75 -13.22 (XXXXX XXXXXX 101 102 -12.90 Inter-basi		
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 218 220 8 220 N TR N N N S Carb Well Carb Well CARB ET	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXX X3 18,900 30,700 0 37 0	1 1 13 XXXXXXX 1 1 1 1 1 1 1	29 30 ***********************************	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well	-92.0 -93.0 -91.3 •91.3 •98.9 -98.9 -88.0 -88.3 -88.0 -88.3 -88.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -81.0 -91.0	-11.80 -12.20 -12.01 -12.01 -13.22 -13.22 -11.30 -12.50 -12.50 -12.30 -12.30 -12.70 -11.30 -12.45 -12.70	-81.3 -98.9 XXXXX 3 -96.1 -88.3	-10.75 -13.22 (XXXXX XXXXXX 101 102 -12.90 Inter-basi -12.50		
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 220 218 220 218 220 8 220 N TR N N N N N S Carb Well Carb Well CARB ET 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXX XX 18,900 30,700 0 37 0 25,300 15,300	1 1 13 XXXXXXX 1 1 1 1 1 1 1	29 30 ***********************************	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well	-92.0 -93.0 -91.3 •91.3 •98.9 -98.9 -88.0 -88.3 -88.0 -88.3 -88.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -81.0 -91.0	-11.80 -12.20 -12.01 -12.01 -13.22 -13.22 -11.30 -12.50 -12.50 -12.30 -12.70 -11.30 -12.70 -12.45 -12.70	-81.3 -98.9 XXXXX 3	-10.75 -13.22 (XXXXX XXXXXX 101 102 -12.90 Inter-basi		
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 218 220 8 220 N TR N N N S Carb Well Carb Well CARB ET	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXX X3 18,900 30,700 0 37 0	1 1 13 XXXXXXX 1 1 1 1 1 1 1	29 30 ***********************************	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well	-92.0 -93.0 -91.3 •91.3 •98.9 -98.9 -88.0 -88.3 -88.0 -88.3 -88.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -87.0 -89.0 -81.0 -91.0	-11.80 -12.20 -12.01 -12.01 -13.22 -13.22 -11.30 -12.50 -12.50 -12.30 -12.70 -11.30 -12.70 -12.45 -12.70	-81.3 -98.9 XXXXX 3 -96.1 -88.3	-10.75 -13.22 (XXXXX XXXXXX 101 102 -12.90 Inter-basi -12.50		
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 218 220 S 220 N TR N N N N S Carb Well CARB ET 999 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 1,400 600 XXXXXXX XX 18,900 30,700 0 37 0 37 0 25,300 15,300 9,000	1 1 13 XXXXXXX 1 1 1 1 1 2	29 30 xxxxxxxx 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	0.92- 0.56- 0.516- 0.58- 0.88- 0.88- 0.69- 0.68- 0.69- 0	-11.80 -12.20 -12.01 (XXXXXX X -13.22 -11.30 -12.50 -12.50 -12.50 -12.50 -12.70 -12.45 -12.70 -12.45 -12.70 -12.58	-81.3 -98.9 XXXXXX 2 -96.1 -88.3 -98.9	-10.75 -13.22 (XXXXX XXXXXX 101 102 -12.90 Inter-basi -12.50 -13.22	in flow	
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 218 220 S 220 N TR N N N N S Carb Well CARB ET 999 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 1,400 600 XXXXXXX XX 18,900 30,700 0 37 0 37 0 25,300 15,300 9,000	1 1 13 XXXXXXX 1 1 1 1 1 2	29 30 xxxxxxxx 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	0.92- 0.56- 0.516- 0.58- 0.88- 0.88- 0.69- 0.68- 0.69- 0	-11.80 -12.20 -12.01 (XXXXXX X -13.22 -11.30 -12.50 -12.50 -12.50 -12.50 -12.70 -12.45 -12.70 -12.45 -12.70 -12.58	-81.3 -98.9 XXXXXX 2 -96.1 -88.3 -98.9	-10.75 -13.22 (XXXXX XXXXXX 101 102 -12.90 Inter-basi -12.50 -13.22	in flow	
Carb Spr CARB ET 999 XXXXXXXX 220 218 220 218 220 218 220 8 220 N TR N N N N S Carb Well Carb Well CARB ET 999 999	VF Spring 2 VF Spring 3 Carbonate (Autor) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 1,400 600 XXXXXXX XX 18,900 30,700 0 37 0 37 0 25,300 15,300 9,000	1 1 13 XXXXXXX 1 1 1 1 1 2	29 30 xxxxxxxx 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	0.92- 0.56- 0.516- 0.58- 0.88- 0.88- 0.69- 0.68- 0.69- 0	-11.80 -12.20 -12.01 (XXXXXX X -13.22 -11.30 -12.50 -12.50 -12.50 -12.50 -12.70 -12.45 -12.70 -12.45 -12.70 -12.58	-81.3 -98.9 XXXXXX 2 -96.1 -88.3 -98.9	-10.75 -13.22 (XXXXX XXXXXX 101 102 -12.90 Inter-basi -12.50 -13.22	in flow	
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 218 220 S 220 N TR N N N N S Carb Well CARB ET 999 999	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 1,400 600 XXXXXXX XX 18,900 30,700 0 37 0 37 0 25,300 15,300 9,000	1 1 13 XXXXXXX 1 1 1 1 1 2	29 30 xxxxxxxx 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	0.92- 0.56- 0.516- 0.58- 0.88- 0.88- 0.69- 0.68- 0.69- 0	-11.80 -12.20 -12.01 (XXXXXX X -13.22 -11.30 -12.50 -12.50 -12.50 -12.50 -12.70 -12.45 -12.70 -12.45 -12.70 -12.58	-81.3 -98.9 XXXXXX 2 -96.1 -88.3 -98.9	-10.75 -13.22 (XXXXX XXXXXX 101 102 -12.90 Inter-basi -12.50 -13.22	in flow	
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 218 220 8 220 N TR N N N S Carb Well CARB ET 999 999 XXXXXXXXX Colorado R	VF Spring 2 VF Spring 3 Carbonate (Autor) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 1,400 600 XXXXXXXX X3 18,900 30,700 0 37 0 25,300 15,300 9,000 XXXXXXXX X3	1 1 13 XXXXXXX 1 1 1 1 1 2	29 30 xxxxxxxx 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	0.92- 0.52- 0.53- 0.54- 0.58- 0.58- 0.58- 0.69- 0.69- 0.	-11.80 -12.20 -12.01 (XXXXX X -13.22 -11.30 -12.50 -12.50 -12.50 -12.70 -12.70 -12.45 -12.70 -12.58	-81.3 -98.9 XXXXXX 2 -96.1 -88.3 -98.9	-10.75 -13.22 (XXXXX XXXXXX 101 102 -12.90 Inter-basi -12.50 -13.22	in flow	
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 220 218 220 218 220 218 220 XXXXXXXX N N N N S Carb Well Carb Well Carb Well Carb Well Carb Well Carb Well Carb Well Carb Spr Carb Spr 220 218 220 218 220 218 220 218 220 218 220 218 220 218 220 218 220 20 218 220 218 220 218 220 20 218 220 20 218 220 20 218 220 20 218 220 20 218 220 20 20 218 220 20 20 218 220 20 20 20 218 220 20 20 20 218 220 20 20 20 20 20 20 20 20 20 20 20 20	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXX XX 18,900 30,700 0 33,700 0 37 0 25,300 15,300 9,000 XXXXXXXX XX	1 1 13 XXXXXXX 1 1 1 1 1 2	29 30 ********* 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	-92.0 -93.0 -91.3 -91.3 -98.9 -98.9 -88.3 -88.3 -88.0 -88.0 -89.0 -87.0 -89.0 -87.0 -87.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.3	-11.80 -12.20 -12.01 -12.01 (XXXXX X -13.22 -11.30 -12.50 -12.50 -12.50 -12.50 -12.70 -12.45 -12.70 -12.58 (XXXXX X -13.22	-81.3 -98.9 XXXXXX 2 -96.1 -88.3 -98.9	-10.75 -13.22 (XXXXX XXXXXX 101 102 -12.90 Inter-basi -12.50 -13.22	in flow	
Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 S 220 S 220 N TR N N N S S Carb Well Carb Well Carb Well Carb Well CARB ET 999 999 XXXXXXXX Colorado R 210 205	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXX XX 18,900 30,700 0 37 0 25,300 15,300 9,000 XXXXXXXX XX 600 15,300	1 1 13 XXXXXXX 1 1 1 1 1 2	29 30 ********* 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	0.92- 0.52- 0.53- 0.54- 0.58- 0.58- 0.58- 0.69- 0.69- 0.	-11.80 -12.20 -12.01 (XXXXX X -13.22 -11.30 -12.50 -12.50 -12.50 -12.70 -12.70 -12.45 -12.70 -12.58	-81.3 -98.9 XXXXX 2 -96.1 -88.3 -98.9 XXXXX 2	-10.75 -13.22 (XXXXX XXXXXX 101 102 -12.90 Inter-basis -12.50 -13.22 (XXXXX XXXXXX	in flow	
Carb Spr Carb Spr CARB ET 999 XXXXXXXX 220 218 220 218 220 218 220 218 220 XXXXXXXX N N N N S Carb Well Carb Well Carb Well Carb Well Carb Well Carb Well Carb Well Carb Spr Carb Spr 220 218 220 218 220 218 220 218 220 218 220 218 220 218 220 218 220 20 218 220 218 220 218 220 20 218 220 20 218 220 20 218 220 20 218 220 20 218 220 20 20 218 220 20 20 218 220 20 20 20 218 220 20 20 20 218 220 20 20 20 20 20 20 20 20 20 20 20 20	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXX XX 18,900 30,700 0 33,700 0 37 0 25,300 15,300 9,000 XXXXXXX XX	1 1 13 XXXXXXX 1 1 1 1 1 2	29 30 ********* 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	-92.0 -93.0 -91.3 -91.3 -98.9 -98.9 -88.3 -88.3 -88.0 -88.0 -89.0 -87.0 -89.0 -87.0 -87.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.3	-11.80 -12.20 -12.01 -12.01 (XXXXX X -13.22 -11.30 -12.50 -12.50 -12.50 -12.50 -12.70 -12.45 -12.70 -12.58 (XXXXX X -13.22	-81.3 -98.9 XXXXXX 2 -96.1 -88.3 -98.9	-10.75 -13.22 (XXXXX XXXXXX 101 102 -12.90 Inter-basi -12.50 -13.22	in flow	
Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 S 220 S 220 N TR N N N S S Carb Well Carb Well Carb Well Carb Well CARB ET 999 999 XXXXXXXX Colorado R 210 205	VF Spring 2 VF Spring 3 Carbonate (Adv) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXX XX 18,900 30,700 0 37 0 25,300 15,300 9,000 XXXXXXXX XX 600 15,300	1 1 13 XXXXXXX 1 1 1 1 1 2	29 30 ********* 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	-92.0 -93.0 -91.3 -91.3 -98.9 -98.9 -88.3 -88.3 -88.0 -88.0 -89.0 -87.0 -89.0 -87.0 -87.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.3	-11.80 -12.20 -12.01 -12.01 (XXXXX X -13.22 -11.30 -12.50 -12.50 -12.50 -12.50 -12.50 -12.70 -12.45 -12.70 -12.58 (XXXXX X -13.22	-81.3 -98.9 XXXXX 2 -96.1 -88.3 -98.9 XXXXX 2	-10.75 -13.22 (XXXXX XXXXXX 101 102 -12.90 Inter-basis -12.50 -13.22 (XXXXX XXXXXX	in flow	
Carb Spr CARB ET 999 XXXXXXXX 220 218 218 220 S 220 S 220 N TR N N N S S Carb Well Carb Well Carb Well Carb Well CARB ET 999 999 XXXXXXXX Colorado R 210 205	VF Spring 2 VF Spring 3 Carbonate Spr (Avg) ET GW Outflow (Colorado River) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6 17 1,700 600 XXXXXXXX XX 18,900 30,700 0 37 0 25,300 15,300 9,000 XXXXXXXX XX 600 15,300	1 1 13 XXXXXXX 1 1 1 1 1 2	29 30 ********* 90 84 85 35 56 61	Spring Spring XXXXXXXXXX Spring Spring Spring Spring Well Well	-92.0 -93.0 -91.3 -91.3 -98.9 -98.9 -88.3 -88.3 -88.0 -88.0 -89.0 -87.0 -89.0 -87.0 -87.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.0 -91.3	-11.80 -12.20 -12.01 -12.01 (XXXXX X -13.22 -11.30 -12.50 -12.50 -12.50 -12.50 -12.50 -12.70 -12.45 -12.70 -12.58 (XXXXX X -13.22	-81.3 -98.9 XXXXX 2 -96.1 -88.3 -98.9 XXXXX 2	-10.75 -13.22 (XXXXX XXXXXX 101 102 -12.90 Inter-basis -12.50 -13.22 (XXXXX XXXXXX	in flow	

999 Inflow Total 24,900 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	49 51 50 60
183 Lake Valley 0 Inflow (None) 0 0.00 183 NE Fortification Rng 1,517 -106.3 -14.16 183 NW Cen. Schell Cr. Rng 4,239 -108.1 -14.74 183 SE Wilson Cr. Rng. @ Atlanta 4,816 -104.7 -13.75 183 SW Fairview Rng. 1,737 -101.1 -13.29 TR Total Recharge 12,300 -105.5 -14.08 NE Indian Springs 1 375 Spring -106.3 -14.16 NW Big Spring North 700 1 211 Spring -105.5 -14.08 NW Big Spring South 1,600 1 210 Spring -114.80 NW Big Spring 340 1 213 Spring -14.60 NW North Creek Spring 1,200 1 214 Spring -14.60	49 51 50
0 Inflow (None) 0 0.0 0.00 183 NE Fortification Rng 1,517 -106.3 -14.16 183 NE Cen. Schell Cr. Rng 4,239 -108.1 -14.74 183 SE Wilson Cr. Rng. @ Atlanta 4,816 -104.7 -13.75 183 SW Fairview Rng. 1,737 -101.1 -13.29 TR Total Recharge 12,300 -105.5 -14.08 NE Indian Springs 1 375 Spring -105.5 -14.08 NW Big Spring North 700 1 211 Spring -112.0 -15.10 NW Big Spring South 1,600 1 210 Spring -114.80 NW Geyser Spring 340 1 213 Spring -114.50 NW North Creek Spring 1,200 1 214 Spring -14.60	51 50
183 NE Fortification R/g 1,517 -106.3 -14.16 183 NW Cen. Schell Cr. Rng 4,239 -108.1 -14.74 183 SE Wilson Cr. Rng. @ Atlanta 4,816 -104.7 -13.75 183 SW Fairview Rng. 1,737 -101.1 -13.29 TR Total Recharge 12,300 -105.5 -14.08 NE Indian Springs 1 375 Spring -106.3 -14.16 NW Big Spring North 700 1 211 Spring -105.5 -14.08 NW Big Spring North 700 1 211 Spring -112.0 -15.10 NW Big Spring South 1,600 1 210 Spring -14.80 NW Geyser Spring 340 213 Spring -14.50 NW North Creek Spring 1,200 1 214 Spring -14.60	51 50
183 NW Cen. Schell Cr. Rng 4,239 -108.1 -14.74 183 SE Wilson Cr. Rng. @ Atlanta 4,816 -104.7 -13.75 183 SW Fairview Rng. 1,737 -101.1 -13.29 TR Total Recharge 12,300 -105.5 -14.08 NE Indian Springs 1 375 Spring -106.3 -14.16 NW Big Spring North 700 1 211 Spring -112.0 -15.10 NW Big Spring South 1,600 1 210 Spring -114.80 NW Geyser Spring 340 1 213 Spring -14.50 NW North Creek Spring 1,200 1 214 Spring -14.60	51 50
183 SE Wilson Cr. Rng. @ Atlanta 4,816 -104.7 -13.75 183 SW Fairview Rng. 1,737 -101.1 -13.29 TR Total Recharge 12,300 -105.5 -14.08 NE Indian Springs 1 375 Spring -106.3 -14.16 NW Big Spring North 700 1 211 Spring -115.10 NW Big Spring South 1,600 1 210 Spring -114.80 NW Geyser Spring 340 1 213 Spring -105.0 -14.50 NW North Creek Spring 1,200 1 214 Spring -105.0 -14.60	50
183 SW Fairview Rng. 1,737 -101.1 -13.29 TR Total Recharge 12,300 -105.5 -14.08 NE Indian Springs 1 375 Spring -106.3 -14.16 NW Big Spring North 700 1 211 Spring -112.0 -15.10 NW Big Spring South 1,600 1 210 Spring -114.00 NW Geyser Spring 340 1 213 Spring -105.0 -14.60 NW North Creek Spring 1,200 1 214 Spring -105.0 -14.60	
TR Total Recharge 12,300 -105.5 -14.08 NE Indian Springs 1 375 Spring -106.3 -14.16 NW Big Spring North 700 1 211 Spring -112.0 -15.10 NW Big Spring South 1,600 1 210 Spring -114.80 NW Geyser Spring 340 1 213 Spring -14.50 NW North Creek Spring 1,200 1 214 Spring -105.0 -14.60	60
NE Indian Springs 1 375 Spring -106.3 -14.16 NW Big Spring North 700 1 211 Spring -112.0 -15.10 NW Big Spring South 1,600 1 210 Spring -111.0 -14.80 NW Geyser Spring 340 1 213 Spring -105.0 -14.50 NW North Creek Spring 1,200 1 214 Spring -105.0 -14.60	
NW Big Spring North 700 1 211 Spring -112.0 -15.10 NW Big Spring South 1,600 1 210 Spring -111.0 -14.80 NW Geyser Spring 340 1 213 Spring -105.0 -14.50 NW North Creek Spring 1,200 1 214 Spring -105.0 -14.60	
NW Big Spring South 1,600 1 210 Spring -11.0 -14.80 NW Geyser Spring 340 1 213 Spring -105.0 -14.50 NW North Creek Spring 1,200 1 214 Spring -105.0 -14.60	
NW Geyser Spring 340 1 213 Spring -105.0 -14.50 NW North Creek Spring 1,200 1 214 Spring -105.0 -14.60	
NW North Creek Spring 1,200 1 214 Spring -105.0 -14.60	
NW Patterson Pass Spring WR3 15 305 Spring -108.4 -14.95	
NW Unnamed Spring in Schell Creek Range 4 304 Spring -107.3 -14.48	
SE Headwaters Spring WR5 17 309 Spring -107.3 -14.57	
SE Bailey Spring (Wilson Ck) 1 310 Spring -102.0 -12.93	
	Water not included in <mark>recha</mark> rge avera
SW Cottonwood Spring (Fairview) 1 274 Spring -102.2 -13.40	
SW Lower Pony Spring 2 190 Spring -101.0 -13.25	
SW Indian Spring near Steward Ranch 1 188 Spring -102.0 -13.60	
SW Unnamed Spring near Pony Spring 1 191 Spring -99.0 -12.90	
ET ET 6,700 -105.5	
202 GW Outflow (Patterson) 5,600 -105.5	5 -14.08
*****	XXXXXXX XXXXXX
202 Patterson Valley	
183 Inflow (Lake) 5,600 -105.5 -14.08	
202 E Wilson Cr. Rng. @ Mt. Wilson 6,542 -97.7 -12.99	47
202 W Bristol Rng. 4,039 -99.2 -13.10	48
TR Total Recharge 10,600 -98.3 -13.03	
E Bailey Spring (Wilson Ck) 1 310 Spring -102.0 -12.93 E Blue Rock Spring 1 98 Spring -93.4 -12.68	
E Blue Rock Spring 1 98 Spring -93.4 -12.68 E Headwaters Spring WR5 17 309 Spring -107.3 -14.57	
E Upper Tower Spring WKS 17 509 Spring -107.5 -14.57 E Upper Tower Spring 1 312 Spring -93.3 -12.30	
E Parsnip Spring 1 180 Spring -93.5 -12.80	
E Blue Rock Spring 1 98 Spring -93.4 -12.68 E Headwaters Spring WR5 17 309 Spring -107.3 -14.57 E Upper Tower Spring 1 312 Spring -93.3 -12.30 E Parsnip Spring 1 180 Spring -93.5 -12.80 E Horsethief Spring 2 314 Spring -97.0 -12.68	
	Water not included in <mark>recha</mark> rge avera
W Deadman Spring (Highland) 2 162 Spring -95.0 -12.07	3
W Highland Spring 3 163 Spring -99.1 -13.36	
W Lime Spring 2 160 Spring -98.5 -13.16	
W Pine Spring 2 157 Spring -99.0 -13.37	
W Connor Spring 1 283 Spring -100.6 -13.84	
W Connor Spring 1 283 Spring -100.6 -13.84 W Fox Cabin 1 273 Spring -103.5 -13.59	
W Connor Spring 1 283 Spring -100.6 -13.84 W Fox Cabin 1 273 Spring -103.5 -13.59 W Scotty Spring 1 272 Spring -98.9 -12.73	
W Connor Spring 1 283 Spring -100.6 -13.84 W Fox Cabin 1 273 Spring -103.5 -13.59 W Scotty Spring 1 272 Spring -98.9 -12.73 W Upper Fairview 1 280 Spring -97.7 -12.66	
W Connor Spring 1 283 Spring -10.6 -13.84 W Fox Cabin 1 273 Spring -103.5 -13.59 W Scotty Spring 1 272 Spring -98.9 -12.73 W Upper Fairview 1 280 Spring -97.7 -12.66 W Lower Fairview 1 281 Spring -97.5 -12.39	ted so not used in recharge calculation
W Connor Spring 1 283 Spring -10.6 -13.84 W Fox Cabin 1 273 Spring -103.5 -13.59 W Scottly Spring 1 272 Spring -98.9 -12.73 W Upper Fairview 1 280 Spring -97.7 -12.66 W Lower Fairview 1 281 Spring -97.5 -12.39 W Wildhorse Spring (Fairview) 1 183 Spring -92.5 -11.70 Evaportation	ted so not used in recharge calculatio
W Connor Spring 1 283 Spring -10.6 -13.84 W Fox Cabin 1 273 Spring -103.5 -13.59 W Scotty Spring 1 272 Spring -98.9 -12.73 W Upper Fairview 1 280 Spring -97.7 -12.66 W Lower Fairview 1 281 Spring -97.5 -12.39 W Wildhorse Spring (Fairview) 1 183 Spring -92.5 -11.70 Evaporat W McDermitt Spring 1 323 Spring -94.3 -11.21 Evaporat	ted so not used in rec <mark>harge</mark> calculation
W Connor Spring 1 283 Spring -100.6 -13.84 W Fox Cabin 1 273 Spring -103.5 -13.59 W Scottly Spring 1 272 Spring -98.9 -12.73 W Upper Fairview 1 280 Spring -97.7 -12.66 W Lower Fairview 1 281 Spring -97.5 -12.39 W Wildhorse Spring (Fairview) 1 183 Spring -92.5 -11.70 Evaport	ted so not used in rec <mark>harge</mark> calculations -13.03
W Connor Spring 1 283 Spring -100.6 -13.84 W Fox Cabin 1 273 Spring -103.5 -13.59 W Scotty Spring 1 272 Spring -98.9 -12.73 W Upper Fairview 1 280 Spring -97.7 -12.66 W Lower Fairview 1 281 Spring -97.5 -12.39 W Wildhorse Spring (Fairview) 1 183 Spring -92.5 -11.70 Evaporat W McDermitt Spring 1 323 Spring -94.3 -11.21 Evaporat ET ET 1,300 -98.3 -11.21 -98.3 -11.21 -98.3	ted so not used in recharge calculations -13.03 -13.43
W Connor Spring 1 283 Spring -100.6 -13.84 W Fox Cabin 1 273 Spring -103.5 -13.59 W Scotty Spring 1 273 Spring -103.5 -13.59 W Scotty Spring 1 272 Spring -98.9 -12.73 W Upper Fairview 1 280 Spring -97.5 -12.39 W Lower Fairview 1 281 Spring -92.5 -11.70 Evaporat W McDermitt Spring 1 323 Spring -92.5 -11.21 Evaporat W McDermitt Spring 1 323 Spring -94.3 -11.21 Evaporat ET ET 1,300 -98.3 -101.0 -98.3 203 GW Outflow (Panaca) 14,900 -101.0 -101.0	ted so not used in recharge calculations -13.03 -13.43
W Connor Spring 1 283 Spring -100.6 -13.84 W Fox Cabin 1 273 Spring -103.5 -13.59 W Scotty Spring 1 277 Spring -103.5 -13.59 W Scotty Spring 1 272 Spring -98.9 -12.73 W Upper Fairview 1 280 Spring -97.7 -12.66 W Lower Fairview 1 281 Spring -97.5 -12.39 W Wildhorse Spring (Fairview) 1 183 Spring -92.5 -11.70 W McDermitt Spring 1 323 Spring -94.3 -11.21 Evaporat ET ET 1,300 -98.3 -101.0 -101.0 XXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ted so not used in recharge calculations -13.03 -13.43
W Connor Spring 1 283 Spring -100.6 -13.84 W Fox Cabin 1 273 Spring -103.5 -13.59 W Scotty Spring 1 273 Spring -103.5 -13.59 W Scotty Spring 1 272 Spring -98.9 -12.73 W Upper Fairview 1 280 Spring -97.5 -12.66 W Lower Fairview 1 281 Spring -97.5 -12.39 W Wildhorse Spring (Fairview) 1 183 Spring -92.5 -11.70 Evaporat ET ET 1,300	ted so not used in recharge calculations -13.03 -13.43
W Connor Spring 1 283 Spring -100.6 -13.84 W Fox Cabin 1 273 Spring -103.5 -13.59 W Scotty Spring 1 273 Spring -103.5 -13.59 W Scotty Spring 1 272 Spring -98.9 -12.73 W Upper Fairview 1 280 Spring -97.7 -12.66 W Lower Fairview 1 281 Spring -97.5 -12.39 W Wildhorse Spring (Fairview) 1 183 Spring -92.5 -11.70 Evaporat W McDernitt Spring 1 323 Spring -92.5 -11.21 Evaporat 203 GW Outflow (Panaca) 14,900 -101.0 -98.3 -101.0 XXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ted so not used in recharge calculations -13.03 -13.43
W Connor Spring 1 283 Spring -100.6 -13.84 W Fox Cabin 1 273 Spring -103.5 -13.59 W Scotty Spring 1 273 Spring -103.5 -13.59 W Scotty Spring 1 272 Spring -98.9 -12.73 W Upper Fairview 1 280 Spring -97.7 -12.66 W Lower Fairview 1 281 Spring -97.5 -12.39 W Wildhorse Spring (Fairview) 1 183 Spring -92.5 -11.70 Evaporat ET ET 1,300	ted so not used in recharge calculations -13.03 -13.43 : XXXXXX XXXXXX 52
W Connor Spring 1 283 Spring -100.6 -13.84 W Fox Cabin 1 273 Spring -103.5 -13.59 W Scotty Spring 1 273 Spring -103.5 -13.59 W Scotty Spring 1 272 Spring -98.9 -12.73 W Upper Fairview 1 280 Spring -97.7 -12.66 W Lower Fairview 1 281 Spring -97.5 -12.39 W Wildhorse Spring (Fairview) 1 183 Spring -92.5 -11.70 Evaporat ET 1,300 -98.3 -101.0 -98.3 -101.0 -98.3 203 GW Outflow (Panaca) 14,900 -101.0 -101.0 XXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX	ted so not used in recharge calculations -13.03 -13.43 : XXXXXX XXXXXX 52

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E	Lion Spring		1	318	Spring	-103.4	-14.11			
E	South Monument Spring		1	319	Spring	-102.3	-14.23			
E	Ripgut Sp #40		1	411	Spring	-106.4	-14.38			
Ξ	Unnamed Spring #1(White Rock Mts)		1	415	Spring	-109.6	-15.05			
E	Unnamed Spring #2 (White RockMts)		1	417	Spring	-97.0	-13.00			
E	Upper Burnt Canyon Spring		1	416	Spring	-97.6	-12.83			
E E E E E E E E E E E E E E E E E E E	Upper Burnt Canyon Spring #2		1	416	Spring	-103.6	-13.66			
E	Jnnamed Spring nr Redd's Cabin Summit		2	173	Spring	-94.4	-12.44			
Ē	Tobe Spring		1	315	Spring	-100.0	-13.04			
F	Tobe Spring 2		1	316	Spring	-93.6	-12.09			
F	Unnamed Spring in Miller Canyon		1	313	Spring	-103.7	-14.27			
-	Headwaters Spring WR5		1	309	Spring	-107.3	-14.57			
W	Blue Rock Spring		1	311	Spring	-93.4	-14.57			
W W	Headwaters Spring WR5		17	309	Spring	-107.3	-14.57			
	Bailey Spring (Wilson Ck)		1	310	Spring	-102.0	-12.93			
W	Horsethief Spring		2	314	Spring	-97.0	-12.68			
W	Parsnip Spring		1	180	Spring	-93.5	-12.80			
W	Upper Tower Spring		1	312	Spring	-93.3	-12.30			
Surface	Camp Creek		1	184	Surface	-102.0			ater not inc	
Surface	MVW above Eagle Canyon		1	168	Surface	-93.0	-12.00 \$		ater not inc	luded in <mark>r</mark>
ET	ET	3,900						-99.4	-13.28	
200	GW Outflow (Eagle)	7,300						-99.4	-13.28	
200	SW Outflow (Eagle)	0						-97.5	-13.00	
XXXXXXXX	* ****	XXXXXXXXX	XXXXXX	XXXXXX	XXXXXXXXX	XXXXXX)	(XXXXX)	XXXXXX X	XXXXXX X	XXXXX
200	Eagle Valley									
201	Inflow (Spring)	7,300				-99.4	-13.28			
201	SW Inflow (Spring)	0				-97.5	-13.00			
200 E	E. Eagle (Ursine) Valley	1,578				-99.1	-13.28			63
200 W	W. Eagle (Ursine) Valley	417				-97.0	-12.68			64
TR	Total Recharge	2,000				-98.7	-13.15			
	Butcher Spring	_,	1	424	Spring	-103.2	-14.22			
E E E E E E E	Newels Spring		1	423	Spring	-96.0	-12.48			
	Ox Valley Spring		4	422	Spring	-100.0	-13.95			
-										
	Unnamed Spring #2 (Mahogany Mts)			421	Spring	-100.7	-13.47			
E	Water Canyon Spring (Mahogany)		1	420	Spring	-100.4	-13.68			
E	Tobe Spring		1	315	Spring	-100.0	-13.04			
E	Tobe Spring 2		1	316	Spring	-93.6	-12.09			
W	Horsethief Spring		2	314	Spring	-97.0	-12.68			
ET	ET	1,000						-98.7	-13.15	
199	GW Outflow (Rose)	8,300						-99.3	-13.26	
198	SW Outflow (Rose)	0						-98.7	-13.00	
xxxxxxx	*	XXXXXXX X	xxxxx	XXXXXXX	xxxxxxx		(XXXXX)	xxxxx x	xxxxx x	xxxxx
199	Rose Valley									
200	Inflow (Eagle)	8,300				-99.3	-13.26			
200	SW Inflow (Eagle)	0,500				-98.7	-13.00			
199 E	E. Rose Valley	165				-99.1	-13.28			65
199 E 199 W	W. Rose Valley	79				-99.1	-13.28			66
ree vv	Total Recharge	200				-97.0 -98.4	-12.00 -13.08			00
		200	4	424	Coring					
	Butcher Spring		1	424	Spring	-103.2	-14.22			
E E E	Newels Spring		1	423	Spring	-96.0	-12.48			
E	Ox Valley Spring		1	422	Spring	-100.0	-13.95			
E	Unnamed Spring #2 (Mahogany Mts)		1	421	Spring	-100.7	-13.47			
E	Water Canyon Spring (Mahogany)		1	420	Spring	-100.4	-13.68			
E	Tobe Spring		1	315	Spring	-100.0	-13.04			
E E W	Tobe Spring 2		1	316	Spring	-93.6	-12.09			
W	Horsethief Spring		2	314	Spring	-97.0	-12.68			
ET	ET	600						-98.4	-13.08	
L 1		7,900						-99.3	-13.25	
	GW Outflow (Dry)	1,000								
198	GW Outflow (Dry) SW Outflow (Dry)	0						-98.4	-13.08	
198 198	SW Outflow (Dry)	0	~~~~~	~~~~	~~~~~		~~~~~			~~~~~
198 198		0	xxxxx	XXXXXX	(XXXXXXXXX		XXXXX D			xxxxx
198 198	SW Outflow (Dry)	0	XXXXXX	XXXXXXX	xxxxxxx	XXXXXX)	(XXXXX)			(XXXXX
98 98 (XXXXXXX	SW Outflow (Dry)	0	xxxxx	XXXXXXX	xxxxxxxx	-99.3	(XXXXX) -13.25			xxxxx

199 198 E 198 W FR	SW Inflow (Rose) E. Dry Valley W. Dry Valley Total Recharge Kiln Spring Summit Spring (Mahogany Mts.) Newels Spring Ox Valley Spring Unnamed Spring #2 (Mahogany Mts)	0 2,895 324 3,200	1 1 1 1	418 419 423 422 421	Spring Spring Spring Spring Spring	-98.4 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0 -100.7	-13.08 -12.99 -12.68 -12.34 -12.04 -12.48 -13.95 -13.47		67 68	
V Varm Spring T 03 03	Water Canyon Spring (Mahogany) Horsethief Spring Flatnose Spring (Unnamed Spring) Delmues Spring (Unnamed Spring) ET GW Outflow (Panaca) SW Outflow (Panaca)	3,700 7,400 0	1 2 1 1	420 314 153 149	Spring Spring Spring Spring	-100.4 -97.0 -101.0 -104.0	-13.68 -12.68 -13.40 -13.40	-99.3 -97.2 -99.3 -97.2	-13.00 -13.25 -13.00	w from Dry Valley ring not included in recharge calculation
04	Clover Valley	*****	(XXXXX	XXXXXXX					*****	
204 N 204 S	Inflow (None) South of Beaver Dam North of Jack's Mtn	0 8,332 6,529				0.0 -92.2 -92.0	0.00 -12.42 -12.52		71 72	
R 	Total Recharge Acoma Well Cave Spring (Clover) Clover Creek Valley Well 246	14,900	1 2 1	118 247 120	Well Spring Well	-92.1 -95.0 -92.8 -89.0	-12.46 -12.60 -12.37 -12.40			
	Ramone Mathews Well Big Spring (Clover) East Settling Spring Ella Spring		1 2 1 1	115 253 248 251	Well Spring Spring Spring	-92.0 -93.6 -92.2 -95.8	-12.30 -12.89 -12.76 -12.56			
	Little Springs (Clover Mts) Quaking Aspen Spring Sheep Spring (Clover) Unnamed Spring		2 1 2 1	254 255 108 113	Spring Spring Spring Spring	-93.3 -93.6 -88.8 -86.5	-12.81 -12.98 -12.03 -11.60			
Alluvial Well ET 205 205	Clover Creek Valley Well 232 ET GW Outflow (LMVW) SW Outflow (LMVW)	5,200 9,700 0	1	114	Well	-84.0	-11.70	-92.1 -92.1 -92.1	-12.46 -12.46 -12.46	
	******	XXXXXXXX XX	xxxxx	XXXXXXX	XXXXXXXXX	XXXXXX	XXXXX	XXXXXX X	*****	
03	Panaca Valley						10.10			
202 198 198	Inflow (Patterson) Inflow (Dry) SW Inflow (Dry)	14,900 7,400 0				-101.0 -99.3 -97.2	-13.43 -13.25 -13.00			
03 E 03 W R V	Condor Canyon Cathedral Gorge Total Recharge Connor Spring	2,509 3,020 5,500	1	283	Spring	-92.0 -98.9 -95.8 -100.6	-12.19 -13.28 -12.78 -13.84		69 70	
V V V	Deadman Spring (Highland) Highland Spring Lime Spring		2 3 2	162 163 160	Spring Spring Spring	-95.0 -99.1 -98.5	-12.07 -13.36 -13.16			
V	Pine Spring Upper Conner Spring Kiln Spring Summit Spring (Mahogany Mts.)		2 2 1 1	157 156 418 419	Spring Spring Spring Spring	-99.0 -101.2 -91.9 -92.1	-13.37 -13.87 -12.34 -12.04			
/arm /arm /arm	Bennett Spring Caliente Hot Springs (Hotel) Panaca Spring Meadow Valley Wash, Cal.	20 0 7700	1 8 13 1	141 129 144 130	Spring Spring Spring Surface	-103.0 -107.9 -106.9 -97.0	-13.70 -14.44 -14.14 -13.10	-101.0 -105.5 -105.5	-13.43 Inter-basi <mark>n flo</mark> -14.08 Inter-basin flo -14.08 Inter-basin flo	
			1	142 143	Well	-103.0 -106.0	-13.30 -14.00			
Surface Warm Warm Warm ET	Lester Mathews Well Panaca Town Well North Lee Well ET	18,900	1 1	143	Well	-101.0	-13.30	-99.1	-13.20	

205	Lower Meadow Valley Wash														
203	Inflow (Panaca)	8,900				-100.4	-13.37								
204	Inflow (Clover)	9,700				-92.1	-12.46								
203	SW Inflow (Panaca)	0				-99.1	-13.20								
204	SW Inflow (Clover)	0				-92.1	-12.46								
205 NW	Delamar Mtns.	3,114				-92.2	-12.28			92					
205 NE	Clover Mountains	7,378				-90.4	-12.25			93					
205 SW	Meadow Valley Mtns.	1,160				-87.4	-11.92			94					
205 SE	Mormon Mtns.	906				-90.0	-12.65			95					
TR	Total Recharge	12,600				-90.6	-12.25								
NE	Big Spring (Clover)		2	253	Spring	-93.6	-12.89								
NE	East Settling Spring		1	248	Spring	-92.2	-12.76								
NE	Ella Spring		1	251	Spring	-95.8	-12.56								
NE	Garden Spring		1	246	Spring	-87.0	-11.54								
NE	Kershaw-Ryan Spring #1		1	250	Spring	-95.1	-13.11								
NE	Sheep Spring (Clover)		2	108	Spring	-88.8	-12.03								
NE	Unnamed Spring		1	113	Spring	-86.5	-11.60								
NE	Unnamed Spring (Clover)		1	249	Spring	-88.0	-12.20								
NE	Garden Spring		1	246	Spring	-87.0	-11.54								
NW	Abandoned Spring		1	266	Spring	-94.5	-12.32								
NW	Grassy Spring		3	117	Spring	-88.7		vanorater	d so not use	d in rech	arne calc	ulation			
NW	Buckboard Spring		1	264	Spring	-88.2	-11.71		2 55 1101 056		ange calc				
NW	Cottonwood Spring (Delamar)		1	264	Spring	-96.9	-12.87								
NW	Bishop Spring		3	107	Spring	-90.9	-12.07								
NVV NVV	Bishop Spring Boulder Spring (KSV-4)		3	98		-87.2	-11.72								
NVV NW			4	98 261	Spring		-12.47								
	Lower Chokecherry Spring		1		Spring	-98.4									
W	Lower Indian Spring		1	267	Spring	-96.0	-12.62								
WW	Narrow Canyon Spring		1	257	Spring	-92.5	-12.47								
WW	Oak Spring		1	269	Spring	-90.0	-11.87								
NW	Red Rock Spring		1	256	Spring	-95.0	-12.30								
NW	Willow Spring (KSV-1)		4	92	Spring	-88.4	-11.60								
NW	Sawmill Spring (Delamar Range)		1	259	Spring	-88.7	-12.58								
W	Sawmill Spring West		1	258	Spring	-91.8	-12.86								
NW	Unnamed Chokecherry Spring		1	263	Spring	-98.1	-12.54								
W	Upper Chokecherry Spring		1	262	Spring	-98.9	-12.96								
	Willow Spring 2 (So.of Oak Sps.summit)		1	260	Spring	-91.2	-11.69								
W	Upper Indian Spring		1	268	Spring	-88.0	-11.46								
W	Upper Riggs Spring WR4		5	105	Spring	-87.1	-11.95								
SW	Grapevine Spring (KSV-2)		10	93	Spring	-87.4	-11.92								
SE	Davies Spring		1	90	Spring	-89.0	-12.50								
SE	Horse Spring (Morman)		1	85	Spring	-89.0	-12.70								
SE	Hackberry Spring		1	84	Spring	-87.0	-12.30								
Warm	Kershaw-Ryan Spring #1		1	250	Spring	-95.1	-13.11	-96.1	-12.90 W	eighted <mark>/</mark>	Average (of Infterbasin	flow from G	arnet and Uppe	er Moapa Valley
Warm	EH-6 Weiser Wash		1	59	Well	-99.5	-13.90								
Warm	EH-8 Weiser Wash		1	57	Well	-96.5	-13.70								
Alluvial Well	Railroad Well (Farrier, NV)		1	80	Well	-97.5	-12.50								
ET	ET	21,900						-92.9	-12.53						
206	GW Outflow (Upper Moapa)	4,000						-96.1	-12.90						
218	GW Outflow (California Wash)	5,300						-96.1	-12.90						
218	SW Outflow (California Wash)	0						-90.6	-12.25						

		S	SNWA/BAR	RCASS	SNWA, 200	7: Welch an	d Briaht	. 2007)		
Region	Name	Volume	# of	Site#	Site	Obs.	Obs.	Calc.	Calc.	IC
~~~~~		Arce-ft/yr			Туре	δD	δ18Ο	δD	δ18Ο	~~~~~~
XXXXXXX	*****	******		*****				*****	*****	*****
75	Long Valley									
	Inflow (None)	0				0.0	0.00			
75 SE	Butte Mtn. (S)	2,676				-119.6	-15.53			35
75 SW	Alligator Rdg.	3,667				-122.4	-15.96			36
75 NW	Maverick Springs	11,446				-123.9	-16.23			37
75 NE	Butte Mtn. (N)	3,228				-119.2	-15.36			164
<b>R</b> SE	Total Recharge	21,000	4	327	Coriog	<b>-122.4</b> -120.4	<b>-15.96</b> -15.79			
SE SE	Butte Spring Cabin Spring		1	328	Spring Spring	-120.4	-15.79			
SE SE	Robbers Roost #2 Spring (Butte)		1	320 340	Spring	-124.4	-14.39			
E	Deer Spring (Butte)		1	332	Spring	-112.0	-14.39			
SE	Summit Spring		1	348	Spring	-120.8	-15.94			
SE	Thirty Mile Spring		1	242	Spring	-126.0	-16.40			
1W	Mud Spring (Buck Mts)		1	339	Spring	-117.6	-15.21			
W	Ram. Res. Wtr Supply Well		1	244	Well	-129.5	-16.75			
W	Unnamed Near Little Willow Spring		1	351	Spring	-125.9	-17.04			
W	Well at Alligator Ridge		1	243	Well	-127.0	-16.60			
W	Woodchuck Spring		1	356	Spring	-119.6	-15.55			
E	White Rock Spring (Butte)		1	355	Spring	-119.2	-15.36			
T	ET	1,200						-122.4	-15.96	
54 74	GW Outflow (Newark) GW Outflow (Jakes)	0						-122.4 -122.4	-15.96 -15.96	
14	GW Outnow (Jakes)	19,800						-122.4	-15.90	
XXXXXXX	*****	XXXXXXXXX	XXXXXXX	XXXXX	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
74	Jakes Valley									
75	Inflow (Long)	19,800								
74 E	Egan Range					-122.4	-15.96			
74 W		2,909				-122.4 -118.4	- <b>15.96</b> -15.31			33
	North White Pine	2,909 10,076								33 34
						-118.4	-15.31			
R V	North White Pine Total Recharge Tunnel Spring	10,076	1	366	Spring	-118.4 -120.3 <b>-119.9</b> -118.3	-15.31 -15.83 <b>-15.71</b> -15.02			
R / /	North White Pine Total Recharge Tunnel Spring Aspen Springs North	10,076	1	349	Spring	-118.4 -120.3 <b>-119.9</b> -118.3 -119.3	-15.31 -15.83 <b>-15.71</b> -15.02 -15.84			
<b>'R</b> V V V	North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South	10,076	1	349 324	Spring Spring	-118.4 -120.3 <b>-119.9</b> -118.3 -119.3 -120.9	-15.31 -15.83 <b>-15.71</b> -15.02 -15.84 -16.02			
R V V V	North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring	10,076	1 1 1	349 324 330	Spring Spring Spring	-118.4 -120.3 -119.9 -118.3 -119.3 -120.9 -122.0	-15.31 -15.83 <b>-15.71</b> -15.02 -15.84 -16.02 -16.17			
<b>R</b> V V V V V	North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring	10,076	1	349 324 330 331	Spring Spring Spring Spring	-118.4 -120.3 -119.9 -118.3 -119.3 -120.9 -122.0 -114.5	-15.31 -15.83 <b>-15.71</b> -15.02 -15.84 -16.02 -16.17 -15.30			
R / / / /	North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring	10,076	1 1 1	349 324 330 331 342	Spring Spring Spring Spring Spring	-118.4 -120.3 -119.9 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76			
R / / / / / /	North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring	10,076	1 1 1	349 324 330 331 342 239	Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.9 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20			
R / / / / / / /	North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring	10,076	1 1 1	349 324 330 331 342 239 344	Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.9 -118.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54			
R / / / / / / /	North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring	10,076	1 1 1 1 1 1 1	349 324 330 331 342 239 344 350	Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.9 -118.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69			
R V V V V V V V V V V	North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring	10,076	1 1 1 1 1 1 1 1	349 324 330 331 342 239 344 350 352	Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.6 -120.9 -123.6	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18			
R V V V V V V V V V V V V V	North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine)	10,076	1 1 1 1 1 1 1 1	349 324 330 331 342 239 344 350 352 240	Spring Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9 -123.6 -120.9	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -16.80			
R / / / / / / / / / / / /	North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring	10,076	1 1 1 1 1 1 1 1	349 324 330 331 342 239 344 350 352	Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.6 -120.9 -123.6	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18			
R / / / / / / / / / / // //E	North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine)	10,076	1 1 1 1 1 1 1 1 2	349 324 330 331 342 239 344 350 352 240 354	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9 -123.6 -129.0 -116.2	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -16.80 -15.39			
R / / / / / / / / / / //E	North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte)	10,076	1 1 1 1 1 1 1 1 2	349 324 330 331 342 239 344 350 352 240 354 334	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9 -123.6 -129.0 -116.2 -119.1	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -16.69 -16.54 -16.80 -15.39 -15.31 -15.30	Surface V	Vater not i	34
FR V V V V V V V V V V V V V	North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Mild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET	10,076 <b>13,000</b> 900	1 1 1 1 1 1 1 1 2 1	<ul> <li>349</li> <li>324</li> <li>330</li> <li>331</li> <li>342</li> <li>239</li> <li>344</li> <li>350</li> <li>352</li> <li>240</li> <li>354</li> <li>334</li> <li>343</li> </ul>	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.9 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9 -123.6 -120.9 -123.6 -129.0 -116.2 -119.1 -117.6	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -16.69 -16.54 -16.80 -15.39 -15.31 -15.30	-121.4	-15.86	34
rr N N N N N N N N N N N N N N N N N N	North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Schelback Ridge Spring Mild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV)	10,076 13,000 900 31,900	1 1 1 1 1 1 1 1 2 1 2	349 324 330 331 342 239 344 350 352 240 354 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Surface	-118.4 -120.3 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -129.0 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -16.80 -15.39 -15.31 -15.30 -16.10	-121.4 -121.4	-15.86 -15.86	34 ncluded ir
TR W W W W W W W W W W W W W	North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Mild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET	10,076 13,000 900 31,900	1 1 1 1 1 1 1 1 2 1 2	349 324 330 331 342 239 344 350 352 240 354 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Surface	-118.4 -120.3 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -129.0 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -16.80 -15.39 -15.31 -15.30 -16.10	-121.4 -121.4	-15.86 -15.86	34 ncluded ir
R / / / / / / / / / / / / / / / / / / /	North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Schelback Ridge Spring Mild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV)	10,076 13,000 900 31,900	1 1 1 1 1 1 1 1 2 1 2	349 324 330 331 342 239 344 350 352 240 354 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Surface	-118.4 -120.3 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -129.0 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -16.80 -15.39 -15.31 -15.30 -16.10	-121.4 -121.4	-15.86 -15.86	34 ncluded ir
R V V V V V V V V V V V V V V V V T O7N	North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Unnamed Shellback Ridge Spring Upnamed Shellback Ridge Spring Upnamed Stone Cabin Spring Unnamed Stone Cabin Spring Upper Illipah Crk ET GW Outflow (NWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	10,076 13,000 900 31,900	1 1 1 1 1 1 1 1 2 1 2	349 324 330 331 342 239 344 350 352 240 354 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Surface	-118.4 -120.3 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -129.0 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -16.80 -15.39 -15.31 -15.30 -16.10	-121.4 -121.4	-15.86 -15.86	34 ncluded ir
/E /E /T I7N KXXXXXX	North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Unnamed Shellback Ridge Spring Gave State Spring State Spring Unnamed Shellback Ridge Spring Unnamed Shellback Shellback Ridge Spring Unnamed Shellback Spring Unnamed Shellback Spring Unnamed Shellback Spring Unnamed Shellback Spr	10,076 13,000 900 31,900 XXXXXXXXX	1 1 1 1 1 1 1 1 2 1 2	349 324 330 331 342 239 344 350 352 240 354 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Surface	-118.4 -120.3 -119.9 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.6 -120.9 -123.6 -120.9 -123.6 -120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -16.69 -16.18 -15.69 -16.18 -15.39 -15.31 -15.30 -16.10	-121.4 -121.4	-15.86 -15.86	34 ncluded ir

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	
180 W	S. Egan Rng	7,944				-107.8	-14.28			45,46	
TR	Total Recharge	15,400				-106.5	-14.28				
E	North Creek Spring		1	214	Spring	-105.0	-14.60				
E	Patterson Pass Spring WR3		15	305	Spring	-108.4	-14.95				
E	Unnamed Spring in Schell Creek Range		4	304	Spring	-107.3	-14.48				
E	Sheep Spring (Schell Ck)		1	212	Spring	-99.5	-13.70				
E	Robbers Roost Spring (Schell Ck)	4 000	1	389	Spring	-109.7	-14.75				
E W	Sidehill Spring	1,600	2	200	Spring	-100.4	-13.21				
W	Big Spring (Egan)		4 2	206 219	Spring	-105.5	-13.90				
W	Chimney Rock Spring Granite Spring		2	440	Spring	-110.5 -103.4	-14.52 -13.32				
W	Haggerty Spring		1	387	Spring Spring	-109.6	-14.78				
W	Hole in the Bank Spring		1	386	Spring	-114.9	-15.37				
W	Silver Spring		2	385	Spring	-111.4	-14.71				
W	Shingle Spring		2	203	Spring	-103.7	-13.33				
Ŵ	Perry Sp Barcass 37		1	408	Spring	-107.7	-15.04				
W	Trough Spring		1	413	Spring	-103.6	-13.56				
ET	ET	1,600			9			-106.5	-14.28		
Well	180W902	.,	1	601	Deep Well	-104.7	-14.12				
Well	180W501		1	600	Deep Well	-105.6	-14.12				
208	GW Outflow (Pahroc)	9,800			•			-106.5	-14.28		
207S	GW Outflow (SWRV)	4,000						-106.5	-14.28		
					~~~~~~~~~						
XXXXX	XXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	(XXXXXXXX)	(XXXXXXX	XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
207N	North White River Valley										
174	Inflow (Jakes)	31,900				-121.4	-15.86				
207 NE	Egan Rng North	16,554				-112.3	-15.15			38	
207 NW	/ White Pine Rng.	12,030				-115.0	-15.18			39, 40	
TR	Total Recharge	28,600				-113.5	-15.16				
NE	on Creek Spring (Unnamed Spring in Gut	ler Canyon)	1	235	Spring	-111.0	-14.90				
NE	Hole in the Bank Spring		1	386	Spring	-114.9	-15.37				
NE	Lone Pine Spring		3	223	Spring	-110.2	-14.90				
NE	High Springs		1	433	Spring	-113.4	-15.43				
NE	Lion Spring (Egan Range)		1	430	Spring	-114.8	-15.34				
NE	Mud Spring		1	446	Spring	-111.0	-14.53				
NE	Pine Springs (Egan Range)			434	Spring	-116.0	-15.71				
NE NE	Unnamed Spring #1(Egan) Unnamed Spring #2 (Egan Range)		1	435		440.0	45 44				
NE			4		Spring	-112.2	-15.14				
NE			1	436	Spring	-110.0	-15.14				
	Unnamed Spring #3 (Egan Range)		1	436 437	Spring Spring	-110.0 -110.2	-15.14 -15.07				
	Unnamed Spring #3 (Egan Range) Unnamed Spring #4 (Egan Range)		1 1	436 437 438	Spring Spring Spring	-110.0 -110.2 -114.0	-15.14 -15.07 -15.37				
NE	Unnamed Spring #3 (Egan Range) Unnamed Spring #4 (Egan Range) Unnamed Spring #5 (Egan Range)		1 1 1	436 437 438 445	Spring Spring Spring Spring	-110.0 -110.2 -114.0 -109.6	-15.14 -15.07 -15.37 -14.72				
NE NE	Unnamed Spring #3 (Egan Range) Unnamed Spring #4 (Egan Range) Unnamed Spring #5 (Egan Range) North Spring		1 1 1 2	436 437 438 445 237	Spring Spring Spring Spring Spring	-110.0 -110.2 -114.0 -109.6 -112.4	-15.14 -15.07 -15.37 -14.72 -15.11				
NE NE NE	Unnamed Spring #3 (Egan Range) Unnamed Spring #4 (Egan Range) Unnamed Spring #5 (Egan Range) North Spring Second Sawmill Spring		1 1 1 2 1	436 437 438 445 237 222	Spring Spring Spring Spring Spring Spring	-110.0 -110.2 -114.0 -109.6 -112.4 -110.0	-15.14 -15.07 -15.37 -14.72 -15.11 -14.70				
NE NE	Unnamed Spring #3 (Egan Range) Unnamed Spring #4 (Egan Range) Unnamed Spring #5 (Egan Range) North Spring Second Sawmill Spring South Spring (Egan)		1 1 1 2	436 437 438 445 237	Spring Spring Spring Spring Spring Spring Spring	-110.0 -110.2 -114.0 -109.6 -112.4 -110.0 -111.5	-15.14 -15.07 -15.37 -14.72 -15.11 -14.70 -15.12				
NE NE NE NE NE	Unnamed Spring #3 (Egan Range) Unnamed Spring #4 (Egan Range) Unnamed Spring #5 (Egan Range) North Spring Second Sawmill Spring		1 1 1 2 1 2	436 437 438 445 237 222 236 270	Spring Spring Spring Spring Spring Spring Spring Spring	-110.0 -110.2 -114.0 -109.6 -112.4 -110.0 -111.5 -114.0	-15.14 -15.07 -15.37 -14.72 -15.11 -14.70				
NE NE NE NE	Unnamed Spring #3 (Egan Range) Unnamed Spring #4 (Egan Range) Unnamed Spring #5 (Egan Range) North Spring Second Sawmill Spring South Spring (Egan) Upper Terrace Spring WR2		1 1 2 1 2 14	436 437 438 445 237 222 236	Spring Spring Spring Spring Spring Spring Spring	-110.0 -110.2 -114.0 -109.6 -112.4 -110.0 -111.5	-15.14 -15.07 -15.37 -14.72 -15.11 -14.70 -15.12 -15.42 -15.60	_ocal Valle	ey sprina	not include	d in recharge calculatic
NE NE NE NE NE NE	Unnamed Spring #3 (Egan Range) Unnamed Spring #4 (Egan Range) Unnamed Spring #5 (Egan Range) North Spring Second Sawmill Spring South Spring (Egan) Upper Terrace Spring WR2 Water Canyon Spring		1 1 2 1 2 14 1	436 437 438 445 237 222 236 270 358	Spring Spring Spring Spring Spring Spring Spring Spring Spring	-110.0 -110.2 -114.0 -109.6 -112.4 -110.0 -111.5 -114.0 -114.4	-15.14 -15.07 -15.37 -14.72 -15.11 -14.70 -15.12 -15.42 -15.60 -15.40				d in recharge calculatic recharge average
NE NE NE NE NE NE	Unnamed Spring #3 (Egan Range) Unnamed Spring #4 (Egan Range) Unnamed Spring #5 (Egan Range) North Spring Second Sawmill Spring South Spring (Egan) Upper Terrace Spring WR2 Water Canyon Spring Lund Spring		1 1 2 1 2 14 1 1	436 437 438 445 237 222 236 270 358 221	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-110.0 -110.2 -114.0 -109.6 -112.4 -110.0 -111.5 -114.0 -114.4 -113.0	-15.14 -15.07 -15.37 -14.72 -15.11 -14.70 -15.12 -15.42 -15.60 -15.40				
NE NE NE NE NE NE NE NE	Unnamed Spring #3 (Egan Range) Unnamed Spring #4 (Egan Range) Unnamed Spring #5 (Egan Range) North Spring Second Sawmill Spring South Spring (Egan) Upper Terrace Spring WR2 Water Canyon Spring Lund Spring Water Canyon		1 1 2 1 2 14 1 1	436 437 438 445 237 222 236 270 358 221 233	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Surface	-110.0 -110.2 -114.0 -109.6 -112.4 -110.0 -111.5 -114.0 -114.4 -113.0 -116.0	-15.14 -15.07 -15.37 -14.72 -15.11 -14.70 -15.12 -15.42 -15.60 -15.40 L -15.25 S				
NE NE NE NE NE NE NE NW	Unnamed Spring #3 (Egan Range) Unnamed Spring #4 (Egan Range) Unnamed Spring #5 (Egan Range) North Spring Second Sawmill Spring South Spring (Egan) Upper Terrace Spring WR2 Water Canyon Spring Utand Spring Water Canyon Big Tom Plain Spring		1 1 2 1 2 14 1 1 2 1	436 437 438 445 237 222 236 270 358 221 233 326	Spring Spring Spring Spring Spring Spring Spring Spring Surface Spring	-110.0 -110.2 -114.0 -109.6 -112.4 -110.0 -111.5 -114.0 -114.4 -113.0 -114.4 -113.0 -116.0 -121.1 -119.3 -114.8	-15.14 -15.07 -15.37 -14.72 -15.11 -14.70 -15.12 -15.42 -15.60 -15.40 L -15.25 -15.92				
NE NE NE NE NE NE NE NW	Unnamed Spring #3 (Egan Range) Unnamed Spring #4 (Egan Range) Unnamed Spring #5 (Egan Range) North Spring Second Sawmill Spring South Spring (Egan) Upper Terrace Spring WR2 Water Canyon Spring Lund Spring Water Canyon Big Tom Plain Spring Deer Spring (White Pine)		1 1 2 1 2 14 1 1 2 1 2	436 437 438 445 237 222 236 270 358 221 233 326 322	Spring Spring Spring Spring Spring Spring Spring Spring Surface Spring Spring	-110.0 -110.2 -114.0 -109.6 -112.4 -110.0 -111.5 -114.0 -114.4 -113.0 -116.0 -121.1 -119.3	-15.14 -15.07 -15.37 -14.72 -15.11 -14.70 -15.12 -15.42 -15.60 -15.40 15.25 \$ -15.92 -15.87				
NE NE NE NE NE NE NE NW NW	Unnamed Spring #3 (Egan Range) Unnamed Spring #4 (Egan Range) Unnamed Spring #5 (Egan Range) North Spring Second Sawmill Spring South Spring (Egan) Upper Terrace Spring WR2 Water Canyon Spring Lund Spring Water Canyon Big Tom Plain Spring Deer Spring (White Pine) Unnamed Spring #1 (White Pine)		1 1 2 1 2 14 1 1 2 1 2	436 437 438 445 237 222 236 270 358 221 233 326 322 359	Spring Spring Spring Spring Spring Spring Spring Spring Surface Spring Spring Spring	-110.0 -110.2 -114.0 -109.6 -112.4 -110.0 -111.5 -114.0 -114.4 -113.0 -114.4 -113.0 -116.0 -121.1 -119.3 -114.8	-15.14 -15.07 -15.37 -14.72 -15.11 -14.70 -15.12 -15.42 -15.60 -15.40 L -15.25 S -15.92 -15.87 -15.36				
NE NE NE NE NE NE NW NW	Unnamed Spring #3 (Egan Range) Unnamed Spring #4 (Egan Range) Unnamed Spring #5 (Egan Range) North Spring Second Sawmill Spring South Spring (Egan) Upper Terrace Spring WR2 Water Canyon Spring Lund Spring Water Canyon Big Tom Plain Spring Deer Spring (White Pine) Unnamed Spring #1 (White Pine) Unnamed Spring #3 (White Pine) Unnamed Spring #3 (White Pine)		1 1 2 1 2 14 1 1 2 1 2	436 437 438 445 237 222 236 270 358 221 233 326 322 359 360	Spring Spring Spring Spring Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring Spring	-110.0 -110.2 -114.0 -109.6 -112.4 -110.0 -111.5 -114.0 -114.4 -113.0 -114.4 -113.0 -121.1 -119.3 -114.8 -114.9	-15.14 -15.07 -15.37 -14.72 -15.11 -14.70 -15.12 -15.42 -15.60 -15.42 -15.92 -15.92 -15.92 -15.36 -15.36 -15.66				
NE NE NE NE NE NE NW NW NW NW NW	Unnamed Spring #3 (Egan Range) Unnamed Spring #4 (Egan Range) Unnamed Spring #5 (Egan Range) North Spring Second Sawmill Spring South Spring (Egan) Upper Terrace Spring WR2 Water Canyon Spring Lund Spring Big Tom Plain Spring Deer Spring (White Pine) Unnamed Spring #1 (White Pine) Unnamed Spring #3 (White Pine) Unnamed Spring #3 (White Pine) Unnamed Spring #3 (White Pine) Unnamed Spring #5 (White Pine)		1 1 2 1 2 14 1 2 1 2 1 1 1	436 437 438 445 237 222 236 270 358 221 233 326 322 359 360 361 362 363	Spring Spring Spring Spring Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring Spring Spring	-110.0 -110.2 -114.0 -109.6 -112.4 -110.0 -111.5 -114.0 -111.5 -114.0 -111.0 -111.0 -116.0 -121.1 -119.3 -114.8 -114.9 -113.1 -116.3 -116.0	-15.14 -15.07 -15.37 -14.72 -15.11 -14.70 -15.12 -15.42 -15.42 -15.40 -15.40 -15.40 -15.25 -15.92 -15.87 -15.36 -14.96 -14.96 -15.01 -15.36				
NE NE NE NE NE NW NW NW NW NW NW NW	Unnamed Spring #3 (Egan Range) Unnamed Spring #4 (Egan Range) Unnamed Spring #5 (Egan Range) North Spring Second Sawmill Spring South Spring (Egan) Upper Terrace Spring WR2 Water Canyon Spring Lund Spring Water Canyon Big Tom Plain Spring Deer Spring (White Pine) Unnamed Spring #1 (White Pine) Unnamed Spring #2 (White Pine) Unnamed Spring #4 (White Pine) Unnamed Spring #4 (White Pine) Unnamed Spring #4 (White Pine) Unnamed Spring #6 (White Pine)		1 1 2 1 2 14 1 2 1 2 1 1 1 3 1	436 437 438 445 237 222 236 270 358 221 233 326 322 359 360 361 362 363 364	Spring Spring Spring Spring Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring	-110.0 -110.2 -114.0 -102.4 -112.4 -112.4 -114.0 -111.5 -114.0 -114.4 -114.0 -115.1 -116.0 -115.1	-15.14 -15.07 -15.37 -14.72 -15.11 -14.70 -15.12 -15.42 -15.42 -15.42 -15.52 -15.52 -15.52 -15.66 -14.96 -15.01 -15.36 -14.98				
NE NE NE NE NE NE NW NW NW NW NW NW NW NW	Unnamed Spring #3 (Egan Range) Unnamed Spring #4 (Egan Range) Unnamed Spring #5 (Egan Range) North Spring Second Sawmill Spring South Spring (Egan) Upper Terrace Spring WR2 Water Canyon Spring Lund Spring Water Canyon Big Tom Plain Spring Deer Spring (White Pine) Unnamed Spring #1 (White Pine) Unnamed Spring #2 (White Pine) Unnamed Spring #3 (White Pine) Unnamed Spring #5 (White Pine) Unnamed Spring #5 (White Pine) Unnamed Spring #5 (White Pine)		1 1 2 14 1 2 14 1 2 1 1 1 3 1 2	436 437 438 445 237 222 236 270 358 221 233 326 322 359 360 361 362 363 364 429	Spring Spring Spring Spring Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-110.0 -110.2 -114.0 -109.4 -112.4 -110.0 -111.5 -114.0 -111.5 -114.0 -114.4 -113.0 -114.4 -113.0 -121.1 -119.3 -114.8 -114.9 -113.1 -116.3 -116.3 -115.1 -108.7	-15.14 -15.07 -15.37 -14.72 -15.11 -14.70 -15.12 -15.42 -15.42 -15.40 -15.40 -15.25 -15.87 -15.36 -15.36 -15.36 -15.36 -14.98 -14.98 -13.52				
NE NE NE NE NE NW NW NW NW NW NW NW	Unnamed Spring #3 (Egan Range) Unnamed Spring #4 (Egan Range) Unnamed Spring #5 (Egan Range) North Spring Second Sawmill Spring South Spring (Egan) Upper Terrace Spring WR2 Water Canyon Spring Lund Spring Water Canyon Big Tom Plain Spring Deer Spring (White Pine) Unnamed Spring #1 (White Pine) Unnamed Spring #2 (White Pine) Unnamed Spring #4 (White Pine) Unnamed Spring #4 (White Pine) Unnamed Spring #4 (White Pine) Unnamed Spring #6 (White Pine)		1 1 2 1 2 14 1 2 1 2 1 1 1 3 1	436 437 438 445 237 222 236 270 358 221 233 326 322 359 360 361 362 363 364	Spring Spring Spring Spring Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-110.0 -110.2 -114.0 -102.4 -112.4 -112.4 -114.0 -111.5 -114.0 -114.4 -114.0 -115.1 -116.0 -115.1	-15.14 -15.07 -15.37 -14.72 -15.11 -14.70 -15.12 -15.42 -15.42 -15.42 -15.52 -15.52 -15.52 -15.66 -14.96 -15.01 -15.36 -14.98				

Region	Name	Volume	# of	Site#	Site	Obs. δD	Obs.	Calc. δD	Calc.	IC	
NW	Monitoring Spring WR1	Arce-ft/yr	Samples	320	Type Spring	עס -113.7	δ18O -15.58	00	δ18Ο		
NW	Saddle Spring (White Pine)		3	357	Spring	-116.8	-15.45				
NW	Secret Spring		1	220	Spring	-110.0	-14.00				
NW	Unnamed Spring below Currant Mtn		1	226	Spring	-107.0	-14.00				
NW	Stove Spring		1	347	Spring	-114.5	-15.71				
	ned Spring in dry creek bed (White Pine F		1	321	Spring	-113.6	-15.31	0	- 4 4 ! 1	and and the second	
NW NW	Snowmelt Below Duckwater Peak Little Currant Creek	5,700	1 1	224 217	Surface Surface	-105.0 -113.0					harge average harge average
Warm	Cold Spring, Preston	1,000	2	230	Spring	-123.5	-15.80	Sunace wa			and ge average
Warm	Nicholas Spring	2,000	1	227	Spring	-124.0	-16.10				
Warm	Preston Big Spring	5,900	11	231	Spring	-122.0	-15.88				
Warm	Discharge Warm Sprs (Avg)	8,900	14			-122.6	-15.92			er-basi <mark>n f</mark> l	<mark>ow</mark> from Jakes Valley
ET	ET	29,500						-117.6	-15.53		
207S	GW Outflow (SWRV)	31,000						-117.6	-15.53		
XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXX	XXXXXXXX	XXXXX	XXXXXXXXX	XXXXXXX	XXXXX	XXXXXX X	XXXXX XX	XXXXX	
207S	South White River Valley	WRV Tot Re 42,900	charge								
207N	Inflow (N White River)	31,000				-117.6	-15.53				
180	Inflow (Cave)	4,000				-106.5	-14.28				
207 SE	Egan Rng South	7,844				-106.9	-14.15			41	
207 SW	Grant Rng	6,467				-106.5	-14.23			42	
TR	Total Recharge	14,300			. .	-106.7	-14.18				
E	Chimney Rock Spring		2 1	219 440	Spring Spring	-110.5 -103.4	-14.52 -13.32				
E	Granite Spring Haggerty Spring		1	440 387	Spring	-103.4	-13.32				
E	Silver Spring		2	385	Spring	-111.4	-14.71				
E	Big Spring (Egan)		4	206	Spring	-105.5	-13.90				
E	Shingle Spring		2	203	Spring	-103.7	-13.33				
E	Perry Sp Barcass 37		1	408	Spring	-107.7	-15.04				
E	Trough Spring	4 000	1	413	Spring	-103.6	-13.56	1 1) / - 11 -		Concellentia at 1	
E	Butterfield Spring Emigrant Spring	4,000 1,900	1 2	202 207	Spring Spring	-105.0 -107.8					n recharge calculation n recharge calculation
E	Flag Spring #3	1,300	1	201	Spring	-107.0					recharge calculation
SW	Albert Spring		1	204	Spring	-107.0	-13.95		5 1 5 1		
SW	Big Spring (Grant)		1	194	Spring	-112.0	-15.20				
SW	Brady Spring		2	282	Spring	-109.5	-15.38				
SW	Forest Home Spring (Unnamed Spring)		1	195	Spring	-108.5	-14.50				
SW SW	Horse Spring (Grant) Teaspoon Spring		1	370 371	Spring Spring	-99.5 -100.0	-12.86 -13.26				
SW	Wiregrass Spring (Grant)		1	372	Spring	-100.0	-13.20				
SW	Murphy Spring		1	373	Spring	-114.5	-15.40				
SW	Little Spring (Grant Range)		1	369	Spring	-99.4	-12.48	Evaporated	d so not use	d in rec <mark>har</mark>	ge calculation
Warm	Hot Creek Campground Well	0	1	198	Well	-118.0	-15.30				
Warm	Hot Creek Springs	10,000	10	197	Spring	-118.9	-15.69				
Warm Warm	Moon River Spring	2,800	1 1	192	Spring	-120.0	-15.80				
Warm	Moorman Spring Discharge Warm Sprs (Avg)	400 13,200	13	205	Spring	-119.0 -119.2	-15.70 -15.71	-117.6	-15 53 Int	er-hasi <mark>n f</mark> l	ow from Northern White River Valley
ET	ET	47,200	10			113.2	-10.11	-113.6	-15.04	ci-busin n	
208	GW Outflow (Pahroc)	2,100						-113.6	-15.04		
xxxxxxx		XXXXXXXX	xxxxxxx	xxxxx	XXXXXXXXX		xxxxx	XXXXXX X	XXXXXX XXX	xxxxx	
172	Garden Valley										
0	Inflow (None)	0				0.0	0.00				
SW	Quinn Canyon Range	15,621				-104.6	-14.08			171	
172 NW	Grant Range	7,993				-106.5	-14.27			170	
172 NE	Golden Gate Rng	1,063				-98.0	-13.30			55	
172 SE	Worthington Mountains	1,030				-98.0	-13.30			56	

	on Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O	IC		
TR	Total Recharge	25,700				-104.7	-14.08					
SW	Unnamed Spring #7 (Quinn)		1	367	Spring	-105.9	-14.23					
SW	Unnamed Spring #8 (Quinn)		1	368	Spring	-104.4	-14.18					
SW	Adaven Spring		2	177	Spring	-105.3	-14.01					
SW	Lower Little Cherry Cr Spring		1	182	Spring	-103.0	-13.90					
SW	Carpenter Spring		1	171	Spring	-95.0	-11.85	Evaporated	l so not u	sed in rec	charge	calculation
NW	Big Spring (Grant)		1	194	Spring	-112.0	-15.20					
NW	Brady Spring		2	282	Spring	-109.5	-15.38					
NW	Forest Home Spring (Unnamed Spring)		1	195	Spring	-108.5	-14.50					
NW	Horse Spring (Grant)		1	370	Spring	-99.5	-12.86					
NW	Teaspoon Spring		1	371	Spring	-100.0	-13.26					
NW	Wiregrass Spring (Grant)		1	372	Spring	-101.4	-13.29					
NW	Murphy Spring		1	373	Spring	-114.5	-15.40					
NW	Little Spring (Grant Range)		1	369	Spring	-99.4		Evaporated	l so not u	sed in rec	charge	calculation
SE	The Seeps (Spring)		1	136	Spring	-98.0	-13.30					
ET	ET	1,700						-104.7	-14.08			
171	GW Outflow (Coal)	24,000						-104.7	-14.08			
XXXX	XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXX	XXXXXXXX	ххххх		XXXXXX	XXXXXX	XXXXXX X	XXXXX	XXXXXX		
171	Coal Valley											
172	Inflow (Garden)	24,000				-104.7	-14.08					
172	Inflow (Surden)	24,000				-104.7	-14.08					
172 171 E		1,282				-113.0	-13.13			75		
171 E	0	2,882				-99.0 -98.2	-13.13			75		
TR	Total Recharge						-12.87 -12.95			10		
N	Cold Spring	4,200	1	288	Spring	-98.4 -98.9	-12.95 -12.98					
N N	Henry Spring		1	288 287	Spring	-98.9 -97.4	-12.98					
N N	, i o				Spring							
	Little Cut Spring		2 1	286 306	Spring	-98.3	-12.85					
E ET	Seaman Spring ET	0	1	300	Spring	-99.0	-13.13	-103.7	-13.91			
		U		470				-103.7 -104.7		Indorflo		Garden Valle
	Well USGS-MX C V Well (CV-DT-1)		2	1/6	Well	-109 0	-14 56				w trom	
	Well USGS-MX C.V. Well (CV-DT-1) GW Outflow (Pahroc)	28.200	2	176	Well	-109.0	-14.56			maernov	w trom	
	Well USGS-MX C.V. Well (CV-DT-1) GW Outflow (Pahroc)	28,200	2	176	weii	-109.0	-14.56	-103.7	-13.91	maernov	w trom	
208								-103.7	-13.91			
08 XXX	GW Outflow (Pahroc)							-103.7	-13.91			
208 XXXX 208	GW Outflow (Pahroc)	XXXXXXXXX				(XXXXX)	xxxxxx	-103.7	-13.91			
208 XXXX 208 207S	GW Outflow (Pahroc)	2,100				•-113.6	-15.04	-103.7	-13.91			
208 XXXX 208 207S 180	GW Outflow (Pahroc) XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2,100 9,800				-113.6 - 106.5	-15.04 -14.28	-103.7	-13.91			
208 XXXX 208 207S 180 171	GW Outflow (Pahroc) XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2,100 9,800 28,200				-113.6 -106.5 -103.7	-15.04 -14.28 -13.91	-103.7	-13.91	xxxxx		
208 XXXX 208 207S 180 171 208 E	GW Outflow (Pahroc) XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2,100 9,800 28,200 2,596				-113.6 -106.5 -103.7 -94.2	-15.04 -14.28 -13.91 -12.42	-103.7	-13.91			
208 XXXX 208 207S 180 171 208 E 208 V	GW Outflow (Pahroc) XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2,100 9,800 28,200 2,596 2,286				-113.6 -106.5 -103.7 -94.2 -99.0	-15.04 -14.28 -13.91 -12.42 -13.13	-103.7	-13.91	XXXXXX 73		
208 XXXX 208 207S 180 171 208 E 208 W TR	GW Outflow (Pahroc) XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2,100 9,800 28,200 2,596	****	XXXXXX	XXXXXXXXXX	-113.6 -106.5 -103.7 -94.2 -99.0 -96.4	-15.04 -14.28 -13.91 -12.42 -13.13 -12.75	-103.7	-13.91	XXXXXX 73		
208 XXXX 208 207S 180 171 208 E 208 W TR	GW Outflow (Pahroc) XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2,100 9,800 28,200 2,596 2,286	2	XXXXXXX 158	Spring	-113.6 -106.5 -103.7 -94.2 -99.0 -96.4 -93.8	-15.04 -14.28 -13.91 -12.42 -13.13 -12.75 -12.31	-103.7	-13.91	XXXXXX 73		
208 XXXX 208 207S 180 171 208 E 208 W TR	GW Outflow (Pahroc) XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2,100 9,800 28,200 2,596 2,286	2 2	XXXXXX 158 169	Spring Spring	-113.6 -106.5 -103.7 -94.2 -99.0 -96.4 -93.8 -95.1	-15.04 -14.28 -13.91 -12.42 -13.13 -12.42 -13.13 -12.75 -12.31 -12.53	-103.7	-13.91	XXXXXX 73		
208 XXXX 208 207S 180 171 208 E 208 W TR	GW Outflow (Pahroc) XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2,100 9,800 28,200 2,596 2,286	2	158 169 298	Spring Spring Spring	-113.6 -106.5 -103.7 -94.2 -99.0 -96.4 -93.8 -95.1 -93.1	-15.04 -14.28 -13.91 -12.42 -13.13 -12.75 -12.31 -12.53 -11.76	-103.7	-13.91	XXXXXX 73		
208 XXXX 208 207S 180 171 208 E 208 W TR E E E E E	GW Outflow (Pahroc) XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2,100 9,800 28,200 2,596 2,286	2 2 1 1	158 169 298 301	Spring Spring Spring Spring Spring	-113.6 -106.5 -103.7 -94.2 -99.0 -96.4 -93.8 -95.1 -93.1 -97.2	-15.04 -14.28 -13.91 -12.42 -13.13 -12.75 -12.31 -12.53 -11.76 -13.06	-103.7	-13.91	XXXXXX 73		
208 XXXX 208 207S 180 171 208 E 208 W TR E E E E E E E E	GW Outflow (Pahroc) XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2,100 9,800 28,200 2,596 2,286	2 2 1	158 169 298 301 135	Spring Spring Spring Spring Spring Spring Spring	-113.6 -106.5 -103.7 -94.2 -99.0 -96.4 -93.8 -95.1 -93.1 -97.2 -90.5	-15.04 -14.28 -13.91 -12.42 -13.13 -12.75 -12.31 -12.53 -11.76 -13.06 -12.49	-103.7	-13.91	XXXXXX 73		
208 XXXX 208 207S 180 171 208 E 208 W TR E E E E E E E	GW Outflow (Pahroc) XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2,100 9,800 28,200 2,596 2,286	2 2 1 1	158 169 298 301 135 131	Spring Spring Spring Spring Spring Spring Spring Spring	-113.6 -106.5 -106.7 -94.2 -99.0 -96.4 -93.8 -95.1 -93.1 -97.2 -90.5 -92.2	-15.04 -14.28 -13.91 -12.42 -13.13 -12.45 -12.31 -12.53 -11.76 -13.06 -12.49 -12.65	-103.7	-13.91	XXXXXX 73		
208 XXXX 208 207S 180 171 208 E 208 W TR E E E E E E E	GW Outflow (Pahroc) XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2,100 9,800 28,200 2,596 2,286	2 2 1 1	158 169 298 301 135 131 302	Spring Spring Spring Spring Spring Spring Spring Spring Spring	-113.6 -106.5 -103.7 -94.2 -99.0 -96.4 -93.8 -95.1 -93.1 -93.1 -97.2 -90.5 -92.2 -97.3	-15.04 -14.28 -13.91 -12.42 -13.13 -12.75 -12.31 -12.53 -11.76 -13.00 -12.49 -12.65 -12.65	-103.7	-13.91	XXXXXX 73		
208 XXXXX 208 207S 180 171 208 E 208 V TR E E E E E E E E E E E E E E E E E E	GW Outflow (Pahroc) XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2,100 9,800 28,200 2,596 2,286	2 2 1 1	158 169 298 301 135 131 302 299	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-113.6 -106.5 -103.7 -94.2 -99.0 -96.4 -93.8 -95.1 -93.1 -93.1 -97.2 -90.5 -92.2 -92.2 -97.3 -94.3	-15.04 -14.28 -13.91 -12.42 -13.13 -12.75 -12.31 -12.53 -11.76 -13.06 -12.49 -12.65 -12.65 -11.90	-103.7	-13.91	XXXXXX 73		
208 XXXX 208 207S 171 208 E 208 W TR E E E E E E E E E E E E W	GW Outflow (Pahroc) XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2,100 9,800 28,200 2,596 2,286	2 2 1 1 2 3 1 1 1 1	158 169 298 301 135 131 302 299 306	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-113.6 -106.5 -103.7 -94.2 -99.0 -96.4 -93.8 -95.1 -93.1 -97.2 -90.5 -92.2 -97.3 -94.3 -99.0	-15.04 -14.28 -13.91 -12.42 -13.13 -12.75 -12.31 -12.75 -13.06 -12.49 -12.65 -12.65 -12.65 -12.65 -11.90 -13.13	-103.7 XXXXXX X	-13.91 XXXXX	XXXXXX 73 74		
208 XXXX 207S 180 171 208 E E E E E E E E E E E E E E E E E E E	GW Outflow (Pahroc) XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2,100 9,800 28,200 2,596 2,286 4,900	2 2 1 1	158 169 298 301 135 131 302 299	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-113.6 -106.5 -103.7 -94.2 -99.0 -96.4 -93.8 -95.1 -93.1 -93.1 -97.2 -90.5 -92.2 -92.2 -97.3 -94.3	-15.04 -14.28 -13.91 -12.42 -13.13 -12.75 -12.31 -12.75 -13.06 -12.49 -12.65 -12.65 -12.65 -12.65 -11.90 -13.13	-103.7 XXXXXX X	-13.91 XXXXXX	XXXXXX 73 74		
208 XXXX 208 207S 180 171 208 E 208 V TR E E E E E E E E E E E E E	GW Outflow (Pahroc) XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2,100 9,800 28,200 2,596 2,286 4,900	2 2 1 1 2 3 1 1 1 1	158 169 298 301 135 131 302 299 306	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-113.6 -106.5 -103.7 -94.2 -99.0 -96.4 -93.8 -95.1 -93.1 -97.2 -90.5 -92.2 -97.3 -94.3 -99.0	-15.04 -14.28 -13.91 -12.42 -13.13 -12.75 -12.31 -12.75 -13.06 -12.49 -12.65 -12.65 -12.65 -12.65 -11.90 -13.13	-103.7 XXXXXXX X Evaporated -104.0	-13.91 XXXXX A not used -13.92	XXXXXX 73 74		
208 XXXXX 208 207S 180 171 208 E 208 V TR E E E E E E E E E E W V Evapo	GW Outflow (Pahroc) XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2,100 9,800 28,200 2,596 2,286 4,900	2 2 1 1 2 3 1 1 1 1	158 169 298 301 135 131 302 299 306	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-113.6 -106.5 -103.7 -94.2 -99.0 -96.4 -93.8 -95.1 -93.1 -97.2 -90.5 -92.2 -97.3 -94.3 -99.0	-15.04 -14.28 -13.91 -12.42 -13.13 -12.75 -12.31 -12.75 -13.06 -12.49 -12.65 -12.65 -12.65 -12.65 -11.90 -13.13	-103.7 XXXXXX X Evaporated -104.0 -104.0	-13.91 XXXXXX	XXXXXX 73 74		
208 XXXX 208 207S 180 171 208 E 208 W TR E E E E E E E E E E E E E E E E E E	GW Outflow (Pahroc) XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2,100 9,800 28,200 2,596 2,286 4,900 4,900 43,000 2,000	2 2 1 1 2 3 1 1 1 1 1	158 169 298 301 135 131 302 299 306 154	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-113.6 -106.5 -103.7 -94.2 -99.0 -96.4 -93.8 -95.1 -93.1 -97.2 -90.5 -92.2 -97.3 -94.3 -99.0 -90.0	-15.04 -14.28 -13.91 -12.42 -13.13 -12.75 -12.31 -12.53 -11.76 -13.06 -12.49 -12.65 -12.65 -12.65 -11.90 -13.13 -12.10	-103.7 XXXXXX X Evaporated -104.0 -104.0 -106.5	-13.91 XXXXX xxxxx 1 not used -13.92 -13.92 -13.92 -14.28	73 74 in recha	l	
208 XXXXX 208 207S 180 171 208 EV E E E E E E E E E E E E E E E E E E	GW Outflow (Pahroc) XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2,100 9,800 28,200 2,596 2,286 4,900 4,900 43,000 2,000	2 2 1 1 2 3 1 1 1 1 1	158 169 298 301 135 131 302 299 306 154	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-113.6 -106.5 -103.7 -94.2 -99.0 -96.4 -93.8 -95.1 -93.1 -97.2 -90.5 -92.2 -97.3 -94.3 -99.0 -90.0	-15.04 -14.28 -13.91 -12.42 -13.13 -12.75 -12.31 -12.53 -11.76 -13.06 -12.49 -12.65 -12.65 -12.65 -11.90 -13.13 -12.10	-103.7 XXXXXX X Evaporated -104.0 -104.0 -106.5	-13.91 XXXXX xxxxx 1 not used -13.92 -13.92 -13.92 -14.28	73 74 in recha	l	

Reg	jion Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O	ю	
209	Pahranagat Valley		•								
208	Inflow (Pahroc)	43,000				-104.0	-13.92				
181	Inflow (Dry Lake)	0				-99.0	-13.12				
209	Inflow (Delamar)	0				-97.3	-12.93				
209	E S. Pahroc Rng.	2,377				-94.9	-12.83			77, 78	3
209	W Mt. Irish/Pahranagat Rng.	3,545				-98.4	-14.24		79, 80	(172, 173)
TR	Total Recharge	5,900				-97.0	-13.67				
E E E E E	Eightmile Spring		2	295	Spring	-95.6	-13.09				
E	Gulch Spring(Unnamed Spring in Hells A	Acres Gulch)	1	109	Spring	-93.0	-12.30				
E	Sixmile Spring		1	112	Spring	-93.4	-13.06				
E	Twin Spring		1	294	Spring	-97.4	-13.24				
E	named Spring in Road(South Pahroc Rar	nge)	1 1	303	Spring	-96.7	-13.07				
5	Unnamed Spring nr Six Mile seep Water Tank 0.4mi West of Sixmile		1	296 297	Spring	-94.5 -93.8	-12.62 -12.44				
S	Maynard Lake Spring (Unnamed Spring)		1	94	Spring Spring	-94.0				not includ	led in recharge calculation
W	Reed Spring	,	1	289	Spring	-94.0 -98.4	-14.24		ey spring		ed in recharge calculation
War		12400	6	110	Spring	-109.1	-14.11				
War		500	1	111	Spring	-107.2	-14.20				
War		8,200	17	116	Spring	-108.8	-14.41				
War	, i o	4,300	7	122	Spring	-108.7	-14.39				
Wai	1 0	25,400	31		-19	-108.9	-14.26	-104.0	-13.92	Inter-bas	si <mark>n flow</mark> from Pahroc Valley
ET	ET	28,500						-103.2	-13.89		
Wel	II 209M-1		1	608	Deep Well	-104.7	-13.53	-104.0	-13.92	Inter-bas	si <mark>n flow</mark> from Pahroc Valley
210	GW Outflow (Coyote Spr)	20,400						-103.2	-13.89		
XXX	****	XXXXXXXXX	*****	XXXXX)	KXXXXXXXXXXX	XXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	K
181	Dry Lake Valley										
180	Inflow (Pahroc)	2,000				-106.5	-14.28				
181	NW S. Schell Ck Range	1,307				-100.4	-13.21			59	
181 181	NWS. Schell Ck RangeSWN. Pahroc Rng.	1,307 2,081				-100.4 -94.2	-13.21 -12.42			5	7
181 181 181	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng.	1,307 2,081 3,709				-100.4 -94.2 -99.5	-13.21 -12.42 -12.89			57 58	7 3
181 181 181 181 181	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng.	1,307 2,081 3,709 7,895				-100.4 -94.2 -99.5 -98.9	-13.21 -12.42 -12.89 -13.28			57 58 61	7 3 1
181 181 181 181 181 181	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng.	1,307 2,081 3,709 7,895 1,696				-100.4 -94.2 -99.5 -98.9 -94.6	-13.21 -12.42 -12.89 -13.28 -12.36			57 58	7 3 1
181 181 181 181 181 181 TR	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge	1,307 2,081 3,709 7,895	2	162	Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.1	-13.21 -12.42 -12.89 -13.28 -12.36 -12.98			57 58 61	7 3 1
181 181 181 181 181 181 TR	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland)	1,307 2,081 3,709 7,895 1,696	2	162	Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.1 -95.0	-13.21 -12.42 -12.89 -13.28 -12.36 -12.98 -12.07			57 58 61	7 3 1
181 181 181 181 181 181 TR	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring	1,307 2,081 3,709 7,895 1,696	3	163	Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.1 -95.0 -99.1	-13.21 -12.42 -12.89 -13.28 -12.36 -12.98 -12.07 -13.36			57 58 61	7 3 1
181 181 181 181 181 181 TR	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring	1,307 2,081 3,709 7,895 1,696	3 2	163 160	Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.1 -95.0 -99.1 -98.5	-13.21 -12.42 -12.89 -13.28 -12.36 -12.98 -12.07 -13.36 -13.16			57 58 61	7 3 1
181 181 181 181 181 TR E E E E E	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring	1,307 2,081 3,709 7,895 1,696	3 2 2	163 160 157	Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.1 -95.0 -99.1 -98.5 -99.0	-13.21 -12.42 -12.89 -13.28 -12.36 -12.98 -12.07 -13.36 -13.16 -13.37			57 58 61	7 3 1
181 181 181 181 181 181 TR E E E E E	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Connor Spring	1,307 2,081 3,709 7,895 1,696	3 2 2 1	163 160 157 283	Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.1 -95.0 -99.1 -98.5 -99.0 -100.6	-13.21 -12.42 -12.89 -13.28 -12.36 -12.98 -12.07 -13.36 -13.16 -13.37 -13.84			57 58 61	7 3 1
181 181 181 181 181 TR E E E E E E	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Connor Spring Upper Conner Spring	1,307 2,081 3,709 7,895 1,696	3 2 2	163 160 157	Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.1 -95.0 -99.1 -98.5 -99.0	-13.21 -12.42 -12.89 -13.28 -12.36 -12.98 -12.07 -13.36 -13.16 -13.37			57 58 61	7 3 1
181 181 181 181 181 181 TR E E E E E	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Connor Spring	1,307 2,081 3,709 7,895 1,696	3 2 2 1 2	163 160 157 283 156	Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.1 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2	-13.21 -12.42 -12.89 -13.28 -12.36 -12.98 -12.07 -13.36 -13.16 -13.37 -13.84 -13.87			57 58 61	7 3 1
181 181 181 181 181 TR E E E E E SE SE SE	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Onnor Spring Upper Conner Spring Red Rock Spring Abandoned Spring Buckboard Spring	1,307 2,081 3,709 7,895 1,696	3 2 1 2 1	163 160 157 283 156 256	Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.1 -95.0 -100.6 -101.2 -95.0	-13.21 -12.42 -12.89 -13.28 -12.36 -12.98 -12.07 -13.36 -13.16 -13.37 -13.84 -13.87 -12.30			57 58 61	7 3 1
181 181 181 181 181 E E E E E SE SE SE	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Onnor Spring Upper Conner Spring Red Rock Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar)	1,307 2,081 3,709 7,895 1,696	3 2 1 2 1 1 1 1	163 160 157 283 156 256 266 266 264 265	Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.1 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9	-13.21 -12.42 -12.89 -13.28 -12.36 -12.98 -12.97 -13.36 -13.16 -13.37 -13.84 -13.87 -12.30 -12.32 -11.71 -12.87			57 58 61	7 3 1
181 181 181 181 181 TR E E E E E SE SE SE SE	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Connor Spring Upper Conner Spring Red Rock Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring	1,307 2,081 3,709 7,895 1,696	3 2 1 2 1 1 1 1 1	163 160 157 283 156 256 266 266 264 265 261	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.1 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -98.4	-13.21 -12.42 -12.89 -12.36 -12.36 -12.36 -13.36 -13.36 -13.37 -13.84 -13.87 -12.30 -12.32 -11.71 -12.87 -12.98			57 58 61	7 3 1
181 181 181 181 181 TR E E E E E E E SE SE SE SE SE SE	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Connor Spring Upper Conner Spring Red Rock Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Oak Spring	1,307 2,081 3,709 7,895 1,696	3 2 1 2 1 1 1 1 1 1	163 160 157 283 156 256 266 264 265 261 269	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.1 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.2 -98.4 -98.4 -90.0	-13.21 -12.42 -12.89 -13.28 -12.36 -12.36 -13.36 -13.36 -13.36 -13.37 -13.84 -13.87 -12.30 -12.32 -11.71 -12.88 -11.87			57 58 61	7 3 1
181 181 181 181 181 TR E E E E E E E SE SE SE SE SE SE	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Connor Spring Upper Conner Spring Red Rock Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Oak Spring Unnamed Chokecherry Spring	1,307 2,081 3,709 7,895 1,696	3 2 1 2 1 1 1 1 1	163 160 157 283 156 256 266 264 265 261 269 263	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.1 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -98.4 -90.0 -98.1	-13.21 -12.42 -12.89 -12.36 -12.36 -12.36 -13.16 -13.37 -13.84 -13.87 -12.30 -12.32 -11.71 -12.87 -12.87 -12.54			57 58 61	7 3 1
181 181 181 181 181 TR E E E E E E E SE SE SE SE SE SE SE	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Onnor Spring Upper Conner Spring Red Rock Spring Buckboard Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Oak Spring Unnamed Chokecherry Spring	1,307 2,081 3,709 7,895 1,696 16,700	3 2 2 1 2 1 1 1 1 1 1 1	163 160 157 283 156 256 266 264 265 261 269 263 262	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.1 -95.0 -99.1 -98.5 -99.0 -100.2 -95.0 -94.5 -88.2 -96.9 -94.5 -88.2 -96.9 -98.4 -98.4 -98.9	-13.21 -12.42 -12.89 -13.28 -12.36 -12.07 -13.36 -13.16 -13.37 -13.87 -13.87 -12.30 -12.32 -11.71 -12.87 -12.54 -12.54 -12.96			57 58 61	7 3 1
181 181 181 181 181 TR E E E E E E E E SE SE SE SE SE SE SE SE	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Connor Spring Upper Conner Spring Upper Conner Spring Red Rock Spring Abandoned Spring Euckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Oak Spring Unnamed Chokecherry Spring Upper Chokecherry Spring	1,307 2,081 3,709 7,895 1,696 16,700	3 2 1 2 1 1 1 1 1 1 1 1	163 160 157 283 156 256 266 264 265 261 269 263 262 260	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.1 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -98.4 -90.9 -98.4 -96.9 -98.4 -96.9 -98.4 -96.9 -98.4 -96.9 -98.4 -96.9 -98.4 -96.5 -98.9 -98.5 -98.9 -98.5 -99.5 -90	-13.21 -12.42 -12.89 -13.28 -12.07 -13.36 -13.16 -13.16 -13.37 -13.84 -13.87 -12.30 -12.32 -11.71 -12.87 -12.98 -11.87 -12.98 -11.69			57 58 61	7 3 1
181 181 181 181 181 TR E E E E E E E E SE SE SE SE SE SE SE SE	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Connor Spring Upper Conner Spring Upper Conner Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Oak Spring Unnamed Chokecherry Spring Upper Chokecherry Spring Willow Spring 2 (So. of Oak Sps.summit) Bailey Spring (Fairview)	1,307 2,081 3,709 7,895 1,696 16,700	3 2 1 2 1 1 1 1 1 1 1 2	163 160 157 283 156 256 266 266 264 265 261 269 263 262 260 277	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.1 -95.0 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -98.4 -90.0 -98.1 -98.1 -98.1 -98.1 -98.1 -98.1 -98.1 -98.2	-13.21 -12.42 -12.89 -12.36 -12.36 -13.36 -13.36 -13.37 -13.84 -13.87 -12.30 -12.32 -11.77 -12.87 -12.98 -11.87 -12.54 -12.54 -12.54 -12.69 -12.69			57 58 61	7 3 1
181 181 181 181 181 TR E E E E E E E SE SE SE SE SE SE SE SE S	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Connor Spring Upper Conner Spring Red Rock Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Upper Chokecherry Spring Upper Chokecherry Spring Upper Chokecherry Spring Upper Chokecherry Spring Upper Chokecherry Spring Upper Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Bailey Spring (Fairview) Cottonwood Spring (Fairview)	1,307 2,081 3,709 7,895 1,696 16,700	3 2 1 1 1 1 1 1 1 2 1	163 160 157 283 156 256 266 264 265 261 269 263 262 260 277 274	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.1 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -94.5 -86.2 -96.9 -98.4 -90.0 -98.1 -98.4 -90.0 -98.1 -98.2 -98.2 -98.2 -98.2 -98.2 -98.2 -98.2	-13.21 -12.42 -12.89 -13.28 -12.36 -12.36 -13.36 -13.36 -13.36 -13.36 -13.84 -13.87 -12.30 -12.32 -11.71 -12.87 -12.98 -11.87 -12.98 -11.87 -12.98 -11.87 -12.98 -11.87 -12.54 -12.96 -13.40 -13.40 -13.40 -13.40 -13.40 -13.40 -13.40 -13.40 -13.40 -14.40 -1			57 58 61	7 3 1
181 181 181 181 181 TR E E E E E E E E E SE SE SE SE SE SE SE	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Connor Spring Upper Conner Spring Red Rock Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Upper Chokecherry Spring	1,307 2,081 3,709 7,895 1,696 16,700	3 2 1 2 1 1 1 1 1 1 2 1 1	163 160 157 283 156 256 266 264 265 261 269 263 263 262 260 277 274 275	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.1 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -98.4 -90.0 -98.1 -98.9 -98.4 -98.9 -98.2 -98.9 -98.2 -98.2 -98.2 -98.2 -98.5	-13.21 -12.42 -12.89 -12.36 -12.36 -12.36 -13.36 -13.36 -13.36 -13.36 -13.84 -13.87 -12.30 -12.32 -11.71 -12.87 -12.98 -11.87 -12.54 -12.55 -1			57 58 61	7 3 1
181 181 181 181 181 TR E E E E E E E E SE SE SE SE SE SE SE SE	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Connor Spring Upper Conner Spring Red Rock Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Upper Chokecherry Spring Upper Chokecherry Spring Upper Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Bailey Spring (Fairview) Cottonwood Spring (Fairview) Littlefield Spring Lower Pony Spring	1,307 2,081 3,709 7,895 1,696 16,700	3 2 1 1 1 1 1 1 1 2 1 2	163 160 157 283 156 266 264 265 261 269 263 269 263 260 277 274 275 190	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -98.9 -98.1 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -94.5 -88.2 -96.9 -98.4 -90.0 -98.1 -98.9 -98.2 -102.2 -98.2 -102.2 -98.5 -101.0	-13.21 -12.42 -12.89 -12.36 -12.36 -12.36 -13.16 -13.37 -13.84 -13.87 -13.84 -13.87 -12.30 -12.32 -11.71 -12.87 -12.54 -11.69 -12.54 -13.40 -12.73 -13.25			57 58 61	7 3 1
181 181 181 181 181 TR E E E E E E E E E S E E S E E S E E S E E S E E S E E S E E S E E S E E S E E S E E S S E S S E S E S E S E S S E S E S S E S S E S S E S S E S	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Onnor Spring Upper Conner Spring Red Rock Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Oak Spring Unnamed Chokecherry Spring Upper Chokecherry Spring	1,307 2,081 3,709 7,895 1,696 16,700	3 2 1 2 1 1 1 1 1 1 2 1 2 1 2 1	163 160 157 283 156 256 266 264 265 264 265 263 269 263 262 260 277 274 275 190 276	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.9 -95.0 -99.1 -98.5 -99.0 -100.2 -95.0 -94.5 -88.2 -96.9 -94.5 -88.2 -96.9 -98.4 -98.4 -98.9 -98.2 -98.2 -98.2 -98.5 -98.2 -98.5 -98.9 -98.1 -98.9 -98.1 -98.9 -98.1 -98.9 -98.1 -99.0 -98.1 -98.2 -99.0 -98.1 -98.2 -99.0 -99.	-13.21 -12.42 -12.89 -12.38 -12.36 -12.07 -13.36 -13.16 -13.37 -13.87 -13.87 -12.30 -12.32 -11.71 -12.87 -12.54 -11.69 -12.69 -13.40 -12.55 -12.75			57 58 61	7 3 1
181 181 181 181 181 TR E E E E E E E E E S E E S E E S E E S E E S E E S E E S E E S E E S E E S E E S E E S E E S E E S E E S E E S S E S S E S S E S S E S S E S S E S S E S S E S	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Connor Spring Upper Conner Spring Upper Conner Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Unnamed Chokecherry Spring Upper Chokecherry Spring Upper Chokecherry Spring Upper Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Bailey Spring (Fairview) Cottonwood Spring (Fairview) Littlefield Spring Lower Pony Spring Meloy Spring Scotty Spring	1,307 2,081 3,709 7,895 1,696 16,700	3 2 1 2 1 1 1 1 1 1 2 1 2 1 1 2 1	163 160 157 283 156 256 266 264 265 261 269 263 262 260 277 274 275 190 276 272	Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -98.4 -90.9 -98.4 -98.9 -98.2 -102.2 -98.5 -101.0 -99.8 -99.5	-13.21 -12.42 -12.89 -12.36 -12.36 -13.16 -13.16 -13.16 -13.16 -13.17 -13.84 -13.87 -12.30 -12.32 -11.77 -12.98 -11.87 -12.54 -12.69 -13.40 -12.69 -13.40 -12.73 -12.75 -12.73			57 58 61	7 3 1
181 181 181 181 181 181 181 181 181 181	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Connor Spring Upper Conner Spring Red Rock Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Upper Spring (Fairview) Cottonwood Spring (Fairview) Littlefield Spring Lower Pony Spring Scotty Spring Indian Spring near Steward Ranch	1,307 2,081 3,709 7,895 1,696 16,700	3 2 1 2 1 1 1 1 1 1 2 1 1 2 1 1 2 1 1	163 160 157 283 156 256 266 264 265 261 269 263 262 260 277 274 275 190 276 272 188	Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.1 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -98.4 -90.0 -98.1 -98.2 -98.9 -98.2 -102.2 -98.5 -101.0 -98.5 -101.0 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.1 -98.1 -98.1 -98.1 -98.1 -98.1 -98.1 -98.1 -98.1 -98.1 -98.1 -98.1 -98.1 -99.2 -99.2 -90.2	-13.21 -12.42 -12.89 -12.36 -12.36 -12.36 -13.16 -13.37 -13.84 -13.87 -13.84 -13.87 -12.30 -12.32 -11.71 -12.87 -12.98 -11.87 -12.98 -11.87 -12.98 -11.87 -12.98 -11.87 -12.69 -13.40 -12.73 -13.25 -12.73 -13.26			57 58 61	7 3 1
181 181 181 181 181 TR E E E E E E E E E S E E S E E S E E S E E S E E S E E S E E S E E S E E S E E S E E S E E S E E S E E S E E S S E S E S E S E S E S E S E S E S E S E S E S E S E S E S E S E S E S S E S E S E S E S E S E S S E S E S S S E S S S S E S	NW S. Schell Ck Range SW N. Pahroc Rng. NE Fairview Rng. E Bristol/Highland Rng. SE Chief Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Connor Spring Upper Conner Spring Upper Conner Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Unnamed Chokecherry Spring Upper Chokecherry Spring Upper Chokecherry Spring Upper Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Bailey Spring (Fairview) Cottonwood Spring (Fairview) Littlefield Spring Lower Pony Spring Meloy Spring Scotty Spring	1,307 2,081 3,709 7,895 1,696 16,700	3 2 1 2 1 1 1 1 1 1 2 1 2 1 1 2 1	163 160 157 283 156 256 266 264 265 261 269 263 262 260 277 274 275 190 276 272	Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -98.4 -90.9 -98.4 -98.9 -98.2 -102.2 -98.5 -101.0 -99.8 -99.5	-13.21 -12.42 -12.89 -12.36 -12.36 -13.16 -13.16 -13.16 -13.16 -13.17 -13.84 -13.87 -12.30 -12.32 -11.77 -12.98 -11.87 -12.54 -12.69 -13.40 -12.69 -13.40 -12.73 -12.75 -12.73			57 58 61	7 3 1

Region	Name	Volume	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο		
NE	Fox Cabin	lice luyi	1	273	Spring	-103.5	-13.59	00	0100		
NE	Lower Fairview		1	281	Spring	-97.5	-12.39				
NE	Robison Spring		1	279	Spring	-97.9	-12.34				
NE	Upper Fairview		1	280	Spring	-97.7	-12.66				
SW	Black Rock Spring		2	158	Spring	-93.8	-12.31				
SW	Coyote Spring		2	169	Spring	-95.1	-12.53				
SW	Hamilton Spring		1	298	Spring	-93.1	-11.76				
SW	Little Boulder Spring		1	301	Spring	-97.2	-13.06				
SW	Mustang Spring		2	135	Spring	-90.5	-12.49				
SW	Pahroc Spring		3	131	Spring	-92.2	-12.65				
SW	Rattlesnake Spring		1	302	Spring	-97.3	-12.65				
SW	Unnamed Springnr Blackrock		1	299	Spring	-94.3	-11.90				
NW	Sidehill Spring	1,600	2	200	Spring	-100.4	-13.21				
Evporated	Grassy Spring	1,000	3	117	Spring	-88.7		Evaporated	t so not	used in rech	arge calculation
Evaporated			1	183	Spring	-92.5		•			arge calculation
ET	ET	0		100	Opinig	52.5	11.70	-99.0	-13.12		arge calculation
Carb Well	Fugro Dry Lake V Deep Well	0	2	179	Well	-107.5	-14.16	-106.5			flow from Cave Valley
Carb Well	181M1		1	603	Deep Well	-107.5	-14.10	-106.5			flow from Cave Valley
Carb Well	181W909M		1	604	Deep Well	-103.0	-13.50	-106.5			flow from Cave Valley
209	GW Outflow (Pahranagat)	0	'	004	Deep Weil	-104.0	15.50	-99.0	-13.12		non dave vaney
182	GW Outflow (Delamar)	18,700						-99.0	-13.12		
102	GW Outnow (Delalinal)	10,700						-33.0	-13.12		
	<pre>x xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</pre>	XXXXXX	XXXXXXXX	XXXXX	XXXXXXXXXX	XXXXXX	XXXXXX	XXXXXX X	XXXXX		
182	Delamar Valley										
181	Inflow (Dry Lake)	18,700				-99.0	-13.12				
182 E	Delamar Mtns.	5,755				-92.5	-12.32			81	
182 W	S. Pahroc Rng.	1,073				-94.6	-12.81			82	
TR	Total Recharge	6,800				-92.8	-12.39				
E	Abandoned Spring		1	266	Spring	-94.5	-12.32				
E	Red Rock Spring		1	256	Spring	-95.0	-12.30				
E	Oak Spring		1	269	Spring	-90.0	-11.87				
E	Upper Chokecherry Spring		1	262	Spring	-98.9	-12.96				
E	Upper Indian Spring		1	268	Spring	-88.0	-11.46				
E	Lower Indian Spring		1	267	Spring	-96.0	-12.62				
E	Boulder Spring (KSV-4)		4	98	Spring	-89.2	-12.47				
E	Narrow Canyon Spring		1	257	Spring	-92.5	-12.47				
E	Bishop Spring		3	107	Spring	-87.2	-11.72				
E	Buckboard Spring		1	264	Spring	-88.2	-11.71				
E	Cottonwood Spring (Delamar)		1	265	Spring	-96.9	-12.87				
E	Lower Chokecherry Spring		1	261	Spring	-98.4	-12.98				
E	Sawmill Spring (Delamar Range)		1	259	Spring	-88.7	-12.58				
	Sawmill Spring West		1	258	Spring	-91.8	-12.86				
E	Upper Riggs Spring WR4		5	105	Spring	-87.1	-11.95				
E	Unnamed Chokecherry Spring		1	263	Spring	-98.1	-12.54				
E	Willow Spring 2 (So.of Oak Sps.summit)		1	260	Spring	-91.2	-11.69				
W	Pahroc Spring		3	131	Spring	-92.2	-12.65				
W	Gulch Spring(Unnamed Spring in Hells Acre	es Gulch)	1	109	Spring	-93.0	-12.30				
W	Sixmile Spring	,	1	112	Spring	-93.4	-13.06				
W	Eightmile Spring		2	295	Spring	-95.6	-13.09				
W	Twin Spring		1	294	Spring	-97.4	-13.24				
W	named Spring in Road (South Pahroc Range	:)	1	303	Spring	-96.7	-13.07				
W	Unnamed Spring nr Six Mile seep	*	1	296	Spring	-94.5	-12.62				
W	Water Tank 0.4mi West of Sixmile		1	297	Spring	-93.8	-12.44				
Evaporated			3	117	Spring	-88.7		Evaporated	d so not	used in rech	arge calculation
ET	ET	0						-97.3	-12.93		
Well	182W906M		1	607	Deep Well	-100.3	-13.33	-99.0			flow from Dry Lake Valle
209	GW Outflow (Pahranagat)	0			•			-97.3	-12.93		
210	GW Outflow (Coyote Spr)	25,500						-97.3	-12.93		
-		.,									

Region	Name	Volume Arce-ft/yr		Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	
XXXXXXXX	*****	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXXXXX	XXXXXX	XXXXXX	(XXXXX)	XXXXXX	XXXXXX	
206	Kane Springs Valley										
0	Inflow (None)	0				0.0	0.00				
206 W	Delamar Mtns.	4,149				-89.0	-12.22			90	
206 E	Meadow Valley Mtns.	305				-87.4	-11.92			91	
TR	Total Recharge	4,500				-88.9	-12.20				
E	Grapevine Spring (KSV-2)		10	93	Spring	-87.4	-11.92				
W	Sawmill Spring (Delamar Range)		1	259	Spring	-88.7	-12.58				
W	Sawmill Spring West		1	258	Spring	-91.8	-12.86				
W W	Bishop Spring Boulder Spring (KSV-4)		3 4	107 98	Spring	-87.2 -89.2	-11.72 -12.47				
W	Kane Springs (KSV-3)		4	98 97	Spring Spring	-86.8	-12.47				
W	Narrow Canyon Spring		3 1	257	Spring	-00.0	-12.13				
W	Upper Riggs Spring WR4		5	105	Spring	-87.1	-11.95				
W	Willow Spring (KSV-1)		4	92	Spring	-88.4	-11.60				
ET	ET	0		02	oping	00.1	11.00	-88.9	-12.20		
210	GW Outflow (Coyote Spr)	4,500						-88.9	-12.20		
				A/\/\/\/\/\/						~~~~~~	
XXXXXXXXX			~~~~~	~~~~			~~~~~		~~~~~	*****	
210	Coyote Springs Valley										
209	Inflow (Pahranagat)	20,400				-103.2	-13.89				
182	Inflow (Delamar)	25,500				-97.3	-12.93				
206	Inflow (Kane Springs)	4,500				-88.9	-12.20				
210 NE	S. Delamar Mtns.	1,059				-89.0	-12.22			83	
210 E	S. Meadow Valley Mtns.	16				-87.4	-11.9			84	
210 NW	S. of Maynard Lake	0				-94.0	-12.30			87	
210 SE	Arrow Canyon Rng.	15				-81.0	-10.60			88	
210 W	Sheep Range	1,202				-92.7	-12.83			89	
TR W	Total Recharge	2,300	4	47	Casiaa	-90.8	-12.53				
W	Cow Camp Spring Lamb Spring		4 1	47 86	Spring Spring	-91.9 -92.5	-12.53 -13.15				
W	Mormon Well Spring		3	53	Spring	-92.5	-12.67				
W	Rye Patch Spring		1	341	Spring	-89.3	-12.31				
Ŵ	Sawmill Spring (Sheep)		1	58	Spring	-92.0	-12.85				
w	Sheep Spring (Sheep Range)		1	83	Spring	-96.0	-13.35				
W	Wiregrass Spring (Sheep)		13	49	Spring	-95.1	-12.93				
W	White Rock Spring (Sheep)		2	64	Spring	-85.5		vaporate	d not use	d in rechar	de cald
	Maynard Lake Spring (Unnamed Spring)		1	94	Spring	-94.0	-12.30				J
SE	Wamp Spring		1	52	Spring	-81.0	-10.60				
E	Grapevine Spring (KSV-2)		10	93	Spring	-87.4	-11.92				
NE	Bishop Spring		3	107	Spring	-87.2	-11.72				
NE	Boulder Spring (KSV-4)		4	98	Spring	-89.2	-12.47				
NE	Kane Springs (KSV-3)		3	97	Spring	-86.8	-12.13				
NE	Narrow Canyon Spring		1	257	Spring	-92.5	-12.47				
NE	Sawmill Spring (Delamar Range)		1	259	Spring	-88.7	-12.58				
NE	Sawmill Spring West		1	258	Spring	-91.8	-12.86				
NE	Upper Riggs Spring WR4		5	105	Spring	-87.1	-11.95				
NE Corb Woll	Willow Spring (KSV-1)		4	92	Spring	-88.4	-11.60				
Carb Well	CSVM-2		1	612	Well	-97.7	-13.14				
Carb Well Carb Well	CSVM-3 CSVM-4		1	613 614	Well	-98.0	-13.10				
Carb Well	CSVM-4 CSVM-6		1	614 616	Well	-102.5 -100.7	-13.41				
Call Well	CSVM-6 CSI-1		1	609	Well Well	-100.7	-12.97 -13.08				
Carb Woll	001-1						-13.08				
Carb Well	CSI-2		1								
Carb Well	CSI-2 CSI-3		1	610 611	Well	-100.2					
	CSI-2 CSI-3 USGS CSV-1		1 1 1	610 611 71	Well	-100.2 -99.6 -103.0	-13.03 -13.55				

Region		Volume Arce-ft/yr	Samples	Site#	Site Type	Obs. δD	Obs. δ180	Calc. δD	
Carb Well Carb Well CARB ET 219 217	Fugro CV Deep Well CE-DT-5 CE-DT-4 Carbonate Well (Avg) ET GW Outflow (Muddy) GW Outflow (Hidden)	0 37,700 15,000	3 1 14	77 78	Well Well	-99.6 -102.5 -100.7	-12.96 -13.00 -13.11	-98.9 -98.6 -98.6 -98.6	-13.22 -13.22
xxxxxxx	*****	xxxxxxx	xxxxxxx	XXXXXX	xxxxxxx	xxxxxx	XXXXXXX	XXXXX	
219	Upper Moapa (Muddy) Valley								
205 210 219 S 219 N TR N/S Warm Warm Warm Warm Warm Warm Warm Warm	Inflow (LMVW) Inflow (Coyote) E. Arrow Canyon? Wildcat Wash Total Recharge Grapevine Spring (KSV-2) APCAR Baldwin Spring Big Muddy Spring Iverson's Spring Jones Spring Pumphouse M-8 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) Pederson's East Pederson's East Pederson's Karm Spring (M-13) Dicharge Warm Spris (Avg) CE-DT-6 Well CSV-2 Well Deep Carbanate Well (Avg)	4,000 37,700 3 40 0 2226 5500 0 0 0 200 0 200 0 400 8,300	10 1 9 6 1 6 1 9 15 49 2 2 4	93 292 291 69 65 292 68 70 290 67 72 76	Spring Spring Spring Spring Spring Spring Spring Spring Well Well	-93.6 -98.6 -87.4 -87.4 -87.4 -98.2 -97.6 -97.9 -97.0 -97.9 -97.0 -96.5 -97.8 -97.5 -97.8 -97.5 -97.8 -98.0 -97.9 -97.9	-12.60 -13.22 -11.92 -11.92 -12.97 -12.89 -13.05 -12.75 -12.75 -12.93 -12.93 -12.93 -12.93 -12.93 -12.90 -13.03 -12.92 -12.97	-98.1 -98.1 -98.1	 -13.16 Flow weighted average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys -13.16 Flow weighted average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys -13.16 Flow weighted average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys -13.16
Gage	Moapa Gage	34,000						-30.1	-10.10
218 218	SW Outflow (California) GW Outflow (California)	<mark>34,000</mark> 1,700						-98.1	-13.16
XXXXXXXX	****	XXXXXXXX	xxxxxx	XXXXXX	xxxxxxx		(XXXXXX)	XXXXX	xxxxxx xxxxxx
217	Hidden Valley								
210 217 E 217 W TR W ET 216	Inflow (Coyote) E. Hidden W. Hidden Total Recharge Wamp Spring ET GW Outflow (Garnet)	15,000 0 47 0 15,000	1	52	Spring	-98.6 -81.0 -81.0 -81.0 -81.0	-13.22 -10.60 -10.60 -10.60 -10.60	-98.6 -98.6	-13.22
			~~~~~/	~~~~	^^^^	~~~~~	~~~~~	~~~~	
216	Garnet Valley								
217 216 E 216 W TR W Carb Well Carb Well Carb Well CARB	Inflow (Hidden) Apex Las Vegas Range Total Recharge Wamp Spring Dry Lake Valley Well GP Apex Well Unnamed Well (Near Dry Lake Range) US Lime Well (Genstar) Wells (Avg)	<b>15,000</b> 0 106 <b>100</b>	<b>1</b> 1 3 1 1 <b>6</b>	<b>52</b> 34 17 24 27	Spring Well Well Well Well	-98.6 -81.0 -81.0 -81.0 -97.5 -97.2 -96.0 -97.0 -96.9	-13.22 -10.60 -10.60 -10.60 -13.30 -13.53 -13.70 -12.75 -13.32	-98.6	104 105 -13.22 Inter-basin flow from Hidden Valley

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O	IC	
ET 218	ET GW Outflow (California)	0 15,100						-98.5 -98.5	-13.20 -13.20		
xxxxxxx	*****	XXXXXXXXX	xxxxxxx	xxxxx	xxxxxxxx	xxxxxx	(XXXXX)	xxxxx	xxxxx	xxxxxx	
218	California Wash										
219	SW Inflow (Muddy)	34,000									
205	SW Inflow (LMVW)	0									
219 205	Inflow (Muddy)	1,700				-98.1 -93.6	-13.16 -12.60				
205	Inflow (Lower Meadow VW) Inflow (Garnet)	5,200 15,100				-93.6	-12.00				
218 E	Moapa Paiutes	0				-82.0	-10.60			110	
218 W	Muddy Mtns.	0				-82.0	-10.60			111	
TR	Total Recharge	0				0.0	0.00				
W	Valley of Fire Well		1	31	Well	-82.0	-10.60				
Carb Well	Calpine Test Well 1a		1	43	Well	-99.0	-13.50				
Carb Well	Moapa Well <b>ET</b>	4,500		41	Well	-99.0	-13.40	-97.3	-13.06		
CARB	Carbonate Well (Avg)	4,000				-99.0	-13.45	-97.3		Weighted	Average of Infterbasin flow from Garnet and Upper Moapa Valleys
220	GW Outflow (Lower Moapa)	18,800						-97.3	-13.06		
215	GW Outflow (Black Mtn Area)	2,000						-97.3	-13.06		
220	SW Outflow (Lower Moapa)	30,700									
XXXXXXXX	*****	XXXXXXXX	xxxxxxx	XXXXX	xxxxxxx	xxxxxx	(XXXXX)	XXXXXX	xxxxx	XXXXXX	
215	Black Mountains Area										
218 215 NE	Inflow (California Wash)	<b>2,000</b>				-97.3	-13.06			440	
215 NE 215 SE	Muddy Mtns. Black Mtns.	0				-85.0 -79.5	-10.95 -10.65			113 114	
215 W	Gypsum Wash	0				-79.5	-10.65			112, 166	
TR	Total Recharge	0				0.0	0.00			,	
SE	Cottonwood Spring (Black Mtns.)	0	1	8	Spring	-80.0	-10.80				
SE	Sandstone Spring	0	1	10	Spring	-79.0	-10.50				
NE	Unnamed, Kaolin Wash		1	35	Spring	-88.0	-11.30				
NE Alluvial Sprii	Valley of Fire Well Bitter Spring	5	1	31 14	Well Spring	-82.0 -77.0	-10.60 -9.90				
Carb Spr	Blue Point Spring	440	5	26	Spring	-92.6	-12.40				
Carb Spr	Corral Spring (Unnamed Spring)	0	1	19	Spring	-91.5	-12.10				
Carb Spr	Rogers Spring	1,200	3	21	Spring	-91.7	-12.33				
Carb Spr	Scirpus Spring (No spring on Map)	0	1	20	Spring	-90.0	-12.00				
Carb Spr	VF Spring 1	0	1	28	Spring	-88.0	-11.20				
Carb Spr Carb Spr	VF Spring 2 VF Spring 3	6 17	1	29 30	Spring Spring	-92.0 -93.0	-11.80 -12.20				
ET	ET	1,400	1	30	Spring	-93.0	-12.20	-97.3	-13.06		
CARB	Carbonate Spr (Avg)	1,700	13			-91.3	-12.01	-97.3		Weighted	Average of Inflow from Califronia Wash
999	GW Outflow (Colorado River)	600						-97.3	-13.06	-	
xxxxxxx	*****	XXXXXXXX	xxxxxxx	XXXXX	xxxxxxx	oxxxxxo	(XXXXX)	xxxxx	xxxxx	xxxxxx	
220	Lower Moapa Valley										
218	GW Inflow (California Wash)	18,800				-97.3	-13.06				
218	SW Inflow (California Wash )	30,700					44.00			101	
220 S 220 N	Valley of Fire S. Mormon Mtns.	0 37				-88.0	-11.30			101 102	
TR	Total Recharge	37 0				-88.3 <b>-88.3</b>	-12.50 <b>-12.50</b>			102	
N	Davies Spring	v	1	90	Spring	-89.0	-12.50				
N N N	Hackberry Spring		1	84	Spring	-87.0	-12.30				
Ν	Horse Spring (Morman)		1	85	Spring	-89.0	-12.70				

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O			
S Corth Moll	Unnamed, Kaolin Wash		1	35	Spring	-88.0	-11.30					
Carb Well Carb Well	EH-7 EH-3 Weiser Wash		1	56 61	Well Well	-91.0 -91.0	-12.45					
ET	EH-3 Weiser Wash	25,300	1	01	vveli	-91.0	-12.70	-97.3	-13.06			
CARB	Carbonate Well (Avg)	25,500	2			-91.0	-12.58	-93.6			in flow from	Lower Meadow Valley Wash
999	GW Outflow (Colorado River)	17,200	2			-51.0	12.00	-97.3	-13.06			
999	SW Outflow (Colorado River)	7,000						•••••				
		.,										
XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXX	XXXXX	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXX )	XXXXX	XXXXXX		
Colorado R	Lake Mead (Colorado River)											
210	GW Inflow (Black Mountains Area)	600				-97.3	-13.06					
205	GW Inflow (Lower Moapa)	17,200				-97.3	-13.06	07.2	42.00			
999	Groundwater Total	17,800						-97.3	-13.06			
205	SW Inflow (Lower Moapa)	7,000										
999	Surface water Total	7,000										
999	Inflow Total	24,800										
XXXXXXXX	*****	XXXXXXXX	xxxxxxx	xxxxx	xxxxxxx	XXXXXXX	XXXXXX	XXXXXX )	(XXXXX	XXXXXX		
183	Lake Valley											
0	Inflow (None)	0				0.0	0.00					
183 NE	Fortification Rng	1,499				-106.3	-14.16			49		
183 NW	Cen. Schell Cr. Rng	4,759				-108.1	-14.74			51		
183 SE	Wilson Cr. Rng. @ Atlanta	4,188				-104.7	-13.75			50		
183 SW	Fairview Rng.	1,716				-101.1	-13.29			60		
TR	Total Recharge	12,200				-105.7	-14.12					
NE	Indian Springs		1	375	Spring	-106.3	-14.16					
NW	Big Spring North	700	1	211	Spring	-112.0	-15.10					
NW	Big Spring South	1,600	1	210	Spring	-111.0	-14.80					
NW	Geyser Spring	340	1	213	Spring	-105.0	-14.50					
NW	North Creek Spring	1,200	1	214	Spring	-105.0	-14.60					
NW	Patterson Pass Spring WR3		15	305	Spring	-108.4	-14.95					
	Jnnamed Spring in Schell Creek Range		4	304	Spring	-107.3	-14.48					
SE SE	Headwaters Spring WR5		17 1	309	Spring	-107.3	-14.57					
	Bailey Spring (Wilson Ck)			310	Spring	-102.0	-12.93	Curfage M		الممارية ما الم		
SE SW	Wilson Creek		1 1	189 274	Surface	-97.5 -102.2	-13.20	Surface w	aternot	included in	recharge ave	nage
SW	Cottonwood Spring (Fairview) Lower Pony Spring		2	190	Spring	-102.2	-13.40					
SW	Indian Spring near Steward Ranch		1	188	Spring Spring	-101.0	-13.60					
SW	Unnamed Spring near Pony Spring		1	191	Spring	-102.0	-12.90					
ET	ET	6,100	1	131	oping	-33.0	-12.30	-105.7	-14.12			
202	GW Outflow (Patterson)	6,100						-105.7	-14.12			
xxxxxxx	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	xxxxxxxx	xxxxxxx	XXXXX	xxxxxxx	xxxxxx	XXXXXX	xxxxxx	xxxxx	XXXXXX		
202	Patterson Valley											
	-											
183	Inflow (Lake)	6,100				-105.7	-14.12					
202 E	Wilson Cr. Rng. @ Mt. Wilson	6,464				-97.7	-12.99			47		
202 W	Bristol Rng.	3,991				-99.2	-13.10			48		
TR	Total Recharge	10,500				-98.3	-13.03					
E	Bailey Spring (Wilson Ck)		1	310	Spring	-102.0	-12.93					
E	Blue Rock Spring		1	311	Spring	-93.4	-12.68					
E E E	Headwaters Spring WR5		17	309	Spring	-107.3	-14.57					
E c	Upper Tower Spring		1	312	Spring	-93.3	-12.30					
E	Parsnip Spring		1	180	Spring	-93.5	-12.80					

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	
E	Horsethief Spring	Alcoluyi	2	314	Spring	-97.0	-12.68	00	0100		
E	Wilson Creek		1	189	Surface	-97.5		Surface Wa	ater not inclu	ded in recharg	ne average
Ŵ	Deadman Spring (Highland)		2	162	Spring	-95.0	-12.07	Cullabo III			go avoiago
Ŵ	Highland Spring		3	163	Spring	-99.1	-13.36				
Ŵ	Lime Spring		2	160	Spring	-98.5	-13.16				
Ŵ	Pine Spring		2	157	Spring	-99.0	-13.37				
Ŵ	Upper Conner Spring		1	156	Spring	-102.3	-13.88				
Ŵ	Connor Spring		1	283	Spring	-102.5	-13.84				
W	Fox Cabin		1	273	Spring	-103.5	-13.59				
Ŵ	Scotty Spring		1	272	Spring	-98.9	-12.73				
W	Upper Fairview		1	280	Spring	-90.9	-12.66				
W	Lower Fairview		1	281	Spring	-97.5	-12.39				
W	Wildhorse Spring (Fairview)		1	183	Spring	-97.5		Evaporated	t so not used	l in rec <mark>harge</mark> d	alculation
W	McDermitt Spring		1	323		-94.3				l in rec <mark>harge</mark> c	
ET	ET	1,300	1	323	Spring	-94.5	-11.21	-101.0	-13.43	in recharge c	acculation
203	GW Outflow (Panaca)	15,300						-101.0	-13.43		
203	Gw Outriow (Fanaca)	15,300						-101.0	-13.43		
XXXXXXX	x xxxxxxxxxxxxxxxxxxxxxxxx x	XXXXXXX	xxxxxxx	XXXXX	XXXXXXXXX	CIXXXXXXC	XXXXXX	XXXXXX X	XXXXXX XX	XXXX	
201	Spring Valley										
		_									
0	Inflow (None)	0				0.0	0.00				
201 E	White Rock Mtns.	5,904				-100.9	-13.52			52	
201 W	Wilson Cr. Rng. @ Parsnip Pk.	5,161				-97.7	-12.99			53	
TR	Total Recharge	11,100				-99.4	-13.28				
E	Barrel Spring		1	317	Spring	-100.5	-13.36				
E	anyon Spring (Unnamed Spring in Burnt C	anyon)	1	187	Spring	-93.0	-12.30				
E	Lion Spring		1	318	Spring	-103.4	-14.11				
E E	South Monument Spring		1	319	Spring	-102.3	-14.23				
E	Ripgut Sp #40		1	411	Spring	-106.4	-14.38				
E	Unnamed Spring #1(White Rock Mts)		1	415	Spring	-109.6	-15.05				
E	Unnamed Spring #2 (White RockMts)		1	417	Spring	-97.0	-13.00				
E	Upper Burnt Canyon Spring		1	416	Spring	-97.6	-12.83				
E	Upper Burnt Canyon Spring #2		1	416	Spring	-103.6	-13.66				
E	Jnnamed Spring nr Redd's Cabin Summit		2	173	Spring	-94.4	-12.44				
E			1								
	Tobe Spring			315	Spring	-100.0	-13.04				
E	Tobe Spring 2		1	316	Spring	-93.6	-12.09				
E	Unnamed Spring in Miller Canyon		1	313	Spring	-103.7	-14.27				
E	Headwaters Spring WR5		17	309	Spring	-107.3	-14.57				
W	Blue Rock Spring		1	311	Spring	-93.4	-12.68				
W	Headwaters Spring WR5		17	309	Spring	-107.3	-14.57				
W	Bailey Spring (Wilson Ck)		1	310	Spring	-102.0	-12.93				
W	Horsethief Spring		2	314	Spring	-97.0	-12.68				
W	Parsnip Spring		1	180	Spring	-93.5	-12.80				
W	Upper Tower Spring		1	312	Spring	-93.3	-12.30				
Surface	Camp Creek		1	184	Surface	-102.0	-14.00	Surface Wa	ater not inclu	ded in <mark>recha</mark> rg	ge average
Surface	MVW above Eagle Canyon		1	168	Surface	-93.0	-12.00	Surface Wa	ater not inclu	ded in <mark>recha</mark> rg	ge average
ET	ET	3,900						-99.4	-13.28		
200	GW Outflow (Eagle)	7.200						-99.4	-13.28		
200	SW Outflow (Eagle)	0						-97.5	-13.00		
xxxxxxx	x xxxxxxxxxxxxxxxxxxxxxx x	XXXXXXX	xxxxxxx	XXXXX	xxxxxxx	OXXXXXXO	xxxxx	XXXXXX X	xxxxx xx	xxxx	
200	Eagle Valley										
201		7 000				00.4	40.00				
201	Inflow (Spring)	7,200				-99.4	-13.28				
201	SW Inflow (Spring)	0				-97.5	-13.00				
200 E	E. Eagle (Ursine) Valley	1,560				-99.1	-13.28			63	
200 W	W. Eagle (Ursine) Valley	412				-97.0	-12.68			64	
TR	Total Recharge	2,000				-98.7	-13.15				

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O	IC	
E	Butcher Spring		1	424	Spring	-103.2	-14.22				
E	Newels Spring		1	423	Spring	-96.0	-12.48				
E	Ox Valley Spring		1	422	Spring	-100.0	-13.95				
E	Unnamed Spring #2 (Mahogany Mts)		1	421	Spring	-100.7	-13.47				
E	Water Canyon Spring (Mahogany)		1	420	Spring	-100.4	-13.68				
E	Tobe Spring		1	315	Spring	-100.0	-13.04				
E	Tobe Spring 2		1	316	Spring	-93.6	-12.09				
Ŵ	Horsethief Spring		2	314	Spring	-97.0	-12.68				
ET	ET	1,000	-	0	oping	00	.2.00	-99.3	-13.25		
199	GW Outflow (Rose)	8,200						-99.3	-13.25		
198	SW Outflow (Rose)	0,200						-99.3	-13.25		
xxxxxxx		-	*****	~~~~~		~~~~~~	/vvvv [·] v				
199		~~~~~	~~~~~	~~~~			~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~	
199	Rose Valley										
200	Inflow (Eagle)	8,200				-99.3	-13.25				
200	SW Inflow (Eagle)	0				-99.3	-13.25				
199 E	E. Rose Valley	163				-99.1	-13.28			65	
199 W	W. Rose Valley	78				-97.0	-12.68			66	
TR	Total Recharge	200				-98.4	-13.08				
E	Butcher Spring		1	424	Spring	-103.2	-14.22				
E	Newels Spring		1	423	Spring	-96.0	-12.48				
E E	Ox Valley Spring		1	422	Spring	-100.0	-13.95				
F	Unnamed Spring #2 (Mahogany Mts)		1	421	Spring	-100.7	-13.47				
E E	Water Canyon Spring (Mahogany)		1	420	Spring	-100.4	-13.68				
E	Tobe Spring		1	315	Spring	-100.4	-13.04				
E	Tobe Spring 2		1	315		-100.0	-13.04				
E W	Horsethief Spring 2		2	316	Spring Spring	-93.6 -97.0	-12.09				
			2	514	Ophing	-97.0	-12.00	00.0	40.04		
ET	ET	600	2	514	oping	-97.0	-12.00	-99.2	-13.24		
ET 198	ET GW Outflow (Dry)	7,800	2	514	Opinig	-97.0	-12.00	-99.2	-13.24		
ET	ET		2	514	oping	-97.0	-12.00				
ET 198 198 XXXXXXXX	ET GW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0						-99.2 -99.3	-13.24 -13.25	xxxx	
ET 198 198	ET GW Outflow (Dry) SW Outflow (Dry)	7,800 0						-99.2 -99.3	-13.24 -13.25	xxxx	
ET 198 198 XXXXXXXX	ET GW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0						-99.2 -99.3	-13.24 -13.25	XXXX	
ET 198 198 XXXXXXXXX 198	ET GW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 XXXXXXXX				XXXXXXX	XXXXX X	-99.2 -99.3	-13.24 -13.25	XXXX	
ET 198 198 XXXXXXXXX 198 199 199	ET GW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 XXXXXXXX 7,800				-99.2	-13.24	-99.2 -99.3	-13.24 -13.25	<b>XXXXX</b> 67	
ET 198 198 XXXXXXXX 198 199 199 198 E	ET GW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 XXXXXXXX 7,800 0				-99.2 -99.3	-13.24 -13.25	-99.2 -99.3	-13.24 -13.25		
ET 198 198 XXXXXXXXX 198 199 199 198 E 198 W	ET GW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 XXXXXXXXX 7,800 0 2,860				-99.2 -99.3 -96.9	-13.24 -13.25 -12.99	-99.2 -99.3	-13.24 -13.25	67	
ET 198 198 XXXXXXXXX 198 199 199 198 E 198 W TR	ET GW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 xxxxxxxx 7,800 0 2,860 321		XXXXXX	xxxxxxx	-99.2 -99.3 -96.9 -97.0	-13.24 -13.25 -12.99 -12.68	-99.2 -99.3	-13.24 -13.25	67	
ET 198 198 XXXXXXXXX 198 199 199 198 E 198 W TR E	ET GW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 xxxxxxxx 7,800 0 2,860 321	XXXXXXX	<b>XXXXXXX</b> 418	Spring	-99.2 -99.3 -96.9 -97.0 -96.9 -91.9	-13.24 -13.25 -12.99 -12.68 -12.96 -12.34	-99.2 -99.3	-13.24 -13.25	67	
ET 198 198 XXXXXXXX 198 199 199 198 E 198 W TR E E	ET GW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 xxxxxxxx 7,800 0 2,860 321	<b>XXXXXXXX</b> 1 1	<b>XXXXXX</b> 418 419	Spring Spring	-99.2 -99.3 -96.9 -97.0 -96.9 -91.9 -91.9 -92.1	-13.24 -13.25 -12.99 -12.68 -12.96 -12.34 -12.04	-99.2 -99.3	-13.24 -13.25	67	
ET 198 198 XXXXXXXX 198 199 199 198 198 198 W TR E E E	ET GW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 xxxxxxxx 7,800 0 2,860 321	<b>XXXXXXXX</b> 1 1 1	418 419 423	Spring Spring Spring Spring	-99.2 -99.3 -96.9 -97.0 -96.9 -91.9 -91.9 -92.1 -96.0	-13.24 -13.25 -12.99 -12.68 -12.96 -12.34 -12.04 -12.48	-99.2 -99.3	-13.24 -13.25	67	
ET 198 198 XXXXXXXX 198 199 199 198 E 198 W TR E E E E	ET GW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 xxxxxxxx 7,800 0 2,860 321	1 1 1 1 1	418 419 423 422	Spring Spring Spring Spring Spring	-99.2 -99.3 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0	-13.24 -13.25 -12.99 -12.68 -12.96 -12.04 -12.04 -12.04 -12.48 -13.95	-99.2 -99.3	-13.24 -13.25	67	
ET 198 198 XXXXXXXX 198 199 199 198 E 198 W TR E E E E E E E	ET GW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 xxxxxxxx 7,800 0 2,860 321	1 1 1 1 1 1 1	418 419 423 422 421	Spring Spring Spring Spring Spring Spring	-99.2 -99.3 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0 -100.7	-13.24 -13.25 -12.99 -12.68 -12.34 -12.04 -12.48 -13.95 -13.47	-99.2 -99.3	-13.24 -13.25	67	
ET 198 198 XXXXXXXXX 198 199 199 198 E 198 W TR E E E E E E E E E	ET GW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 xxxxxxxx 7,800 0 2,860 321	1 1 1 1 1 1 1 1	418 419 423 422 421 420	Spring Spring Spring Spring Spring Spring Spring Spring	-99.2 -99.3 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0 -100.7 -100.4	-13.24 -13.25 -12.99 -12.68 -12.96 -12.34 -12.04 -12.48 -13.95 -13.47 -13.68	-99.2 -99.3	-13.24 -13.25	67	
ET 198 198 XXXXXXXXX 198 199 199 198 E 198 W TR E E E E E E E E W	ET GW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 xxxxxxxx 7,800 0 2,860 321	<b>XXXXXXXX</b> 1 1 1 1 1 1 1 2	418 419 423 421 421 420 314	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-99.2 -99.3 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0 -100.7 -100.4 -97.0	-13.24 -13.25 -12.99 -12.68 -12.68 -12.34 -12.04 -12.34 -13.47 -13.68 -13.47 -13.68 -12.68	-99.2 -99.3 XXXXX >	-13.24 -13.25	67 68	r from Day Vol'su
ET 198 198 XXXXXXXX 198 199 199 198 E 198 W TR E E E E E E E E W W	ET GW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 xxxxxxxx 7,800 0 2,860 321	1 1 1 1 1 1 1 2 1	418 419 423 422 421 420 314 153	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-99.2 -99.3 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0 -100.7 -100.4 -97.0 -101.0	-13.24 -13.25 -12.99 -12.68 -12.34 -12.04 -12.48 -13.95 -13.45 -13.68 -13.68 -13.40	-99.2 -99.3	-13.24 -13.25 (XXXXX X)	67 68 er-basin flow	r from Dry Valley
ET 198 198 XXXXXXXX 198 199 199 199 198 E 198 W TR E E E E E E E E E E W W Warm Sprine Spring	ET GW Outflow (Dry) SW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 XXXXXXXXX 7,800 0 2,860 321 3,200	<b>XXXXXXXX</b> 1 1 1 1 1 1 1 2	418 419 423 421 421 420 314	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-99.2 -99.3 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0 -100.7 -100.4 -97.0	-13.24 -13.25 -12.99 -12.68 -12.34 -12.04 -12.48 -13.95 -13.45 -13.68 -13.68 -13.40	-99.2 -99.3 XXXXXX X	-13.24 -13.25 (XXXXX X) -13.24 Inte	67 68 er-basin flow	<i>r from Dry Valley</i> ng not included in recharge o
ET 198 198 XXXXXXXX 198 199 199 199 198 E 198 W TR E E E E E E E E W Warm Sprine Spring ET	ET GW Outflow (Dry) SW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 XXXXXXXXX 7,800 0 2,860 321 3,200 3,200	1 1 1 1 1 1 1 2 1	418 419 423 422 421 420 314 153	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-99.2 -99.3 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0 -100.7 -100.4 -97.0 -101.0	-13.24 -13.25 -12.99 -12.68 -12.34 -12.04 -12.48 -13.95 -13.45 -13.68 -13.68 -13.40	-99.2 -99.3 XXXXXX ) -99.2 -98.5	-13.24 -13.25 (XXXXX XX -13.24 Inte Loc -13.16	67 68 er-basin flow	
ET 198 198 XXXXXXXXX 198 199 199 198 E 198 W TR E E E E E E E E E E E E E E E E E E	ET GW Outflow (Dry) SW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 XXXXXXXXX 7,800 0 2,860 321 3,200 3,200	1 1 1 1 1 1 1 2 1	418 419 423 422 421 420 314 153	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-99.2 -99.3 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0 -100.7 -100.4 -97.0 -101.0	-13.24 -13.25 -12.99 -12.68 -12.34 -12.04 -12.48 -13.95 -13.45 -13.68 -13.68 -13.40	-99.2 -99.3 XXXXXX ) -99.2 -98.5 -98.5	-13.24 -13.25 (XXXXX X) (XXXXX X) -13.16 -13.16	67 68 er-basin flow	
ET 198 198 XXXXXXXX 198 198 199 198 E E E E E E E E E E E E E	ET GW Outflow (Dry) SW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 XXXXXXXXX 7,800 0 2,860 321 3,200 3,200 3,200 7,300 0	1 1 1 1 1 1 2 1 1	418 419 423 422 421 420 314 153 149	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-99.2 -99.3 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0	-13.24 -13.25 -12.99 -12.68 -12.68 -12.34 -12.04 -12.34 -13.47 -13.68 -13.47 -13.68 -13.40 -13.40	-99.2 -99.3 XXXXX > -99.2 -98.5 -98.5 -99.2	-13.24 -13.25 (XXXXX X) -13.24 -13.16 -13.24	67 68 e <b>r-basin flow</b> ral Valley spri	
ET 198 198 XXXXXXXX 198 198 199 198 E E E E E E E E E E E E E	ET GW Outflow (Dry) SW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 XXXXXXXXX 7,800 0 2,860 321 3,200 3,200 3,200 7,300 0	1 1 1 1 1 1 2 1 1	418 419 423 422 421 420 314 153 149	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-99.2 -99.3 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0	-13.24 -13.25 -12.99 -12.68 -12.68 -12.34 -12.04 -12.34 -13.47 -13.68 -13.47 -13.68 -13.40 -13.40	-99.2 -99.3 XXXXX > -99.2 -98.5 -98.5 -99.2	-13.24 -13.25 (XXXXX X) -13.24 -13.16 -13.24	67 68 e <b>r-basin flow</b> ral Valley spri	
ET 198 198 XXXXXXXX 198 199 199 199 198 E E E E E E E E E E E W Warm Spriny Spring ET 203 203	ET GW Outflow (Dry) SW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 XXXXXXXXX 7,800 0 2,860 321 3,200 3,200 3,200 7,300 0	1 1 1 1 1 1 2 1 1	418 419 423 422 421 420 314 153 149	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-99.2 -99.3 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0	-13.24 -13.25 -12.99 -12.68 -12.68 -12.34 -12.04 -12.34 -13.47 -13.68 -13.47 -13.68 -13.40 -13.40	-99.2 -99.3 XXXXX > -99.2 -98.5 -98.5 -99.2	-13.24 -13.25 (XXXXX X) -13.24 -13.16 -13.24	67 68 e <b>r-basin flow</b> ral Valley spri	
ET 198 198 XXXXXXXX 198 198 199 198 E E E E E E E E E E E E E	ET GW Outflow (Dry) SW Outflow (Dry) SW Outflow (Dry) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 XXXXXXXXX 7,800 0 2,860 321 3,200 3,200 3,200 7,300 0	1 1 1 1 1 1 2 1 1	418 419 423 422 421 420 314 153 149	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-99.2 -99.3 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0	-13.24 -13.25 -12.99 -12.68 -12.68 -12.34 -12.04 -12.34 -13.47 -13.68 -13.47 -13.68 -13.40 -13.40	-99.2 -99.3 XXXXX > -99.2 -98.5 -98.5 -99.2	-13.24 -13.25 (XXXXX X) -13.24 -13.16 -13.24	67 68 e <b>r-basin flow</b> ral Valley spri	

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	
204 S	North of Jack's Mtn	6,451	•			-92.0	-12.52			72	
TR	Total Recharge	14,700				-92.1	-12.46				
N	Acoma Well		1	118	Well	-95.0	-12.60				
N	Cave Spring (Clover)		2	247	Spring	-92.8	-12.37				
N	Clover Creek Valley Well 246		1	120	Well	-89.0	-12.40				
N S	Ramone Mathews Well		2	115 253	Well Spring	-92.0 -93.6	-12.30 -12.89				
S	Big Spring (Clover) East Settling Spring		1	233	Spring	-93.0	-12.09				
S	Ella Spring		1	251	Spring	-95.8	-12.56				
S	Little Springs (Clover Mts)		2	254	Spring	-93.3	-12.81				
S	Quaking Aspen Spring		1	255	Spring	-93.6	-12.98				
S	Sheep Spring (Clover)		2	108	Spring	-88.8	-12.03				
S	Unnamed Spring		1	113	Spring	-86.5	-11.60				
Alluvial Well	Clover Creek Valley Well 232		1	114	Well	-84.0	-11.70				
ET	ET	5,200						-92.1	-12.46		
205	GW Outflow (LMVW)	9,500						-92.1	-12.46		
205	SW Outflow (LMVW)	0						-92.1	-12.46		
*****	*****	XXXXXXXXX	******	xxxxx	(XXXXXXXXX)	XXXXXXX	XXXXXX	XXXXXX	*****	XXXXXX	
203	Panaca Valley										
202	Inflow (Patterson)	15,300				-101.0	-13.43				
198	Inflow (Dry)	7,300				-98.5	-13.16				
198	SW Inflow (Dry)	0				-99.2	-13.24				
203 E	Condor Canyon	2,479				-92.0	-12.19			69	
203 W	Cathedral Gorge	2,984				-98.9	-13.28			70	
TR	Total Recharge	5,500				-95.8	-12.78				
W	Connor Spring		1	283	Spring	-100.6	-13.84				
W	Deadman Spring (Highland)		2	162	Spring	-95.0	-12.07				
W	Highland Spring		3	163	Spring	-99.1	-13.36				
W	Lime Spring		2	160	Spring	-98.5	-13.16				
W	Pine Spring		2	157	Spring	-99.0	-13.37				
W	Upper Conner Spring		2 1	156	Spring	-101.2	-13.87				
E	Kiln Spring		1	418 419	Spring	-91.9 -92.1	-12.34 -12.04				
Warm	Summit Spring (Mahogany Mts.) Bennett Spring	20	1	141	Spring Spring	-103.0	-12.04	-101.0	-12 /2	Inter-basin flow from	m Patterson Valley
Warm	Caliente Hot Springs (Hotel)	20	8	129	Spring	-103.0	-14.44	-101.0		Inter-basin flow from	•
Warm	Panaca Spring	7700	13	144	Spring	-106.9	-14.14	-105.7		Inter-basin flow from	•
Surface	Meadow Valley Wash, Cal.		1	130	Surface	-97.0	-13.10				
Warm	Lester Mathews Well		1	142	Well	-103.0	-13.30				
Warm	Panaca Town Well		1	143	Well	-106.0	-14.00				
Warm	North Lee Well		1	147	Well	-101.0	-13.30				
ET	ET	18,900						-99.3	-13.24		
205	GW Outflow (LMVW)	9,200						-99.3	-13.24		
205	SW Outflow (LMVW)	0						-97.0	-13.10		
XXXXXXXX	*****	XXXXXXXX	xxxxxxx	XXXXX	xxxxxxx	XXXXXXX	XXXXXX	XXXXXX	xxxxx	XXXXXX	
205	Lower Meadow Valloy Wach										
203	Lower Meadow Valley Wash										
203	Inflow (Panaca)	9,200				-99.3	-13.24				
204	Inflow (Clover)	9,500				-92.1	-12.46				
203	SW Inflow (Panaca)	0				-97.0	-13.10				
204 205 NW	SW Inflow (Clover)	0				-92.1	-12.46			00	
205 NW	Delamar Mtns.	3,077				-92.23	-12.28			92	
205 NE	Clover Mountains	7,290				-90.4	-12.25			93	
205 SW	Meadow Valley Mtns.	1,146				-87.4	-11.92			94	
205 SE	Mormon Mtns. Total Recharge	895				-88.3 <b>-90.4</b>	-12.50			95	
TR NE	Big Spring (Clover)	12,400	2	253	Spring	-90.4 -93.6	<b>-12.24</b> -12.89				
	big opining (Clover)		4	200	oping	-90.0	-12.09				

NE       East Setting Spring       1       248       Spring	Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18O	Calc. δD	Calc. δ18O	IC		
NE       Ella Spring       1       251       Spring       -958       -12.56         NE       Garden Spring       1       250       Spring       -951       -13.11         NE       Sheep Spring (Clover)       1       13       Spring       -958       -13.11         NE       Unnamed Spring (Clover)       1       13       Spring       -968       -12.02         NE       Unnamed Spring (Clover)       1       246       Spring       -968       -11.54         NW       Abardond Spring       1       246       Spring       -968       -11.34         NW       Grassy Spring       3       117       Spring       -968       -11.34         NW       Graden Spring       1       245       Spring       -968       -11.24         NW       Bishop Spring       3       107       Spring       -968       -11.24         NW       Bishop Spring       1       257       Spring       -968       -12.37         NW       Bouder Spring (NSV-4)       4       98       Spring       -962       -12.47         NW       Lower Indian Spring (NSV-4)       4       265       Spring       -962       -12.42     <	NE	East Settling Spring	·····,	1	248								
NE       Garden Spring       1       246       Spring       -870       -11.54         NE       Sheep Spring (Glover)       2       108       Spring       -883       -12.03         NE       Unnamed Spring (Clover)       1       243       Spring       -885       -11.80         NE       Unnamed Spring (Clover)       1       243       Spring       -885       -11.81         NE       Garden Spring       1       246       Spring       -885       -11.81         NM       Abandoned Spring       1       246       Spring       -482       -11.31         NM       Garden Spring       1       246       Spring       -482       -11.37         NM       Garden Spring (KS)-4)       1       245       Spring       -692       -12.27         NM       Budker Spring (KS)-4)       1       245       Spring       -692       -12.37         NM       Budker Spring (KS)-4)       1       246       Spring       -692       -12.37         NM       Budker Spring (KS)-4)       1       257       Spring       -692       -12.37         NM       Budker Spring (KS)-1)       4       265       Spring       -12.48	NE	Ella Spring		1	251		-95.8	-12.56					
NE       Kershaw-Ryn Spring 11       1       250       Spring       -95.1       -13.11         NE       Sheep Spring (Clover)       1       13       Spring       -88.8       -12.0         NE       Unnamed Spring (Clover)       1       246       Spring       -88.8       -12.0         NE       Garden Spring       1       246       Spring       -88.0       -12.20         NW       Abandomad Spring       1       246       Spring       -88.0       -11.08         NW       Abandomad Spring       3       107       Spring       -88.2       -11.08         NW       Bradoed Spring       3       107       Spring       -88.2       -11.08         NW       Bradoed Spring       3       107       Spring       -82.2       -11.7         NW       Bradoed Spring       1       265       Spring       -96.2       -12.47         NW       Lower Indian Spring       1       267       Spring       -96.0       -12.30         NW       Narrow Cark Spring       1       265       Spring       -96.7       -12.63         NW       Willow Spring (NSV-1)       4       92       Spring       -12.64       -1				1									
NE       Sheep Spring (Clover)       2       108       Spring	NE	Kershaw-Rvan Spring #1		1	250		-95.1	-13.11					
NE       Unnamid Spring (Siver)       1       113       Spring				2									
NE       Unnamed Spring (Cover)       1       249       Spring       -82.0       -12.20         NE       Garden Spring       1       266       Spring       -87.0       -11.54         NW       Abandoned Spring       3       117       Spring       -88.2       -11.71         NW       Buckboard Spring       1       266       Spring       -88.2       -11.71         NW       Buckboard Spring (SV-4)       4       266       Spring       -88.2       -11.71         NW       Buckboard Spring (SV-4)       4       266       Spring       -88.2       -11.71         NW       Boulder Spring (SV-4)       4       266       Spring       -88.4       -12.36         NW       Lower Indian Spring       1       267       Spring       -98.4       -12.36         NW       Lower Indian Spring       1       267       Spring       -98.4       -12.30         NW       Red KSpring       1       266       Spring       -98.4       -12.30         NW       Red KSpring       1       256       Spring       -98.4       -11.60         NW       Wallow Spring (SV-1)       4       92       Spring       -98.4				1	113		-86.5						
NE       Garden Spring       1       246       Spring       -9.0       -11.54         NW       Abandmodel Spring       1       266       Spring       -94.5       -12.32         NW       Buckboard Spring       1       266       Spring       -96.9       -11.71         NW       Buckboard Spring       1       265       Spring       -96.9       -12.87         NW       Bishop Spring       3       107       Spring       -96.9       -12.87         NW       Boulder Spring       3       107       Spring       -96.9       -12.87         NW       Boulder Spring       1       261       Spring       -96.9       -12.47         NW       Lower Chokecherry Spring       1       267       Spring       -96.0       -12.62         NW       Claver Chokecherry Spring       1       256       Spring       -96.0       -12.30         NW       Red Rock Spring       1       256       Spring       -98.5       -12.26       -         NW       Sawmill Spring (Delamar Range)       1       258       Spring       -98.7       -12.26       -       -         NW       Gardock Spring       1       258				1									
NW       Abandoned Spring       1       286       Spring       -94.5       -12.32         NW       Buckboard Spring       1       266       Spring       -98.7       -11.08       Evaporated so not used in recharge calculation         NW       Buckboard Spring       1       265       Spring       -98.7       -11.02       Evaporated so not used in recharge calculation         NW       Buckboard Spring       1       265       Spring       -88.2       -11.71         NW       Boulder Spring       1       267       Spring       -87.2       -       -         NW       Lower Indian Spring       1       267       Spring       -98.2       -12.47       -       -       -         NW       Lower Indian Spring       1       257       Spring       -92.5       -12.47       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -				1									
NW       Grassy Spring       3       117       Spring       -88.7       -11.08 Evaporated so not used in recharge calculation         NW       Buckboard Spring       1       264       Spring       -88.2       -11.71         NW       Cottonwood Spring (Delamar)       1       265       Spring       -96.2       -11.72         NW       Boulder Spring (NSV-4)       4       98       Spring       -89.2       -11.72         NW       Boulder Spring (SV-4)       4       98       Spring       -89.2       -12.47         NW       Lower Chokecherry Spring       1       267       Spring       -96.0       -12.62         NW       Narrow Caryon Spring       1       257       Spring       -96.0       -12.62         NW       Arrow Caryon Spring       1       256       Spring       -96.0       -12.62         NW       Willow Spring (Clearanz Range)       1       258       Spring       -88.7       -12.58         NW       Sawmill Spring West       1       258       Spring       -88.7       -12.54         NW       Upper Chokecherry Spring       1       262       Spring       -87.7       -12.44         NW       Upper Riggs Spring WR4<				1									
NW       Buckbaard spring       1       264       Spring       -88.2       -11.7.1         NW       Cottonwood Spring (Delamar)       1       265       Spring       -87.2       -11.72         NW       Bishop Spring       3       107       Spring       -87.2       -11.72         NW       Boulder Spring (KSV-4)       4       98       Spring       -98.2       -12.47         NW       Lower Indian Spring       1       261       Spring       -96.0       -12.62         NW       Lower Indian Spring       1       267       Spring       -96.0       -12.62         NW       Narwer Red Rock Spring       1       266       Spring       -96.0       -12.62         NW       Narwer Red Rock Spring       1       266       Spring       -98.4       -11.60         NW       Sawmill Spring (Delamar Range)       1       258       Spring       -98.1       -12.54         NW       Upper Chokechertry Spring       1       260       Spring       -88.0       -11.69         NW       Upper Riges Spring (VR4       5       10       93       Spring       -87.0       -12.84         NW       Upper Riges Spring (Morman)       1 <td></td> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td>Evaporate</td> <td>d so not us</td> <td>sed in red</td> <td>charge (</td> <td>calculation</td>				3					Evaporate	d so not us	sed in red	charge (	calculation
NW       Cottonwood Spring (Delamar)       1       265       Spring       -96.9       -12.87         NW       Biokop Spring       3       107       Spring       -87.2       -11.72         NW       Boulder Spring (KSV-4)       4       98       Spring       -98.2       -12.47         NW       Lower Chokecherry Spring       1       261       Spring       -98.4       -12.98         NW       Lower Chokecherry Spring       1       257       Spring       -90.0       -12.87         NW       Narrow Canyon Spring       1       256       Spring       -90.0       -11.87         NW       Red Rock Spring       1       256       Spring       -98.8       -11.80         NW       Red Rock Spring       1       256       Spring       -98.7       -12.58         NW       Sawmill Spring (Delamar Range)       1       256       Spring       -98.8       -12.66         NW       Unnamed Chokecherry Spring       1       262       Spring       -98.9       -12.96         NW       Upper Indian Spring #1       260       Spring       -88.0       -11.46       -         SW       Upper Riggs Spring WPA       5       10				1	264							<b>J</b>	
NW       Bishop Spring       3       107       Spring       -87.2       -11.72         NW       Boulder Spring (KSV-4)       4       98       Spring       -89.2       -12.47         NW       Lower Chokecherry Spring       1       267       Spring       -98.4       -12.98         NW       Lower Chokecherry Spring       1       267       Spring       -92.5       -12.47         NW       Oak Spring       1       266       Spring       -90.0       -11.87         NW       Oak Spring (KSV-1)       4       92       Spring       -88.4       -11.60         NW       Sawmill Spring (VESV-1)       4       92       Spring       -88.7       -12.86         NW       Sawmill Spring West       1       256       Spring       -98.1       -12.86         NW       Unpare Chokecherry Spring       1       263       Spring       -98.1       -12.86         NW       Ulper Indian Spring WPA       5       106       Spring       -81.4       -11.95         SE       Davies Spring (KSV-2)       10       93       Spring       -80.0       -12.60         SE       Davies Spring (Korwan)       1       85       Spring		1 0		1									
NW       Boulder Spring (KSV-4)       4       98       Spring       -89.2       -12.47         NW       Lower Chokecherry Spring       1       261       Spring       -98.4       -12.98         NW       Lower Indian Spring       1       257       Spring       -90.6       -12.62         NW       Narrow Canyon Spring       1       256       Spring       -90.0       -11.87         NW       Red Rock Spring       1       256       Spring       -96.0       -12.50         NW       Red Rock Spring (NSV-1)       4       92       Spring       -88.4       -11.60         NW       Sawmill Spring (NSV-1)       4       92       Spring       -98.7       -12.58         NW       Sawmill Spring West       1       256       Spring       -98.9       -12.96         NW       Upper Chokecherry Spring       1       260       Spring       -98.9       -12.96         NW       Upper Right Spring (MSV-2)       10       93       Spring       -88.0       -11.46         NW       Upper Right Spring (MSV-2)       10       93       Spring       -89.0       -12.50         SE       Harker Spring (MSV-2)       10       93				3									
NW       Lower Chokechery Spring       1       281       Spring       -98.4       +12.98         NW       Lower Indian Spring       1       267       Spring       -96.0       -12.62       -         NW       Narrow Canyon Spring       1       267       Spring       -96.0       -12.62       -       -         NW       Oak Spring       1       268       Spring       -90.0       -11.87       -       -         NW       Oak Spring (KSV-1)       4       92       Spring       -88.4       -11.60       -       -       -         NW       Sawmill Spring (West       1       259       Spring       -88.7       -12.86       -       -       -         NW       Upper Chokechery Spring       1       263       Spring       -98.9       -12.86       -       -       -         NW       Upper Riges Spring VIR4       5       105       Spring       -98.9       -12.66       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -				4									
NW       Lower Indian Spring       1       267       Spring       -96.0       -12.62         NW       Narrow Canyon Spring       1       257       Spring       -92.5       -12.47         NW       Oak Spring       1       258       Spring       -90.0       -11.87         NW       Red Rock Spring       1       259       Spring       -98.4       -11.60         NW       Sawmill Spring (Delamar Range)       1       259       Spring       -88.4       -11.60         NW       Sawmill Spring (Delamar Range)       1       259       Spring       -98.1       -12.58         NW       Unnamed Chokechery Spring       1       258       Spring       -98.1       -12.64         NW       Upper Chokechery Spring       1       262       Spring       -98.0       -12.64         NW       Upper Indian Spring       1       260       Spring       -91.2       -11.69         NW       Upper Indian Spring       1       260       Spring       -88.0       -11.46         SW       Grapewine Spring (KSV-2)       10       93       Spring       -89.0       -12.50         SE       Hackberry Spring       1       87.7				1									
NW       Narrow Canyon Spring       1       257       Spring       -92.5       -12.47         NW       Oak Spring       1       268       Spring       -90.0       -11.87         NW       Red Rock Spring       1       226       Spring       -95.0       -12.30         NW       Willow Spring (KSV-1)       4       92       Spring       -88.7       -12.58         NW       Sawmill Spring Uest       1       258       Spring       -98.8       -12.56         NW       Unnamed Chokecherry Spring       1       263       Spring       -98.9       -12.96         NW       Upper Chokecherry Spring       1       263       Spring       -98.9       -12.96         NW       Upper Indian Spring       1       260       Spring       -91.2       -11.69         NW       Upper Indian Spring       1       268       Spring       -87.1       -11.95         SW       Grapevine Spring (KSV-2)       10       93       Spring       -87.1       -11.92         SE       Davies Spring       1       1       250       Spring       -12.30         Warm       EH-8 Weiser Wash       1       57       Well       -95.7 <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				1									
NW       Oak Spring       1       269       Spring       -90.0       -11.87         NW       Red Rock Spring       1       256       Spring       -95.0       -12.30         NW       Willow Spring (KSV-1)       4       92       Spring       -88.7       -12.58         NW       Sawmill Spring (Delamar Range)       1       258       Spring       -98.7       -12.58         NW       Sawmill Spring (Delamar Range)       1       258       Spring       -98.1       -12.54         NW       Unnamed Chokecherry Spring       1       260       Spring       -98.9       -12.96         NW       Upper Chokecherry Spring       1       260       Spring       -88.0       -11.46         NW       Upper Riggs Spring (KSV-2)       10       93       Spring       -87.1       -11.95         SE       Davies Spring (KSV-2)       10       93       Spring       -89.0       -12.50         SE       Hackberry Spring       1       84       Spring       -87.0       -12.30         Warm       EH-6 Weiser Wash       1       57       Weil       -95.7       -12.84       Weighted Average of Infterbasin flow from Garnet and Upper Moapa         Warm				1									
NW       Red Rock Spring       1       256       Spring       -95.0       -12.30         NW       Willow Spring (KSV-1)       4       92       Spring       -88.4       -11.60         NW       Sawmill Spring West       1       259       Spring       -88.4       -11.60         NW       Sawmill Spring West       1       258       Spring       -91.8       -12.86         NW       Unnamed Chokecherry Spring       1       263       Spring       -98.1       -12.54         NW       Upper Chokecherry Spring       1       260       Spring       -98.0       -11.69         NW       Upper Indian Spring       1       260       Spring       -88.0       -11.46         NW       Upper Indian Spring (KSV-2)       10       93       Spring       -88.0       -11.46         SE       Davies Spring (Morman)       1       85       Spring       -88.0       -11.46         SE       Hackberry Spring #1       1       90       Spring       -88.0       -12.50         SE       Hackberry Spring #1       1       250       Spring       -95.7       -12.84         Warm       EH-6 Weiser Wash       1       57       Well <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				1									
NW       Willow Spring (KSV-1)       4       92       Spring       -88.4       -11.60         NW       Sawmill Spring (Delamar Range)       1       259       Spring       -88.7       -12.58         NW       Sawmill Spring (West       1       258       Spring       -91.8       -12.54         NW       Unnamed Chokecherry Spring       1       262       Spring       -98.9       -12.96         NW       Upper Chokecherry Spring       1       260       Spring       -98.9       -12.96         NW       Upper Indian Spring       1       260       Spring       -98.0       -11.46         NW       Upper Indian Spring       1       268       Spring       -88.0       -11.46         NW       Upper Indian Spring       1       260       Spring       -87.4       -11.95         SW       Grapevine Spring (Morman)       1       85       Spring       -89.0       -12.50         SE       Horse Spring (Morman)       1       85       Spring       -89.1       -13.11       -95.7       -12.84       Weighted Average of Infterbasin flow from Garnet and Upper Moaps         Warm       EH-8 Weiser Wash       1       57       Weil       -95.7       -12				1									
NW       Sawmill Spring (Delamar Range)       1       259       Spring       -88.7       -12.58         NW       Sawmill Spring West       1       258       Spring       -91.8       -12.54         NW       Unnamed Chokecherry Spring       1       263       Spring       -98.9       -12.54         NW       Upper Chokecherry Spring       1       262       Spring       -98.9       -12.96         NW       Willow Spring 2 (So.of Oak Sps.summit)       1       260       Spring       -98.9       -12.96         NW       Upper Indian Spring       1       268       Spring       -88.0       -11.46         NW       Upper Riggs Spring WR4       5       105       Spring       -87.4       -11.95         SE       Davies Spring       1       90       Spring       -89.0       -12.30         SE       Horse Spring (Morman)       1       85       Spring       -95.7       -12.84       Weighted Average of Infterbasin flow from Garnet and Upper Moapu         Warm       Kershaw-Ryan Spring #1       1       250       Spring       -95.7       -12.84       Weighted Average of Infterbasin flow from Garnet and Upper Moapu         Warm       EH-8 Weiser Wash       1       57				4									
NW       Sawmill Spring West       1       258       Spring       -91.8       -12.86         NW       Unnamed Chokecherry Spring       1       263       Spring       -98.1       -12.54         NW       Upper Chokecherry Spring       1       260       Spring       -98.9       -12.96         NW       Upper Chokecherry Spring       1       260       Spring       -91.2       -11.69         NW       Upper Indian Spring       1       268       Spring       -98.0       -11.46         NW       Upper Riggs Spring (KSV-2)       10       93       Spring       -87.0       -12.50         SE       Davies Spring       1       90       Spring       -89.0       -12.50         SE       Horse Spring (Morman)       1       85       Spring       -90.0       -12.70         SE       Hackberry Spring #1       1       250       Spring       -95.7       -12.84       Weighted Average of Infterbasin flow from Garnet and Upper Moapa         Warm       EH-6 Weiser Wash       1       59       Well       -99.5       -13.90         Warm       EH-6 Weiser Wash       1       57       Well       -93.6       -12.60         ET       ET </td <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				1									
NW       Unnamed Chokecherry Spring       1       263       Spring       -98.1       -12.54         NW       Upper Chokecherry Spring       1       262       Spring       -98.9       -12.96         NW       Willow Spring 2 (So.of Oak Sps.summit)       1       268       Spring       -91.2       -11.69         NW       Upper Indias Spring       1       268       Spring       -87.1       -11.95         SW       Grapevine Spring (KSV-2)       10       93       Spring       -87.4       -11.92         SE       Davies Spring       1       85       Spring       -87.0       -12.50         SE       Hackberry Spring       1       84       Spring       -87.0       -12.30         Warm       Kershaw-Ryan Spring #1       1       250       Spring       -95.7       -12.84       Weighted Average of Infterbasin flow from Garnet and Upper Moapa         Warm       EH-8 Weiser Wash       1       57       Weil       -96.5       -13.70         ET       ET       21,900       -97.5       -12.60       -93.6       -12.60         206       GW Outflow (Loper Moapa)       4,000       -93.6       -12.60       -93.6       -12.60         218<				1									
NW       Upper Chokecherry Spring       1       262       Spring       -98.9       -12.96         NW       Willow Spring 2 (So.of Oak Sps.summit)       1       260       Spring       -91.2       -11.69         NW       Upper Indian Spring       1       268       Spring       -88.0       -11.46         NW       Upper Riggs Spring WR4       5       105       Spring       -87.4       -11.95         SW       Grapevine Spring (KSV-2)       10       93       Spring       -87.4       -11.92         SE       Davies Spring       1       90       Spring       -89.0       -12.50         SE       Hackberry Spring       1       84       Spring       -87.0       -12.30         Warm       EH-6 Weiser Wash       1       59       Well       -99.5       -13.90         Warm       EH-8 Weiser Wash       1       59       Well       -99.5       -13.90         Warm       EH-8 Weiser Wash       1       57       Well       -95.7       -12.60         ET       ET       21,900       -93.6       -12.60       -93.6       -12.60         206       GW Outflow (Upper Moapa)       4,000       -93.6       -12.60				1									
NW       Willow Spring 2 (So.of Oak Sps.summit)       1       260       Spring       -91.2       -11.69         NW       Upper Indian Spring       1       268       Spring       -88.0       -11.46         NW       Upper Riggs Spring WR4       5       105       Spring       -87.1       -11.95         SW       Grapevine Spring (KSV-2)       10       93       Spring       -87.4       -11.92         SE       Davies Spring       1       85       Spring       -89.0       -12.50         SE       Hackberry Spring       1       85       Spring       -89.0       -12.70         SE       Hackberry Spring #1       1       250       Spring       -91.1       -95.7       -12.84       Weighted Average of Infterbasin flow from Garnet and Upper Moapa         Warm       EH-6 Weiser Wash       1       59       Weil       -99.5       -12.84       Weighted Average of Infterbasin flow from Garnet and Upper Moapa         Warm       EH-6 Weiser Wash       1       59       Weil       -99.5       -12.60         ET       ET       21,900       -93.6       -12.60       -93.6       -12.60         206       GW Outflow (Upper Moapa)       4,000       -93.6       -12.6				1				-12.96					
NW       Upper Indian Spring       1       268       Spring       -88.0       -11.46         NW       Upper Riggs Spring WR4       5       105       Spring       -87.1       -11.95         SW       Grapevine Spring (KSV-2)       10       93       Spring       -87.4       -11.92         SE       Davies Spring (Morman)       1       90       Spring       -89.0       -12.50         SE       Horse Spring (Morman)       1       85       Spring       -89.0       -12.70         SE       Hackberry Spring       1       84       Spring       -87.0       -12.30         Warm       EH-6 Weiser Wash       1       59       Well       -99.5       -13.90         Warm       EH-8 Weiser Wash       1       57       Well       -96.5       -13.70         Alluvial Well       Railroad Well (Farrier, NV)       1       80       Well       -97.5       -12.60         206       GW Outflow (Upper Moapa)       4,000       -93.6       -12.60       -93.6       -12.60         218       GW Outflow (Lower Moapa)       0       -93.6       -12.60       -93.6       -12.60	NW			1	260		-91.2	-11.69					
NW       Upper Riggs Spring WR4       5       105       Spring       -87.1       -11.95         SW       Grapevine Spring (KSV-2)       10       93       Spring       -87.4       -11.92         SE       Davies Spring       1       90       Spring       -89.0       -12.50         SE       Horse Spring (Morman)       1       85       Spring       -89.0       -12.70         SE       Hackberry Spring       1       84       Spring       -87.1       -11.31         SE       Hackberry Spring #1       1       250       Spring       -95.7       -12.84       Weighted Average of Infterbasin flow from Garnet and Upper Moapa         Warm       EH-8 Weiser Wash       1       59       Well       -99.5       -13.90         Warm       EH-8 Weiser Wash       1       57       Well       -99.5       -12.60         Alluvial Well       Railroad Well (Farrier, NV)       1       80       Well       -97.5       -12.60         206       GW Outflow (Upper Moapa)       4,000       -93.6       -12.60       -93.6       -12.60         218       GW Outflow (Lower Moapa)       0       -93.6       -12.60       -93.6       -12.60				1									
SW       Grapevine Spring (KSV-2)       10       93       Spring       -87.4       -11.92         SE       Davies Spring       1       90       Spring       -89.0       -12.50         SE       Horse Spring (Morman)       1       85       Spring       -89.0       -12.70         SE       Hackberry Spring       1       84       Spring       -87.0       -12.30         Warm       Kershaw-Ryan Spring #1       1       250       Spring       -95.1       -13.11       -95.7       -12.84       Weighted Average of Infterbasin flow from Garnet and Upper Moapa         Warm       EH-6 Weiser Wash       1       57       Well       -99.5       -13.90         Warm       EH-8 Weiser Wash       1       57       Well       -99.5       -12.60         Alluvial Well       Railroad Well (Farrier, NV)       1       80       Well       -97.5       -12.60         206       GW Outflow (Upper Moapa)       4,000       -93.6       -12.60       -93.6       -12.60         218       GW Outflow (Lower Moapa)       0       -93.6       -12.60       -93.6       -12.60	NW			5	105		-87.1	-11.95					
SE       Davies Spring       1       90       Spring       -89.0       -12.50         SE       Horse Spring (Morman)       1       85       Spring       -89.0       -12.70         SE       Hackberry Spring       1       84       Spring       -87.0       -12.30         Warm       Kershaw-Ryan Spring #1       1       250       Spring       -95.1       -13.11       -95.7       -12.84       Weighted Average of Infterbasin flow from Garnet and Upper Moapa         Warm       EH-6 Weiser Wash       1       57       Well       -95.5       -13.90         Warm       EH-8 Weiser Wash       1       57       Well       -96.5       -13.70         Alluvial Well       Railroad Well (Farrier, NV)       1       80       Well       -97.5       -12.60         206       GW Outflow (Upper Moapa)       4,000       -93.6       -12.60       -93.6       -12.60         218       GW Outflow (Lower Moapa)       0       -93.6       -12.60       -93.6       -12.60					93								
SE       Horse Spring (Morman)       1       85       Spring       -89.0       -12.70         SE       Hackberry Spring       1       84       Spring       -87.0       -12.30         Warm       Kershaw-Ryan Spring #1       1       250       Spring       -95.1       -13.11       -95.7       -12.84       Weighted       Average of Infterbasin flow from Garnet and Upper Moapa         Warm       EH-6 Weiser Wash       1       59       Weil       -99.5       -13.90       -       -12.84       Weighted       Average of Infterbasin flow from Garnet and Upper Moapa         Warm       EH-8 Weiser Wash       1       57       Weil       -99.5       -13.90       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -<				1									
SEHackberry Spring184Spring-87.0-12.30WarmKershaw-Ryan Spring #11250Spring-95.1-13.11-95.7-12.84Weighted Average of Infterbasin flow from Garnet and Upper MoapaWarmEH-6 Weiser Wash159Well-99.5-13.90-12.84Weighted Average of Infterbasin flow from Garnet and Upper MoapaWarmEH-8 Weiser Wash157Well-96.5-13.70-12.60Alluvial WellRailroad Well (Farrier, NV)180Well-97.5-12.60ETET21,90093.6-12.60206GW Outflow (Upper Moapa)4,00093.6-12.60218GW Outflow (Lower Moapa)0218GW Outflow (Lower Moapa)0				1									
WarmKershaw-Ryan Spring #11250Spring-95.1-13.11-95.7-12.84WeightedAverage of Infterbasin flow from Garnet and Upper MoapaWarmEH-6 Weiser Wash159Well-99.5-13.90				1									
Warm       EH-6 Weiser Wash       1       59       Well       -99.5       -13.90         Warm       EH-8 Weiser Wash       1       57       Well       -96.5       -13.70         Alluvial Well       Railroad Well (Farrier, NV)       1       80       Well       -97.5       -12.50         ET       ET       ET       21,900       -93.6       -12.60       -93.6       -12.60         206       GW Outflow (Upper Moapa)       4,000       -93.6       -12.60       -93.6       -12.60         218       GW Outflow (Lower Moapa)       0       -93.6       -12.60       -93.6       -12.60				1					-95.7	-12.84 V	Veiahtea	d Avera	age of Infterbasin flow from Garnet and Upper Moapa Vall
Warm         EH-8 Weiser Wash         1         57         Well         -96.5         -13.70           Alluvial Well         Railroad Well (Farrier, NV)         1         80         Well         -97.5         -12.50         F           ET         ET         21,900         -93.6         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60         -12.60		EH-6 Weiser Wash		1							<b>.</b>		-9
Alluvial Well       Railroad Well (Farrier, NV)       1       80       Well       -97.5       -12.50       1         ET       ET       21,900       -93.6       -12.60       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1				1									
ET         ET         21,900         -93.6         -12.60           206         GW Outflow (Upper Moapa)         4,000         -93.6         -12.60           218         GW Outflow (California Wash)         5,200         -93.6         -12.60           218         GW Outflow (Lower Moapa)         0         -93.6         -12.60				1									
206       GW Outflow (Upper Moapa)       4,000       -93.6       -12.60         218       GW Outflow (California Wash)       5,200       -93.6       -12.60         218       GW Outflow (Lower Moapa)       0       -93.6       -12.60		and the second	21,900						-93.6	-12.60			
218       GW Outflow (California Wash)       5,200       -93.6       -12.60         218       GW Outflow (Lower Moapa)       0       -93.6       -12.60													
218 GW Outflow (Lower Moapa) 0 -93.6 -12.60													
	218	SW Outflow (California Wash)	Ő						-93.6	-12.60			

Arce-dyr Samples         Type         8D         8180         8D         8180           XXXXX         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX											
gion         Name         Volume         # of         Site         Site         Obs.         Obs.         Obs.         Obs.         Cale.         Cale .         Cale . <th></th> <th></th> <th></th> <th></th> <th>RCASS</th> <th>SNWA 200</th> <th>17: Welch ar</th> <th>nd Bright</th> <th>2007)</th> <th></th> <th></th>					RCASS	SNWA 200	17: Welch ar	nd Bright	2007)		
Arce-ftyr Samples         Type         6D         8180         8D         8180           XXXXXX         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Region	Name						-		Calc.	IC
5         Long Valley           5 SE         Butte Mm. (S)         2.673        119.6         -15.53         35           5 SW         Alligator Rdg.         3.664        122.4         -15.96         36           5 NW         Butte Mm. (N)         3.224         -112.2         -15.36         186           5 NW         Butte Mm. (N)         3.224         -112.2         -15.36         186           6 NW         Butte Mm. (N)         3.224         -15.90         366         186           7 Total Recharge         21,000         -122.4         -15.79         180         186           Robbers Root at 2 Spring (Butte)         1         327         Spring -124.4         -15.91           Der Spring (Butte)         1         323         Spring -124.5         16.94           Mud Spring (Cutte)         1         333         Spring -110.2         16.94           V         Mud Spring (Cutte)         1         243         Yuell         -122.4         -15.96           Worldow Means         1         265         Spring -110.2         -15.36         -122.4         -15.96           Worldow (Newark)         0         -122.4         -15.96         -122.4         -15.96											
5 E         Butte Mn, (S)         2.673         119.6         15.53         35           5 W         Allgator Rdg,         3.664         122.4         15.96         36           5 W         Butte Mn, (N)         3.224         119.6         15.53         37           5 NE         Butte Mn, (N)         3.224         119.2         15.36         164           5 NE         Butte Spring         1         327         Spring         1.224         15.96         164           Butte Spring         1         328         Spring         1.224         15.96         164           Butte Spring         1         328         Spring         1.224         15.36         164           Workshow Note:         1         323         Spring         1.444         15.89         1.244         1.536           Workshow Note:         1         323         Spring         1.625         1.675         1.704         1.515         1.704         1.515         1.704         1.521         1.704         1.523         1.704         1.524         1.526         1.724         1.536         1.724         1.536         1.724         1.536         1.724         1.536         1.724         1.536	XXXXXXXX	*****	XXXXXXXX	XXXXXXXX	(KXXXX)	XXXXXXXXX	(XXXXXXX)	XXXXXX	XXXXXX	XXXXXX	XXXXXX
5 E         Butte Min. (s)         2.673         -119.6         -15.53         35           5 W         Alligator Ridg.         3.664         -122.4         -15.96         36           5 W         Butte Min. (N)         3.224         -119.2         -15.36         164           5 NE         Butte Spring         1         327         Spring         -122.4         -15.96         164           6 Butte Spring         1         328         Spring         -122.4         -15.96         164           7 Butte Spring         1         328         Spring         -122.4         -15.96         164           9 Butte Spring         1         328         Spring         -124.4         -15.96         164           9 Butte Spring         1         328         Spring         -17.04         165         164           9 Mud Spring (Butte)         1         324         Spring         -17.04         165.0         17.04           9 Wondchuck Spring         1         355         Spring         -17.04         122.4         -15.96           10 Unnamed Near Life Wilow Spring         1         355         Spring         -122.4         -15.96           10 Wondchuck Spring (Butte)	175	Long Valley									
SW         Alligator Rdg. SW         3.664         -122.4         -15.96         36           SW         Butte Mm. (N)         3.224         -119.2         -15.36         164           Total Recharge         21,000         -722.4         -15.96         164           Butte Spring         1         327         Spring         -120.4         -15.79           Cabin Spring         1         328         Spring         -120.4         -15.89           Butte Spring         1         328         Spring         -141.4         -14.79           Deer Spring (Butte)         1         332         Spring         -15.21         -15.94           Thriny Mile Spring         1         244         Spring         -15.23         -15.94           Well at Allignter Ridge         1         243         Spring         -15.24         -15.96           Well at Allignter Ridge         1         256         Spring         -15.25         -15.24         -15.96           Woodchuck Spring         1         256         Spring         -15.24         -15.96           Woodchuck Spring         1         355         Spring         -15.25         -15.26           Woodtrider (Newark) <td< td=""><td>0</td><td>Inflow (None)</td><td>0</td><td></td><td></td><td></td><td>0.0</td><td>0.00</td><td></td><td></td><td></td></td<>	0	Inflow (None)	0				0.0	0.00			
5 NW         Maximick Springs         11.435         -123.9         162.3         37           5 NE         Butte MM, (N)         3.224         -119.2         15.36         184           7 total Recharge         21,000         -122.4         -15.36         184           Butte Spring         1         327         Spring         -122.4         -15.39           Cabin Spring         1         330         Spring         -122.4         -15.39           Summi Spring         1         348         Spring         -122.4         -15.40           Mutte Spring         1         242         Spring         -122.5         -15.71           Warm Res. Wit Spring         1         244         Wall         -122.4         -15.96           With Rock Spring Butte Witow         1         351         Spring         -122.4         -15.96           Withe Rock Spring Butte Witow         0         -122.4         -15.96         -122.4         -15.96           Withe Rock Spring Butte Witow         1         355         Spring         -122.4         -15.96           Withe Rock Spring Butte         1         350         Spring         -122.4         -15.96           Wite All apper Spring Butte W	175 SE	Butte Mtn. (S)	2,673				-119.6	-15.53			35
5 NE         Butte Mmi, (M)         3.224         -1192         11936         164           Total Recharge         21,000         -1224         -15.36         164           Butte Spring         1         327         Spring         -1224         -15.69           Cabin Spring         1         338         Spring         -1424         -16.89           Deer Spring (Butte)         1         332         Spring         -1424         -16.89           Summt Spring         1         248         Spring         -126.0         -16.40           V         Mud Spring (Butte)         1         333         Spring         -118.6         -16.75           V         Ram. Res. VIT Supply Well         1         243         Well         -122.9         -17.60           V         Woodchuck Spring         1         355         Spring         -118.6         -15.55           With Rock Spring (Butte)         1         350         -122.4         -15.96         -122.4         -15.96           ET         1.200         -122.4         -15.96         -122.4         -15.96           V         With Rock Spring         19.800         -122.4         -15.96         -122.4         -15.	175 SW										
Total Recharge         21,000         -122.4         -15.66           Butts Spring         1         328         Spring         -124.4         -15.79           Cabin Spring         1         328         Spring         -124.4         -15.79           Robbers Rost 32 Spring         1         330         Spring         -143.4         -143.9           Der Spring (Butts)         1         332         Spring         -142.4         -147.4           Summit Spring         1         242         Spring         -125.5         -16.40           Widd Spring (Butts)         1         339         Spring         -122.4         -15.21           Widd Spring (Butts)         1         335         Spring         -122.4         -15.96           Wind Analyzon Rigge         1         243         Wall         -112.4         -15.96           Wind Rock Spring (Butts)         1         355         Spring         -112.4         -15.96           Wind Rock Spring (Butts)         1         355         Spring         -122.4         -15.96           Woodchuck Spring         1         356         Spring         -122.4         -15.96           KXXXXX         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	175 NW										
Butte Spring         1         327         Spring         -12.4         -15.79           Cabin Spring         1         328         Spring         -12.4         -15.89           Robbers Roost #2 Spring (Butte)         1         332         Spring         -12.04         -15.89           Deer Spring (Butte)         1         332         Spring         -12.08         -15.94           Y         Mud Spring (Butke)         1         339         Spring         -12.08         -16.40           Y         Ram. Res. Wir Supply Well         1         242         Spring         -12.53         -17.04           Y         Woodchuck Spring         1         336         Spring         -119.6         -15.55           White Rock Spring (Butte)         1         355         Spring         -119.2         -15.36           W Woodchuck Spring         1         366         Spring         -119.2         -15.36           White Rock Spring (Butte)         1         355         Spring         -119.2         -15.36           W Woodchuck XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	175 NE										164
Cabin Spring         1         328         Spring         -124.4         -15.89           Robber Root #2 Spring (Butle)         1         332         Spring         -114.1         -14.39           Deer Spring (Butle)         1         332         Spring         -124.8         -15.94           Thrity Mile Spring         1         242         Spring         -126.0         -16.40           Max Res. WT Supply Well         1         244         Well         -125.5         -16.75           Unnamed Near Little Willow Spring         1         331         Spring         -122.4         -15.86           Well at Alligator Ridge         1         243         Well         -122.4         -15.86           What Rock Spring (Butle)         1         355         Spring         -15.56           Wink Rock Spring (Butle)         1         355         Spring         -15.36           ET         1,200         -122.4         -15.96         -122.4         -15.96           XXXXXX         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	TR		21,000		207	Onvine					
Robbers Root #2 Spring (Butte)       1       340       Spring       -112.0       -14.39         Deer Spring (Butte)       1       332       Spring       -120.8       -15.94         Mud Spring (Buck Mis)       1       339       Spring       -120.8       -16.40         V       Mad Spring (Buck Mis)       1       339       Spring       -120.8       -16.40         V       Ram. Res. Wir Supply Well       1       244       Well       -122.59       -17.04         V       Woodchuck Spring       1       355       Spring       -119.6       -15.56         Wile Rock Spring (Butte)       1       355       Spring       -119.2       -15.36         ET       1.200       -122.4       -15.96       -122.4       -15.96         4       GW Outflow (Jakes)       19.800       -122.4       -15.36         5       Inflow (Long)       19.800       -122.4       -15.36         4       Jakes Valley       -118.4       -15.31       33         5       Inflow (Long)       19.800       -122.4       -15.96         4       Jakes Valley       -118.4       -15.31       33         5       Inflow (Long)       19.800 </td <td>SE</td> <td></td>	SE										
Deer Spring (Burle)         1         332         Spring         -114.1           Summit Spring         1         338         Spring         -120.8         -15.94           Thiny Mile Spring         1         339         Spring         -186.0         -16.40           Ward Spring (Burle)         1         339         Spring         -170.6         -15.21           Ward Spring (Burle)         1         344         Weil at Allager Ardge         1         243         Weil at Allager Ardge         -170.6         -15.55           What Algaring (Burle)         1         365         Spring         -15.56         -122.4         -15.96           Woodchuck Spring         1         365         Spring         -15.56         -122.4         -15.96           W Woodchuck Spring         1         365         Spring         -122.4         -15.96           XXXXX         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	SE SE										
Summit Spring         1         348         Spring         -122.8         -16.40           Mud Spring (Buck Mts)         1         339         Spring         -176.6         -16.40           Mud Spring (Buck Mts)         1         339         Spring         -177.6         -15.21           Mummed Near Life Wildow Spring         1         324         Well         -122.9         -17.04           Well at Alligator Ridge         1         243         Well         -122.0         -16.60           Woodchuck Spring         1         355         Spring         -119.6         -15.55           White Rock Spring (Bute)         1         355         Spring         -119.2         -15.36           ET         1,200         -122.4         -15.96         -122.4         -15.96           KXXXXX         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	SE										
Thirty Mile Spring         1         242         Spring         -16.40           W         Mud Spring (Buck Mits)         1         339         Spring         -117.6         -15.21           W         Ram. Res. Wit Supply Well         1         244         Well         -122.5         -16.75           W         Unnamed Near Little Willow Spring         1         356         Spring         -15.29         -17.04           W         Well at Alligator Ridge         1         336         Spring         -119.6         -15.55           White Rock Spring (Butte)         1         356         Spring         -119.6         -15.56           ET         1,200         -122.4         -15.96         -122.4         -15.96           KXXXXX         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	SE										
Mud Spring (Buck Was)       1       339       Spring       -117.6       -15.21         Ram. Res. Wir Supply Well       1       244       Well       -129.5       -16.75         Unnamed Near Little Wilcow Spring       1       235       Spring       -112.6       -15.55         Well       1.27.0       -16.60       -15.55       -16.75         White Rock Spring (Bute)       1       355       Spring       -119.2       -15.36         ET       1,200       -122.4       -15.96       -122.4       -15.96         XXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	SE										
V       Ram.Res. Wir Supply Well       1       244       Well       -122.5       -16.75         V       Unnamed Near Little Willow Spring       1       351       Spring       -122.5       -17.04         V       Well at Alligator Ridge       1       243       Well       -122.0       -16.60         V       Woodchuck Spring       1       356       Spring       -118.6       -15.56         ET       1,200       -122.4       -15.96       -122.4       -15.96         GW Outflow (Newark)       0       -122.4       -15.96         XXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	NW			1							
V         Unnamed Near Little Wildew Spring         1         351         Spring         -125.9         -17.04           V         Well at Alligator Ridge         1         243         Well         -122.0         -16.60           Woodchuck Spring         1         355         Spring         -118.6         -15.55           White Rock Spring (Butte)         1         355         Spring         -119.2         -15.36           ET         1,200         -122.4         -15.96         -122.4         -15.96           4         GW Outflow (Newark)         0         -122.4         -15.96           XXXXXX         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	NW			1							
Woodchuck Spring       1       356       Spring       -119.6       -16.5.55         White Rock Spring (Butte)       1       355       Spring       -119.2       -15.36         ET       1,200       -122.4       -15.96       -122.4       -15.96         4       GW Outflow (Newark)       0       -122.4       -15.96         4       GW Outflow (Jakes)       19,800       -122.4       -15.96         XXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	NW			1							
White Rock Spring (Butte)         1         355         Spring         -119.2         -15.36           ET         1,200         -122.4         -15.96           GW Outflow (Newark)         0         -122.4         -15.96           XXXXX         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	NW	Well at Alligator Ridge		1	243	Well	-127.0	-16.60			
ET         1,200         -122.4         -15.96           4         GW Outflow (Newark)         0         -122.4         -15.96           XXXXXX         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	NW										
4       GW Outflow (Newark) GW Outflow (Jakes)       0       -122.4       -15.96         4       GW Outflow (Jakes)       19,800       -122.4       -15.96         XXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	NE			1	355	Spring	-119.2	-15.36			
4         GW Outflow (Jakes)         19,800         -122.4         -15.96           XXXXXX         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ET										
XXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	54										
4         Jakes Valley           5         Inflow (Long)         19,800         -122.4         -15.96           4 E         Egan Range         2,909         -118.4         -15.31         33           4 W         North White Pine         10,076         -120.3         -15.83         34           4 W         North White Pine         10,076         -118.3         -15.71         34           7 Otal Recharge         13,000         -119.9         -15.71         34           7 Aspen Springs North         1         349         Spring         -120.3         -16.02           Chicken Spring         1         330         Spring         -122.0         -16.17           Circle Wash Spring         1         342         Spring         -123.0         -16.20           Chicken Spring         1         342         Spring         -123.0         -16.20           Sage Hen Spring         1         344         Spring         -123.0         -16.20           Sheilback Spring         1         350         Spring         -123.6         -16.18           Unnamed Hayden Carbon Spring         2         354         Spring         -123.6         -16.18           Widl Horse	174	GW Outflow (Jakes)	19,800						-122.4	-15.96	
5       Inflow (Long)       19,800       -122.4       -15.96         4 E       Egan Range       2,909       -118.4       -15.31       33         4 W       North White Pine       10,076       -120.3       -15.83       34         V       Tunnel Spring       1       366       Spring       -119.9       -15.71         V       Tunnel Spring       1       366       Spring       -120.9       -16.02         Chicken Springs North       1       324       Spring       -122.0       -16.17         Chicken Spring       1       330       Spring       -122.0       -16.17         Chicken Spring       1       331       Spring       -122.4       -14.76         Sage Hen Spring       1       332       Spring       -122.4       -16.70         Sade Spring       1       342       Spring       -122.4       -16.70         Unnamed Shelback Spring       1       342       Spring       -120.9       -16.20         Unnamed Shelback Ridge Spring       1       350       Spring       -122.9       -15.69         Unnamed Shelback Ridge Spring       1       343       Spring       -112.2       -15.30         <	xxxxxxx	****	XXXXXXXXX	xxxxxxx	«XXXXX»	xxxxxxxx	<b>XXXXXXX</b>	XXXXXX	XXXXXX	XXXXXX	XXXXXX
5       Inflow (Long)       19,800       -122.4       -15.96       33         4 E       Egan Range       2,909       -118.4       -15.31       33         4 W       North White Pine       10,076       -120.3       -15.83       34         V       Tunnel Spring       1       366       Spring       -119.9       -15.71         V       Tunnel Spring       1       349       Spring       -120.9       -16.02         Aspen Springs North       1       324       Spring       -122.0       -16.17         Circle Wash Spring       1       331       Spring       -122.0       -16.17         Circle Wash Spring       1       342       Spring       -122.4       -14.76         Sage Hen Spring       1       342       Spring       -122.4       -16.70         Unnamed Shelback Spring       1       342       Spring       -120.9       -16.20         Unnamed Shelback Ridge Spring       1       350       Spring       -122.4       -16.54         Unnamed Shelback Ridge Spring       1       350       Spring       -122.9       -15.69         Unnamed Shelback Ridge Spring       1       343       Spring       -112.2											
4 E       Egan Range       2,909       -118.4       -15.31       33         4 W       North White Pine       10,076       -120.3       -15.83       34         V       Tunnel Spring       1       366       Spring       -118.3       -15.02         V       Tunnel Spring       1       366       Spring       -118.3       -15.02         Aspen Springs North       1       349       Spring       -118.3       -15.02         Aspen Springs South       1       324       Spring       -118.3       -15.02         Chicken Spring       1       330       Spring       -118.3       -15.02         Chicken Spring       1       330       Spring       -118.4       -14.64         Sage Hen Spring       1       330       Spring       -120.3       -16.17         Circle Wash Spring       1       342       Spring       -114.5       -15.30         Sage Hen Spring       1       344       Spring       -112.6       -16.20         Shellback Spring       1       350       Spring       -123.6       -16.18         Unnamed Shelback Ridge Spring       1       352       Spring       -116.2       -15.39 <tr< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr<>											
4 W       North White Pine       10,076       -120.3       -15.83       34         Total Recharge       13,000       -119.9       -15.71         V       Tunnel Spring       1       366       Spring       -118.3       -15.02         Aspen Springs North       1       349       Spring       -110.3       -15.84         Aspen Springs South       1       324       Spring       -120.9       -16.02         Chicken Spring       1       330       Spring       -122.0       -16.17         Circle Wash Spring       1       331       Spring       -122.0       -16.17         Circle Wash Spring       1       342       Spring       -123.0       -16.20         Sage Hen Spring       1       344       Spring       -123.0       -16.20         Shellback Spring       1       352       Spring       -123.6       -16.18         Unnamed Shellback Ridge Spring       1       352       Spring       -112.4       -15.30         Unnamed Store Cabin Spring       2       354       Spring       -116.2       -15.30         Upper Illipah Crk       2       238       Surface       -123.5       -16.10       Surface Water not included in	74	Jakes Valley									
Total Recharge         13,000         -119.9         -15.71           V         Tunnel Spring         1         366         Spring         -118.3         -15.02           Aspen Springs North         1         349         Spring         -119.9         -16.02           Aspen Springs South         1         324         Spring         -120.9         -16.02           Chicken Spring         1         330         Spring         -122.0         -16.17           Circle Wash Spring         1         331         Spring         -112.4         -14.76           Sand Spring         1         239         Spring         -123.0         -16.20           Shellback Spring         1         344         Spring         -123.6         -16.54           Unnamed Hayden Canyon Spring         1         350         Spring         -129.0         -16.80           Unnamed Stole Cabin Spring         1         240         Spring         -128.0         -16.18           Wild Horse Spring (White Pine)         1         240         Spring         -116.2         -15.31           E         Indian Spring (Butte)         1         343         Spring         -117.6         -15.30           Upper Il	175	Inflow (Long)									
V       Tunnel Spring       1       366       Spring       -118.3       -15.02         Aspen Springs North       1       349       Spring       -119.3       -15.84         Aspen Springs South       1       324       Spring       -120.9       -16.02         Chicken Spring       1       330       Spring       -120.9       -16.17         Circle Wash Spring       1       331       Spring       -112.4       -14.76         Sage Hen Spring       1       342       Spring       -123.0       -16.20         Sadd Spring       1       342       Spring       -123.0       -16.20         Sadd Spring       1       344       Spring       -123.0       -16.20         Unnamed Hayden Canyon Spring       1       350       Spring       -120.9       -15.69         Unnamed Stollback Ridge Spring       1       352       Spring       -120.9       -16.80         Unnamed Stoine Cabin Spring       2       354       Spring       -110.9       -15.31         E       Indian Spring (Butte)       1       343       Spring       -117.6       -15.30         Upper Illipah Crk       2       238       Surface       -121.4       <	<b>175</b> 174 E	<b>Inflow (Long)</b> Egan Range	2,909				-118.4	-15.31			
Aspen Springs North       1       349       Spring       -119.3       -15.84         Aspen Springs South       1       324       Spring       -120.9       -16.02         Chicken Spring       1       330       Spring       -122.0       -16.17         Circle Wash Spring       1       331       Spring       -112.4       -14.76         Sage Hen Spring       1       342       Spring       -112.4       -14.76         Sand Spring       1       342       Spring       -112.4       -14.76         Sand Spring       1       239       Spring       -123.0       -16.20         Shellback Spring       1       345       Spring       -123.6       -16.54         Unnamed Hayden Canyon Spring       1       352       Spring       -123.6       -16.18         Wild Horse Spring (White Pine)       1       240       Spring       -116.20       -15.39         Unnamed Stone Cabin Spring       2       354       Spring       -116.2       -15.30         Unnamed Stone Cabin Spring       1       343       Spring       -117.6       -15.30         Upper Illipah Crk       2       238       Surface       -123.5       -16.10       S	<b>175</b> 174 E 174 W	<b>Inflow (Long)</b> Egan Range North White Pine	2,909 10,076				-118.4 -120.3	-15.31 -15.83			
Aspen Springs South       1       324       Spring       -120.9       -16.02         Chicken Spring       1       330       Spring       -122.0       -16.17         Circle Wash Spring       1       331       Spring       -124.5       -15.30         Sage Hen Spring       1       342       Spring       -112.4       -14.76         Sand Spring       1       239       Spring       -123.0       -16.20         Shellback Spring       1       249       Spring       -123.6       -16.54         Unnamed Hayden Canyon Spring       1       350       Spring       -129.9       -15.69         Unnamed Stone Cabin Spring       2       354       Spring       -129.0       -16.80         Unnamed Stone Cabin Spring       2       354       Spring       -112.2       -15.39         E       Indian Spring (Butte)       1       343       Spring       -112.4       -15.71         E       Sammy Spring       1       343       Spring       -112.5       -16.10       Surface Water not included in         ET       900       -123.5       -16.10       Surface Water not included in       -119.9       -15.71         CW Outflow (NWRV)       3	<b>175</b> 174 E 174 W <b>TR</b>	Inflow (Long) Egan Range North White Pine Total Recharge	2,909 10,076	4	200	Contine	-118.4 -120.3 <b>-119.9</b>	-15.31 -15.83 <b>-15.71</b>			
Chicken Špring       1       330       Špring       -122.0       -16.17         Circle Wash Spring       1       331       Špring       -114.5       -15.30         Sage Hen Spring       1       342       Spring       -112.4       -14.76         Sand Spring       1       239       Spring       -123.0       -16.20         Shellback Spring       1       344       Spring       -120.0       -16.54         Unnamed Hayden Canyon Spring       1       350       Spring       -120.0       -16.18         Wild Horse Spring (White Pine)       1       240       Spring       -16.80         Unnamed Stone Cabin Spring       2       354       Spring       -116.2       -15.39         E       Indian Spring (Butte)       1       343       Spring       -116.2       -15.30         E       Sammy Spring       1       343       Spring       -117.6       -15.30         The Port Crick       2       238       Surface       -121.4       -15.86         XXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	<b>175</b> 174 E 174 W <b>TR</b> NW	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring	2,909 10,076				-118.4 -120.3 <b>-119.9</b> -118.3	-15.31 -15.83 <b>-15.71</b> -15.02			
Circle Wash Spring         1         331         Spring         -114.5         -15.30           Sage Hen Spring         1         342         Spring         -112.4         -14.76           Sand Spring         1         239         Spring         -123.0         -16.20           Shellback Spring         1         344         Spring         -123.6         -16.54           Unnamed Hayden Canyon Spring         1         350         Spring         -123.6         -16.54           Unnamed Shellback Ridge Spring         1         352         Spring         -123.6         -16.18           Wild Horse Spring (White Pine)         1         240         Spring         -116.2         -15.39           E         Indian Spring (Butte)         1         334         Spring         -116.2         -15.30           Upper Illipah Crk         2         238         Surface         -123.5         -16.10         Surface Water not included in           ET         900         -119.9         -15.71         -121.4         -15.86           XXXXXX         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	<b>175</b> 174 E 174 W <b>TR</b> NW W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North	2,909 10,076	1	349	Spring	-118.4 -120.3 <b>-119.9</b> -118.3 -119.3	-15.31 -15.83 <b>-15.71</b> -15.02 -15.84			
Sage Hen Spring       1       342       Spring       -112.4       -14.76         Sand Spring       1       239       Spring       -123.0       -16.20         Shellback Spring       1       344       Spring       -123.6       -16.54         Unnamed Hayden Canyon Spring       1       350       Spring       -123.6       -16.54         Unnamed Shellback Ridge Spring       1       352       Spring       -123.6       -16.18         Wild Horse Spring (White Pine)       1       240       Spring       -116.20       -16.80         Unnamed Stone Cabin Spring       2       354       Spring       -116.2       -15.39         E       Indian Spring (Butte)       1       334       Spring       -116.2       -15.30         Upper Illipah Crk       2       238       Surface       -123.5       -16.10 Surface Water not included in         ET       900       -119.9       -15.71       -121.4       -15.86         XXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	175 174 E 174 W TR NW W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South	2,909 10,076	1	349 324	Spring Spring	-118.4 -120.3 <b>-119.9</b> -118.3 -119.3 -120.9	-15.31 -15.83 <b>-15.71</b> -15.02 -15.84 -16.02			
Sand Spring       1       239       Spring       -123.0       -16.20         Shellback Spring       1       344       Spring       -123.6       -16.54         Unnamed Hayden Canyon Spring       1       350       Spring       -120.9       -15.69         Unnamed Shellback Ridge Spring       1       352       Spring       -123.6       -16.18         Wild Horse Spring (White Pine)       1       240       Spring       -129.0       -16.80         Unnamed Stone Cabin Spring       2       354       Spring       -116.2       -15.39         E       Indian Spring (Butte)       1       334       Spring       -119.1       -15.31         E       Sammy Spring       1       343       Spring       -117.6       -15.30         Upper Illipah Crk       2       238       Surface       -123.5       -16.10 Surface Water not included in         ET       900       -119.9       -15.71       -121.4       -15.86         XXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	<b>175</b> 174 E 174 W <b>TR</b> NW W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring	2,909 10,076	1 1 1	349 324 330	Spring Spring Spring	-118.4 -120.3 <b>-119.9</b> -118.3 -119.3 -120.9 -122.0	-15.31 -15.83 <b>-15.71</b> -15.02 -15.84 -16.02 -16.17			
Shellback Spring       1       344       Spring       -123.6       -16.54         Unnamed Hayden Canyon Spring       1       350       Spring       -120.9       -15.69         Unnamed Shellback Ridge Spring       1       352       Spring       -123.6       -16.18         Wild Horse Spring (White Pine)       1       240       Spring       -123.6       -16.18         Unnamed Stone Cabin Spring       2       354       Spring       -116.2       -15.39         E       Indian Spring (Butte)       1       343       Spring       -116.1       -16.18         Upper Illipah Crk       2       238       Surface       -15.30       -16.10       Surface Water not included in         ET       900       -119.9       -15.71       -16.10       Surface Water not included in         ET       900       -121.4       -15.86       -121.4       -15.86         XXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	175 174 E 174 W TR W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring	2,909 10,076	1 1 1 1	349 324 330 331	Spring Spring Spring Spring	-118.4 -120.3 -119.9 -118.3 -119.3 -120.9 -122.0 -114.5	-15.31 -15.83 <b>-15.71</b> -15.02 -15.84 -16.02 -16.17 -15.30			
Unnamed Shellback Ridge Spring       1       352       Spring       -123.6       -16.18         Wild Horse Spring (White Pine)       1       240       Spring       -129.0       -16.80         Unnamed Stone Cabin Spring       2       354       Spring       -116.2       -15.39         E       Indian Spring (Butte)       1       334       Spring       -119.1       -15.31         E       Sammy Spring       1       343       Spring       -117.6       -15.30         Upper Illipah Crk       2       238       Surface       -123.5       -16.10       Surface Water not included in         ET       900       -119.9       -15.71       -121.4       -15.86         XXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	175 174 E 174 W TR NW N N N N N N N N	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring	2,909 10,076	1 1 1 1	349 324 330 331 342	Spring Spring Spring Spring Spring	-118.4 -120.3 -119.9 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76			
Wild Horse Spring (White Pine)       1       240       Spring       -129.0       -16.80         Unnamed Stone Cabin Spring       2       354       Spring       -116.2       -15.39         E       Indian Spring (Butte)       1       334       Spring       -119.1       -15.31         E       Sammy Spring       1       343       Spring       -117.6       -15.30         Upper Illipah Crk       2       238       Surface       -123.5       -16.10       Surface Water not included in         ET       900       -119.9       -15.71       -121.4       -15.86         XXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	175 174 E 174 W FR NW N N N N N N N N N N	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring	2,909 10,076	1 1 1 1	349 324 330 331 342 239	Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.9 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20			
Unnamed Stone Cabin Spring       2       354       Spring       -116.2       -15.39         E       Indian Spring (Butte)       1       334       Spring       -119.1       -15.31         E       Sammy Spring       1       343       Spring       -117.6       -15.30         Upper Illipah Crk       2       238       Surface       -123.5       -16.10       Surface Water not included in         ET       900       -119.9       -15.71       -121.4       -15.86         XXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	175 174 E 174 W IR NW N N N N N N N N N N N N N N	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring	2,909 10,076	1 1 1 1 1 1	349 324 330 331 342 239 344 350	Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.9 -118.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54			
E       Indian Spring (Butte)       1       334       Spring       -119.1       -15.31         E       Sammy Spring       1       343       Spring       -117.6       -15.30         Upper Illipah Crk       2       238       Surface       -123.5       -16.10       Surface Water not included in -119.9         FT       900       -119.9       -15.71       -121.4       -15.86         XXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	175 174 E 174 W IR NW N N N N N N N N N N N N N N	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sad Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring	2,909 10,076	1 1 1 1 1 1 1 1	349 324 330 331 342 239 344 350 352	Spring Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -118.3 -118.3 -120.9 -122.0 -114.5 -112.4 -123.6 -120.9 -123.6	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18			
E         Sammy Spring         1         343         Spring         -117.6         -15.30           Upper Illipah Crk         2         238         Surface         -123.5         -16.10         Surface Water not included in -119.9         -15.71           TN         GW Outflow (NWRV)         31,900         -121.4         -15.86           XXXXXX         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	175 174 E 174 W TR NW N N N N N N N N N N N N N N N N	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sage Hen Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Hayden Canyon Spring Wild Horse Spring (White Pine)	2,909 10,076	1 1 1 1 1 1 1 1	349 324 330 331 342 239 344 350 352 240	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9 -123.6 -129.0	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.50 -16.20 -16.54 -15.69 -16.18 -16.80			
Upper Illipah Crk         2         238         Surface         -123.5         -16.10         Surface Water not included in -119.9         -15.71           7N         GW Outflow (NWRV)         31,900         -121.4         -15.86           XXXXXX         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	175 174 E 174 W TR N N N N N N N N N N N N N N N N N N	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring	2,909 10,076	1 1 1 1 1 1 1 1 2	349 324 330 331 342 239 344 350 352 240 354	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -129.9 -123.6 -129.0 -116.2	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -16.54 -16.54 -16.80 -16.39			
ET         900         -119.9         -15.71           7N         GW Outflow (NWRV)         31,900         -121.4         -15.86           XXXXXX         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	175 174 E 174 W IR NW N N N N N N N N N N N N N N N N N N	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte)	2,909 10,076	1 1 1 1 1 1 1 1 2	349 324 330 331 342 239 344 350 352 240 354 334	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9 -123.6 -129.0 -116.2 -119.1	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -16.80 -15.39 -15.31			
7N         GW Outflow (NWRV)         31,900         -121.4         -15.86           XXXXXX         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	175 174 E 174 W IR NW N N N N N N N N N N N N N N N N N N	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sage Hen Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring	2,909 10,076	1 1 1 1 1 1 1 1 2 1 1	349 324 330 331 342 239 344 350 352 240 354 334 334	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.3 -119.3 -120.9 -122.0 -114.5 -123.0 -123.6 -120.9 -123.6 -120.9 -123.6 -129.0 -116.2 -119.1 -117.6	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.70 -16.54 -15.69 -16.18 -16.80 -15.31 -15.31 -15.30	Surfees M		34
0 Cave Valley Inflow (None) 0 0.0 0.00	175 174 E 174 W TR NW N N N N N N N N N N N N N N N N N N	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk	2,909 10,076 <b>13,000</b>	1 1 1 1 1 1 1 1 2 1 1	349 324 330 331 342 239 344 350 352 240 354 334 334	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.3 -119.3 -120.9 -122.0 -114.5 -123.0 -123.6 -120.9 -123.6 -120.9 -123.6 -129.0 -116.2 -119.1 -117.6	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.70 -16.54 -15.69 -16.18 -16.80 -15.31 -15.31 -15.30			34
0 Cave Valley Inflow (None) 0 0.0 0.00	175 174 E 174 W TR NW W W W W W W W W W W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sage Hen Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk	2,909 10,076 <b>13,000</b> 900	1 1 1 1 1 1 1 1 2 1 1	349 324 330 331 342 239 344 350 352 240 354 334 334	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.3 -119.3 -120.9 -122.0 -114.5 -123.0 -123.6 -120.9 -123.6 -120.9 -123.6 -129.0 -116.2 -119.1 -117.6	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.70 -16.54 -15.69 -16.18 -16.80 -15.31 -15.31 -15.30	-119.9	-15.71	34
Inflow (None) 0 0.0 0.00	175 174 E 174 W TR NW W W W W W W W W W W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs North Aspen Spring Circle Wash Spring Circle Wash Spring Sage Hen Spring Shellback Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV)	2,909 10,076 <b>13,000</b> <b>900</b> <b>31,900</b>	1 1 1 1 1 1 1 2 1 1 2	349 324 330 331 342 239 344 350 352 240 354 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Surface	-118.4 -120.3 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -129.0 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -16.54 -16.54 -16.59 -16.18 -15.39 -15.31 -15.30 -16.10	-119.9 -121.4	-15.71 -15.86	34 ncluded in
	175 174 E 174 W TR NW W W W W W W W W W W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sade Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV)	2,909 10,076 <b>13,000</b> <b>900</b> <b>31,900</b>	1 1 1 1 1 1 1 2 1 1 2	349 324 330 331 342 239 344 350 352 240 354 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Surface	-118.4 -120.3 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -129.0 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -16.54 -16.54 -16.59 -16.18 -15.39 -15.31 -15.30 -16.10	-119.9 -121.4	-15.71 -15.86	34 ncluded in
DE S. Schell Cr. Rng 7,438 -105.0 -14.28 43,44	175 174 E 174 W TR NW W W W W W W W W W W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sade Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV)	2,909 10,076 <b>13,000</b> <b>900</b> <b>31,900</b>	1 1 1 1 1 1 1 2 1 1 2	349 324 330 331 342 239 344 350 352 240 354 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Surface	-118.4 -120.3 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -129.0 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -16.54 -16.54 -16.59 -16.18 -15.39 -15.31 -15.30 -16.10	-119.9 -121.4	-15.71 -15.86	34 ncluded in
	174 175 174 E 174 W TR NW W W W W W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sage Hen Spring Sade Spring Shellback Spring Undamed Shelback Ridge Spring Undamed Shelback Spring Undamed Shelback Spring Undamed Shelback Spring Undamed	2,909 10,076 <b>13,000</b> <b>900</b> <b>31,900</b> <b>XXXXXXXX</b>	1 1 1 1 1 1 1 2 1 1 2	349 324 330 331 342 239 344 350 352 240 354 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Surface	-118.4 -120.3 -118.3 -119.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9 -123.6 -120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.31 -15.83 -15.71 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -16.69 -16.18 -16.89 -15.31 -15.30 -16.10	-119.9 -121.4	-15.71 -15.86	34 ncluded in

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O	IC	
180 W	S. Egan Rng	7,944				-107.8	-14.28			45,46	
TR	Total Recharge	15,400				-106.5	-14.28				
E	North Creek Spring		1	214	Spring	-105.0	-14.60				
E E E E E	Patterson Pass Spring WR3		15	305	Spring	-108.4	-14.95				
E	Unnamed Spring in Schell Creek Range		4	304	Spring	-107.3	-14.48				
E	Sheep Spring (Schell Ck)		1	212	Spring	-99.5	-13.70				
E	Robbers Roost Spring (Schell Ck)		1	389	Spring	-109.7	-14.75				
E	Sidehill Spring	1,600	2	200	Spring	-100.4	-13.21				
W	Big Spring (Egan)		4	206	Spring	-105.5	-13.90				
W	Chimney Rock Spring		2	219	Spring	-110.5	-14.52				
W	Granite Spring		1	440	Spring	-103.4	-13.32				
W	Haggerty Spring		1	387	Spring	-109.6	-14.78				
W	Hole in the Bank Spring		1	386	Spring	-114.9	-15.37				
W	Silver Spring		2	385	Spring	-111.4	-14.71				
W	Shingle Spring		2	203	Spring	-103.7	-13.33				
W	Perry Sp Barcass 37		1	408	Spring	-107.7	-15.04				
W	Trough Spring		1	413	Spring	-103.6	-13.56				
ET	ET	1,600		604	D	404-	4440	-106.5	-14.28		
Well	180W902		1	601	Deep Well	-104.7	-14.12				
Well	180W501		1	600	Deep Well	-105.6	-14.12				
208 207S	GW Outflow (Pahroc) GW Outflow (SWRV)	9,800 4,000						-106.5 -106.5	-14.28 -14.28		
xxxxxx	x xxxxxxxxxxxxxxxxxxxxxxxx	XXXXXXXX	xxxxxxx	(XXXXX)	×XXXXXXXXXX	xxxxx	xxxxxx	XXXXXX	xxxxx	xxxxxx	
207N	North White River Valley										
174	Inflow (Jakes)	31,900				-121.4	-15.86				
207 NE	Egan Rng North	16,554				-112.3	-15.15			38	
207 NW	White Pine Rng.	12,030				-115.0	-15.18			39, 40	
TR	Total Recharge	28,600				-113.5	-15.16				
NE	on Creek Spring (Unnamed Spring in Gul	oler Canyon)	1	235	Spring	-111.0	-14.90				
NE	Hole in the Bank Spring		1	386	Spring	-114.9	-15.37				
NE	Lone Pine Spring		3	223	Spring	-110.2	-14.90				
NE	High Springs		1	433	Spring	-113.4	-15.43				
NE	Lion Spring (Egan Range)		1	430	Spring	-114.8	-15.34				
NE	Mud Spring		1	446	Spring	-111.0	-14.53				
NE	Pine Springs (Egan Range)		1	434	Spring	-116.0	-15.71				
NE	Unnamed Spring #1(Egan)		1	435	Spring	-112.2	-15.14				
NE	Unnamed Spring #2 (Egan Range)		1	436	Spring	-110.0	-15.14				
NE	Unnamed Spring #3 (Egan Range)		1	437	Spring	-110.2	-15.07				
NE	Unnamed Spring #4 (Egan Range)		1	438	Spring	-114.0	-15.37				
NE	Unnamed Spring #5 (Egan Range)		1	445	Spring	-109.6	-14.72				
NE	North Spring		2	237	Spring	-112.4	-15.11				
NE	Second Sawmill Spring		1	222	Spring	-110.0	-14.70				
NE	South Spring (Egan)		2	236	Spring	-111.5	-15.12				
NE	Upper Terrace Spring WR2		14	270	Spring	-114.0	-15.42				
NE	Water Canyon Spring		1	358	Spring	-114.4	-15.60				dia angkan di tu
NE	Lund Spring		1	221	Spring	-113.0					d in recharge calcula
NE	Water Canyon		2	233	Surface	-116.0		Surface W	ater not i	ncluded in	recharge average
NW	Big Tom Plain Spring		1	326	Spring	-121.1	-15.92				
NW	Deer Spring (White Pine)		2	322	Spring	-119.3	-15.87				
NW	Unnamed Spring #1 (White Pine)		1	359	Spring	-114.8	-15.36				
NW	Unnamed Spring #2 (White Pine)		1	360	Spring	-114.9	-15.66				
NW	Unnamed Spring #3 (White Pine)		1	361	Spring	-113.1	-14.96				
NW	Unnamed Spring #4 (White Pine)		1	362	Spring	-116.3	-15.01				
NW	Unnamed Spring #5 (White Pine)		3	363	Spring	-116.0	-15.36				
NW	Unnamed Spring #6 (White Pine)		1	364	Spring	-115.1	-14.98				
NW	Halfway Spring (RS)		2	429	Spring	-108.7	-13.52				
NW	Easter Spring Little Tom Plain Spring		1	365	Spring	-119.4	-15.56				
NW	Little Forn Plain Spring		2	337	Spring	-121.0	-15.86				

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	
NW	Monitoring Spring WR1		14	320	Spring	-113.7	-15.58				
NW	Saddle Spring (White Pine)		3	357	Spring	-116.8	-15.45				
NW	Secret Spring		1	220	Spring	-110.0	-14.00				
NW	Unnamed Spring below Currant Mtn		1	226	Spring	-107.0	-14.00				
NW	Stove Spring		1	347	Spring	-114.5	-15.71				
NW	ned Spring in dry creek bed (White Pine I	Range)	1	321	Spring	-113.6	-15.31				
NW	Snowmelt Below Duckwater Peak	5,700	1	224	Surface	-105.0	-14.10	Surface Wa	ater not inclu	ded in <mark>rech</mark>	arge average
NW	Little Currant Creek		1	217	Surface	-113.0	-15.00	Surface Wa	ater not inclu	ded in <mark>rech</mark>	arge average
Warm	Cold Spring, Preston	1,000	2	230	Spring	-123.5	-15.80				
Warm	Nicholas Spring	2,000	1	227	Spring	-124.0	-16.10				
Warm	Preston Big Spring	5,900	11	231	Spring	-122.0	-15.88				
Warm	Discharge Warm Sprs (Avg)	8,900	14			-122.6	-15.92	-121.4		er-basi <mark>n flo</mark>	w from Jakes Valley
ET	ET	29,500						-113.7	-15.19		
207S	GW Outflow (SWRV)	31,000						-121.4	-15.86		
XXXXXXXX	( XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXX	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXX X	XXXXX XX	XXXX	
207S	South White River Valley	WRV Tot Re	charge								
		42,900					45.00				
207N	Inflow (N White River)	31,000				-121.4	-15.86				
1 <b>80</b> 207 SE	Inflow (Cave)	4,000				<b>-106.5</b> -106.9	<b>-14.28</b> -14.15			41	
207 SE 207 SW	Egan Rng South Grant Rng	7,844 6,467				-106.9	-14.15			41 42	
TR	Total Recharge	14,300				-106.5	-14.23 -14.18			42	
	Chimney Rock Spring	14,000	2	219	Spring	-110.5	-14.52				
E	Granite Spring		1	440	Spring	-103.4	-13.32				
E	Haggerty Spring		1	387	Spring	-109.6	-14.78				
E E E E E E E E E E E E E E E E	Silver Spring		2	385	Spring	-111.4	-14.71				
E	Big Spring (Egan)		4	206	Spring	-105.5	-13.90				
E	Shingle Spring		2	203	Spring	-103.7	-13.33				
E	Perry Sp Barcass 37		1	408	Spring	-107.7	-15.04				
E	Trough Spring		1	413	Spring	-103.6	-13.56				
E	Butterfield Spring	4,000	1	202	Spring	-105.0					echarge calculation
E	Emigrant Spring	1,900	2	207	Spring	-107.8					echarge calculation
	Flag Spring #3		1	201	Spring	-105.0		ocal Valley	spring not ir	nclude <mark>d in r</mark>	echarge calculation
SW	Albert Spring		1	204	Spring	-107.0	-13.95				
SW SW	Big Spring (Grant)		1	194	Spring	-112.0	-15.20				
SW	Brady Spring		2	282 195	Spring	-109.5	-15.38				
SW	Forest Home Spring (Unnamed Spring) Horse Spring (Grant)		1	370	Spring Spring	-108.5 -99.5	-14.50 -12.86				
SW	Teaspoon Spring		1	371	Spring	-100.0	-13.26				
SW	Wiregrass Spring (Grant)		1	372	Spring	-101.4	-13.29				
SW	Murphy Spring		1	373	Spring	-114.5	-15.40				
SW	Little Spring (Grant Range)		1	369	Spring	-99.4		Evaporated	l so not used	l in rec <mark>harg</mark> e	e calculation
Warm	Hot Creek Campground Well	0	1	198	Well	-118.0	-15.30	·		Ű	
Warm	Hot Creek Springs	10,000	10	197	Spring	-118.9	-15.69				
Warm	Moon River Spring	2,800	1	192	Spring	-120.0	-15.80				
Warm	Moorman Spring	400	1	205	Spring	-119.0	-15.70				
Warm	Discharge Warm Sprs (Avg)	13,200	13			-119.2	-15.71	-121.4		er-basi <mark>n flo</mark>	w from Northern White River Valley
ET 208	ET GW Outflow (Pahroc)	47,200 2,100						-115.8 -119.7	-15.23 -15.68		
	<pre>( xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</pre>		xxxxxx	xxxxx	xxxxxxx	XXXXXXX	XXXXXX			xxxx	
172	Garden Valley										
0	Inflow (None)	0				0.0	0.00				
172 SW	Quinn Canyon Range	15,621				-104.6	-14.08			171	
172 NW	Grant Range	7,993				-106.5	-14.27			170	
172 NE	Golden Gate Rng	1,063				-98.0	-13.30			55	
172 SE	Worthington Mountains	1,030				-98.0	-13.30			56	•

TR       Total Recharge       25,700       Image: Second	Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC		
SW       Unnamed Spring B(Quinn)       1       388       Spring       -104.4       -14.18         SW       Lower Liftle Cherry CP Spring       1       182       Spring       -10.30      1.380         SW       Carpented Spring       1       1171       Spring      1.520	TR	Total Recharge	25,700				-104.7	-14.08					
SW       Adapting Spring       2       177       Spring       -105.3       -14.01         SW       Corpenier Spring       1       112       Spring       -120.3       -13.90         SW       Corpenier Spring       1       114       Spring       -1520       -1520         NW       Big Spring       Spring       -100.5       -15.20       -15.20         NW       Endy Spring       12       22.22       Spring       -100.5       -14.30         NW       Endy Spring       13       371       Spring       -100.0       -12.28       Exponentiation on the spring         NW       Murphy Spring       1       373       Spring       -98.0       -13.30         NW       Murphy Spring       1       373       Spring       -98.0       -13.40         St       The Seeps (Spring)       1       136       Spring       -98.0       -13.31       75         Spring       -104.7       -14.08       -12.48       Evaporated so not used in necharge calculation         St       The Seeps (Spring)       1       280       Spring       98.0       -13.33       75         T/1       Coal Valley       9.00       -119.7       -14.	SW	Unnamed Spring #7 (Quinn)		1	367	Spring	-105.9	-14.23					
SW         Lower Lube Cherry Cr. Spring         1         182         Spring         -103.0         -13.85         Exapone to so not used in neckarge calculation           NW         Big Spring (Grant)         1         194         Spring         -112.0         -15.26           NW         Bendy Spring         222         Spring         -105.5         -15.36           NW         Horse Spring (Grant)         1         373         Spring         -101.0         -13.35           NW         Tasspoon Spring         1         373         Spring         -104.5         -14.06           NW         The Seep (Spring)         1         389         Spring         -99.6         -10.47         -14.08           NW         Hullis Spring (Grant Range)         1         389         Spring         -99.0         -10.47         -14.08           T71         Coal Valley         24.000         -104.7         -14.08         -10.7         -14.08           T72         Inflow (Grant Rang         2.882         -99.0         -13.30         -75           T71         Coal Valley         0         -119.7         -14.08         -10.77         -14.08           T72         Inflow (GrantPan)         2.400	SW	Unnamed Spring #8 (Quinn)		1	368	Spring	-104.4	-14.18					
SW         Carpenter Spring         1         1         1         1         Spring         45.0         -11.85         Spring         -15.20           NW         Bridy Spring         1         1         14         Spring         -10.55         -15.80         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <td< td=""><td>SW</td><td>Adaven Spring</td><td></td><td>2</td><td>177</td><td>Spring</td><td>-105.3</td><td>-14.01</td><td></td><td></td><td></td><td></td><td></td></td<>	SW	Adaven Spring		2	177	Spring	-105.3	-14.01					
WW       Big Spring (Gami)       1       14       4       Spring       -112.0       -15.0         WW       Brady Spring       2       222       Spring       -102.5       -15.38         WW       Hores Spring (Grant)       1       195       Spring       -108.5       -14.50         WW       Trasspon Spring       1       370       Spring       -100.0       -13.28         WW       Murphy Spring       1       372       Spring       -104.7       -14.08         NW       Murphy Spring       1       373       Spring       -104.7       -14.08         SE       The Seeres (Spring)       1       136       Spring       -104.7       -14.08         T1       Coal Valley       1       136       Spring       -104.7       -14.08         T2       Inflow (Garden)       24,000       -104.7       -14.08       -76         T2       Inflow (Garden)       24,000       -104.7       -14.08       -76         T2       Inflow (Garden)       24,000       -104.7       -14.08       -76         T2       Inflow (Garden)       2.200       -88.2       -12.26       -76         T4       Soring	SW	Lower Little Cherry Cr Spring		1	182	Spring	-103.0	-13.90					
WW       Brady Sping       2       2       Sping       -0.05       -1.05         WW       Hones Sping (Grant)       1       195       Sping       -0.05       -1.050         WW       Tespon Sping       1       370       Sping       -0.01       -1.256         WW       Mapping (Grant Ange)       1       372       Sping       -0.14       -1.256         WW       Ulle Sping (Grant Ange)       1       363       Sping       -0.14       -1.350         ET       The Seep (Sping)       1       363       Sping       -0.14       -1.407       -14.08         XXXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	SW	Carpenter Spring		1	171	Spring	-95.0	-11.85	Evaporated	l so not i	used in rec	harge	calculation
WW       Forest Home Spring (Unnimed Spring)       1       195       Spring       -0.05       -1.2.6         WW       Treaspoon Spring       1       371       Spring       -0.00       -1.2.6         WW       Wregrass Spring (Grant)       1       372       Spring       -0.00       -1.2.6         WW       Murphy Spring       1       373       Spring       -0.44       -1.2.48       Evaporated so not used in rectarge calculation         SE       The Seeps (Spring)       1       136       Spring       -9.0       -1.04.7       -14.08         T1       Geo Quittow (Coal)       24.000       -       -104.7       -14.08       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	NW	Big Spring (Grant)		1	194	Spring	-112.0	-15.20				Ŭ	
NW       Hones Spring (Grant)       1       370       Spring       -00.0       -13.26         NW       Wregares Spring (Grant)       1       372       Spring       -101.4       -13.26         NW       Murphy Spring       1       373       Spring       -104.4       -13.20         NW       Lille Spring (Grant Range)       1       369       Spring       -104.4       -13.20         ET       The Seeps (Spring)       1       369       Spring       -98.4       -12.48       NXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	NW	Brady Spring		2	282	Spring	-109.5	-15.38					
NW       House Spring (Grant)       1       370       Spring       -0.00       -13.2.6         NW       Wregnass Spring (Grant)       1       372       Spring       -01.4       -13.2.6         NW       Murphy Spring       1       373       Spring       -10.4.4       -13.2.6         NW       Murphy Spring       1       369       Spring       -98.4       -12.4.5       -16.4.7         NW       Utile Spring (Grant Range)       1       369       Spring       -98.4       -12.4.7       -14.0.8         ET       ET       1,700       -104.7       -14.0.8       -104.7       -14.0.8         T71       Coal Valley       24.000       -104.7       -14.0.8       -104.7       -14.0.8         T72       Inflow (Garden)       24.000       -104.7       -14.0.8       -104.7       -14.0.8         T74       Coal Valley       -12.2       -12.8.7       76       -12.8.7       76         T74       Inflow (Garden Rg       1.2.28       -98.0       -12.95       -12.87       76         T74       V       Godden Galte Rg       2.286       Spring       -98.4       -12.95       -14.0.8       Morden Valley         W <td>NW</td> <td>Forest Home Spring (Unnamed Spring)</td> <td></td> <td>1</td> <td>195</td> <td>Spring</td> <td>-108.5</td> <td>-14.50</td> <td></td> <td></td> <td></td> <td></td> <td></td>	NW	Forest Home Spring (Unnamed Spring)		1	195	Spring	-108.5	-14.50					
NW       Transpoor Spring       1       371       Spring       -100.0       -1.226         NW       Murphy Spring (Grant Range)       1       373       Spring       -11.4.5       -1.6.4.7       -14.88         NW       Multel Spring (Grant Range)       1       369       Spring       -98.0       -13.30         ET       ET       ET       1       1.000       -104.7       -14.48       Evaporated so not used in recharge calculation         171       GW Outflow (Coal)       24.000				1	370		-99.5						
NW       Wingspace Spring (Samt)       1       372       Spring       1014       -13.29         NW       Muthy Spring       1       369       Spring       -99.4       -12.48       Evaporated so not used in recharge calculation         SE       ET       1.700       -104.7       -14.08       -104.7       -14.08         T71       GW Outflow (Can)       24.000       -104.7       -14.08       -104.7       -104.7         T22       Inflow (Garden)       24.000       -104.7       -14.08       -104.7       -104.7         T22       Inflow (Garden)       24.000       -104.7       -14.08       -77       -75         T72       Inflow (Garden)       2.252       -98.2       -13.13       75         T1       Colden Garden)       2.252       -98.3       -12.27       -14.08         W       Henry Spring       1       28       Spring       -99.4       -12.95         W       Henry Spring       1       28       Spring       -98.3       -12.77         W       UBGS-MX2X V.Well (CV-DT-1)       2       176       Well       -13.13       -76.5         E       Spanan Spring       1       306       Spring       -9	NW			1	371		-100.0	-13.26					
NW       Mulphy Sping       1       373       Sping       -114.5       -154.0         NW       Little Sping (Grant Range)       1       389       Sping       -98.4       -12.48       Evaporated so not used in recharge calculation         SE       The Seeps (Sping)       1       136       Sping       -98.4       -12.48       -14.7       -14.08         T71       GW Outflow (Cau)       24,000       -104.7       -14.08       -104.7       -14.08         T72       Inflow (Garden)       24,000       -104.7       -14.08       -104.7       -14.08         T72       Inflow (Garden)       24,000       -104.7       -14.08       -175       -171       Galda Gald	NW			1	372		-101.4	-13.29					
NM       Luttle Spring (Grant Range)       1       369       Spring       -9.9.4       -12.48       Event and the charge calculation         FT       ET       1,700       -104.7       -14.08       -104.7       -14.08         TT       GW Outflow (Coal)       24,000       -104.7       -14.08       -104.7       -14.08         XXXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				1									
SE       The Seeps (Spring)       1       136       Spring       -08.0       -104.7       -14.08         T1       GW Outflow (Coal)       24,000       -104.7       -14.08         XXXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				1					Evaporated	l so not i	used in rec	harge	calculation
ET       ET       1,700       -104.7       -14.08         171       GW Outflow (Coal)       24,000       -104.7       -14.08         XXXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX													
171       GW Outflow (Coal)       24,000       -104.7       -14.8         XXXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			1.700			91			-104.7	-14.08			
XXXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX													
171       Coal Valley         172       Inflow (Garden)       24,000       -104.7       -14.08         171       E       Seaman Rng       1,282       -93.0       -13.13       75         171 W       Golden Gate Rng       2,282       -93.0       -13.13       75         171 W       Golden Gate Rng       2,282       -98.2       -12.87       76         171 W       Golden Gate Rng       2,282       -98.2       -12.93       -         W       Cod Spring       1       288       Spring       -98.4       -12.95       -         W       Litle Cut Spring       2       268       Spring       -98.4       -12.85       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       <			_ ,,										
172       Inflow (SWRV)       0       -104.7       -14.08         171       Seaman Rng       1.282       -980.0       -13.13       75         171       Seaman Rng       2.282       -980.2       -12.87       76         TR       Total Recharge       4.200       -944.2       -12.85       76         W       Cold Sping       1       288       Sping       -98.2       -12.86       76         W       Cold Sping       1       286       Sping       -98.3       -12.85       -44.72.95         W       Little Cut Sping       2       22.66       Sping       -90.0       -13.13       -75         Carb Well       USGSMXC.V.Well (CV-DT-1)       2       176       Well       -108.0       -14.56       -104.7       -14.08       Underflow from Garden Valley         ET       0       -10.55       -14.28       -14.08       Underflow from Garden Valley         208       Pahroc Valley       9.800       -106.5       -14.28       -103.7       -13.91         2075       Inflow (Coal)       28.200       -106.5       -14.28       -12.95       -12.95         208       Natroc Valley       2.100       -119.7       -15.68	XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXX	XXXXXXXX	XXXXX	XXXXXXXXXXXX	XXXXXX	XXXXX	XXXXXX X	XXXXX	XXXXXX		
172       Inflow (SWRV)       0       -104.7       -14.08         171       Seaman Rng       1.282       -980.0       -13.13       75         171       Seaman Rng       2.282       -980.2       -12.87       76         TR       Total Recharge       4.200       -944.2       -12.85       76         W       Cold Sping       1       288       Sping       -98.2       -12.86       76         W       Cold Sping       1       286       Sping       -98.3       -12.85       -44.72.95         W       Little Cut Sping       2       22.66       Sping       -90.0       -13.13       -75         Carb Well       USGSMXC.V.Well (CV-DT-1)       2       176       Well       -108.0       -14.56       -104.7       -14.08       Underflow from Garden Valley         ET       0       -10.55       -14.28       -14.08       Underflow from Garden Valley         208       Pahroc Valley       9.800       -106.5       -14.28       -103.7       -13.91         2075       Inflow (Coal)       28.200       -106.5       -14.28       -12.95       -12.95         208       Natroc Valley       2.100       -119.7       -15.68													
172       Inflow (SWN)       0       -119.7       -15.68         171       Saman Rng       1.282       -98.0       -13.13       75         171 W       Golden Gate Rng       2.882       -98.4       -12.87       76         TR       Total Recharge       4.200       -98.4       -12.87       76         W       Cold Spring       1       288       Spring       -98.4       -12.95         W       Henry Spring       2       286       Spring       -98.4       -12.95         Carb Well       USGS-MX C.V. Weil (CV-DT-1)       2       176       Weil       -108.0       -14.55       -14.77       -14.08       Underflow from Garden Valley         ET       Seaman Spring       1       306       Spring       -99.0       -13.13       -         208       GW Outflow (Pahroc)       28,200       -103.7       -13.91       -       -       -       -       -103.7       -13.91         208       Pahroc Valley       -       -       -105.5       -14.28       -       -       74         100       Inflow (Cave)       9,800       -103.7       -13.31       74       -         208       N       Se	171	Coal Valley											
172       Inflow (SWRV)       0       -119.7       -15.68         171 E       Saman Rng       1.282       -990.0       -13.13       75         171 W       Golden Gate Rng       2.882       -982.2       -12.87       76         TR       Total Recharge       4.200       -984.4       -12.95       -12.95         W       Cold Spring       1       286       Spring       -98.4       -12.95         W       Henry Spring       2       286       Spring       -98.4       -12.95         Carb Well       USGS-MX C.V. Well (CV-DT-1)       2       176       Well       -108.0       -14.55       -104.7       -14.08       Underflow from Garden Valley         ET       Seaman Spring       1       306       Spring       -99.0       -13.13       -14.75       -14.78       -14.28         208       GW Outflow (Pahroc)       28,200       -103.7       -13.91       -14.55       -14.28       -12.95         208       Pahroc Valley       9.800       -105.5       -14.28       -12.95       -103.7       -13.91         208       N       Fahroc Ang.       2.596       -942.2       73       74         208       N	172	Inflow (Garden)	24,000				-104.7	-14.08					
11 W       Golden Gate Řing       2,882       -98.2       -12.87       76         TR       Total Recharge       4,200       -98.4       -12.95       -         W       Cold Spring       1       287       Spring       -98.3       -12.98         W       Henry Spring       2       286       Spring       -98.4       -12.95         E       Seaman Spring       1       306       Spring       -98.4       -12.95         Carb Well       USGS-MX C.V, Well (CV-DT-1)       2       176       Well       -190.0       -13.13         Carb Well       USGS-MX C.V, Well (CV-DT-1)       2       176       Well       -190.0       -98.4       -12.95         208       GW Outflow (Pahroc)       28,200       -       -113.7       -13.01         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	172	Inflow (SWRV)	0				-119.7	-15.68					
TR       Total Recharge       4.200       -98.4       -12.95         W       Cold Spring       1       287       Spring       -97.4       -12.95         W       Henry Spring       2       286       Spring       -98.3       -12.85         E       Seaman Spring       2       286       Spring       -98.4       -14.55       -104.7       -14.08       Underflow from Garden Valley         ET       E       GW Outflow (Pahroc)       2       176       Well       -109.0       -14.55       -104.7       -14.08       Underflow from Garden Valley         ET       E       0       300       -101.7       -103.7       -13.91         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	171 E	Seaman Rng	1,282				-99.0	-13.13			75		
W       Cold Spring       1       288       Spring       -98.9       -12.98         W       Little Cut Spring       1       287       Spring       -98.3       -12.87         W       Little Cut Spring       2       286       Spring       -99.0       -13.13         Carb Well       USGS-MX CV. Well (GV-DT-1)       2       176       Well       -109.0       -14.56       -104.7       -14.08       Underflow from Garden Valley         ET       ET       0       -165       -104.7       -13.91       -38.4       -12.95         208       GW Outflow (Pahroc)       28,200       -       -103.7       -13.91         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	171 W	Golden Gate Rng	2,882				-98.2	-12.87			76		
W       Henry Spring       1       287       Spring       -97.4       -12.77         W       Little Cut Spring       2       286       Spring       -98.3       -12.85         Seaman Spring       1       306       Spring       -98.3       -12.85         Carb Well       USGS-MX C.V. Well (CV-DT-1)       2       176       Well       -109.0       -14.56       -104.7       -14.08       Underflow from Garden Valley         Z08       GW Outflow (Pahroc)       28,200       -       -       -98.4       +12.95         208       Pahroc Valley       3,800       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	TR	Total Recharge	4,200				-98.4	-12.95					
W       Henry Spring       1       287       Spring       -97.4       -12.77         W       Little Cut Spring       2       286       Spring       -98.3       -12.85         Seaman Spring       1       306       Spring       -98.0       -13.13       -14.56       -104.7       -14.08       Underflow from Garden Valley         ET       ET       0       28,200       -       -98.4       -12.55       -         208       Pahroc Valley       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	W	Cold Spring		1	288	Spring	-98.9	-12.98					
W       Little Cut Spring       2       286       Spring       -98.3       -12.85         E       Seaman Spring       1       306       Spring       -99.0       -13.13         Carb Well       USGS-MX C.V. Well (CV-DT-1)       2       176       Well       -109.0       -14.56       -104.7       -14.08       Underflow from Garden Valley         ET       ET       0       -98.4       -12.95         208       GW Outflow (Pahroc)       28,200       -98.4       -12.95         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	W			1	287	Spring	-97.4	-12.77					
E         Seaman Sping         1         306         Sping         -99.0         -13.13           Carb Well         USGS-MX C, V. Well (CV-DT-1) ET         0         176         Well         -109.0         -14.56         -104.7         -14.80         Underflow from Garden Valley -98.4         -12.95           208         GW Outflow (Pahroc)         28,200         -103.7         -13.91           XXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX	W			2	286	Spring	-98.3	-12.85					
Carb Well         USGS-MX C.V. Well (CV-DT-1)         2         176         Well         -109.0         -14.56         -104.7         -14.08         Underflow from Garden Valley           ET         B         GW Outflow (Pahroc)         28.200         -98.4         -12.95           208         GW Outflow (Pahroc)         28.200         -103.7         -13.91           XXXXXXX         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	E			1	306		-99.0	-13.13					
ET       ET       0       -98.4       -12.95         208       GW Outflow (Pahroc)       28,200       -103.7       -13.91         XXXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Carb Well	USGS-MX C.V. Well (CV-DT-1)		2	176		-109.0	-14.56	-104.7	-14.08	Underflov	v fron	n Garden Valley
XXXXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ET		0						-98.4	-12.95			-
208       Pahroc Valley         180       Inflow (Cave)       9,800       -106.5       -14.28         207S       Inflow (S. White River)       2,100       -119.7       -15.68         171       Inflow (Coal)       28,200       -103.7       -13.91         208 E       N. Pahroc Rng.       2,2596       -99.0       -13.13       74         208 W       Seaman Rng.       2,286       -99.0       -13.13       74         TR       Total Recharge       4,900       -96.4       -12.75         E       Black Rock Spring       2       169       Spring       -93.1       -11.76         E       Coyote Spring       1       301       Spring       -97.2       -13.06         E       Hamilton Spring       1       301       Spring       -92.2       -12.49         E       Mustang Spring       2       135       Spring       -90.5       -12.49         E       Pahroc Spring       1       302       Spring       -93.3       -11.76         E       Pahroc Spring       1       302       Spring       -94.3       -12.49         E       Pahroc Spring       1       302       Spring	208	GW Outflow (Pahroc)	28,200						-103.7	-13.91			
208       Pahroc Valley         180       Inflow (Cave)       9,800       -106.5       -14.28         207S       Inflow (S. White River)       2,100       -119.7       -15.68         171       Inflow (Coal)       28,200       -103.7       -13.91         208 E       N. Pahroc Rng.       2,2596       -99.0       -13.13       74         208 W       Seaman Rng.       2,286       -99.0       -13.13       74         TR       Total Recharge       4,900       -96.4       -12.75         E       Black Rock Spring       2       169       Spring       -93.1       -11.76         E       Coyote Spring       1       301       Spring       -97.2       -13.06         E       Hamilton Spring       1       301       Spring       -92.2       -12.49         E       Mustang Spring       2       135       Spring       -90.5       -12.49         E       Pahroc Spring       1       302       Spring       -93.3       -11.76         E       Pahroc Spring       1       302       Spring       -94.3       -12.49         E       Pahroc Spring       1       302       Spring													
180       Inflow (Cave)       9,800       -106.5       -14.28         207S       Inflow (S. White River)       2,100       -119.7       -15.68         171       Inflow (Coal)       28,200       -103.7       -13.91         208 E       N. Pahroc Rng.       2,596       -94.2       -12.42       73         208 W       Seaman Rng.       2,286       -99.0       -13.13       74         TR       Total Recharge       4,900       -96.4       -12.75         E       Black Rock Spring       2       169       Spring       -95.1       -12.53         E       Coyote Spring       1       298       Spring       -93.1       -11.76         E       Little Boulder Spring       1       301       Spring       -90.5       -12.49         E       Pahroc Spring       2       135       Spring       -90.5       -12.49         E       Pahroc Spring       1       302       Spring       -91.3       -11.90         W       Seaman Spring       1       302       Spring       -93.3       -11.265         E       Unnamed Spring-mr Blackrock       1       299       Spring       -90.0       -13.13      <	XXXXXXXX	*****	XXXXXXXXX	XXXXXXXX	XXXXXX	(XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXX	XXXXXX	XXXXXX X	XXXXX	XXXXXX		
207S       Inflow (S. White Řiver)       2,100       -119.7       -15.68         171       Inflow (Coal)       28,200       -103.7       -13.91         208 E       N. Pahroc Rng.       2,596       -94.2       -12.42       73         208 W       Seaman Rng.       2,286       -99.0       -13.13       74         TR       Total Recharge       4,900       -96.4       -12.75       -         E       Black Rock Spring       2       158       Spring       -93.8       -12.31       74         E       Coyote Spring       2       169       Spring       -95.1       -12.53       -       -         E       Hamilton Spring       1       298       Spring       -93.1       -11.76       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       - <th>208</th> <th>Pahroc Valley</th> <th></th>	208	Pahroc Valley											
171Inflow (Coal) $29,200$ $-103.7$ $-13.91$ 208 EN. Pahroc Rng. $2,596$ $-94.2$ $-12.42$ $73$ 208 WSeaman Rng. $2,286$ $-99.0$ $-13.13$ $74$ TRTotal Recharge $4,900$ $-96.4$ $-12.75$ EBlack Rock Spring2158Spring $-93.8$ $-12.53$ ECoyote Spring2169Spring $-95.1$ $-12.53$ EHamilton Spring1298Spring $-93.1$ $-11.76$ ELittle Boulder Spring1301Spring $-97.2$ $-13.06$ EMustang Spring2135Spring $-90.5$ $-12.49$ EPahroc Spring3131Spring $-92.2$ $-12.65$ EUnnamed Springnr Blackrock1299Spring $-94.3$ $-11.90$ WSeaman Spring1306Spring $-90.0$ $-12.10$ Evaporated not used in recharge calculationETET0 $-96.4$ $-12.75$ $-106.5$ $-14.28$ B1GW Outflow (Dry Lake) $2,000$ $-106.5$ $-14.28$ 209GW Outflow (Pahranagat) $43,000$ $-104.3$ $-13.95$	180	Inflow (Cave)	9,800				-106.5	-14.28					
208 E       N. Pahroc Rng.       2,596       -94.2       -12.42       73         208 W       Seaman Rng.       2,286       -99.0       -13.13       74         TR       Total Recharge       4,900       -96.4       -12.75         E       Black Rock Spring       2       158       Spring       -93.8       -12.31         E       Coyote Spring       2       169       Spring       -93.8       -12.31         E       Hamilton Spring       1       298       Spring       -93.1       -11.76         E       Hamilton Spring       1       298       Spring       -95.4       -12.53         E       Hamilton Spring       1       301       Spring       -97.2       -13.06         E       Mustang Spring       2       135       Spring       -90.5       -12.49         E       Pahroc Spring       3       131       Spring       -92.2       -12.65         E       Unnamed Spring-nr Blackrock       1       299       Spring       -94.3       -11.90         W       Seaman Spring       1       306       Spring       -90.0       -12.10       Evaporated not used in recharge calculation         ET <td></td> <td></td> <td>2,100</td> <td></td>			2,100										
208 W       Seaman Rng.       2,286       -99.0       -13.13       74         TR       Total Recharge       4,900       -96.4       -12.75         E       Black Rock Spring       2       158       Spring       -93.8       -12.31         E       Coyote Spring       2       169       Spring       -93.8       -12.53         E       Hamilton Spring       1       298       Spring       -93.1       -11.76         E       Little Boulder Spring       1       298       Spring       -93.1       -11.76         E       Little Boulder Spring       1       301       Spring       -92.2       -12.49         E       Pahroc Spring       2       135       Spring       -93.3       -12.49         E       Pahroc Spring       3       131       Spring       -92.2       -12.49         E       Pahroc Spring       1       302       Spring       -93.3       -12.65         E       Unnamed Springnr Blackrock       1       299       Spring       -90.0       -13.13         Evaporated       White Rock Spring (Seaman Range)       1       154       Spring       -90.0       -12.10       Evaporated not used in rechar		Inflow (Coal)	28,200				-103.7	-13.91					
TR       Total Recharge       4,900       -96.4       -12.75         E       Black Rock Spring       2       158       Spring       -93.8       -12.31         E       Coyote Spring       2       169       Spring       -95.1       -12.53         E       Hamilton Spring       1       298       Spring       -93.1       -11.76         E       Hamilton Spring       1       301       Spring       -97.2       -13.06         E       Mustang Spring       2       135       Spring       -97.2       -12.65         E       Pahroc Spring       3       131       Spring       -92.2       -12.65         E       Rattlesnake Spring       1       302       Spring       -97.3       -12.65         E       Unnamed Springnr Blackrock       1       299       Spring       -94.3       -11.90         W       Seaman Spring       1       306       Spring       -90.0       -12.10       Evaporated not used in recharge calculation         ET       ET       0       -96.4       -12.75       -106.5       -14.28         209       GW Outflow (Dry Lake)       2,000       -106.5       -14.28       -104.3		0											
E       Black Rock Spring       2       158       Spring       -93.8       -12.31         E       Coyote Spring       2       169       Spring       -95.1       -12.53         E       Hamilton Spring       1       298       Spring       -93.1       -11.76         E       Little Boulder Spring       1       301       Spring       -97.2       -13.06         E       Mustang Spring       2       135       Spring       -90.5       -12.49         E       Pahroc Spring       3       131       Spring       -92.2       -12.65         E       Rattlesnake Spring       1       302       Spring       -97.3       -12.65         E       Unnamed Springnr Blackrock       1       299       Spring       -94.3       -11.90         W       Seaman Spring       1       306       Spring       -90.0       -13.13         Evaporated       White Rock Spring (Seaman Range)       1       154       Spring       -90.0       -12.10       Evaporated not used in recharge calculation         ET       ET       0       -96.4       -12.75       -106.5       -14.28         209       GW Outflow (Pry Lake)       2,000       <		Seaman Rng.	2,286								74		
E       Mustang Spring       2       135       Spring       -90.5       -12.49         E       Pahroc Spring       3       131       Spring       -92.2       -12.65         E       Rattlesnake Spring       1       302       Spring       -97.3       -12.65         E       Unnamed Spring-nr Blackrock       1       299       Spring       -94.3       -11.90         W       Seaman Spring       1       306       Spring       -99.0       -13.13         Evaporated       White Rock Spring (Seaman Range)       1       154       Spring       -90.0       -12.10       Evaporated not used in recharge calculation         ET       ET       0       -96.4       -12.75       -14.28         181       GW Outflow (Dry Lake)       2,000       -106.5       -14.28         209       GW Outflow (Pahranagat)       43,000       -104.3       -13.95		Total Recharge	4,900				-96.4	-12.75					
E       Mustang Spring       2       135       Spring       -90.5       -12.49         E       Pahroc Spring       3       131       Spring       -92.2       -12.65         E       Rattlesnake Spring       1       302       Spring       -97.3       -12.65         E       Unnamed Spring-nr Blackrock       1       299       Spring       -94.3       -11.90         W       Seaman Spring       1       306       Spring       -99.0       -13.13         Evaporated       White Rock Spring (Seaman Range)       1       154       Spring       -90.0       -12.10       Evaporated not used in recharge calculation         ET       ET       0       -96.4       -12.75       -14.28         181       GW Outflow (Dry Lake)       2,000       -106.5       -14.28         209       GW Outflow (Pahranagat)       43,000       -104.3       -13.95	E	Black Rock Spring			158	Spring	-93.8	-12.31					
E       Mustang Spring       2       135       Spring       -90.5       -12.49         E       Pahroc Spring       3       131       Spring       -92.2       -12.65         E       Rattlesnake Spring       1       302       Spring       -97.3       -12.65         E       Unnamed Spring-nr Blackrock       1       299       Spring       -94.3       -11.90         W       Seaman Spring       1       306       Spring       -99.0       -13.13         Evaporated       White Rock Spring (Seaman Range)       1       154       Spring       -90.0       -12.10       Evaporated not used in recharge calculation         ET       ET       0       -96.4       -12.75       -14.28         181       GW Outflow (Dry Lake)       2,000       -106.5       -14.28         209       GW Outflow (Pahranagat)       43,000       -104.3       -13.95	E	Coyote Spring		2	169	Spring	-95.1	-12.53					
E       Mustang Spring       2       135       Spring       -90.5       -12.49         E       Pahroc Spring       3       131       Spring       -92.2       -12.65         E       Rattlesnake Spring       1       302       Spring       -97.3       -12.65         E       Unnamed Spring-nr Blackrock       1       299       Spring       -94.3       -11.90         W       Seaman Spring       1       306       Spring       -99.0       -13.13         Evaporated       White Rock Spring (Seaman Range)       1       154       Spring       -90.0       -12.10       Evaporated not used in recharge calculation         ET       ET       0       -96.4       -12.75       -14.28         181       GW Outflow (Dry Lake)       2,000       -106.5       -14.28         209       GW Outflow (Pahranagat)       43,000       -104.3       -13.95	E	Hamilton Spring		1	298	Spring	-93.1	-11.76					
E       Pahroc Spring       3       131       Spring       -92.2       -12.65         E       Rattlesnake Spring       1       302       Spring       -97.3       -12.65         E       Unnamed Spring-nr Blackrock       1       299       Spring       -94.3       -11.90         W       Seaman Spring       1       306       Spring       -90.0       -13.13         Evaporated       White Rock Spring (Seaman Range)       1       154       Spring       -90.0       -12.10       Evaporated not used in recharge calculation         ET       ET       0       -96.4       -12.75         181       GW Outflow (Dry Lake)       2,000       -106.5       -14.28         209       GW Outflow (Pahranagat)       43,000       -104.3       -13.95	E	Little Boulder Spring		1	301	Spring	-97.2	-13.06					
W         Seaman Spring         1         306         Spring         -99.0         -13.13           Evaporated         White Rock Spring (Seaman Range)         1         154         Spring         -90.0         -12.10         Evaporated not used in recharge calculation           ET         ET         ET         0         -96.4         -12.75           181         GW Outflow (Dry Lake)         2,000         -106.5         -14.28           209         GW Outflow (Pahranagat)         43,000         -104.3         -13.95	E	Mustang Spring		2	135	Spring	-90.5	-12.49					
W         Seaman Spring         1         306         Spring         -99.0         -13.13           Evaporated         White Rock Spring (Seaman Range)         1         154         Spring         -90.0         -12.10         Evaporated not used in recharge calculation           ET         ET         ET         0         -96.4         -12.75           181         GW Outflow (Dry Lake)         2,000         -106.5         -14.28           209         GW Outflow (Pahranagat)         43,000         -104.3         -13.95				3	131	Spring	-92.2	-12.65					
W         Seaman Spring         1         306         Spring         -99.0         -13.13           Evaporated         White Rock Spring (Seaman Range)         1         154         Spring         -90.0         -12.10         Evaporated not used in recharge calculation           ET         ET         ET         0         -96.4         -12.75           181         GW Outflow (Dry Lake)         2,000         -106.5         -14.28           209         GW Outflow (Pahranagat)         43,000         -104.3         -13.95	E	Rattlesnake Spring		1	302		-97.3	-12.65					
W         Seaman Spring         1         306         Spring         -99.0         -13.13           Evaporated         White Rock Spring (Seaman Range)         1         154         Spring         -90.0         -12.10         Evaporated not used in recharge calculation           ET         ET         ET         0         -96.4         -12.75           181         GW Outflow (Dry Lake)         2,000         -106.5         -14.28           209         GW Outflow (Pahranagat)         43,000         -104.3         -13.95	E	Unnamed Springnr Blackrock		1	299	Spring	-94.3	-11.90					
EvaporatedWhite Rock Spring (Seaman Range)1154Spring-90.0-12.10Evaporated not used in recharge calculationETET0-96.4-12.75181GW Outflow (Dry Lake)2,000-106.5-14.28209GW Outflow (Pahranagat)43,000-104.3-13.95		Seaman Spring		1	306		-99.0	-13.13					
ET         ET         0         -96.4         -12.75           181         GW Outflow (Dry Lake)         2,000         -106.5         -14.28           209         GW Outflow (Pahranagat)         43,000         -104.3         -13.95	Evaporated	White Rock Spring (Seaman Range)		1	154		-90.0	-12.10	Evaporated	l not use	d in rechar	ge ca	lculation
209 GW Outflow (Pahranagat) 43,000 -104.3 -13.95	ET	ET	0										
209 GW Outflow (Pahranagat) 43,000 -104.3 -13.95		GW Outflow (Dry Lake)	2,000						-106.5	-14.28			
***************************************									-104.3	-13.95			
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX													

F	Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	
2	209	Pahranagat Valley		•								
2	208	Inflow (Pahroc)	43,000				-104.3	-13.95				
1	181	Inflow (Dry Lake)	0				-99.0	-13.12				
2	209	Inflow (Delamar)	0				-97.3	-12.93				
2	209 E	S. Pahroc Rng.	2,377				-94.9	-12.83			77, 78	
	209 W	Mt. Irish/Pahranagat Rng.	3,545				-98.4	-14.24		79, 80 (17	72, 173)	
	TR	Total Recharge	5,900				-97.0	-13.67				
	E	Eightmile Spring		2	295	Spring	-95.6	-13.09				
E	E	Gulch Spring(Unnamed Spring in Hells A	cres Gulch)	1	109	Spring	-93.0	-12.30				
	E	Sixmile Spring		1	112	Spring	-93.4	-13.06				
	E	Twin Spring		1	294	Spring	-97.4	-13.24				
	E	named Spring in Road(South Pahroc Ran	ge)	1	303	Spring	-96.7	-13.07				
	E	Unnamed Spring nr Six Mile seep		1	296	Spring	-94.5	-12.62				
	E	Water Tank 0.4mi West of Sixmile		1	297	Spring	-93.8	-12.44			ماريم ما	
	S W	Maynard Lake Spring (Unnamed Spring)		1	94 289	Spring	-94.0		Local valle	ey spring no	t include	d in recharge calculation
	Warm	Reed Spring	12400	6		Spring	-98.4	-14.24 -14.11				
	Warm	Ash Springs Little Ash Spring (Ash Spring)	500	ю 1	110 111	Spring Spring	-109.1 -107.2	-14.11				
	Warm	Crystal Springs	8,200	17	116	Spring	-107.2	-14.20				
	Warm	Hiko Spring	4,300	7	122	Spring	-108.7	-14.39				
	Warm	Discharge Warm Springs (Avg)	<b>25,400</b>	31	122	Oping	-108.9	-14.26	-104.3	-13.95 In	ter-basi	n flow from Pahroc Valley
	ET	ET	28,500						-102.8	-13.89		······
	Well	209M-1	,	1	608	Deep Well	-104.7	-13.53	-104.3		ter-basi	n flow from Pahroc Valley
2	210	GW Outflow (Coyote Spr)	20,400						-104.3	-13.95		-
)	XXXXXXXX	* ****	XXXXXXXXX	XXXXXXXXX	(XXXXX)	xxxxxxxxx x	XXXXXX	XXXXXXX	XXXXXXX	XXXXXX X	XXXXX	
1	181	Dry Lake Valley										
	208	Inflow (Pahroc)	2,000				-106.5	-14.28			50	
	181 NW	S. Schell Ck Range	1,307				-100.4	-13.21			59	
	181 SW	N. Pahroc Rng.	2,081				-94.2	-12.42			57	
	181 NE 181 E	Fairview Rng.	3,709				-99.5 -98.9	-12.89 -13.28			58 61	
	181 SE	Bristol/Highland Rng. Chief Rng.	7,895 1,696				-96.9 -94.6	-13.26			62	
		Total Recharge	16,700				-94.0 -98.1	-12.30			02	
	E	Deadman Spring (Highland)	10,700	2	162	Spring	-95.0	-12.07				
	E	Highland Spring		3	163	Spring	-99.1	-13.36				
Ē	E	Lime Spring		2	160	Spring	-98.5	-13.16				
E	E	Pine Spring		2	157	Spring	-99.0	-13.37				
E	E	Connor Spring		1	283	Spring	-100.6	-13.84				
E	E	Upper Conner Spring		2	156	Spring	-101.2	-13.87				
5	SE	Red Rock Spring		1	256	Spring	-95.0	-12.30				
	SE	Abandoned Spring		1	266	Spring	-94.5	-12.32				
	SE	Buckboard Spring		1	264	Spring	-88.2	-11.71				
5	SE	Cottonwood Spring (Delamar)		1	265	Spring	-96.9	-12.87				
5	SE	Lower Chokecherry Spring		1	261	Spring	-98.4	-12.98				
	SE	Oak Spring		1	269	Spring	-90.0	-11.87				
	SE	Unnamed Chokecherry Spring		1	263	Spring	-98.1	-12.54				
	SE	Upper Chokecherry Spring		1	262	Spring	-98.9	-12.96				
	SE NE	Willow Spring 2 (So.of Oak Sps.summit) Bailey Spring (Fairview)		1	260	Spring	-91.2	-11.69				
,	NE NE	Balley Spring (Fairview) Cottonwood Spring (Fairview)		2	277	Spring	-98.2	-12.69				
	NE	Littlefield Spring		1	274 275	Spring	-102.2	-13.40 -12.73				
	NE	Littlefield Spring Lower Pony Spring		2	275 190	Spring Spring	-98.5 -101.0	-12.73				
	NE	Meloy Spring		2	276	Spring	-101.0 -99.8	-13.25				
	NE	Scotty Spring		1	270	Spring	-99.8	-12.75				
	NE	Indian Spring near Steward Ranch		1	188	Spring	-102.0	-13.60				
1	NE	Unnamed Spring near Pony Spring		1								
	NE NE	Unnamed Spring near Pony Spring Fence Spring		1 1	191 278	Spring Spring	-99.0 -97.4	-12.90 -12.55				

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O		
NE	Fox Cabin		1	273	Spring	-103.5	-13.59				
NE	Lower Fairview		1	281	Spring	-97.5	-12.39				
NE	Robison Spring		1	279	Spring	-97.9	-12.34				
NE	Upper Fairview		1	280	Spring	-97.7	-12.66				
SW	Black Rock Spring		2	158	Spring	-93.8	-12.31				
SW	Coyote Spring		2	169	Spring	-95.1	-12.53				
SW	Hamilton Spring		1	298	Spring	-93.1	-11.76				
SW	Little Boulder Spring		1	301	Spring	-97.2	-13.06				
SW	Mustang Spring		2	135	Spring	-90.5	-12.49				
SW	Pahroc Spring		3	131	Spring	-92.2	-12.65				
SW	Rattlesnake Spring		1	302	Spring	-97.3	-12.65				
SW	Unnamed Springnr Blackrock		1	299	Spring	-94.3	-11.90				
1W	Sidehill Spring	1,600	2	200	Spring	-100.4	-13.21				
Evaporate	d Grassy Spring		3	117	Spring	-88.7	-11.08	Evaporated	d so not	used in rec <mark>ha</mark>	arge calculation
Evaporate	d Wildhorse Spring (Fairview)		1	183	Spring	-92.5	-11.70	Evaporated	d so not	used in rec <mark>ha</mark>	arge calculation
arb Well			2	179	Well	-107.5	-14.16	-106.5	-14.28	Inter-basi <mark>n</mark>	flow from Cave Valley
Carb Well	181M1		1	603	Deep Well	-105.0	-13.67	-106.5	-14.28	Inter-basi <mark>n</mark>	flow from Cave Valley
Carb Well	181W909M		1	604	Deep Well	-104.6	-13.50	-106.5	-14.28	Inter-basi <mark>n</mark>	flow from Cave Valley
т	ET	0			-			-98.1	-12.98		
209	GW Outflow (Pahranagat)	0						-99.0	-13.12		
82	GW Outflow (Delamar)	18,700						-99.0	-13.12		
xxxxxx	x xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxx	xxxxxxx	XXXXXX	«XXXXXXXXXXX	XXXXXX	(XXXXXX	XXXXXX X	xxxxx	xxxxxx	
82	Delamar Valley										
	-										
81	Inflow (Dry Lake)	18,700				-99.0	-13.12				
2 E	Delamar Mtns.	5,755				-92.5	-12.32			81	
2 W	S. Pahroc Rng.	1,073				-94.6	-12.81			82	
	Total Recharge	6,800				-92.8	-12.39				
	Abandoned Spring		1	266	Spring	-94.5	-12.32				
	Red Rock Spring		1	256	Spring	-95.0	-12.30				
	Oak Spring		1	269	Spring	-90.0	-11.87				
	Upper Chokecherry Spring		1	262	Spring	-98.9	-12.96				
	Upper Indian Spring		1	268	Spring	-88.0	-11.46				
	Lower Indian Spring		1	267	Spring	-96.0	-12.62				
	Boulder Spring (KSV-4)		4	98	Spring	-89.2	-12.47				
	Narrow Canyon Spring		1	257	Spring	-92.5	-12.47				
	Bishop Spring		3	107	Spring	-87.2	-11.72				
	Buckboard Spring		1	264	Spring	-88.2	-11.71				
	Cottonwood Spring (Delamar)		1	265	Spring	-96.9	-12.87				
	Lower Chokecherry Spring		1	261	Spring	-98.4	-12.98				
	Sawmill Spring (Delamar Range)		1	259	Spring	-88.7	-12.58				
	Sawmill Spring West		1	258	Spring	-91.8	-12.86				
	Upper Riggs Spring WR4		5	105	Spring	-87.1	-11.95				
	Unnamed Chokecherry Spring		1	263	Spring	-98.1	-12.54				
	Willow Spring 2 (So.of Oak Sps.summit)		1	260	Spring	-91.2	-11.69				
1	Pahroc Spring		3	131	Spring	-92.2	-12.65				
	Gulch Spring(Unnamed Spring in Hells Ac	res Gulch)	1	109	Spring	-93.0	-12.30				
	Eightmile Spring		2	295	Spring	-95.6	-13.09				
	Sixmile Spring		1	112	Spring	-93.4	-13.06				
	Twin Spring		1	294	Spring	-97.4	-13.24				
	named Spring in Road(South Pahroc Rang	e)	1	303	Spring	-96.7	-13.07				
	Unnamed Spring nr Six Mile seep		1	296	Spring	-94.5	-12.62				
1	Water Tank 0.4mi West of Sixmile		1	297	Spring	-93.8	-12.44				
			3	117	Spring	-88.7		Evaporated	d so not	used in recha	arge calculation
	u Grassy Sprind										
vaporate	d Grassy Spring ET	0						-92.8	-12.39		
vaporate T		0	1	607	Deep Well	-100.3	-13.33	-92.8 -99.0			flow from Dry Lake Va
Evaporate ET Well 209	ET	0 0	1	607	Deep Well	-100.3	-13.33			Inter-basi <mark>n</mark>	flow from Dry Lake Va

Region	Name XXXXXXXXXXXXXXXXXXXXXXXXXXXX	Volume Arce-ft/yr		Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC
XXXXXXXX	*****		^^^^^	~~~~~		******	~~~~``	~~~~~	~~~~~	~~~~~
206	Kane Springs Valley									
1	Inflow (None)	0				0.0	0.00			
06 W	Delamar Mtns.	4,149				-89.0	-12.22			90
06 E	Meadow Valley Mtns.	305				-87.4	-11.92			91
R	Total Recharge	4,500				-88.9	-12.20			
1	Grapevine Spring (KSV-2)		10	93	Spring	-87.4	-11.92			
	Sawmill Spring (Delamar Range)		1	259 258	Spring	-88.7	-12.58 -12.86			
/	Sawmill Spring West Bishop Spring		3	107	Spring Spring	-91.8 -87.2	-12.00			
' 	Boulder Spring (KSV-4)		4	98	Spring	-89.2	-12.47			
, /	Kane Springs (KSV-3)		3	97	Spring	-86.8	-12.13			
V	Narrow Canyon Spring		1	257	Spring	-92.5	-12.47			
1	Upper Riggs Spring WR4		5	105	Spring	-87.1	-11.95			
V	Willow Spring (KSV-1)		4	92	Spring	-88.4	-11.60			
т	ET	0						-88.9	-12.20	
10	GW Outflow (Coyote Spr)	4,500						-88.9	-12.20	
xxxxxx	****	XXXXXXXX	xxxxxxx	«XXXXX»	xxxxxxx	xxxxxx	(XXXXX)	XXXXXX	XXXXXX	XXXXXX
10	Coyote Springs Valley									
09	Inflow (Pahranagat)	20,400				-104.3	-13.95			
82	Inflow (Delamar)	25,500				-97.3	-12.93			
06	Inflow (Kane Springs)	4,500				-88.9	-12.20			
10 NE	S. Delamar Mtns.	1,059				-89.0	-12.22			83
10 E	S. Meadow Valley Mtns.	16				-87.4	-11.92			84
10 NW	S. of Maynard Lake	0				-94.0	-12.30			87
10 SE	Arrow Canyon Rng.	15				-81.0	-10.60			88
10 W	Sheep Range	1,202				-92.7	-12.83			89
R /	Total Recharge	2,300	4	47	Coring	<b>-90.8</b> -91.9	<b>-12.53</b> -12.53			
v V	Cow Camp Spring Lamb Spring		4 1	47 86	Spring Spring	-91.9	-12.55			
/	Mormon Well Spring		3	53	Spring	-91.8	-12.67			
,	Rye Patch Spring		1	341	Spring	-89.3	-12.31			
/	Sawmill Spring (Sheep)		1	58	Spring	-92.0	-12.85			
/	Sheep Spring (Sheep Range)		1	83	Spring	-96.0	-13.35			
/	Wiregrass Spring (Sheep)		13	49	Spring	-95.1	-12.93			
V	White Rock Spring (Sheep)		2	64	Spring	-85.5		Evaporate	d not use	d in rechar
	Maynard Lake Spring (Unnamed Spring)	)	1	94	Spring	-94.0	-12.30			
E	Wamp Spring		1	52	Spring	-81.0	-10.60			
	Grapevine Spring (KSV-2)		10	93	Spring	-87.4	-11.92			
E	Bishop Spring		3	107	Spring	-87.2	-11.72			
IE IE	Boulder Spring (KSV-4) Kane Springs (KSV-3)		4 3	98 97	Spring Spring	-89.2 -86.8	-12.47 -12.13			
IE	Narrow Canyon Spring		3 1	97 257	Spring	-00.0	-12.13			
E	Sawmill Spring (Delamar Range)		1	259	Spring	-88.7	-12.58			
E	Sawmill Spring West		1	258	Spring	-91.8	-12.86			
E	Upper Riggs Spring WR4		5	105	Spring	-87.1	-11.95			
E	Willow Spring (KSV-1)		4	92	Spring	-88.4	-11.60			
ark Mall	CSVM-2		1	612	Well	-97.7	-13.14			
ard well	CSVM-3		1	613	Well	-98.0	-13.10			
arb Well			1	614	Well	-102.5	-13.41			
arb Well arb Well	CSVM-4					400 7	12.07			
arb Well arb Well arb Well	CSVM-6		1	616	Well	-100.7	-12.97			
Carb Well Carb Well Carb Well Carb Well Carb Well	CSVM-6 CSI-1		1	609	Well	-102.6	-13.08			
arb Well arb Well arb Well arb Well arb Well	CSVM-6 CSI-1 CSI-2		1 1	609 610	Well Well	-102.6 -100.2	-13.08 -12.90			
arb Well arb Well arb Well	CSVM-6 CSI-1		1	609	Well	-102.6	-13.08			

Region	Name	Volume Arce-ft/yr		Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC		
Carb Well Carb Well ET CARB 219 217	Fugro CV Deep Well CE-DT-5 CE-DT-4 ET Carbonate Well (Avg) GW Outflow (Muddy) GW Outflow (Hidden)	0 37,700 15,000	3 1 6	77 78	Well Well	-99.6 -102.5 -100.7	-12.96 -13.00 -13.11	-90.8 -99.4 -99.0 -99.0	-12.53	Flow weig	hted a	average of inter-basin flow from Pahranagat, Kane Springs, and Delamar Valleys
xxxxxxx	****	XXXXXXXX	xxxxxxx	«XXXXX	xxxxxxx	xxxxxx	XXXXXX	XXXXX	XXXXXX	XXXXXX		
219	Upper Moapa (Muddy) Valley											
205 210 219 S 219 N TR N/S Warm Warm Warm Warm Warm Warm Warm Warm	Inflow (LMVW) Inflow (Coyote) E. Arrow Canyon? Wildcat Wash Total Recharge Grapevine Spring (KSV-2) APCAR Baldwin Spring Big Muddy Spring Iverson's Spring Jones Spring Pumphouse M-8 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) Pederson's East Pederson's Warm Spring (M-13) Dicharge Warm Spring (M-14) CE-DT-6 Well CSV-2 Well Deep Carbona ET Moapa Gage SW Outflow (California) GW Outflow (California)	4,000 37,700 3 40 0 2226 5500 0 0 200 0 200 0 400 8,300 34,000 34,000 1,700	10 1 9 6 1 6 1 1 9 15 49 2 2 4	93 292 291 69 65 292 68 70 290 67 72 76	Spring Spring Spring Spring Spring Spring Spring Spring Well Well	-96.3 -99.0 -87.4 -87.4 -87.4 -87.4 -98.2 -97.6 -97.9 -97.0 -97.9 -97.0 -97.9 -99.0 -96.5 -97.8 -97.5 -97.8 -98.0 -97.9 -97.9 -97.9	-12.92 -13.24 -11.92 -11.92 -11.92 -12.94 -12.97 -12.89  -13.05 -12.75 -12.75 -12.75 -12.98 -12.93 -12.93 -12.90 -13.03 -12.92 -12.97	-98.8 -98.8 -98.8 -98.8				average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys
217	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXX	(XXXXXX	XXXXXXXX	XXXXXXX		XXXXX	XXXXXX	XXXXXX		
210 217 E 217 W TR W ET 216	Inflow (Coyote) E. Hidden W. Hidden Total Recharge Wamp Spring ET GW Outflow (Garnet )	15,000 0 47 0 15,000	1	52	Spring	<b>-99.0</b> -81.0 -81.0 <b>-81.0</b> -81.0	-13.24 -10.60 -10.60 -10.60 -10.60	-81.0 -99.0	-10.60 -13.24	99 100		
	*****	XXXXXXXX	XXXXXXXX	«XXXXXX	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXX	XXXXXX	XXXXXX		
216	Garnet Valley											
Carb Well	Inflow (Hidden) Apex Las Vegas Range Total Recharge Wamp Spring Dry Lake Valley Well GP Apex Well Unnamed Well (Near Dry Lake Range) US Lime Well (Genstar)	<b>15,000</b> 0 106 <b>100</b>	<b>1</b> 1 3 1 6	<b>52</b> 34 17 24 27	Spring Well Well Well Well	-99.0 -81.0 -81.0 -81.0 -97.5 -97.2 -96.0 -97.0	-13.24 -10.60 -10.60 -10.60 -13.30 -13.53 -13.70 -12.75 -13.32	-00.0	-12.24	104 105	, flow	from Hiddon Vallav
			1 1 6					- <b>9</b> 9.0	-13.24	Inter-basin	ı flow	from Hidden Valley

et of the other othe	Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	
Control         Control <t< th=""><th>ET</th><th>ET</th><th>•</th><th>oumpiee</th><th></th><th>1,100</th><th>02</th><th>0100</th><th></th><th></th><th></th><th></th></t<>	ET	ET	•	oumpiee		1,100	02	0100				
121         Cations Wash           25         SV index (Mudy)         4.00           25         SV index (Mudy)         1.700         98.8         -13.21           25         Inflow (Mudy)         1.700         98.8         -13.21           25         Inflow (Mudy)         1.700         98.8         -13.21           25         Inflow (Mudy)         1.500         98.8         -13.21           26         Mudy (Miss)         0         98.8         -13.21           27         Mudy (Miss)         0         98.8         -13.21           28         Widey of Favel         1         31         Wale         98.0         -13.40           28         Widey of Favel         1         31         Wale         98.0         -13.40           28         Cational Well (Atty)         1         32.00         -48.3         -13.40           28         Widey of Favel         1         32.00         -48.3         -13.40           28         Cational Well (Atty)         2000         -48.3         -13.40         -48.3           28         Mudy (Missi (Lower Wellow)         2000         -48.3         -13.40         10.27           28		GW Outflow (California)	15,100						-98.9			
121         California Wash           213         SN indire (Marky)         4,000           213         Inflow (Marky)         1,730         98.8         1,21           213         Inflow (Marky)         1,730         98.8         1,21           214         Inflow (Marky)         1,730         98.8         1,22           215         Inflow (Marky)         1,530         98.8         1,22           216         Marky (Marky)         1,530         98.8         1,23           217         Marky (Marky)         1,33         Wale of 1,000         100           218         Marky (Marky)         2000         1,34         4.23         10.80           218         Marky (Marky Mark)         2000         1,34         4.33         13.15           218         Inflore (California Wash)         2000         98.3         13.15         114           218         Marky Mark         00         1,35												
211 212 213 213 214 215 215 215 215 215 215 215 215 215 215	XXXXXXXX	*****	XXXXXXXXX	XXXXXXXX	«XXXXX	(XXXXXXXXX)	(XXXXXX)	(XXXXX)	XXXXX )	XXXXXX X	XXXXXX	
250       SW Inflow (LWW)       100       0         219       Inflow (Lover Meadow VW)       5,200       -3.83       -13.21         220       Monapo Parillow       5,200       -3.83       -13.21         221       Monapo Parillow       5,200       -3.83       -13.21         228       Monapo Parillow       1       31       Wall       42.00       -10.60         218       Monapo Parillow       1       31       Wall       42.00       -10.60         218       Monapo Parillow       1       31       Wall       42.00       -10.60         218       Carbonits Wall (Mag)       1       43       Wall       42.00       -10.60         218       Carbonits Wall (Mag)       1       43.00       -42.3       -13.15       -13.15         226       CAVO Cuttor (Exect Manapos)       28.00       -13.45       -43.3       -13.15         226       Disch Monatin Area       -       -       -       -       -       13.5       -       13.5       -       13.5       -       13.5       -       13.5       -       13.5       -       13.5       -       13.5       -       13.5       -       13.5	218	California Wash										
219       Inflow (Muddy)       1,700	219	SW Inflow (Muddy)	34,000									
280       Inflow (Lower Meadow VW)       5.200       -3.63       -12.32         216       Inflow (Lower Meadow LW)       5.000       -320       -10.80       110         217       Maday Min.       0       -320       -10.80       110         218       Maday Min.       0       -320       -10.80       110         218       Maday Min.       1       43       Weil       4520       -10.80         Caliby Kein       1       43       Weil       4520       -10.80       -10.80         Caliby Kein       4       Weil       4520       -10.80       -10.80       -10.80         Caliby Kein       0       1       43       Weil       4520       -10.80       -10.80         Caliby Kein       0       -420       -13.40       453       Veil Weil Min Anna 2000       -10.80       -10.80         215       Black Mountains Area		SW Inflow (LMVW)	· · · · · ·									
216       Inflow (Garroy)       15,100												
218       Monga Palutes       0       -220       -10.60       110         218       Monga Palutes       0       -220       -10.60       111         78       Total Recharge       0       -220       -10.60       111         78       Total Recharge       0       -220       -10.60       111         78       Monga Palutes       1       43       Wall       -220       -10.60         78       Monga Palutes       1       43       Wall       -220       -10.60         78       Monga Palutes       1       43       Wall       -220       -10.60         78       Monga Palutes       1       43       Wall       -200       -13.75       98.3       -13.75         78       Monga Palutes       2.000       -83.3       -13.15       -13.15       -13.15         715       Black Montalins Area       2.000       -83.3       -13.15       -13.15         715       Black Montalins Area       2.000       -73.5       -10.60       111         715       Monga Palutes       0       1       8       Sping       -11.15         715       Black Montalins Area       2.000       -73.5												
218       Muday Mas.       0												
Total Recharge       0       432       -10.6         W       Value of Fie Wal       1       43       Viel       400       -13.50         Cach Viel       Macae Viel       1       4.50       -000       -13.50         Cach Viel       Fie       Fie       Fie       -000       -13.50       -98.2       -13.50         Fie       Fie       Fie       -000       -13.50       -98.2       -13.51         220       GW Outlow (Dack Min Area)       2.000       -98.3       -13.15         231       SW Outlow (Caller Manae)       2.000       -98.3       -13.15         2320       SW Outlow (Caller Manae)       2.000       -98.3       -13.15         231       Black Mountains Area       -000       -98.3       -13.15         231       Black Mons.       0       -79.5       -10.65       113         215       Black Mons.       0       -79.5       -10.65       114         216       Inflow (Caller Manae)       1       35       Spring       -113.2         215       Black Mins.       0       1       35       Spring       -113.2         216       Caller Area       Caller Area       -11.30 </th <th></th>												
W       Valley of Fire Well       1       31       Well       42.0       -10.60         Carb Well       Monen Well       1       41       Vell       49.0       -13.40         CTR       Carbonate Well (Aug)       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -											111	
Cab Well       Capity Well       1       43       Well       990       -13.50         Caby Well       ET       F       4.50			U	1	21	Woll						
Cach Well       Manga Well       1       41       Well       990       -13.40       82.0       -10.50         CARB       Cachonale Well (Avg)       1.8,00       82.0       -10.50       82.3       -13.15       82.0       -10.50         CARD       Company       1.8,00       -13.45       98.3       -13.15       98.3       -13.15         Company       Company       1.8,00       -13.45       98.3       -13.15       -13.15         Company       Company       Company       Company       Company       -13.45       -13.15         Company       Company       Company       Company       -13.45       -13.15       -13.15         Company       Company       Company       Company       -13.45       -13.15       -13.15         Company       Company       Company       Company       -13.45       -13.15       -13.15         Company       Company       Company       Company       Company       -13.15       -13.15       -13.15         Company       Company       Company       Company       -13.05       -13.15       -13.15       -13.15         Company       Company       Company       Company       -13.05 <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>												
If       If       I, So		the second se										
CARB       Curbonate Weil (Arg)       99.0       13.45       99.3       13.45       99.3       13.45         220       GW Outflow (Black Mn Area)       2.000       98.3       13.15         220       SW Outflow (User Mapa)       30.700       98.3       13.15         220       SW Outflow (User Mapa)       30.700       98.3       13.15         215       Black Mountains Area       30.700       98.3       13.15         216       Black Mountains Area       2.000       98.3       13.15         215 NE       Black Mountains Area       77.55       10.665       113         215 NE       Black Mins.       0       77.55       10.65       112         215 NE       Optimum Spring       0       77.55       10.65       112         215 NE       Optimum Spring       0       77.55       10.65       112         216 NE       Optimum Spring       0       1.85       Spring 48.00       10.60         SE       Cohmowod Spring (Black Mins.)       1.31       Weil 42.0       10.60       1.85         See Sandstone Spring       0       1.83       Spring 49.00       1.20       1.20         Canb Spring Orean Spring (Black Mins.)       1.		the second se	4 500	1	41	Wen	-33.0	-13.40	-82.0	-10 60		
220       GW Outlow (Lower Mapa)       18.800       -98.3       -13.15         215       GW Outlow (Lower Mapa)       30,700         XXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX			4,000				-99.0	-13.45			Veiahted	Average of Infferbasin flow from Garnet and Upper Moana Valleys
210       GW Outflow (Elack Mur Ana)       2,000       -98.3       -13.15         2000 ULTOW (Elack Mur Moap)       30,700       2000000000000000000000000000000000000			18.800				5010				. <i>s.g.</i> nou	Surface and Specification and Specification and Specification
20       SW Outlow (Lower Mospe)       30,700         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX												
215         Black Mountains Area           218         Inflow (California Wash)         2,000         -98.3         -13.15           215 SE         Black Mitts         0         -79.5         -10.65         114           215 SE         Black Mitts         0         -79.5         -10.65         114           215 W         Oppsam Wash         0         -79.5         -10.65         112, 166           SE         Cottowood Spring (Black Mins.)         0         1         8         Spring         -80.0         -10.65           NE         Unnemed, Kaolin Wash         1         35         Spring         -80.0         -10.60           NE         Unnemed, Kaolin Wash         1         31         Wail         -62.0         -12.00           Carb Spri         Blue Point Spring)         1         1         Spring         -13.1         -10.75           Carb Spri         Coral Spring (Unnamed Spring)         0         1         28         Spring         -33.3         -10.75           Carb Spri         VF Spring 1         0         1         28         Spring         -33.3         -10.75           Carb Spri         VF Spring 2         6         1         23			-									
215         Black Mountains Area           218         Inflow (California Wash)         2,000         -98.3         -13.15           215 SE         Black Mins         0         -75.5         -10.65         114           215 SE         Black Mins         0         -77.5         -10.65         112, 166           215 SE         Contonwood Spring (Black Mins.)         0         1         8         Spring         -80.0         -10.65           SE         Contonwood Spring (Black Mins.)         0         1         8         Spring         -80.0         -10.65           NE         Unnamed, Kolini Wash         1         31         Wail         -62.0         -10.60           Carb Spri         Blue Point Spring         1         14         Spring         -41.7         -12.40           Carb Spri         Coral Spring (Unnamed Spring)         0         1         28         Spring         -31.20           Carb Spri         VF Spring 1         0         1         28         Spring         -33.10.75           Carb Spri         VF Spring 2         6         1         28         Spring         -33.1.20.7           Carb Spri         VF Spring 1         0         1 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>												
218       Inflow (California Wash)       2,000       -98.3       -13.15         215 SE       Black Mins.       0       -79.5       -10.65       1113         215 W       Gypsum Wash       0       -79.5       -10.65       112, 166         215 W       Gypsum Wash       0       -79.5       -10.65       112, 166         215 W       Opsum Wash       0       1       8       Spring       -79.0       -10.50         SE       Cotonwood Spring (Black Mms.)       0       1       8       Spring       -79.0       -10.50         NE       Unamed, Kaolin Wash       1       35       Spring       -79.0       -10.50         NE       Wammed, Kaolin Wash       1       35       Spring       -79.0       -10.60         Alwald Sprin       Biter Spring       5       1       14       Spring       -77.0       -9.90         Carb Spr       Corral Spring (Ho apring on Map)       0       1       20       Spring       -11.70         Carb Spr       Spring 1       0       1       20       Spring       -11.20         Carb Spr       VF Spring 2       6       1       2.20       Spring       -91.3       -10.75 <th>XXXXXXXXX</th> <th>*****</th> <th>XXXXXXXXX</th> <th>XXXXXXXX</th> <th>XXXXXX</th> <th>(XXXXXXXXX)</th> <th>(XXXXXX)</th> <th>XXXXXXXX</th> <th>XXXXX )</th> <th>XXXXXX X</th> <th>XXXXXX</th> <th></th>	XXXXXXXXX	*****	XXXXXXXXX	XXXXXXXX	XXXXXX	(XXXXXXXXX)	(XXXXXX)	XXXXXXXX	XXXXX )	XXXXXX X	XXXXXX	
218       Inflow (California Wash)       2,000       -98.3       -13.15         215 SE       Black Mins.       0       -79.5       -10.65       1113         215 W       Gypsum Wash       0       -79.5       -10.65       112, 166         215 W       Gypsum Wash       0       -79.5       -10.65       112, 166         215 W       Opsum Wash       0       1       8       Spring       -79.0       -10.50         SE       Cotonwood Spring (Black Mms.)       0       1       8       Spring       -79.0       -10.50         NE       Unamed, Kaolin Wash       1       35       Spring       -79.0       -10.50         NE       Wammed, Kaolin Wash       1       35       Spring       -79.0       -10.60         Alwald Sprin       Biter Spring       5       1       14       Spring       -77.0       -9.90         Carb Spr       Corral Spring (Ho apring on Map)       0       1       20       Spring       -11.70         Carb Spr       Spring 1       0       1       20       Spring       -11.20         Carb Spr       VF Spring 2       6       1       2.20       Spring       -91.3       -10.75 <th>215</th> <th>Black Mountains Area</th> <th></th>	215	Black Mountains Area										
215 NE       Muddy Mins.       0       -795       10.95       113         215 NE       Biack Mins.       0       -795       10.65       114         215 NE       Cypsum Wash       0       -795       10.65       114         215 NE       Cottomwood Spring (Black Mins.)       0       1       8       Spring       -790       10.80         SE       Sandstone Spring       0       1       10       Spring       -790       10.50         SE       Sandstone Spring       1       10       Spring       -770       -900         NE       Unamed, Kaolin Wash       1       35       Spring       -92.6       -12.40         Carb Spr       Blue Point Spring       400       5       26       Spring       -92.6       -12.00         Carb Spr       Scripus Spring (Mo spring on Map)       0       1       28       Spring       -93.0       -12.00         Carb Spr       VF Spring 1       0       1       28       Spring       -33.0       -12.00         Carb Spr       VF Spring 2       6       1       28       Spring       -33.0       -12.00         Carb Spr       VF Spring 2       60       1												
215 SE       Black Mins.       0       -79.5       -10.65       114         215 W       Gypsym Wash       0       -79.5       -10.65       112, 166         TR       Total Recharge       0       -79.5       -10.65       112, 166         SE       Cottonwood Spring (Black Mins.)       0       1       10       Spring       -79.0       -10.50         SE       Sandsone Spring       0       1       35       Spring       -79.0       -10.60         NE       Unnamed, Koin Wash       1       35       Spring       -79.0       -10.60         Allwaid Sprin       Bitter Spring       5       1       14       Spring       -70.0       -10.60         Carb Spr       Bitter Spring       1       14       Spring       -12.40       -         Carb Spr       Coral Spring Unnamed, Spring       10       1       20       Spring       -10.0         Carb Spr       Spring On Map)       0       1       20       Spring       -92.0       -11.80         Carb Spr       VF Spring 1       0       1       20       Spring       -92.0       -11.80         Carb Spr       VF Spring 1       0       1       20	218	Inflow (California Wash)	2,000				-98.3	-13.15				
215 W       Gypsum Wash       0       -79.5       -10.65       112, 166         TR       Total Recharge       0       -81.3       -10.75       12, 166         SE       Cottonwood Spring (Black Mins.)       0       1       8       Spring       -90.0       -10.80         SE       Sandstone Spring       0       1       10       Spring       -90.0       -10.50         NE       Unnamed, Kaolin Wash       1       35       Spring       -88.0       -11.30         NE       Valley of Fire Well       1       31       Well       -82.0       -10.60         Carb Spri       Blue Point Spring       440       5       2.6       Spring       -91.7       -12.10         Carb Spri       Coral Spring (Innamed Spring)       0       1       2.8       Spring       -92.0       -         Carb Spri       VF Spring 1       0       1       2.8       Spring       -92.0       -         Carb Spri       VF Spring 1       0       1       2.8       Spring       -12.0       -         Carb Spri       VF Spring 3       17       1       30       Spring       -12.0       -         Carb Spri       VF Spring												
TR         Toial Recharge         0												
SE       Cottonwood Spring (Biack Mtns.)       0       1       8       Spring       -90.0       -10.80         SE       Sandstone Spring       0       1       35       Spring       -98.0       -11.30         NE       Unnamed, Kaolin Wash       1       35       Spring       -88.0       -11.30         NE       Valley of Fire Well       1       31       Well       -82.0       -10.60         Carb Spr       Blue Point Spring       440       5       26       Spring       -92.6       -12.40         Carb Spr       Corral Spring (Unnamed Spring)       0       1       20       Spring       -91.7       -12.33         Carb Spr       Corral Spring (In Spring and Spring)       0       1       20       Spring       -93.0       -11.80         Carb Spr       VF Spring 3       17       10       28       Spring       -93.0       -12.00         Carb Spr       VF Spring 3       17       10       30       Spring       -93.0       -12.00         Carb Spr       VF Spring 3       17       10       0       Spring       -93.0       -13.15         Carb Spr       VF Spring 1       00       1       -90.3			-								112, 166	
SE       Sandstone Spring       0       1       10       Spring       -79.0       10.50         NE       Unnamed, Kaoli Wash       1       35       Spring       -80.0       -11.30         Alluvial Sprin       Bitter Spring       5       1       14       Spring       -99.0         Carb Spr       Bitter Spring       440       5       26       Spring       -99.0         Carb Spr       Coral Spring (Unnamed Spring)       0       1       19       Spring       -92.6       -12.40         Carb Spr       Scipus Spring (No spring on Map)       0       1       20       Spring       -92.0       -12.00         Carb Spr       VF Spring 1       0       1       20       Spring       -91.5       -12.10         Carb Spr       VF Spring 1       0       1       20       Spring       -92.0       -11.80         Carb Spr       VF Spring 2       6       1       29       Spring       -92.3       -12.20         Carb Spr       VF Spring 1       1,700       13       -91.3       -12.20       -98.3       -13.15         Zarb Spr       VF Spring 1       1,000       13       -91.3       -12.01       -98.3			•			<b>.</b> .						
NE       Unnamed, Kaolin Wash       1       35       Sping       -88.0       -11.30         NE       Valley of Fire Well       1       31       Well       -82.0       -10.60         Alluvial Spin       Bitter Sping       5       1       14       Sping       -77.0       -9.90         Carb Spr       Blue Point Spring       440       5       26       Spring       -92.6       -12.40         Carb Spr       Corral Spring (Unnamed Spring)       0       1       19       Spring       -91.5       -12.10         Carb Spr       Rogers Spring       1,200       3       21       Spring       -91.5       -12.00         Carb Spr       VF Spring 1       0       1       28       Spring       -92.0       -11.80         Carb Spr       VF Spring 2       6       1       29       Spring       -92.0       -11.80         Carb Spr       VF Spring 3       17       1       30       Spring       -93.0       -12.01         Carb Spr       VF Spring 1       00       1       29       Spring       -92.0       -11.80         Carb Spr       VF Spring 1       00       1       29       Spring       -92.0	SE											
NE       Valley of Fire Well       1       31       Wert       420.       10.60         Alluvial Sprin       Bitter Spring       5       1       14       Spring       -77.0       -9.90         Carb Spr       Bute Point Spring       440       5       26       Spring       -77.0       -9.90         Carb Spr       Corral Spring (Innamed Spring)       0       1       19       Spring       -91.5       -12.10         Carb Spr       Scipus Spring (No spring on Map)       0       1       20       Spring       -91.7       -12.33         Carb Spr       VF Spring 1       0       1       28       Spring       -92.0       -11.80         Carb Spr       VF Spring 2       6       1       29       Spring       -93.0       -12.20         Carb Spr       VF Spring 3       17       1       30       Spring       -93.0       -12.20         Carb Spr       VF Spring 3       177       1       30       Spring       -93.0       -12.20         E       E       T       1400       -       -       -       -       -       -       -       -       -       -       -       -       -       -<			0									
Alival Sprin       Bilter Spring       5       1       14       Spring       -77.0       -98.0         Carb Spr       Blue Point Spring       440       5       26       Spring       -92.6       -12.40         Carb Spr       Coral Spring (Unnamed Spring)       0       1       19       Spring       -91.6       -12.10         Carb Spr       Rogers Spring       1.200       3       21       Spring       -91.7       -12.30         Carb Spr       Scipus Spring (No spring on Map)       0       1       28       Spring       -91.7       -12.30         Carb Spr       VF Spring 3       17       1       30       Spring       -93.0       -11.80         Carb Spr       VF Spring 3       17       1       30       Spring       -93.3       -13.15       Weighted Average of Inflow from Califronia Wash         Statt       XXXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX												
Carb Spr       Blue Point Spring       440       5       26       Spring       -92.6       -12.40         Carb Spr       Corral Spring (Unnamed Spring)       0       1       19       Spring       -91.5       -12.10         Carb Spr       Rogers Spring       1.200       3       21       Spring       -91.5       -12.00         Carb Spr       Spring (No spring on Map)       0       1       28       Spring       -90.0       -12.00         Carb Spr       VF Spring 2       6       1       29       Spring       -92.0       -11.80         Carb Spr       VF Spring 3       17       1       30       Spring       -92.0       -11.20         Carb Spr       VF Spring 3       17       1       30       Spring       -92.0       -11.80         Carb Spr       VF Spring 3       17       1       30       Spring       -93.0       -12.01       -98.3       -13.15         CARB       Carbonate Spr (Avg)       1,700       13       -91.3       -12.01       -98.3       -13.15         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			5									
Carb Spr       Corral Spring (Unnamed Spring)       0       1       19       Spring       -91.5       -12.10         Carb Spr       Rogers Spring       1,200       3       21       Spring       -91.7       -12.33         Carb Spr       Scipus Spring (No pring on Map)       0       1       20       Spring       -90.0       -12.00         Carb Spr       VF Spring 1       0       1       28       Spring       -90.0       -11.80         Carb Spr       VF Spring 3       17       1       30       Spring       -92.0       -11.80         Carb Spr       VF Spring 3       17       1       30       Spring       -90.0       -12.00         Carb Spr       VF Spring 3       17       1       30       Spring       -92.0       -11.80         Carb Spr       VF Spring 3       17       1       30       Spring       -92.3       -13.15       Weighted Average of Inflow from Califronia Wash         999       GW Outflow (Colorado River)       600       -98.3       -13.15          220       Lower Moapa Valley       1       90       -98.3       -13.15          220 S       Valley of Fire       0       -88.3												
Carb Spr       Rogers Spring       1,200       3       21       Spring       -12.33         Carb Spr       Scipus Spring (No spring on Map)       0       1       20       Spring       -90.0       -12.00         Carb Spr       VF Spring 1       0       1       28       Spring       -90.0       -12.00         Carb Spr       VF Spring 1       0       1       29       Spring       -90.0       -12.00         Carb Spr       VF Spring 3       1       1       30       Spring       -90.0       -12.20         Carb Spr       VF Spring 3       1       1       30       Spring       -90.0       -12.20         Carb Spr       VF Spring 3       1,700       13       -91.3       -12.01       -98.3       -13.15         CARB       Carbonate Spr (Avg)       1,700       13       -91.3       -12.01       -98.3       -13.15         XXXXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX												
Carb Spr       Scirpus Spring (No spring on Map)       0       1       20       Spring       -90.0       -12.00         Carb Spr       VF Spring 1       0       1       28       Spring       -88.0       -11.20         Carb Spr       VF Spring 2       6       1       29       Spring       -88.0       -11.80         Carb Spr       VF Spring 3       17       1       30       Spring       -93.0       -12.00         ET       ET       1,400       -       -       -81.3       -10.75         CARB Carbonate Spr (Avg)       1,700       13       -       -91.3       -12.01       -98.3       -13.15         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				3								
Carb Spr         VF Spring 2         6         1         29         Spring         -92.0         -11.80           Carb Spr         VF Spring 3         17         1         30         Spring         -93.0         -12.20           ET         ET         1,400         -81.3         -10.75         -81.3         -10.75           CARB         Carbonate Spr (Avg)         1,700         13         -91.3         -12.01         -98.3         -13.15         Weighted Average of Inflow from Califronia Wash           999         GW Outflow (Colorado River)         600         -98.3         -13.15         -98.3         -13.15           XXXXXXX         XXXXXXXX/XXXXXXX/XXXX/XXXXX/XXXXX/XXXX/XXXX			0	1			-90.0	-12.00				
Carb Spr       VF Spring 3       17       1       30       Spring       -93.0       -12.20         ET       ET       ET       1,400       -81.3       -10.75       -88.3       -13.15       Weighted       Average of Inflow from Califronia Wash         999       GW Outflow (Colorado River)       600       13       -91.3       -12.01       -98.3       -13.15       Weighted       Average of Inflow from Califronia Wash         XXXXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			0	1	28		-88.0	-11.20				
ETET1,400 (CARB-91.3-10.75 -98.3-98.3-13.15Weighted Average of Inflow from Califronia Wash999GW Outflow (Colorado River)600-91.3-12.01-98.3-13.15Weighted Average of Inflow from Califronia WashXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX						Spring						
CARB 999Carbonate Spr (Avg) GW Outflow (Colorado River)1,70013 600-91.3-12.01 -98.3-98.3 -13.15-13.15Weighted Average of Inflow from Califronia WashXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				1	30	Spring	-93.0	-12.20				
999       GW Outflow (Colorado River)       600       -98.3       -13.15         XXXXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX												
XXXXXXX       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				13			-91.3	-12.01			Veighted	Average of Inflow from Califronia Wash
220       Lower Moapa Valley         218       GW Inflow (California Wash)       18,800       -98.3       -13.15         218       SW Inflow (California Wash)       30,700       -         220 S       Valley of Fire       0       -88.0       -11.30       101         220 N       S. Mormon Mts.       37       -88.3       -12.50       102         TR       Total Recharge       0       -88.3       -12.50       102         N       Davies Spring       1       90       Spring       -89.0       -12.50         N       Hackberry Spring       1       84       Spring       -87.0       -12.30	999	GW Outflow (Colorado River)	600						-98.3	-13.15		
218       GW Inflow (California Wash)       18,800       -98.3       -13.15         218       SW Inflow (California Wash)       30,700	XXXXXXXX	xxxxxxxxxxxxxxxxxxxxxx	XXXXXXXXX	xxxxxxx	XXXXXX	xxxxxxx	xxxxxx	xxxxxx	XXXXX )	xxxxx x	XXXXXX	
218       GW Inflow (California Wash)       18,800       -98.3       -13.15         218       SW Inflow (California Wash)       30,700												
218       SW Inflow (California Wash.)       30,700         220 S       Valley of Fire       0       -11.30       101         220 N       S. Mormon Mtns.       37       -88.3       -12.50       102         TR       Total Recharge       0       -88.3       -12.50       102         N       Davies Spring       1       90       Spring       -89.0       -12.50         N       Hackberry Spring       1       84       Spring       -87.0       -12.30	220	Lower Moapa Valley										
218       SW Inflow (California Wash.)       30,700         220 S       Valley of Fire       0       -11.30       101         220 N       S. Mormon Mtns.       37       -88.3       -12.50       102         TR       Total Recharge       0       -88.3       -12.50         N       Davies Spring       1       90       Spring       -89.0       -12.50         N       Hackberry Spring       1       84       Spring       -87.0       -12.30	218	GW Inflow (California Wash)	18,800				-98.3	-13.15				
220 S       Valley of Fire       0       -88.0       -11.30       101         220 N       S. Mormon Mtns.       37       -88.3       -12.50       102         TR       Total Recharge       0       -88.3       -12.50       102         N       Davies Spring       1       90       Spring       -89.0       -12.50         N       Hackberry Spring       1       84       Spring       -87.0       -12.30												
TR         Total Recharge         0        88.3         -12.50           N         Davies Spring         1         90         Spring         -89.0         -12.50           N         Hackberry Spring         1         84         Spring         -87.0         -12.30	220 S						-88.0	-11.30			101	
N         Davies Spring         1         90         Spring         -89.0         -12.50           N         Hackberry Spring         1         84         Spring         -87.0         -12.30											102	
N Hackberry Spring 1 84 Spring -87.0 -12.30			0									
				1								
N Horse Spring (Morman) 1 85 Spring -89.0 -12.70												
	N	Horse Spring (Morman)		1	85	Spring	-89.0	-12.70				

Region S	Name Unnamed, Kaolin Wash	Volume Arce-ft/yr	# of Samples 1	Site#	Site Type Spring	Obs. δD -88.0	Obs. δ18O -11.30	Calc. δD	Calc. δ18Ο	IC		
Carb Well Carb Well	EH-7 EH-3 Weiser Wash		1 1	56 61	Well Well	-91.0 -91.0	-12.45 -12.70					
CARB	Carbonate Well (Avg)		2			-91.0	-12.58	-96.3		Inter-basi	in flov	v from Lower Meadow Valley Wash
ET 999	ET GW Outflow (Colorado River)	25,300 17,200						-88.3 -98.3	-12.50 -13.15			
999	SW Outflow (Colorado River)	7,000						-50.5	-10.10			
******	****	*******	*****	*****	******	******		******		*****		
~~~~~	******	~~~~~	~~~~~	~~~~~		******		^^^^ /		~~~~~		
Colorado R	Lake Mead (Colorado River)											
210 205	GW Inflow (Black Mountains Area) GW Inflow (Lower Moapa)	600 17,200				-98.3 -98.3	-13.15 -13.15					
205 999	Groundwater Total	17,200				-90.5	-13.15	-98.3	-13.15			
		,										
205 999	SW Inflow (Lower Moapa) Surfacewater Total	7,000 7,000										
999	Inflow Total	24,800										
xxxxxxx	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	xxxxxxx	xxxxxxx	×××××	xxxxxx	xxxxxx	xxxxx	xxxxxx	xxxxx	xxxxxx		
183	Lake Valley											
0	Inflow (None)	0				0.0	0.00					
183 NE	Fortification Rng	1,499				-106.3	-14.16			49		
183 NW	Cen. Schell Cr. Rng	4,759				-108.1	-14.74			51		
183 SE 183 SW	Wilson Cr. Rng. @ Atlanta Fairview Rng.	4,188 1,716				-104.7 -101.1	-13.75 -13.29			50 60		
TR	Total Recharge	12,200				-101.1 -105.7	-13.29 -14.12			60		
NE	Indian Springs	12,200	1	375	Spring	-106.3	-14.16					
NW	Big Spring North	700	1	211	Spring	-112.0	-15.10					
NW	Big Spring South	1,600	1	210	Spring	-111.0	-14.80					
NW	Geyser Spring	340	1	213	Spring	-105.0	-14.50					
NW	North Creek Spring	1,200	1	214	Spring	-105.0	-14.60					
NW	Patterson Pass Spring WR3		15	305	Spring	-108.4	-14.95					
	Jnnamed Spring in Schell Creek Range		4	304	Spring	-107.3	-14.48					
SE	Headwaters Spring WR5		17 1	309	Spring	-107.3	-14.57					
SE SE	Bailey Spring (Wilson Ck) Wilson Creek		1	<mark>310</mark> 189	Spring Surface	-102.0 -97.5	-12.93	Surface M/	ator not i	neludod in	rocho	
SE	Cottonwood Spring (Fairview)		1	274	Surface	-102.2	-13.20	Sunace wa	ater not i	nciuded in	recha	rge average
SW	Lower Pony Spring		2	190	Spring	-101.0	-13.25					
SW	Indian Spring near Steward Ranch		1	188	Spring	-102.0	-13.60					
SW	Unnamed Spring near Pony Spring		1	191	Spring	-99.0	-12.90					
ET	ET	6,100						-105.7	-14.12			
202	GW Outflow (Patterson)	6,100						-105.7	-14.12			
XXXXXXXX	****	xxxxxxxx	xxxxxxx	XXXXX	xxxxxxx	xxxxxxx	XXXXX	XXXXXX >	xxxxx	XXXXXX		
202	Patterson Valley											
100												
183		6,100				-105.7	-14.12					
202 E 202 W	Wilson Cr. Rng. @ Mt. Wilson	6,464				-97.7	-12.99			47		
202 W TR	Bristol Rng. Total Recharge	3,991 10,500				-99.2 -98.3	-13.10 -13.03			48		
	Bailey Spring (Wilson Ck)	10,500	1	310	Spring	-102.0	-12.93					
E	Blue Rock Spring		1	98	Spring	-93.4	-12.68					
E	Headwaters Spring WR5		17	309	Spring	-107.3	-14.57					
E E E E	Upper Tower Spring		1	312	Spring	-93.3	-12.30					
E	Parsnip Spring		1	180	Spring	-93.5	-12.80					

Region	Name	Volume	# of	Site#	Site	Obs.	Obs.	Calc.	Calc.	IC	
		Arce-ft/yr	Samples		Туре	δD	δ18Ο	δD	δ18Ο		
E	Horsethief Spring		2	314	Spring	-97.0	-12.68				
	Wilson Creek		1	189	Surface	-97.5		Surface W	ater not include	d in <mark>rec</mark> h	arge averag
W	Deadman Spring (Highland)		2	162	Spring	-95.0	-12.07				
W	Highland Spring		3	163	Spring	-99.1	-13.36				
WW	Lime Spring Pine Spring		2 2	160 157	Spring Spring	-98.5 -99.0	-13.16 -13.37				
W	Upper Conner Spring		2	157	Spring	-102.3	-13.87				
W	Connor Spring		1	283	Spring	-102.3	-13.84				
Ŵ	Fox Cabin		1	273	Spring	-103.5	-13.59				
Ŵ	Scotty Spring		1	272	Spring	-98.9	-12.73				
W	Upper Fairview		1	280	Spring	-97.7	-12.66				
w	Lower Fairview		1	281	Spring	-97.5	-12.39				
W	Wildhorse Spring (Fairview)		1	183	Spring	-92.5	-11.70 E	vaporate	d so not used in	recharg	e calculation
W	McDermitt Spring		1	323	Spring	-94.3	-11.21 E	vaporate	d so not used in	recharg	e calculation
ET	ET	1,300						-98.3	-13.03		
203	GW Outflow (Panaca)	15,300						-101.3	-13.47		
******	x xxxxxxxxxxxxxxxxxxxxxxxx x	· vvvvvv	~~~~~	~~~~~	/	******	~~~~~	· • • • • • • • • • • • • • • • • • • •	~~~~		
	~ ^^^^^^			~~~~							
201	Spring Valley										
0	Inflow (None)	0				0.0	0.00				
201 W	Wilson Cr. Rng. @ Parsnip Pk.	5,161				-97.7	-12.99			53	
201 E	White Rock Mtns.	5,904				-100.9	-13.52			52	
70	Total Decharge	44.400				00.4	40.00				
TR	Total Recharge Barrel Spring	11,100	1	317	Spring	-99.4 -100.5	-13.28 -13.36				
F	anyon Spring (Unnamed Spring in Burnt Ca	anvon)	1	187	Spring Spring	-100.5	-12.30				
F	Lion Spring	anyon	1	318	Spring	-103.4	-14.11				
Ē	South Monument Spring		1	319	Spring	-102.3	-14.23				
Е	Ripgut Sp #40		1	411	Spring	-106.4	-14.38				
E	Unnamed Spring #1(White Rock Mts)		1	415	Spring	-109.6	-15.05				
E	Unnamed Spring #2 (White RockMts)		1	417	Spring	-97.0	-13.00				
E	Upper Burnt Canyon Spring		1	416	Spring	-97.6	-12.83				
E	Upper Burnt Canyon Spring #2		1	416	Spring	-103.6	-13.66				
E	Jnnamed Spring nr Redd's Cabin Summit		2	173	Spring	-94.4	-12.44				
E	Tobe Spring		1	315	Spring	-100.0	-13.04				
E E E E E E E E E E E E E E E E E E E	Tobe Spring 2		1	316	Spring	-93.6	-12.09				
E F	Unnamed Spring in Miller Canyon		1	313	Spring	-103.7	-14.27				
E W	Headwaters Spring WR5 Blue Rock Spring		1 1	309 311	Spring Spring	-107.3 -93.4	-14.57 -12.68				
W	Headwaters Spring WR5		17	309	Spring Spring	-93.4 -107.3	-12.68				
W	Bailey Spring (Wilson Ck)		1	310	Spring	-107.3	-14.57				
Ŵ	Horsethief Spring		2	314	Spring	-97.0	-12.68				
Ŵ	Parsnip Spring		1	180	Spring	-93.5	-12.80				
W	Upper Tower Spring		1	312	Spring	-93.3	-12.30				
Surface	Camp Creek		1	184	Surface	-102.0		Surface W	ater not include	d in <mark>rec</mark> h	arge average
Surface	MVW above Eagle Canyon		1	168	Surface	-93.0	-12.00 \$	Surface W	ater not include	d in <mark>rec</mark> h	arge average
ET	ET	3,900						-99.4	-13.28		
200	GW Outflow (Eagle)	7,200						-99.4	-13.28		
200	SW Outflow (Eagle)	0						-97.5	-13.00		
xxxxxxx	* ****	xxxxxx	xxxxxxx	«XXXX»	xxxxxxx	xxxxxx	xxxxx	(XXXXX)	XXXXXX XXXX	xx	
200	Eagle Valley										
201	Inflow (Spring)	7,200				-99.4	-13.28				
201	SW Inflow (Spring)	0				-97.5	-13.00				
200 E	E. Eagle (Ursine) Valley	1,560				-99.1	-13.28			63	
200 W	W. Eagle (Ursine) Valley	412				-97.0	-12.68			64	
TR	Total Recharge	2,000				-98.7	-13.15				
E	Butcher Spring		1	424	Spring	-103.2	-14.22				

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O	IC	;
	Newels Spring		1	423	Spring	-96.0	-12.48				
	Ox Valley Spring		1	422	Spring	-100.0	-13.95				
-	Unnamed Spring #2 (Mahogany Mts)		1	421	Spring	-100.7	-13.47				
	Water Canyon Spring (Mahogany)		1	420	Spring	-100.4	-13.68				
=	Tobe Spring		1	315	Spring	-100.0	-13.04				
E	Tobe Spring 2		1	316	Spring	-93.6	-12.09				
Ŵ	Horsethief Spring		2	314	Spring	-97.0	-12.68				
		1 000	2	514	Spring	-97.0	-12.00	09.7	12.15		
ET	ET	1,000						-98.7	-13.15		
99	GW Outflow (Rose)	8,200						-99.3	-13.26		
98	SW Outflow (Rose)	0						-98.7	-13.00		
xxxxxxx	*****	XXXXXXXX	XXXXXXXX	XXXXXX	XXXXXXXXX	XXXXXX	XXXXXX	XXXXX)	XXXXX	XXXXXX	(
199	Rose Valley										
200	Inflow (Eagle)	8,200				-99.3	-13.26				
200	SW Inflow (Eagle)	0				-98.7	-13.00				
199 E	E. Rose Valley	163				-99.1	-13.28			65	5
199 W	W. Rose Valley	78				-97.0	-12.68			66	
rr TR	Total Recharge	200				-98.4	-13.08				
	-	200	1	124	Spring	-103.2	-14.22				
E	Butcher Spring			424	Spring						
	Newels Spring		1	423	Spring	-96.0	-12.48				
Ξ	Ox Valley Spring		1	422	Spring	-100.0	-13.95				
E	Unnamed Spring #2 (Mahogany Mts)		1	421	Spring	-100.7	-13.47				
Ξ	Water Canyon Spring (Mahogany)		1	420	Spring	-100.4	-13.68				
E	Tobe Spring		1	315	Spring	-100.0	-13.04				
	Tobe Spring 2		1	316	Spring	-93.6	-12.09				
N	Horsethief Spring		2	314	Spring	-97.0	-12.68				
ET	ET	600	-	011	oping	01.0	12.00	-98.4	-13.08		
198	GW Outflow (Dry)	7,800						-99.3	-13.25		
198	SW Outflow (Dry)	0						-98.4	-13.08		
XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	-	xxxxxxx	KXXXXX	xxxxxxx	XXXXXX	xxxxxx			xxxxxx	.
XXXXXXXX		-	*****	×XXXXX	XXXXXXXXX	XXXXXXX	XXXXXXX			XXXXXX	4
XXXXXXXXX 198	*****	-	****	XXXXXX	XXXXXXXXX	-99.3	-13.25			XXXXXX	4
XXXXXXXXX 198 199	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXX	XXXXXXXX	ĸxxxx	xxxxxxx					XXXXXX	
XXXXXXXXX 198 199 199	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0	****	ĸxxxx	xxxxxxx	-99.3 -98.4	-13.25 -13.08				
XXXXXXXXX 198 199 199 198 E	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXX 7,800 0 2,860	xxxxxxx	ĸxxxx	XXXXXXXX	-99.3 -98.4 -96.9	-13.25 -13.08 -12.99			67	,
XXXXXXXXX 198 199 198 E 198 W	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 2,860 321	XXXXXXXX	ĸxxxx	****	-99.3 -98.4 -96.9 -97.0	-13.25 -13.08 -12.99 -12.68				,
XXXXXXXXX 198 199 198 E 198 W TR	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXX 7,800 0 2,860				-99.3 -98.4 -96.9 -97.0 -96.9	- 13.25 - 13.08 -12.99 -12.68 - 12.96			67	,
XXXXXXXXXX 198 199 198 E 198 W TR E	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 2,860 321	1	418	Spring	-99.3 -98.4 -96.9 -97.0 -96.9 -91.9	-13.25 -13.08 -12.99 -12.68 -12.96 -12.34			67	,
XXXXXXXXX 198 199 199 198 E 198 W TR E E E	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 2,860 321	1 1	418 419	Spring Spring	-99.3 -98.4 -96.9 -97.0 -96.9 -91.9 -92.1	-13.25 -13.08 -12.99 -12.68 -12.96 -12.34 -12.04			67	,
XXXXXXXXX 198 199 198 E 198 W TR E E	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 2,860 321	1 1 1	418 419 423	Spring Spring Spring	-99.3 -98.4 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0	-13.25 -13.08 -12.99 -12.68 -12.34 -12.04 -12.48			67	,
XXXXXXXXX 198 199 199 198 E 198 W TR E E	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 2,860 321	1 1	418 419	Spring Spring	-99.3 -98.4 -96.9 -97.0 -96.9 -91.9 -92.1	-13.25 -13.08 -12.99 -12.68 -12.96 -12.34 -12.04			67	,
XXXXXXXXX 198 199 198 E 198 W TR E E	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 2,860 321	1 1 1	418 419 423	Spring Spring Spring	-99.3 -98.4 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0	-13.25 -13.08 -12.99 -12.68 -12.34 -12.04 -12.48			67	,
XXXXXXXXX 198 199 198 E 198 W TR E E E E E E	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 2,860 321	1 1 1	418 419 423 422	Spring Spring Spring Spring	-99.3 -98.4 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0	-13.25 -13.08 -12.99 -12.68 -12.34 -12.04 -12.48 -13.95			67	,
XXXXXXXXX 198 199 198 E 198 W TR E E E E E	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 2,860 321	1 1 1 1 1 1	418 419 423 422 421 420	Spring Spring Spring Spring Spring Spring	-99.3 -98.4 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0 -100.7 -100.4	-13.25 -13.08 -12.99 -12.68 -12.34 -12.04 -12.48 -13.95 -13.47 -13.68			67	,
XXXXXXXXX 198 199 198 E 198 W TR E E E E E E E E E E E E E	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 2,860 321	1 1 1 1 1 1 2	418 419 423 422 421 420 314	Spring Spring Spring Spring Spring Spring Spring	-99.3 -98.4 -96.9 -97.0 -91.9 -91.9 -92.1 -96.0 -100.0 -100.7 -100.4 -97.0	-13.25 -13.08 -12.99 -12.68 -12.34 -12.04 -12.48 -13.95 -13.47 -13.68 -12.68	(XXXXX)	*****	67 68	73
XXXXXXXXX 198 199 198 E 198 W IR E E E W Warm Sprin	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 2,860 321	1 1 1 1 1 2 1	418 419 423 422 421 420 314 153	Spring Spring Spring Spring Spring Spring Spring Spring	-99.3 -98.4 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0 -100.7 -100.4 -97.0 -101.0	-13.25 -13.08 -12.99 -12.68 -12.34 -12.04 -12.48 -13.95 -13.47 -13.68 -12.68 -13.40		-13.25	67 68 Inter-bas	in flow from Dry Valley
XXXXXXXXX 198 199 198 E 198 W TR E E E E E E E W Warm Sprin Spring	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 2,860 321 3,200	1 1 1 1 1 1 2	418 419 423 422 421 420 314	Spring Spring Spring Spring Spring Spring Spring	-99.3 -98.4 -96.9 -97.0 -91.9 -91.9 -92.1 -96.0 -100.0 -100.7 -100.4 -97.0	-13.25 -13.08 -12.99 -12.68 -12.34 -12.04 -12.48 -13.95 -13.47 -13.68 -12.68	-99.3	-13.25	67 68 Inter-bas	73
XXXXXXXXX 198 199 198 E 198 W TR 198 W TR 198 W Warm Sprin: Spring T	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 2,860 321 3,200	1 1 1 1 1 2 1	418 419 423 422 421 420 314 153	Spring Spring Spring Spring Spring Spring Spring Spring	-99.3 -98.4 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0 -100.7 -100.4 -97.0 -101.0	-13.25 -13.08 -12.99 -12.68 -12.34 -12.04 -12.48 -13.95 -13.47 -13.68 -12.68 -13.40	-99.3 -97.2	-13.25 -13.00	67 68 Inter-bas	in flow from Dry Valley
XXXXXXXXX 198 199 198 E 198 W TR E E W Warm Sprin Spring ET 203	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 2,860 321 3,200	1 1 1 1 1 2 1	418 419 423 422 421 420 314 153	Spring Spring Spring Spring Spring Spring Spring Spring	-99.3 -98.4 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0 -100.7 -100.4 -97.0 -101.0	-13.25 -13.08 -12.99 -12.68 -12.34 -12.04 -12.48 -13.95 -13.47 -13.68 -12.68 -13.40	-99.3 -97.2 -93.3	-13.25 -13.00 -13.25	67 68 Inter-bas	in flow from Dry Valley
XXXXXXXXX 198 199 198 E 198 W TR E E E E E W Warm Sprin: Spring ET 2003 2003	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 2,860 321 3,200 3,700 7,300 0	1 1 1 1 2 1 1	418 419 423 422 421 420 314 153 149	Spring Spring Spring Spring Spring Spring Spring Spring	-99.3 -98.4 -96.9 -97.0 -96.9 -91.9 -92.1 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0	-13.25 -13.08 -12.99 -12.68 -12.34 -12.04 -12.48 -13.95 -13.47 -13.68 -13.40 -13.40	-99.3 -97.2 -97.2	-13.25 -13.00 -13.25 -13.00	67 68 Inter-bas Local Vall	i in flow from Dry Valley ley spring not included in recharge calc
XXXXXXXXX 198 199 198 199 198 E 198 W TR E E E E E W Warm Sprin Spring ET 203 203 XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 2,860 321 3,200 3,700 7,300 0	1 1 1 1 2 1 1	418 419 423 422 421 420 314 153 149	Spring Spring Spring Spring Spring Spring Spring Spring	-99.3 -98.4 -96.9 -97.0 -96.9 -91.9 -92.1 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0	-13.25 -13.08 -12.99 -12.68 -12.34 -12.04 -12.48 -13.95 -13.47 -13.68 -13.40 -13.40	-99.3 -97.2 -97.2	-13.25 -13.00 -13.25 -13.00	67 68 Inter-bas Local Vall	i in flow from Dry Valley ley spring not included in recharge calc
XXXXXXXXX 198 199 198 E 198 W TR E E 203 203 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 2,860 321 3,200 3,700 7,300 0	1 1 1 1 2 1 1	418 419 423 422 421 420 314 153 149	Spring Spring Spring Spring Spring Spring Spring Spring	-99.3 -98.4 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0	-13.25 -13.08 -12.99 -12.68 -12.34 -12.04 -12.48 -13.95 -13.47 -13.68 -13.40 -13.40 -13.40	-99.3 -97.2 -97.2	-13.25 -13.00 -13.25 -13.00	67 68 Inter-bas Local Vall	i in flow from Dry Valley ley spring not included in recharge calc
XXXXXXXXX 198 199 199 198 E 198 W TR E E E E E W Warm Sprin Spring ET 203 203 XXXXXXXXX 204 0	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXX 7,800 0 2,860 321 3,200 3,700 7,300 0 XXXXXXXXX 0	1 1 1 1 2 1 1	418 419 423 422 421 420 314 153 149	Spring Spring Spring Spring Spring Spring Spring Spring	-99.3 -98.4 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0	-13.25 -13.08 -12.99 -12.68 -12.34 -12.04 -12.48 -13.95 -13.47 -13.68 -12.68 -13.40 -13.40 -13.40	-99.3 -97.2 -97.2	-13.25 -13.00 -13.25 -13.00	67 68 Inter-bas Local Vall	i in flow from Dry Valley ley spring not included in recharge calc
XXXXXXXXX 198 199 199 198 E 198 W TR E E E E W Warm Sprine Spring ET 203 203 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,800 0 2,860 321 3,200 3,700 7,300 0	1 1 1 1 1 2 1 1	418 419 423 422 421 420 314 153 149	Spring Spring Spring Spring Spring Spring Spring Spring	-99.3 -98.4 -96.9 -97.0 -96.9 -91.9 -92.1 -96.0 -100.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0	-13.25 -13.08 -12.99 -12.68 -12.34 -12.04 -12.48 -13.95 -13.47 -13.68 -13.40 -13.40 -13.40	-99.3 -97.2 -97.2	-13.25 -13.00 -13.25 -13.00	67 68 Inter-bas Local Vall	i in flow from Dry Valley ley spring not included in recharge calc

F	Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	
1	rr 🛛	Total Recharge	14,700	•			-92.1	-12.46				
١	N	Acoma Well		1	118	Well	-95.0	-12.60				
1		Cave Spring (Clover)		2	247	Spring	-92.8	-12.37				
1	N	Clover Creek Valley Well 246		1	120	Well	-89.0	-12.40				
١		Ramone Mathews Well		1	115	Well	-92.0	-12.30				
S		Big Spring (Clover)		2	253	Spring	-93.6	-12.89				
s	5	East Settling Spring		1	248	Spring	-92.2	-12.76				
	5	Ella Spring		1	251	Spring	-95.8	-12.56				
5	5	Little Springs (Clover Mts)		2	254	Spring	-93.3	-12.81				
5	5	Quaking Aspen Spring		1	255	Spring	-93.6	-12.98				
5	5	Sheep Spring (Clover)		2	108	Spring	-88.8	-12.03				
5		Unnamed Spring		1	113	Spring	-86.5	-11.60				
	Alluvial Well	Clover Creek Valley Well 232		1	114	Well	-84.0	-11.70				
	ET	ET	5,200						-92.1	-12.46		
	205	GW Outflow (LMVW)	9,500						-92.1	-12.46		
	205	SW Outflow (LMVW)	0,000						-92.1	-12.46		
			Ŭ									
)	XXXXXXX	****	XXXXXXXXX	XXXXXXX	(KXXXX)	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
2	203	Panaca Valley										
2	202	Inflow (Patterson)	15,300				-101.3	-13.47				
	98	Inflow (Dry)	7,300				-99.3	-13.25				
	98	SW Inflow (Dry)	7,500 0				-95.5	-13.00				
	203 E	Condor Canyon	2,479				-92.0	-12.19			69	
	203 W	Cathedral Gorge	2,984				-98.9	-13.28			70	
	r R	Total Recharge	5,500				-95.8	-12.78				
	N	Connor Spring	0,000	1	283	Spring	-100.6	-13.84				
	Ň	Deadman Spring (Highland)		2	162	Spring	-95.0	-12.07				
	Ň	Highland Spring		3	163	Spring	-99.1	-13.36				
	Ň	Lime Spring		2	160	Spring	-98.5	-13.16				
	Ň	Pine Spring		2	157	Spring	-99.0	-13.37				
	Ň	Upper Conner Spring		2	156	Spring	-101.2	-13.87				
E		Kiln Spring		1	418	Spring	-91.9	-12.34				
E		Summit Spring (Mahogany Mts.)		1	419	Spring	-92.1	-12.04				
	Varm	Bennett Spring	20	1	141	Spring	-103.0	-13.70	-101.3	-13.47	Inter-basin flow	v from Patterson Valley
	Varm	Caliente Hot Springs (Hotel)	0	8	129	Spring	-107.9	-14.44	-105.7			v from Lake Valley
	Varm	Panaca Spring	7700	13	144	Spring	-106.9	-14.14	-105.7			v from Lake Valley
	Surface	Meadow Valley Wash, Cal.		1	130	Surface	-97.0	-13.10				
	Varm	Lester Mathews Well		1	142	Well	-103.0	-13.30				
	Varm	Panaca Town Well		1	143	Well	-106.0	-14.00				
	Varm	North Lee Well		1	147	Well	-101.0	-13.30				
	ET	ET	18,900						-99.2	-13.22		
	205	GW Outflow (LMVW)	9,200						-100.6	-13.40		
	205	SW Outflow (LMVW)	0						-99.2	-13.22		
	///////////////////////////////////////	~~~~~~	VVVVVVV	~~~~~		~~~~~	****	~~~~~	~~~~~	~~~~~	VVVVVV	
2	XXXXXXXX	****		~~~~~	*****			XXXXXX	~~~~~	~~~~	*****	
2	205	Lower Meadow Valley Wash										
2	203	Inflow (Panaca)	9,200				-100.6	-13.40				
	204	Inflow (Clover)	9,500				-92.1	-12.46				
	203	SW Inflow (Panaca)	0				-99.2	-13.22				
	204	SW Inflow (Clover)	0				-92.1	-12.46				
	205 NW	Delamar Mtns.	3,077				-92.2	-12.28			92	
	205 NE	Clover Mountains	7,290				-90.4	-12.25			93	
	205 SW	Meadow Valley Mtns.	1,146				-87.4	-11.92			94	
	205 SE	Mormon Mtns.	895				-88.3	-12.50			95	
	rR	Total Recharge	12,400				-90.4	-12.24				
	NE	Big Spring (Clover)	,	2	253	Spring	-93.6	-12.89				
	NE	East Settling Spring		1	248	Spring	-92.2	-12.76				
						-1						

Region	Name	Volume	# of	Site#	Site	Obs.	Obs.	Calc.	Calc.	IC	
NE	Ella Spring	Arce-ft/yr	Samples	251	Type Spring	δD -95.8	δ18O -12.56	δD	δ18Ο		
NE	Garden Spring		1	251 246	Spring	-95.8 -87.0	-12.56				
NE	Kershaw-Ryan Spring #1		1	240 250	Spring	-87.0	-11.54				
NE	Sheep Spring (Clover)		2	108	Spring	-88.8	-12.03				
NE	Unnamed Spring		4	113		-00.0 -86.5	-12.03				
NE	Unnamed Spring (Clover)		1	249	Spring Spring	-88.0	-12.20				
NE	Garden Spring (Clover)		1	249 246		-87.0	-12.20				
NW	Abandoned Spring		1	266	Spring Spring	-94.5	-11.54				
NW	1 0		1								
NW	Grassy Spring		3	117	Spring	-88.7	-11.08 E	vaporatec	a so not used	a in recr	harge calculation
	Buckboard Spring			264	Spring	-88.2					
NW	Cottonwood Spring (Delamar)		1	265	Spring	-96.9	-12.87				
NW	Bishop Spring		3	107	Spring	-87.2	-11.72				
NW	Boulder Spring (KSV-4)		4	98	Spring	-89.2	-12.47				
NW	Lower Chokecherry Spring		1	261	Spring	-98.4	-12.98				
NW	Lower Indian Spring		1	267	Spring	-96.0	-12.62				
NW	Narrow Canyon Spring		1	257	Spring	-92.5	-12.47				
NW	Oak Spring		1	269	Spring	-90.0	-11.87				
NW	Red Rock Spring		1	256	Spring	-95.0	-12.30				
NW	Willow Spring (KSV-1)		4	92	Spring	-88.4	-11.60				
NW	Sawmill Spring (Delamar Range)		1	259	Spring	-88.7	-12.58				
NW	Sawmill Spring West		1	258	Spring	-91.8	-12.86				
NW	Unnamed Chokecherry Spring		1	263	Spring	-98.1	-12.54				
NW	Upper Chokecherry Spring		1	262	Spring	-98.9	-12.96				
	Villow Spring 2 (So.of Oak Sps.summit)		1	260	Spring	-91.2	-11.69				
NW	Upper Indian Spring		1	268	Spring	-88.0	-11.46				
NW	Upper Riggs Spring WR4		5	105	Spring	-87.1	-11.95				
SW	Grapevine Spring (KSV-2)		10	93	Spring	-87.4	-11.92				
SE	Davies Spring		1	90	Spring	-89.0	-12.50				
SE	Horse Spring (Morman)		1	85	Spring	-89.0	-12.70				
SE	Hackberry Spring		1	84	Spring	-87.0	-12.30				
Warm	Kershaw-Ryan Spring #1		1	250	Spring	-95.1	-13.11	-96.3	-12.92 We	ighted .	Average of Infterbasin flow from Garnet and Upper Moapa V
Warm	EH-6 Weiser Wash		1	59	Well	-99.5	-13.90				
Warm	EH-8 Weiser Wash		1	57	Well	-96.5	-13.70				
Alluvial Well	Railroad Well (Farrier, NV)		1	80	Well	-97.5	-12.50				
ET	ET	21,900						-93.0	-12.54		
206	GW Outflow (Upper Moapa)	4,000						-96.3	-12.92		
218	GW Outflow (California Wash)	5,200						-96.3	-12.92		
218	SW Outflow (California Wash)	O						-90.4	-12.24		

			R	econnai	ssance Serie	es Water B	udget			
Region	Name	Volume	# of	Site#	Site	Obs.	Obs.	Calc.	Calc.	IC
WWWWWWWW	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Arce-ft/yr			Туре	δD	δ18Ο	δD	δ18Ο	~~~~~
XXXXXXXX	*****		******	*****			XXXXXX	*****		*****
175	Long Valley									
0	Inflow (None)	0				0.0	0.00			
175 SE	Butte Mtn. (S)	2,379				-119.6	-15.53			35
175 SW	Alligator Rdg.	2,501				-121.7	-15.85			36
175 NW	Maverick Springs	3,911				-123.9	-16.23			37
175 NE	Butte Mtn. (N)	1,509				-119.2	-15.36			164
TR	Total Recharge	10,300				-121.7	-15.85			
SE	Butte Spring		1	327	Spring	-120.4	-15.79			
SE	Cabin Spring		1	328	Spring	-124.4	-15.89			
SE	Robbers Roost #2 Spring (Butte)		1	340	Spring	-112.0	-14.39			
SE	Deer Spring (Butte)		1	332	Spring	-114.1	-14.74			
SE	Summit Spring		1	348	Spring	-120.8	-15.94			
SE	Thirty Mile Spring		1	242	Spring	-126.0	-16.40			
NW	Mud Spring (Buck Mts)		1	339	Spring	-117.6	-15.21			
NW	Ram. Res. Wtr Supply Well		1	244	Well	-129.5	-16.75			
NW	Unnamed Near Little Willow Spring		1	351	Spring	-125.9	-17.04			
NW	Well at Alligator Ridge		1	243	Well	-127.0	-16.60			
NW	Woodchuck Spring		1	356	Spring	-119.6	-15.55			
NE	White Rock Spring (Butte)		1	355	Spring	-119.2	-15.36			
ET	ET	2,000						-121.7	-15.85	
174	GW Outflow (Jakes)	8,300						-121.7	-15.85	
XXXXXXXX	*****	XXXXXXXXX	XXXXXXXX	(XXXXX)	XXXXXXXXX		XXXXXX	XXXXXX	XXXXX	XXXXXX
174	Jakes Valley									
175	Inflow (Long)	8,300				-121.7	-15.85			
174 E	Egan Range	5,404				-118.4	-15.31			33
174 W	North White Pine	11,596				-120.3	-15.83			34
TR	Total Recharge	17, 000				-119.7	-15.66			
W	Tunnel Spring		1	366	Spring	-118.3	-15.02			
W	Aspen Springs North		1	349	Spring	-119.3	-15.84			
W	Aspen Springs South		1	324	Spring	-120.9	-16.02			
W	Chicken Spring		1	330	Spring	-122.0	-16.17			
W	Circle Wash Spring		1	331	Spring	-114.5	-15.30			
W	Sage Hen Spring		1	342	Spring	-112.4	-14.76			
W	Sand Spring		1	239	Spring	-123.0	-16.20			
W	Shellback Spring		1	344	Spring	-123.6	-16.54			
W	Unnamed Hayden Canyon Spring		1	350	Spring	-120.9	-15.69			
W	Unnamed Shellback Ridge Spring		1	352	Spring	-123.6	-16.18			
W	Wild Horse Spring (White Pine)		1	240	Spring	-129.0	-16.80			
W	Unnamed Stone Cabin Spring		2	354	Spring	-116.2	-15.39			
W/E	Indian Spring (Butte)		1	334	Spring	-119.1	-15.31			
W/E	Sammy Spring		1	343	Spring	-117.6	-15.30			
W	Upper Illipah Crk		2	238	Surface	-123.5	-16.10 I	Not used in	n W avera	ige
ET	ET	0						-120.3	-15.72	
207N	GW Outflow (NWRV)	25,300						-120.3	-15.72	
XXXXXXXX	*****	XXXXXXXX	xxxxxxx	(XXXXX)	XXXXXXXXX	(XXXXXX)	XXXXXX	XXXXXX	XXXXX	XXXXXX
180	Cave Valley									
0	Inflow (None)	0				0.0	0.00			
180 E	S. Schell Cr. Rng	6,220				-105.0	-14.28			43,44
180 W	S. Egan Rng	7,780				-107.8	-14.28			45,46
	o. Egun Mig	1,100				101.0				70,40

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC			
TR	Total Recharge	14,000				-106.6	-14.28						
E	North Creek Spring		1	214	Spring	-105.0	-14.60						
E	Patterson Pass Spring WR3		15	305	Spring	-108.4	-14.95						
E E E E E E	Unnamed Spring in Schell Creek Range		4	304	Spring	-107.3	-14.48						
E	Sheep Spring (Schell Ck)		1	212	Spring	-99.5	-13.70						
E	Robbers Roost Spring (Schell Ck)		1	389	Spring	-109.7	-14.75						
E	Sidehill Spring	1,600	2	200	Spring	-100.4	-13.21						
W	Big Spring (Egan)		4	206	Spring	-105.5	-13.90						
W	Chimney Rock Spring		2	219	Spring	-110.5	-14.52						
W	Haggerty Spring		1	387	Spring	-109.6	-14.78						
W	Granite Spring		1	440	Spring	-103.4	-13.32						
W W	Hole in the Bank Spring		1 2	386	Spring	-114.9	-15.37						
W	Silver Spring Shingle Spring		2	385 203	Spring	-111.4	-14.71 -13.33						
W	Perry Sp Barcass 37		1	408	Spring Spring	-103.7 -107.7	-15.04						
W	Trough Spring		1	413	Spring	-103.6	-13.56						
ET	ET	200		410	oping	100.0	10.00	-106.6	-14.28				
Well	180W902	200	1	601	Deep Well	-104.7	-14.12	100.0	14.20				
Well	180W501		1	600	Deep Well	-105.6	-14.12						
181	GW Outflow (Dry Lake)	0	•		2000		••••=	-106.6	-14.28				
207S	GW Outflow (SWRV)	13,800						-106.6	-14.28				
xxxxxxx	x xxxxxxxxxxxxxxxxxxxxxxx	~~~~~~~	~~~~~~	~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*****	~~~~~	~~~~~	~~~~~	*****			
	~ ^^^^^		~~~~~	~~~~/	~~~~~	~~~~~	~~~~	~~~~~	~~~~~	~~~~~			
207N	North White River Valley												
174	Inflow (Jakes)	25,300				-120.3	-15.72						
207 NE	Egan Rng North	13,009				-112.4	-15.14			38			
207 NW	White Pine Rng.	12,727				-115.0	-15.18			39, 40			
TR	Total Recharge	25,700				-113.7	-15.16						
NE	on Creek Spring (Unnamed Spring in Gut	ler Canyon)	1	235	Spring	-111.0	-14.90						
NE	Hole in the Bank Spring		1	386	Spring	-114.9	-15.37						
NE	Lone Pine Spring		3	223	Spring	-110.2	-14.90						
NE	North Spring		1	237	Spring	-113.0	-15.00						
NE	High Springs		1	433	Spring	-113.4	-15.43						
NE	Lion Spring (Egan Range)		1	430	Spring	-114.8	-15.34						
NE	Mud Spring		1	446	Spring	-111.0	-14.53						
NE	Pine Springs (Egan Range)		1	434	Spring	-116.0	-15.71						
NE	Unnamed Spring #1(Egan)		1	435	Spring	-112.2	-15.14						
NE	Unnamed Spring #2 (Egan Range)		1	436	Spring	-110.0	-15.14						
NE NE	Unnamed Spring #3 (Egan Range) Unnamed Spring #4 (Egan Range)		1	437 438	Spring	-110.2 -114.0	-15.07 -15.37						
NE	Unnamed Spring #5 (Egan Range)		1	430	Spring	-109.6	-14.72						
NE	Second Sawmill Spring		1	222	Spring Spring	-110.0	-14.72						
NE	South Spring (Egan)		2	236	Spring	-111.5	-15.12						
NE	Upper Terrace Spring WR2		14	270	Spring	-114.0	-15.42						
NE	Water Canyon Spring		1	358	Spring	-114.4	-15.60						
NE	Lund Spring		1	221	Spring	-113.0		Local Valle	ev sprina r	not include	d in rec	harge calc	culation
NE	Water Canyon		2	233	Surface	-116.0						e average	
NW	Big Tom Plain Spring		1	326	Spring	-121.1	-15.92				Ŭ	0	
NW	Deer Spring (White Pine)		2	322	Spring	-119.3	-15.87						
NW	Unnamed Spring #1 (White Pine)		1	359	Spring	-114.8	-15.36						
NW	Unnamed Spring #2 (White Pine)		1	360	Spring	-114.9	-15.66						
NW	Unnamed Spring #3 (White Pine)		1	361	Spring	-113.1	-14.96						
NW	Unnamed Spring #4 (White Pine)		1	362	Spring	-116.3	-15.01						
NW	Unnamed Spring #5 (White Pine)		3	363	Spring	-116.0	-15.36						
NW	Unnamed Spring #6 (White Pine)		1	364	Spring	-115.1	-14.98						
NW	Easter Spring		1	365	Spring	-119.4	-15.56						
NW	Halfway Spring (RS)		2	429	Spring	-108.7	-13.52						
NW	Little Tom Plain Spring		2	337	Spring	-121.0	-15.86						
NW	Monitoring Spring WR1		14	320	Spring	-113.7	-15.58						

Region	Name	Volume	# of	Site#	Site	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	
NW	Saddle Spring (White Pine)	Arce-ft/yr	3	357	Type Spring	-116.8	-15.45	00	0160		
NW	Secret Spring		1	220	Spring	-110.0	-14.00				
NW	Unnamed Spring below Currant Mtn		1	226	Spring	-107.0	-14.00				
NW	Stove Spring		1	347	Spring	-114.5	-15.71				
	red Spring in dry creek bed (White Pine	Range)	1	321	Spring	-113.6	-15.31				
NW	Snowmelt Below Duckwater Peak	5,700	1	224	Surface	-105.0		Surface Wa	ater not inclu	uded in rec	harge average
NW	Little Currant Creek	0,100	1	217	Surface	-113.0					harge average
Warm	Cold Spring, Preston	1,000	2	230	Spring	-123.5	-15.80				
Warm	Nicholas Spring	2,000	1	227	Spring	-124.0	-16.10				
Warm	Preston Big Spring	5,900	11	231	Spring	-122.0	-15.88				
Warm	Discharge Warm Sprs (Avg)	8,900	14			-122.6	-15.92	-120.3	-15.72 Int	er-basi <mark>n fl</mark>	ow from Jakes Valley
ET	ET	22,000						-117.0	-15.44		
207S	GW Outflow (SWRV)	29,000						-117.0	-15.44		
xxxxxxx	****	*******	*****	*****		******	(XXXXX)	*****			
							000000				
207S	South White River Valley	WRV Tot Re	charge								
0071		38,000				447.0					
207N	Inflow (N White River)	29,000				-117.0	-15.44				
180 207 SE	Inflow (Cave)	13,800				-106.6	-14.28			44	
207 SE 207 SW	Egan Rng South	6,529				-106.9	-14.15			41 42	
	Grant Rng	5,735				-106.5	-14.23			42	
TR □	Total Recharge Chimney Rock Spring	12,300	2	219	Spring	-106.7 -110.5	-14.18 -14.52				
E E E E E E E E E E E E			1	387		-10.5	-14.52				
	Haggerty Spring Granite Spring		1	440	Spring	-109.6	-14.76				
	Silver Spring		2	385	Spring Spring	-103.4	-14.71				
	Big Spring (Egan)		4	206	Spring	-105.5	-13.90				
F	Shingle Spring		2	200	Spring	-103.7	-13.33				
	Perry Sp Barcass 37		1	408	Spring	-107.7	-15.04				
F	Trough Spring		1	408	Spring	-107.7	-13.56				
F	Butterfield Spring	4,000	1	202	Spring	-105.0			spring not	included in	recharge calculation
F	Emigrant Spring	1,900	2	202	Spring	-107.8					recharge calculation
E	Flag Spring #3	1,500	1	201	Spring	-105.0					recharge calculation
SW	Albert Spring		1	204	Spring	-107.0	-13.95	iocal valicy	spring not		
SW	Big Spring (Grant)		1	194	Spring	-112.0	-15.20				
SW	Brady Spring		2	282	Spring	-109.5	-15.38				
SW	Forest Home Spring (Unnamed Spring)		1	195	Spring	-108.5	-14.50				
SW	Horse Spring (Grant)		1	370	Spring	-99.5	-12.86				
SW	Teaspoon Spring		1	371	Spring	-100.0	-13.26				
SW	Wiregrass Spring (Grant)		1	372	Spring	-101.4	-13.29				
SW	Murphy Spring		1	373	Spring	-114.5	-15.40				
SW	Little Spring (Grant Range)		1	369	Spring	-99.4	-12.48	Evaporated	d so not use	d in rec <mark>har</mark> g	<mark>ge</mark> calculation
Warm	Hot Creek Campground Well	0	1	198	Well	-118.0	-15.30				
Warm	Hot Creek Springs	10,000	10	197	Spring	-118.9	-15.69				
Warm	Moon River Spring	2,800	1	192	Spring	-120.0	-15.80				
Warm	Moorman Spring	400	1	205	Spring	-119.0	-15.70				
Warm	Discharge Warm Sprs (Avg)	13,200	13			-119.2	-15.71	-117.0		er-basi <mark>n f</mark> l	ow from Northern White River Valley
ET	ET	13,000						-112.1	-14.87		
208	GW Outflow (Pahroc)	42,100						-112.1	-14.87		
208	GW Outflow (Garden Valley)	0						-112.1	-14.87		
XXXXXXXX	****	XXXXXXXX	XXXXXXXX	XXXXX	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXX X	XXXXXX XX	XXXXX	
172	Garden Valley										
172	Inflow (None)	0				-112.1	-14.87				
172 SW	Quinn Canyon Range	5,348				-104.6	-14.08			171	
172 NW	Grant Range	3,502				-105.6	-14.12			170	
172 NE	Golden Gate Rng	428				-98.0	-13.30			55	
172 SE	Worthington Mountains	723				-98.0	-13.30			56	
		, 20				00.0	. 5.00				-

F	legion	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O	IC	
	R	Total Recharge	10,000				-104.2	-14.00				
S	W	Unnamed Spring #7 (Quinn)		1	367	Spring	-105.9	-14.23				
S	SW	Unnamed Spring #8 (Quinn)		1	368	Spring	-104.4	-14.18				
S	SW	Adaven Spring		2	177	Spring	-105.3	-14.01				
	SW	Lower Little Cherry Cr Spring		1	182	Spring	-103.0	-13.90				
S	SW	Carpenter Spring		1	171	Spring	-95.0	-11.85	Evaporated	so not u	used in rec	harge calculation
Ν	IW	Big Spring (Grant)		1	194	Spring	-112.0	-15.20				
Ν	IW	Brady Spring		2	282	Spring	-109.5	-15.38				
		Forest Home Spring (Unnamed Spring)		1	195	Spring	-108.5	-14.50				
	IW	Horse Spring (Grant)		1	370	Spring	-99.5	-12.86				
	IW	Teaspoon Spring		1	371	Spring	-100.0	-13.26				
	W	Wiregrass Spring (Grant)		1	372	Spring	-101.4	-13.29				
	IW	Murphy Spring		1	373	Spring	-114.5	-15.40				
	W	Little Spring (Grant Range)		1	369	Spring	-99.4		Evaporated	so not u	used in rec	harge calculation
S	E	The Seeps (Spring)		1	136	Spring	-98.0	-13.30				
E	т	ET	2,000						-104.2	-14.00		
	71	GW Outflow (Coal)	8,000						-104.2	-14.00		
X	XXXXXXX	****	XXXXXXXXX	(XXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXX O	XXXXXX	XXXXXXX X	XXXXX	XXXXXX	
1	71	Coal Valley										
1	72	Inflow (Garden)	8,000				-104.2	-14.00				
	72	Inflow (SWRV)	0				-112.1	-14.87				
	71 E	Seaman Rng	631				-98.2	-12.87			75	
	71 W	Golden Gate Rng	1,369				-99.0	-13.13			76	
	R	Total Recharge	2,000				-98.7	-13.05				
۷		Cold Spring		1	288	Spring	-98.9	-12.98				
۷		Henry Spring		1	287	Spring	-97.4	-12.77				
۷		Little Cut Spring		2	286	Spring	-98.3	-12.85				
E		Seaman Spring		1	306	Spring	-99.0	-13.13				
	arb Well	USGS-MX C.V. Well (CV-DT-1)		2	176	Well	-109.0	-14.56	-104.2		Underflow	<mark>v from</mark> Garden Valley
	T	ET	0						-103.1	-13.81		
2	08	GW Outflow (Pahranagat)	10,000						-103.1	-13.81		
Х	XXXXXXX	****	xxxxxxx	xxxxxxx	XXXXXX	XXXXXXXXX	xxxxxx	xxxxx	xxxxxx x	XXXXX	XXXXXX	
							0000000					
2	08	Pahroc Valley										
	08 07S	Pahroc Valley	42,100				-112.1	-14.87				
2		-	42,100 0									
2 1	07S	Inflow (S. White River)					-112.1	-14.87			73	
2 1 2	07S 71	Inflow (S. White River) Inflow (Coal)	0				-112.1 0.0	-14.87 0.00			73 74	
2 1 2 2 1	07S 71 08 E 08 W R	Inflow (S. White River) Inflow (Coal) N. Pahroc Rng.	0 1,019				-112.1 0.0 -94.2	-14.87 0.00 -12.42				
2 1 2 2 1	07S 71 08 E 08 W R	Inflow (S. White River) Inflow (Coal) N. Pahroc Rng. Seaman Rng.	0 1,019 1,181	2	158	Spring	-112.1 0.0 -94.2 -99.0	-14.87 0.00 -12.42 -13.13				
2 1 2 2 1	07S 71 08 E 08 W R	Inflow (S. White River) Inflow (Coal) N. Pahroc Rng. Seaman Rng. Total Recharge	0 1,019 1,181		158 169	Spring Spring	-112.1 0.0 -94.2 -99.0 -96.8	-14.87 0.00 -12.42 -13.13 -12.80				
2 1 2 2 1	07S 71 08 E 08 W R	Inflow (S. White River) Inflow (Coal) N. Pahroc Rng. Seaman Rng. Total Recharge Black Rock Spring Coyote Spring Hamilton Spring	0 1,019 1,181	2			-112.1 0.0 -94.2 -99.0 -96.8 -93.8	-14.87 0.00 -12.42 -13.13 -12.80 -12.31				
2 1 2 2 T E E E	07S 71 08 E 08 W R	Inflow (S. White River) Inflow (Coal) N. Pahroc Rng. Seaman Rng. Total Recharge Black Rock Spring Coyote Spring Hamilton Spring Little Boulder Spring	0 1,019 1,181	2 2 1 1	169 298 301	Spring Spring Spring	-112.1 0.0 -94.2 -99.0 -96.8 -93.8 -95.1 -93.1 -93.1 -97.2	-14.87 0.00 -12.42 -13.13 -12.80 -12.31 -12.53 -11.76 -13.06				
2 1 2 2 T E E E	07S 71 08 E 08 W R	Inflow (S. White River) Inflow (Coal) N. Pahroc Rng. Seaman Rng. Total Recharge Black Rock Spring Coyote Spring Hamilton Spring	0 1,019 1,181	2 2 1	169 298	Spring Spring	-112.1 0.0 -94.2 -99.0 -96.8 -93.8 -95.1 -93.1	-14.87 0.00 -12.42 -13.13 -12.80 -12.31 -12.53 -11.76				
2 1 2 2 T E E E E E	07S 71 08 E 08 W R	Inflow (S. White River) Inflow (Coal) N. Pahroc Rng. Seaman Rng. Total Recharge Black Rock Spring Coyote Spring Hamilton Spring Little Boulder Spring Mustang Spring Pahroc Spring	0 1,019 1,181	2 2 1 1	169 298 301 135 131	Spring Spring Spring Spring Spring	-112.1 0.0 -94.2 -99.0 -96.8 -95.8 -95.1 -93.1 -97.2 -90.5 -92.2	-14.87 0.00 -12.42 -13.13 -12.80 -12.31 -12.53 -11.76 -13.06 -12.49 -12.65				
2 1 2 2 T E E E E E	07S 71 08 E 08 W R	Inflow (S. White River) Inflow (Coal) N. Pahroc Rng. Seaman Rng. Total Recharge Black Rock Spring Coyote Spring Hamilton Spring Little Boulder Spring Mustang Spring Pahroc Spring Rattlesnake Spring	0 1,019 1,181	2 2 1 1 2	169 298 301 135 131 302	Spring Spring Spring Spring Spring Spring	-112.1 0.0 -94.2 -99.0 -96.8 -93.8 -93.8 -95.1 -93.1 -97.2 -97.2 -97.3	-14.87 0.00 -12.42 -13.13 -12.80 -12.31 -12.53 -11.76 -13.06 -12.49 -12.65 -12.65				
2 1 2 2 2 2 7 1 2 2 2 7 1 2 2 2 2 2 2 2	07S 71 08 E 08 W R	Inflow (S. White River) Inflow (Coal) N. Pahroc Rng. Seaman Rng. Total Recharge Black Rock Spring Coyote Spring Hamilton Spring Little Boulder Spring Mustang Spring Pahroc Spring Rattlesnake Spring Unnamed Springnr Blackrock	0 1,019 1,181	2 2 1 1 2	169 298 301 135 131 302 299	Spring Spring Spring Spring Spring Spring Spring	-112.1 0.0 -94.2 -99.0 -96.8 -93.8 -95.1 -93.1 -93.1 -97.2 -90.5 -92.2 -97.3 -94.3	-14.87 0.00 -12.42 -13.13 -12.80 -12.31 -12.53 -11.76 -13.06 -12.49 -12.65 -12.65 -11.90				
2 1 2 2 2 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	07S 71 08 E 08 W R	Inflow (S. White River) Inflow (Coal) N. Pahroc Rng. Seaman Rng. Total Recharge Black Rock Spring Coyote Spring Hamilton Spring Little Boulder Spring Mustang Spring Pahroc Spring Rattlesnake Spring Unnamed Spring-nr Blackrock Seaman Spring	0 1,019 1,181	2 2 1 1 2 3 1 1 1	169 298 301 135 131 302 299 306	Spring Spring Spring Spring Spring Spring Spring Spring	-112.1 0.0 -94.2 -99.0 -96.8 -95.1 -93.1 -97.2 -90.5 -92.2 -97.3 -94.3 -99.0	-14.87 0.00 -12.42 -13.13 -12.80 -12.31 -12.53 -11.76 -13.06 -12.49 -12.65 -12.65 -11.90 -13.13			74	
2 1 2 2 2 2 7 T E E E E E E E E E E E E E E E E E E	07S 71 08 E 08 W R R	Inflow (S. White River) Inflow (Coal) N. Pahroc Rng. Seaman Rng. Total Recharge Black Rock Spring Coyote Spring Hamilton Spring Little Boulder Spring Mustang Spring Pahroc Spring Rattlesnake Spring Unnamed Spring-nr Blackrock Seaman Spring White Rock Spring (Seaman Range)	0 1,019 1,181 2,200	2 2 1 1 2	169 298 301 135 131 302 299	Spring Spring Spring Spring Spring Spring Spring	-112.1 0.0 -94.2 -99.0 -96.8 -93.8 -95.1 -93.1 -93.1 -97.2 -90.5 -92.2 -97.3 -94.3	-14.87 0.00 -12.42 -13.13 -12.80 -12.31 -12.53 -11.76 -13.06 -12.49 -12.65 -12.65 -11.90 -13.13	•		74	ge calculation
2 1 2 2 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2	07S 71 08 E 08 W R	Inflow (S. White River) Inflow (Coal) N. Pahroc Rng. Seaman Rng. Total Recharge Black Rock Spring Coyote Spring Hamilton Spring Little Boulder Spring Mustang Spring Pahroc Spring Rattlesnake Spring Unnamed Spring-nr Blackrock Seaman Spring	0 1,019 1,181	2 2 1 1 2 3 1 1 1	169 298 301 135 131 302 299 306	Spring Spring Spring Spring Spring Spring Spring Spring	-112.1 0.0 -94.2 -99.0 -96.8 -95.1 -93.1 -97.2 -90.5 -92.2 -97.3 -94.3 -99.0	-14.87 0.00 -12.42 -13.13 -12.80 -12.31 -12.53 -11.76 -13.06 -12.49 -12.65 -12.65 -11.90 -13.13	Evaporateo -111.3 -111.3	-14.77 -14.77	74	ge calculation
2 1 2 2 2 1 1 2 2 2 1 1 2 2 1 1 2 2 2 2	07S 71 08 E 08 W R R vaporated T 09	Inflow (S. White River) Inflow (Coal) N. Pahroc Rng. Seaman Rng. Total Recharge Black Rock Spring Coyote Spring Hamilton Spring Little Boulder Spring Mustang Spring Pahroc Spring Rattlesnake Spring Unnamed Spring-nr Blackrock Seaman Spring White Rock Spring (Seaman Range) ET GW Outflow (Pahranagat)	0 1,019 1,181 2,200 0 44,300	2 2 1 1 2 3 1 1 1 1	169 298 301 135 131 302 299 306 154	Spring Spring Spring Spring Spring Spring Spring Spring Spring	-112.1 0.0 -94.2 -99.0 -96.8 -93.8 -95.1 -97.2 -90.5 -92.2 -97.3 -94.3 -99.0 -90.0	-14.87 0.00 -12.42 -13.13 -12.80 -12.31 -12.53 -11.76 -13.06 -12.49 -12.65 -12.65 -11.90 -13.13 -12.10	-111.3 -111.3	-14.77 -14.77	74 d in rechar	ge calculation
2 1 2 2 2 2 1 1 2 2 1 2 1 2 2 2 2 2	07S 71 08 E 08 W R R vaporated T 09	Inflow (S. White River) Inflow (Coal) N. Pahroc Rng. Seaman Rng. Total Recharge Black Rock Spring Coyote Spring Hamilton Spring Little Boulder Spring Mustang Spring Pahroc Spring Rattlesnake Spring Unnamed Springnr Blackrock Seaman Spring White Rock Spring (Seaman Range) ET	0 1,019 1,181 2,200 0 44,300	2 2 1 1 2 3 1 1 1 1	169 298 301 135 131 302 299 306 154	Spring Spring Spring Spring Spring Spring Spring Spring Spring	-112.1 0.0 -94.2 -99.0 -96.8 -93.8 -95.1 -97.2 -90.5 -92.2 -97.3 -94.3 -99.0 -90.0	-14.87 0.00 -12.42 -13.13 -12.80 -12.31 -12.53 -11.76 -13.06 -12.49 -12.65 -12.65 -11.90 -13.13 -12.10	-111.3 -111.3	-14.77 -14.77	74 d in rechar	ge calculation

Pahranagat Valley

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	
208	Inflow (Pahroc)	44,300				-111.3	-14.77				
171	Inflow (Coal)	10,000				-103.1	-13.81				
209	Inflow (Delamar)	6,200				-97.7	-12.96				
209 E	S. Pahroc Rng.	528				-94.9	-12.83			77, 78	
209 W	Mt. Irish/Pahranagat Rng.	1,272				-98.4	-14.24		79, 80 (172, 173)	
TR	Total Recharge	1,800				-97.4	-13.83				
E E E E E E S	Eightmile Spring		2	295	Spring	-95.6	-13.09				
E	Gulch Spring(Unnamed Spring in Hells A	cres Gulch)	1	109	Spring	-93.0	-12.30				
E	Sixmile Spring		1	112	Spring	-93.4	-13.06				
E	Twin Spring		1	294	Spring	-97.4	-13.24				
E	named Spring in Road(South Pahroc Rang	ge)	1 1	303	Spring	-96.7	-13.07				
C	Unnamed Spring nr Six Mile seep		1	296 297	Spring	-94.5 -93.8	-12.62 -12.44				
S	Water Tank 0.4mi West of Sixmile Maynard Lake Spring (Unnamed Spring)		1	297 94	Spring Spring	-93.0 -94.0		l ocal Valle	w spring r	not includer	in recharge calculation
W	Reed Spring		1	289	Spring	-94.0	-14.24		sy spring i		and the calculation
Warm	Ash Springs	12400	6	110	Spring	-109.1	-14.11				
Warm	Little Ash Spring (Ash Spring)	500	1	111	Spring	-107.2	-14.20				
Warm	Crystal Springs	8,200	17	116	Spring	-108.8	-14.41				
Warm	Hiko Spring	4,300	7	122	Spring	-108.7	-14.39				
Warm	Discharge Warm Springs (Avg)	25,400	31			-108.9	-14.26	-111.3	-14.77 I	Inter-basi <mark>n</mark>	flow from Pahroc Valley
ET	ET	25,000						-108.3	-14.41		
Warm	209M-1		1	608	Deep Well	-104.7	-13.53	-111.3	-14.77 I	Inter-basi <mark>n</mark>	flow from Pahroc Valley
210	GW Outflow (Coyote Spr)	37,300						-108.3	-14.41		
xxxxxxx	<pre></pre>		xxxxxxx	ххххх	(XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	xxxxxx	xxxxx	xxxxxx	xxxxx	xxxxxx	
181	Dry Lake Valley										
180	Inflow (None)	0				0.0	0.00				
181 NW	S. Schell Ck Range	854				-100.4	-13.21			59	
181 SW	N. Pahroc Rng.	124				-94.2	-12.42			57	
181 NE	Fairview Rng.	1,180				-99.5	-12.89			58	
181 E	Bristol/Highland Rng.	2,567				-98.9	-13.28			61	
181 SE	Burnt Springs Rng.	274				-94.6	-12.36			62	
TR	Total Recharge	5,000		400	. .	-98.9	-13.10				
E E E E	Deadman Spring (Highland)		2	162	Spring	-95.0	-12.07				
	Highland Spring Lime Spring		3 2	163 160	Spring	-99.1 -98.5	-13.36 -13.16				
F	Pine Spring		2	157	Spring Spring	-99.0	-13.37				
F	Connor Spring		1	283	Spring	-100.6	-13.84				
E	Upper Conner Spring		2	156	Spring	-101.2	-13.87				
SE	Red Rock Spring		1	256	Spring	-95.0	-12.30				
SE	Abandoned Spring		1	266	Spring	-94.5	-12.32				
SE	Buckboard Spring		1	264	Spring	-88.2	-11.71				
SE	Cottonwood Spring (Delamar)		1	265	Spring	-96.9	-12.87				
SE	Lower Chokecherry Spring		1	261	Spring	-98.4	-12.98				
SE	Oak Spring		1	269	Spring	-90.0	-11.87				
SE	Unnamed Chokecherry Spring		1	263	Spring	-98.1	-12.54				
SE	Upper Chokecherry Spring		1	262	Spring	-98.9	-12.96				
SE	Willow Spring 2 (So.of Oak Sps.summit)		1	260	Spring	-91.2	-11.69				
NE	Bailey Spring (Fairview)		2	277	Spring	-98.2	-12.69				
NE	Cottonwood Spring (Fairview)		1	274	Spring	-102.2	-13.40				
NE	Littlefield Spring		1	275	Spring	-98.5	-12.73				
NE NE	Lower Pony Spring		2 1	190 276	Spring	-101.0	-13.25				
NE	Meloy Spring Scotty Spring		1	276	Spring	-99.8	-12.75				
NE	Scotty Spring Indian Spring near Steward Ranch		1	272 188	Spring Spring	-98.9 -102.0	-12.73 -13.60				
NE	Unnamed Spring near Pony Spring		1	191	Spring	-102.0	-12.90				
NE	Fence Spring		1	278	Spring	-99.0 -97.4	-12.90				
NE	Fox Cabin		1	273	Spring	-103.5	-13.59				
					Shin.a		. 5.00			-	

	Name	Volume	# of	Site#	Site	Obs.	Obs.	Calc.	Calc.		
NE	Lower Fairview	a ce-n/yr	Samples	281	Type Spring	δD -97.5	δ18O -12.39	δD	δ18Ο	'	
NE	Robison Spring		1	279	Spring	-97.9	-12.34				
NE	Upper Fairview		1	280	Spring	-97.7	-12.66				
SW	Black Rock Spring		2	158	Spring	-93.8	-12.31				
SW	Coyote Spring		2	169	Spring	-95.1	-12.53				
SW	Hamilton Spring		1	298	Spring	-93.1	-11.76				
SW	Little Boulder Spring		1	301	Spring	-97.2	-13.06				
SW	Mustang Spring		2	135	Spring	-90.5	-12.49				
SW	Pahroc Spring		3	131	Spring	-92.2	-12.65				
SW	Rattlesnake Spring		1	302	Spring	-97.3	-12.65				
SW	Unnamed Springnr Blackrock		1	299	Spring	-94.3	-11.90				
NW	Sidehill Spring	1,600	2	200	Spring	-100.4	-13.21				
Evaporated		1,000	2	117	Spring	-88.7		Vaporator	t co not	used in rech	narge calculation
	, , , ,		1	183		-92.5					harge calculation
Evaporated Carb Well			2	179	Spring	-92.5 -107.5	-11.70 c				•
	Fugro Dry Lake V Deep Well		1		Well Deen Well			-98.9		Local Rec	
Carb Well	181M1		-	603	Deep Well	-105.0	-13.67	-98.9		Local Rec	
Carb Well	181W909M	•	1	604	Deep Well	-104.6	-13.50	-98.9		Local Rec	narge
ET	ET	0						-98.9	-13.10		
209	GW Outflow (Pahranagat)	0						-98.9	-13.10		
182	GW Outflow (Delamar)	5,000						-98.9	-13.10	,	
xxxxxxx	<pre>c xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</pre>	*****	******	*****	····	******	******		*****		
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182	Delamar Valley										
181	Inflow (Dry Lake)	5,000				-98.9	-13.10				
182 E	Delamar Mtns.	1,037				-92.5	-12.32			81	
182 W	S. Pahroc Rng.	163				-94.6	-12.81			82	
TR	Total Recharge	1,200				-92.7	-12.38			02	
	Abandoned Spring	.,	1	266	Spring	-94.5	-12.32				
	, individue opring										
F	Red Rock Spring		1				-12 30				
E	Red Rock Spring Oak Spring		1	256	Spring	-95.0	-12.30 -11 87				
E E F	Oak Spring		1 1 1	256 269	Spring Spring	-95.0 -90.0	-11.87				
E E E	Oak Spring Upper Chokecherry Spring		1 1 1	256 269 262	Spring Spring Spring	-95.0 -90.0 -98.9	-11.87 -12.96				
E E E E	Oak Spring Upper Chokecherry Spring Upper Indian Spring		1 1 1	256 269 262 268	Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.0	-11.87 -12.96 -11.46				
E E E E	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring		1 1 1 1	256 269 262 268 267	Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.0 -96.0	-11.87 -12.96 -11.46 -12.62				
E E E E E	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4)		1 1 1 1 4	256 269 262 268 267 98	Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.0 -96.0 -89.2	-11.87 -12.96 -11.46 -12.62 -12.47				
E E E E E E E	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring		1 1 1 4 1	256 269 262 268 267 98 257	Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.0 -96.0 -89.2 -92.5	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47				
E E E E E E E	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring		1 1 1 1 4	256 269 262 268 267 98 257 107	Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.0 -96.0 -89.2 -92.5 -87.2	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72				
	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Buckboard Spring		1 1 1 4 1	256 269 262 268 267 98 257 107 264	Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.0 -96.0 -89.2 -92.5 -87.2 -88.2	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72 -11.71				
E E E E E E E E E E E E E	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Buckboard Spring Cottonwood Spring (Delamar)		1 1 1 4 1 3 1 1	256 269 262 268 267 98 257 107 264 265	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.0 -96.0 -89.2 -92.5 -87.2 -88.2 -96.9	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72 -11.71 -12.87				
E E E E E E E E E E E E E E E E E E E	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring		1 1 1 4 1 3 1 1	256 269 262 268 267 98 257 107 264 265 261	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.0 -96.0 -89.2 -92.5 -87.2 -88.2 -96.9 -98.4	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72 -11.71 -12.87 -12.98				
	Oak Spring Upper Chokecherry Spring Upper Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Sawmill Spring (Delamar Range)		1 1 1 4 1 3 1 1	256 269 262 268 267 98 257 107 264 265 261 259	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.0 -96.0 -89.2 -92.5 -87.2 -87.2 -88.2 -96.9 -98.4 -88.7	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72 -11.71 -12.87 -12.98 -12.58				
	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Sawmill Spring (Delamar Range) Sawmill Spring West		1 1 1 4 1 3 1 1 1 1	256 269 262 268 267 98 257 107 264 265 261 259 258	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.0 -96.0 -89.2 -92.5 -87.2 -87.2 -86.9 -98.4 -88.7 -91.8	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72 -11.71 -12.87 -12.98 -12.58 -12.86				
	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Sawmill Spring (Delamar Range) Sawmill Spring West Upper Riggs Spring WR4		1 1 4 1 3 1 1 1 1 5	256 269 262 268 267 98 257 107 264 265 261 259 258 105	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.0 -96.0 -89.2 -92.5 -87.2 -88.2 -96.9 -98.4 -88.7 -91.8 -87.1	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72 -11.72 -11.71 -12.87 -12.98 -12.58 -12.58 -12.86 -11.95				
	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Sawmill Spring (Delamar Range) Sawmill Spring West Upper Riggs Spring WR4 Unnamed Chokecherry Spring		1 1 1 1 1 1 1 1 5 1	256 269 262 268 267 98 257 107 264 265 261 259 258 105 263	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.0 -96.0 -89.2 -92.5 -87.2 -88.2 -96.9 -98.4 -88.7 -91.8 -87.1 -98.1	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72 -11.71 -12.87 -12.98 -12.58 -12.58 -11.95 -12.54				
	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Sawmill Spring (Delamar Range) Sawmill Spring West Upper Riggs Spring WR4 Unnamed Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit)		1 1 1 4 1 3 1 1 1 5 1 1	256 269 262 268 267 98 257 107 264 265 265 261 259 258 105 263 260	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.0 -96.0 -89.2 -92.5 -87.2 -88.2 -96.9 -98.4 -88.7 -91.4 -98.1 -98.1 -91.2	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72 -11.72 -11.71 -12.87 -12.88 -12.88 -12.88 -12.58 -11.95 -12.54 -11.69				
EEEEEEEEEEEE	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Sawmill Spring (Delamar Range) Sawmill Spring West Upper Riggs Spring WR4 Unnamed Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Pahroc Spring		1 1 1 4 1 3 1 1 1 5 1 1 3	256 269 262 268 267 98 257 107 264 265 261 259 258 105 263 260 131	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -96.0 -92.5 -87.2 -86.2 -92.5 -87.2 -86.2 -96.4 -88.7 -91.8 -87.1 -91.8 -87.1 -91.2 -92.2	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72 -11.72 -11.71 -12.87 -12.58 -12.58 -12.54 -11.69 -12.65				
W W	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Sawmill Spring (Delamar Range) Sawmill Spring West Upper Riggs Spring WR4 Unnamed Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Pahroc Spring Gulch Spring(Unnamed Spring in Hells Acre	es Gulch)	1 1 1 4 1 3 1 1 1 5 1 1 3 1	256 269 262 268 267 98 257 107 264 265 261 259 258 105 263 260 131 109	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.9 -96.0 -89.2 -92.5 -87.2 -88.2 -96.9 -98.4 -88.7 -91.8 -87.1 -91.8 -87.1 -91.2 -92.2 -93.0	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72 -11.71 -12.87 -12.98 -12.58 -12.58 -12.86 -11.95 -12.65 -12.30				
W W W	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Sawmill Spring (Delamar Range) Sawmill Spring (Delamar Range) Sawmill Spring West Upper Riggs Spring WR4 Unnamed Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Pahroc Spring Gulch Spring (Unnamed Spring in Hells Acre Sixmile Spring	es Gulch)	1 1 1 1 1 1 1 1 5 1 1 3 1 1 1	256 269 262 268 257 107 264 265 261 259 258 105 263 263 263 263 263 131 109 112	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.0 -96.0 -89.2 -92.5 -87.2 -88.2 -96.9 -98.4 -88.7 -91.8 -87.1 -91.8 -87.1 -91.8 -87.1 -91.2 -92.2 -93.0 -93.4	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -12.47 -12.77 -12.87 -12.88 -12.58 -12.58 -12.54 -11.95 -12.54 -11.69 -12.30 -13.06				
W W W W	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Sawmill Spring (Delamar Range) Sawmill Spring (Delamar Range) Sawmill Spring West Upper Riggs Spring WR4 Unnamed Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Pahroc Spring Gulch Spring (Unnamed Spring in Hells Acre Sixmile Spring Eightmile Spring	es Gulch)	1 1 1 4 1 3 1 1 1 5 1 1 3 1	256 269 262 268 267 98 257 107 264 265 261 259 258 105 263 260 131 109 112 295	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.0 -96.0 -89.2 -92.5 -87.2 -88.2 -96.9 -98.4 -88.7 -91.8 -87.1 -91.8 -87.1 -91.8 -87.1 -91.2 -92.2 -93.0 -93.4 -95.6	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72 -11.71 -12.87 -12.88 -12.58 -12.86 -11.95 -12.54 -11.69 -12.65 -12.30 -13.06 -13.09				
W W W W	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Sawmill Spring (Delamar Range) Sawmill Spring Uest Upper Riggs Spring WR4 Unnamed Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Pahroc Spring Gulch Spring(Unnamed Spring in Hells Acre Sixmile Spring Eightmile Spring Lightmile Spring Twin Spring		1 1 1 1 1 1 1 1 1 1 1 1 1 2 1	256 269 262 268 257 107 264 265 261 259 258 105 263 260 131 109 212 295 294	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.0 -92.5 -87.2 -88.2 -96.9 -98.4 -88.7 -91.8 -87.1 -91.2 -92.2 -92.2 -93.4 -93.4 -95.6 -97.4	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72 -11.71 -12.98 -12.86 -11.95 -12.54 -11.69 -12.65 -12.65 -13.06 -13.09 -13.24				
W W W W W	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Sawmill Spring (Delamar Range) Sawmill Spring West Upper Riggs Spring WR4 Unnamed Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Pahroc Spring Gulch Spring (Unnamed Spring in Hells Acre Sixmile Spring Eightmile Spring Twin Spring iamed Spring in Road(South Pahroc Range		1 1 1 1 1 1 1 1 5 1 1 3 1 1 1	256 269 262 268 267 98 257 107 264 265 261 259 258 105 260 131 109 112 295 294 303	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -98.9 -96.0 -92.5 -87.2 -88.2 -96.2 -96.4 -88.7 -91.8 -87.1 -98.4 -88.7 -91.8 -87.1 -91.2 -92.2 -93.0 -93.4 -95.6 -97.4 -96.7	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72 -11.71 -12.87 -12.88 -12.88 -12.88 -12.88 -12.54 -11.95 -12.54 -11.69 -12.65 -12.30 -13.09 -13.24 -13.07				
₩ ₩ ₩ ₩ ₩ ₩	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Sawmill Spring (Delamar Range) Sawmill Spring West Upper Riggs Spring WR4 Unnamed Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Pahroc Spring Gulch Spring(Unnamed Spring in Hells Acre Sixmile Spring Eightmile Spring Twin Spring iamed Spring in Road(South Pahroc Range Unnamed Spring n Six Mile seep		1 1 1 4 1 3 1 1 1 4 1 3 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	256 269 262 268 267 98 257 107 264 259 258 105 265 261 259 258 105 260 131 109 112 295 294 303 296	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.9 -92.5 -87.2 -88.2 -96.9 -98.4 -88.7 -91.8 -87.1 -91.8 -87.1 -91.8 -92.2 -93.0 -93.4 -95.6 -97.4 -96.7 -94.5	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72 -11.71 -12.87 -12.58 -12.58 -12.58 -12.58 -12.58 -12.65 -12.30 -13.06 -13.09 -13.24 -13.07 -12.62				
♥ ♥ ♥ ♥ ♥ ♥ ♥	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Buckboard Spring (Delamar) Cottonwood Spring (Delamar) Lower Chokecherry Spring Sawmill Spring (Delamar Range) Sawmill Spring (Delamar Range) Sawmill Spring West Upper Riggs Spring WR4 Unnamed Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Pahroc Spring Gulch Spring(Unnamed Spring in Hells Acre Sixmile Spring Eightmile Spring Eightmile Spring amed Spring in Road(South Pahroc Range Unnamed Spring rn Six Mile seep Water Tank 0.4mi West of Sixmile		1 1 1 4 1 3 1 1 1 5 1 1 2 1 1 1 1 1 1 1	256 269 262 268 257 107 264 265 261 259 258 105 263 263 263 131 109 112 295 294 303 296 297	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -86.0 -92.5 -87.2 -88.2 -96.9 -98.4 -98.4 -98.4 -98.1 -91.8 -87.1 -91.8 -87.1 -91.8 -92.2 -93.0 -93.4 -95.6 -97.4 -95.6 -97.4 -95.8	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72 -11.72 -11.71 -12.87 -12.58 -12.58 -12.58 -12.54 -11.95 -12.54 -11.69 -12.62 -13.00 -13.06 -13.07 -12.62 -12.44				
W W W W W W Evaporated	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Buckboard Spring (Delamar) Lower Chokecherry Spring Sawmill Spring (Delamar Range) Sawmill Spring (Delamar Range) Sawmill Spring West Upper Riggs Spring WR4 Unnamed Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Pahroc Spring Gulch Spring (Unnamed Spring in Hells Acre Sixmile Spring Eightmile Spring Lightmile Spring Unnamed Spring in Koad (South Pahroc Range Unnamed Spring ri Six Mile seep Water Tank 0.4mi West of Sixmile Grassy Spring	)	1 1 1 4 1 3 1 1 1 4 1 3 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	256 269 262 268 267 98 257 107 264 259 258 105 265 261 259 258 105 260 131 109 112 295 294 303 296	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.9 -92.5 -87.2 -88.2 -96.9 -98.4 -88.7 -91.8 -87.1 -91.8 -87.1 -91.8 -92.2 -93.0 -93.4 -95.6 -97.4 -96.7 -94.5	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72 -11.72 -11.71 -12.87 -12.58 -12.58 -12.58 -12.54 -11.95 -12.54 -11.69 -12.62 -13.00 -13.06 -13.07 -12.62 -12.44				narge calculation
W W W W W W Evaporated ET	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Sawmill Spring (Delamar Range) Sawmill Spring (Delamar Range) Sawmill Spring West Upper Riggs Spring WR4 Unnamed Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Pahroc Spring Gulch Spring(Unnamed Spring in Hells Acre Sixmile Spring Eightmile Spring Eightmile Spring Iamed Spring in Road(South Pahroc Range Unnamed Spring nr Six Mile seep Water Tank 0.4mi West of Sixmile Grassy Spring ET		1 1 1 1 4 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1	256 269 262 268 267 98 257 107 264 265 261 259 258 105 263 260 131 109 112 295 294 303 296 297 117	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.0 -96.0 -89.2 -92.5 -87.2 -88.2 -96.9 -98.4 -88.7 -91.8 -87.1 -91.2 -92.2 -93.0 -93.4 -95.6 -97.4 -96.7 -94.5 -93.8 -88.7	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72 -11.71 -12.87 -12.88 -12.58 -12.58 -12.54 -11.95 -12.54 -11.69 -13.06 -13.09 -13.24 -13.07 -12.24 -11.08 E	-97.7	-12.96	;	
W W W W W Evaporated ET Well	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Buckboard Spring (Delamar) Lower Chokecherry Spring Sawmill Spring (Delamar Range) Sawmill Spring (Delamar Range) Sawmill Spring (Delamar Range) Sawmill Spring West Upper Riggs Spring WR4 Unnamed Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Pahroc Spring Gulch Spring(Unnamed Spring in Hells Acre Sixmile Spring Eightmile Spring Eightmile Spring Imamed Spring in Road(South Pahroc Range Unnamed Spring nr Six Mile seep Water Tank 0.4mi West of Sixmile Grassy Spring ET 182W906M	) 0	1 1 1 4 1 3 1 1 1 5 1 1 2 1 1 1 1 1 1 1	256 269 262 268 257 107 264 265 261 259 258 105 263 263 263 131 109 112 295 294 303 296 297	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -86.0 -92.5 -87.2 -88.2 -96.9 -98.4 -98.4 -98.4 -98.1 -91.8 -87.1 -91.8 -87.1 -91.8 -92.2 -93.0 -93.4 -95.6 -97.4 -95.6 -97.4 -95.8	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72 -11.72 -11.71 -12.87 -12.58 -12.58 -12.58 -12.54 -11.95 -12.54 -11.69 -12.62 -13.00 -13.06 -13.07 -12.62 -12.44	-97.7 -98.9	-12.96 -13.10	) Inter-basin	narge calculation n flow from Dry Lake
W W W W W W Evaporated ET	Oak Spring Upper Chokecherry Spring Upper Indian Spring Lower Indian Spring Boulder Spring (KSV-4) Narrow Canyon Spring Bishop Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Sawmill Spring (Delamar Range) Sawmill Spring (Delamar Range) Sawmill Spring West Upper Riggs Spring WR4 Unnamed Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Pahroc Spring Gulch Spring(Unnamed Spring in Hells Acre Sixmile Spring Eightmile Spring Eightmile Spring Iamed Spring in Road(South Pahroc Range Unnamed Spring nr Six Mile seep Water Tank 0.4mi West of Sixmile Grassy Spring ET	)	1 1 1 1 4 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1	256 269 262 268 267 98 257 107 264 265 261 259 258 105 263 260 131 109 112 295 294 303 296 297 117	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-95.0 -90.0 -98.9 -88.0 -96.0 -89.2 -92.5 -87.2 -88.2 -96.9 -98.4 -88.7 -91.8 -87.1 -91.2 -92.2 -93.0 -93.4 -95.6 -97.4 -96.7 -94.5 -93.8 -88.7	-11.87 -12.96 -11.46 -12.62 -12.47 -12.47 -11.72 -11.71 -12.87 -12.88 -12.58 -12.58 -12.54 -11.95 -12.54 -11.69 -13.06 -13.09 -13.24 -13.07 -12.24 -11.08 E	-97.7	-12.96	) Inter-basir	

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	
206	Kane Springs Valley										
0	Inflow (None)	0				0.0	0.00				
206 W	Delamar Mtns.	563				-89.0	-12.22			90	
206 E	Meadow Valley Mtns.	0				-87.4	-11.92			91	
TR	Total Recharge	600				-89.0	-12.22				
E	Grapevine Spring (KSV-2)		10	93	Spring	-87.4	-11.92				
W	Sawmill Spring (Delamar Range)		1	259	Spring	-88.7	-12.58				
W	Sawmill Spring West		1	258	Spring	-91.8	-12.86				
W	Bishop Spring		3	107	Spring	-87.2	-11.72				
W	Boulder Spring (KSV-4)		4	98	Spring	-89.2	-12.47				
W	Kane Springs (KSV-3)		3	97	Spring	-86.8	-12.13				
W	Narrow Canyon Spring		1	257	Spring	-92.5	-12.47				
W	Upper Riggs Spring WR4		5 4	105	Spring	-87.1	-11.95				
ET	Willow Spring (KSV-1) ET	0	4	92	Spring	-88.4	-11.60	-89.0	-12.22		
210	GW Outflow (Coyote Spr)	600						-89.0	-12.22		
xxxxxxx	x xxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxx	*****	«xxxxx	****	XXXXXXX	xxxxxx	XXXXXX	xxxxxx x	xxxxx	
210	Coyote Springs Valley						000000				
	, , , , ,										
209	Inflow (Pahranagat)	37,300				-108.3	-14.41				
182	Inflow (Delamar)	0				0.0	0.00				
206	Inflow (Kane Springs)	600				-89.0	-12.22				
210 NE	S. Delamar Mtns.	27				-89.0	-12.22			83	
210 E	S. Meadow Valley Mtns.	0				-87.4	-11.92			84	
210 NW	S. of Maynard Lake	0				-94.0	-12.30			87	
210 SE	Arrow Canyon Rng.	4				-81.0	-10.60			88	
210 W	Sheep Range	2,007				-92.7	-12.83			89	
TR	Total Recharge	2,000	4	47	Carina	-92.6	-12.81				
W W	Cow Camp Spring		4	47	Spring	-91.9	-12.53				
W	Lamb Spring		1 3	86 53	Spring	-92.5 -91.8	-13.15 -12.67				
W	Mormon Well Spring Rye Patch Spring		1	341	Spring Spring	-89.3	-12.07				
W	Sawmill Spring (Sheep)		1	58	Spring	-09.0	-12.85				
Ŵ	Sheep Spring (Sheep Range)		1	83	Spring	-92.0	-13.35				
Ŵ	Wiregrass Spring (Sheep)		13	49	Spring	-95.1	-12.93				
Ŵ	White Rock Spring (Sheep)		2	64	Spring	-85.5		Evaporate	d not used i	n rechar <mark>ge</mark>	calcula
NW	Maynard Lake Spring (Unnamed Spring)		1	94	Spring	-94.0	-12.30			go	
SE	Wamp Spring		1	52	Spring	-81.0	-10.60				
E	Grapevine Spring (KSV-2)		10	93	Spring	-87.4	-11.92				
NE	Bishop Spring		3	107	Spring	-87.2	-11.72				
NE	Boulder Spring (KSV-4)		4	98	Spring	-89.2	-12.47				
NE	Kane Springs (KSV-3)		3	97	Spring	-86.8	-12.13				
NE	Narrow Canyon Spring		1	257	Spring	-92.5	-12.47				
NE	Sawmill Spring (Delamar Range)		1	259	Spring	-88.7	-12.58				
NE	Sawmill Spring West		1	258	Spring	-91.8	-12.86				
NE	Upper Riggs Spring WR4		5	105	Spring	-87.1	-11.95				
NE	Willow Spring (KSV-1)		4	92	Spring	-88.4	-11.60				
Carb Well	CSVM-2		1	612	Well	-97.7	-13.14				
Carb Well	CSVM-3		1	613	Well	-98.0	-13.10				
Carb Well	CSVM-4		1	614	Well	-102.5	-13.41				
Carb Well	CSVM-6		1	616	Well	-100.7	-12.97				
Carb Well	CSI-1		1	609	Well	-102.6	-13.08				
Carb Well	CSI-2		1	610	Well	-100.2	-12.90				
Carb Well	CSI-3		1	611	Well	-99.6	-13.03				
Carb Well	USGS CSV-1		1	71	Well	-103.0	-13.55				
Carb Well	CE-VF-2 Well		2	81	Well	-101.0	-13.10				
Carb Well	Fugro CV Deep Well CE-DT-5		3	77	Well	-99.6	-12.96				

C E C	egion arb Well T ARB 19	Name CE-DT-4 ET Carbonate Well (Avg) GW Outflow (Muddy)	Volume Arce-ft/yr 500 39,400	# of Samples 1 6	Site# 78	Site Type Well	Obs. δD -102.5 -100.7	Obs. δ180 -13.00 -13.11	Calc. δD -107.2 -107.9 -107.2	Calc. δ18Ο -14.29 -14.37 -14.29	IC Flow wei <mark>ghted</mark>	average of inter-basin flow from Pahranagat, Kane Springs, and Delamar Valleys
2 2	17 16	GW Outflow (Hidden) GW Outflow (Garnet)	0			~~~~~~			0.0 0.0	0.00 0.00		
X	XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	****	*****	XXXXXX	*****	XXXXXXX		XXXXXX	XXXXXX	XXXXXX	
2	19	Upper Moapa (Muddy) Valley										
2 2 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	05 10 19 S 19 N R Varm Varm Varm	Inflow (LMVW) Inflow (Coyote) E. Arrow Canyon? Wildcat Wash Total Recharge APCAR Baldwin Spring Big Muddy Spring	0 39,400 0 0 2226 5500	1 9 6	292 291 69	Spring Spring Spring	0.0 -107.2 -87.3 -87.3 -98.2 -97.6 -97.9	-11.86 ( -11.86 -12.94 -12.97 -12.89	Grapevine Grapevine		85 86	
	Varm Varm Varm Varm Varm Varm Carb Well Carb Well	Iverson's Spring Jones Spring Pumphouse M-8 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) Pederson's East Pederson's Warm Spring (M-13) <b>Dicharge Warm Sprs (Avg)</b> CE-DT-6 Well CSV-2 Well	0 0 200 0 400 <b>8,300</b>	1 6 1 9 15 <b>49</b> 2 2	65 292 68 70 290 67 72 76	Spring Spring Spring Spring Spring Well Well	-97.0 -97.9 -99.0 -96.5 -97.8 -97.5 <b>-97.8</b> -98.0 -97.9	 -13.05 -12.75 -12.45 -12.98 -12.93 <b>-12.90</b> -13.03 -12.92	-107.2	-14.29	Flow wei <mark>ghted</mark>	average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys
0 E G 2	ARB T Gage 18 18		Input into N 0 34,000 34,000 5,400			Wein	-97.9	-12.97	-107.2 -107.2 -107.2 -107.2	-14.29 -14.29 -14.29 -14.29	Flow weig <mark>hted</mark>	average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys
X	XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	xxxxxxx	XXXXXX	xxxxxxx		XXXXXX	XXXXXX	XXXXXX	XXXXXX	
2	17	Hidden Valley										
2 2 T V E	10 17 E 17 W R V T T	Inflow (Coyote) E. Hidden W. Hidden Total Recharge Wamp Spring ET GW Outflow (Garnet )	0 0 400 <b>400</b> <b>0</b> <b>400</b>	1	52	Spring	<b>0.0</b> -81.0 -81.0 <b>-81.0</b> -81.0	<b>0.00</b> -10.60 -10.60 <b>-10.60</b> -10.60	-81.0 -81.0	-10.60 -10.60	99 100	
Х	xxxxxx	*****	xxxxxxx	xxxxxxx	ххххх	xxxxxxx	XXXXXXX	XXXXX	xxxxxx	xxxxx	XXXXXX	
2	16	Garnet Valley										
2 2 T V	arb Well	Inflow (Hidden) Apex Las Vegas Range Total Recharge Wamp Spring Dry Lake Valley Well GP Apex Well Unnamed Well (Near Dry Lake Range)	<b>400</b> 10 390 <b>400</b>	<b>1</b> 1 3 1	<b>52</b> 34 17 24	Spring Well Well Well	-81.0 -81.0 -81.0 -81.0 -97.5 -97.2 -96.0	-10.60 -10.60 -10.60 -10.60 -13.30 -13.53 -13.70			104 105	
C C	arb Well ARB	US Lime Well (Genstar) Wells (Avg) ET	0	1 6	27	Well	-97.0 <b>-96.9</b>	-12.75 -13.32	-81.0 -81.0	<i>-10.60</i> -10.60		v from Hidden Valley

	gion	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC		
218	В	GW Outflow (California)	800						-81.0	-10.60			
XX	XXXXXX	*****	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXXXXX	XXXXXXXX	(XXXXX)	XXXXXX X	XXXXX	XXXXXX		
218	8	California Wash											
219 219 210 210 218 218	9 6 8	Inflow (LMVW) Inflow (Muddy) Inflow (Garnet) SW Inflow (Muddy) Moapa Paiutes	12,700 5,400 800 34,000 45 55				-98.7 -107.2 -81.0	-13.20 -14.29 -10.60 -10.60 -10.60			110 111		
TR		Muddy Mtns. Total Recharge	100				-82.0 <b>-82.0</b>	-10.60					
W Ca	rb Well	Valley of Fire Well Calpine Test Well 1a		1 1	<b>31</b> 43	Well Well	<b>-82.0</b> -99.0	<b>-10.60</b> -13.50					
Ca	rb Well <b>RB</b>	Moapa Well Carbonate Well (Avg)		1	41	Well	-99.0	-13.40	-103.8	12 02	Waightad	Avor	and of Infformation flow from Cornet and Upper Means Vellova
ET		ET	1,000				-99.0	-13.45	-100.3	-13.38	weigntea	Avera	ge of Infterbasin flow from Garnet and Upper Moapa Valleys
220 21		GW Outflow (Lower Moapa) GW Outflow (Black Mtn Area)	21,300 0						-100.3 -100.3	-13.38 -13.38			
220		SW Outflow (Lower Moapa)	30,700										
XX	XXXXXX	*****	XXXXXXXXX	xxxxxx	xxxxx	xxxxxxxx	XXXXXXX	xxxxx	(XXXXXX)	xxxxx	XXXXXX		
21	5	Black Mountains Area											
218		Inflow (California Wash)	0				-100.3	-13.38					
	5 NE	Muddy Mtns.	100				-85.0	-10.95			113		
	5 SE 5 W	Black Mtns. Gypsum Wash	0 0				-79.5 -79.5	-10.65 -10.65			114 112, 166		
TR		Total Recharge	100				-79.5 -85.0	-10.05 -10.95			112, 100		
SE		Cottonwood Spring (Black Mtns.)	0	1	8	Spring	-80.0	-10.80					
SE		Sandstone Spring	0	1	10	Spring	-79.0	-10.50					
NE		Unnamed, Kaolin Wash		1	35	Spring	-88.0	-11.30					
NE		Valley of Fire Well	-	1	31	Well	-82.0	-10.60					
	uvial Sprii	Bitter Spring	5	1	14	Spring	-77.0	-9.90					
	rb Spr rb Spr	Blue Point Spring Corral Spring (Unnamed Spring)	440 0	5 1	26 19	Spring Spring	-92.6 -91.5	-12.40 -12.10					
	rb Spr	Rogers Spring	1,200	3	21	Spring	-91.7	-12.33					
	rb Spr	Scirpus Spring (No spring on Map)	0	1	20	Spring	-90.0	-12.00					
Ca	rb Spr	VF Spring 1	0	1	28	Spring	-88.0	-11.20					
	rb Spr	VF Spring 2	6	1	29	Spring	-92.0	-11.80					
	rb Spr	VF Spring 3	17	1	30	Spring	-93.0	-12.20	05.0	10.05	Mainhéad		ana af Inflaw fram Califrania Waah alua raabarna fram Muddu Mauntaina
ET	RB	Carbonate Spr (Avg) ET	1,700 <b>0</b>	13			-91.3	-12.01	-85.0 -85.0	-10.95	weighted	Avera	nge of Inflow from Califronia Wash plus recharge from Muddy Mountains
999		GW Outflow (Colorado River)	100						-85.0	-10.95			
XX	XXXXXX	*****	XXXXXXXXX	xxxxxx	xxxxxx	xxxxxxxx	XXXXXXX	(XXXXXO	xxxxx x	xxxxx	XXXXXX		
220	0	Lower Moapa Valley											
219 218		Inflow (Muddy) SW Inflow (Muddy)	21,300 30,700				-107.2	-14.29					
210		Valley of Fire	<b>30,700</b> 0				-88.0	-11.30			101		
220	0 N	S. Mormon Mtns.	100				-88.3	-12.50			101		
TR		Total Recharge	100				-88.3	-12.50					
N		Davies Spring		1	90	Spring	-89.0	-12.50					
N N S		Hackberry Spring		1	84	Spring	-87.0	-12.30					
N		Horse Spring (Morman)		1	85	Spring	-89.0	-12.70					
	rb Well	Unnamed, Kaolin Wash EH-7		1	<b>35</b> 56	Spring Well	<b>-88.0</b> -91.0	<b>-11.30</b> -12.45					
Ca				1	50	VV CII	-91.0	-12.40					

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O	IC		
Carb Well	EH-3 Weiser Wash Carbonate Well (Avg)		1 2	61	Well	-91.0 <b>-91.0</b>	-12.70 <b>-12.58</b>	-107.2	-11 20	Intor-bas	in flov	v from Lower Meadow Valley Wash
ET	ET	24,000	2			-51.0	-12.50	-107.1	-14.29	inter-bas		Whom Lower meadow valley wash
999	GW Outflow (Colorado River)	21,100						-107.1	-14.29			
999	SW Outflow (Colorado River)	7,000										
<b>XXXXXX</b>	(X XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXX	XXXXXXXXX	XXXXXX		XXXXXX X	XXXXX	XXXXXX		
Colorado	R Lake Mead (Colorado River)											
210	GW Inflow (Black Mountains Area)	0				0.0	0.00					
205 999	GW Inflow (Lower Moapa) Groundwater Total	21,100				-107.1	-14.29	-107.1	14.20			
555	Groundwater Total	21,100						-107.1	-14.29			
205	SW Inflow (Lower Moapa)	7,000										
999	Surfacewater Total	7,000										
999	Inflow Total	28,100										
XXXXXXX	x xxxxxxxxxxxxxxxxxxxxxxxxx )	(XXXXXXXX)	XXXXXXXX	XXXXXX	XXXXXXXXX	XXXXXX	(XXXXXC	XXXXXX X	XXXXX	XXXXXX		
183	Lake Valley											
0	Inflow (None)	0				0.0	0.00					
183 NE	Fortification Rng	1,426				-106.3	-14.16			49		
183 NW 183 SE	Cen. Schell Cr. Rng Wilson Cr. Rng. @ Atlanta	6,436 3,974				-108.1 -104.7	-14.74 -13.75			51 50		
183 SE	Fairview Rng.	1,165				-104.7	-13.75			60		
TR	Total Recharge	13,000				-106.2	-14.24					
NE	Indian Springs		1	375	Spring	-106.3	-14.16					
NW	Big Spring North	700	1	211	Spring	-112.0	-15.10					
NW	Big Spring South	1,600	1	210	Spring	-111.0	-14.80					
NW NW	Geyser Spring North Creek Spring	340 1,200	1 1	213 214	Spring	-105.0 -105.0	-14.50 -14.60					
NW	Patterson Pass Spring WR3	1,200	15	305	Spring Spring	-105.0	-14.60					
NW	Unnamed Spring in Schell Creek Range		4	304	Spring	-107.3	-14.48					
SE	Headwaters Spring WR5		17	309	Spring	-107.3	-14.57					
SE	Bailey Spring (Wilson Ck)		1	310	Spring	-102.0	-12.93					
SE	Wilson Creek		1	189	Surface	-97.5		Surface Wa	ater not i	ncluded in	recha	irge average
SW	Cottonwood Spring (Fairview)		1	274	Spring	-102.2	-13.40					
SW SW	Lower Pony Spring Indian Spring near Steward Ranch		2 1	190 188	Spring Spring	-101.0 -102.0	-13.25 -13.60					
SW	Unnamed Spring near Pony Spring		1	191	Spring	-99.0	-12.90					
ET	ET	9,000			opinig	0010	.2.00	-106.2	-14.24			
202	GW Outflow (Patterson)	4,000						-106.2	-14.24			
xxxxxx	x xxxxxxxxxxxxxxxxxxxxxxxx	XXXXXXX	XXXXXXXX	XXXXXX	XXXXXXXX	XXXXXX	(XXXXXC	XXXXXX X	XXXXX	XXXXXX		
202	Patterson Valley											
183	Inflow (Lake)	4,000				-106.2	-14.24					
202 E	Wilson Cr. Rng. @ Mt. Wilson	4,059				-97.7	-12.99			47		
202 W	Bristol Rng.	1,941				-99.2	-13.10			48		
TR	Total Recharge	6,000				-98.2	-13.03					
E	Bailey Spring (Wilson Ck)		1	310	Spring	-102.0	-12.93					
	Blue Rock Spring Headwaters Spring WR5		1 17	311 309	Spring Spring	-93.4 -107.3	-12.68 -14.57					
E	Upper Tower Spring		17	309 312	Spring	-107.3 -93.3	-14.57					
E	Parsnip Spring		1	180	Spring	-93.5	-12.80					
E E E E E E	Horsethief Spring		2	314	Spring	-97.0	-12.68					
E	Wilson Creek		1	189	Surface	-97.5	-13.20 \$	Surface Wa	ater not i	ncluded in	recha	irge average

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18O	IC	
W	Deadman Spring (Highland)	Alcoluyi	2	162	Spring	-95.0	-12.07	00	0100		
W	Highland Spring		3	163	Spring	-99.1	-13.36				
N	Lime Spring		2	160	Spring	-98.5	-13.16				
N	Pine Spring		2	157	Spring	-99.0	-13.37				
N	Upper Conner Spring		1	156	Spring	-102.3	-13.88				
N	Connor Spring		1	283	Spring	-102.3	-13.84				
N	Fox Cabin		1	203		-103.5	-13.59				
N			1	273	Spring	-103.5 -98.9	-12.73				
N	Scotty Spring		1		Spring						
W	Upper Fairview Lower Fairview		1	280	Spring	-97.7	-12.66				
N				281	Spring	-97.5	-12.39	Evenerate			
	Wildhorse Spring (Fairview)		1	183	Spring	-92.5				ed in rec <mark>harge</mark>	
W	McDermitt Spring	400	1	323	Spring	-94.3	-11.21			ed in rec <mark>harge</mark>	calculation
ET	ET	100						-101.4	-13.51		
203	GW Outflow (Panaca)	9,900						-101.4	-13.51		
XXXXXXX	x xxxxxxxxxxxxxxxxxxxxxxxxx x	XXXXXXXX	XXXXXXXX	XXXXXX	XXXXXXXX	XXXXXXX	XXXXXX	(XXXXXX )	XXXXX X	XXXXX	
201	Spring Valley										
0	Inflow (None)	0				0.0	0.00				
201 E	White Rock Mtns.	5,128				-100.9	-13.52			52	
201 W	Wilson Cr. Rng. @ Parsnip Pk.	4,872				-97.7	-12.99			53	
rr 🛛	Total Recharge	10,000				-99.4	-13.26				
E	Barrel Spring		1	317	Spring	-100.5	-13.36				
E	anyon Spring (Unnamed Spring in Burnt Ca	anvon)	1	187	Spring	-93.0	-12.30				
E	Lion Spring		1	318	Spring	-103.4	-14.11				
E	South Monument Spring		1	319	Spring	-102.3	-14.23				
E	Jnnamed Spring nr Redd's Cabin Summit		2	173	Spring	-94.4	-12.44				
E	Ripgut Sp #40		1	411	Spring	-106.4	-14.38				
E	Unnamed Spring #1(White Rock Mts)		1	415	Spring	-109.6	-15.05				
	Unnamed Spring #2 (White RockMts)		1	417	Spring	-97.0	-13.00				
E E	Upper Burnt Canyon Spring		1	416	Spring	-97.6	-12.83				
E	Upper Burnt Canyon Spring #2		1	416	Spring	-103.6	-13.66				
E	Tobe Spring		1	315	Spring	-100.0	-13.04				
Ē	Tobe Spring 2		1	316	Spring	-93.6	-12.09				
E	Unnamed Spring in Miller Canyon		1	313	Spring	-103.7	-14.27				
E	Headwaters Spring WR5		17	309	Spring	-107.3	-14.57				
W	Blue Rock Spring		1	311	Spring	-93.4	-12.68				
W	Headwaters Spring WR5		17	309	Spring	-107.3	-14.57				
W	Bailey Spring (Wilson Ck)		1	310	Spring	-102.0	-12.93				
N	Horsethief Spring		2	314	Spring	-97.0	-12.68				
N	Parsnip Spring		1	180	Spring	-93.5	-12.80				
N	Upper Tower Spring		1	312	Spring	-93.3	-12.30				
Surface	Camp Creek		1	184	Surface	-102.0		Surface W	ater not inc	luded in <mark>recha</mark>	rde averad
Surface	MVW above Eagle Canyon		1	168	Surface	-93.0				luded in recha	
ET	ET	10,000			Cunaco	0010	.2.00	-99.4	-13.26		.go aroiag
200	GW Outflow (Eagle)	0						-99.4	-13.26		
xxxxxx	x xxxxxxxxxxxxxxxxxxxxxxx	xxxxxxx	xxxxxxx	XXXXXX	xxxxxxx	XXXXXXX	xxxxx	(XXXXXX )	XXXXXX X	xxxxx	
200	Eagle Valley										
201	Inflow (Spring)	0				-99.4	-13.26				
200 E	E. Eagle (Ursine) Valley	1,186				-99.1	-13.28			63	
200 W	W. Eagle (Ursine) Valley	160				-97.0	-12.68			64	
TR	Total Recharge	1,300				-98.9	-13.20				
<b>C</b>	Tobe Spring		1	315	Spring	-100.0	-13.04				
			1	316	Spring	-93.6	-12.09				
E	Tobe Spring 2										
E	Tobe Spring 2 Butcher Spring		1	424	Spring	-103.2	-14.22				
E E E E				424 423	Spring Spring	-103.2 -96.0	-14.22 -12.48				

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC
E	Unnamed Spring #2 (Mahogany Mts)	-	1	421	Spring	-100.7	-13.47			
/	Water Canyon Spring (Mahogany)		1	420	Spring	-100.4	-13.68			
	Horsethief Spring		2	314	Spring	-97.0	-12.68			
T	ET	1,000						-98.9	-13.20	
9	GW Outflow (Rose)	300						-98.9	-13.20	
*****	****	******		*****	******				(	*****
	^^^^^	~~~~~	~~~~~	~~~~~	~~~~~		~~~~~			~~~~~
99	Rose Valley									
00	Inflow (Eagle)	300				-98.9	-13.20			
99 E	E. Rose Valley	24				-99.1	-13.28			65
99 W	W. Rose Valley	7				-97.0	-12.68			66
R	Total Recharge	0				-98.6	-13.14			
E	Butcher Spring		0	424	Spring	-103.2	-14.22			
	Newels Spring		1	423	Spring	-96.0	-12.48			
E	Ox Valley Spring		0	422	Spring	-100.0	-13.95			
E	Unnamed Spring #2 (Mahogany Mts)		0	421	Spring	-100.7	-13.47			
E	Water Canyon Spring (Mahogany)		0	420	Spring	-100.4	-13.68			
E	Tobe Spring		1	315	Spring	-100.0	-13.04			
E	Tobe Spring 2		1	316	Spring	-93.6	-12.09			
N	Horsethief Spring		2	314	Spring	-97.0	-12.68			
ET	ET	100	-		oping	0110	.2.00	-98.9	-13.20	
198	GW Outflow (Dry)	200						-98.9	-13.20	
xxxxxxx	****	xxxxxxxx	xxxxxx	ххххх	xxxxxxxx	xxxxxx	xxxxx	(XXXXX )	xxxxx	xxxxxx
198	Dry Valley									
199	Inflow (Rose)	200				-98.9	-13.20			
98 E	E. Dry Valley	1,478				-96.9	-12.99			67
98 W	W. Dry Valley	0				-97.0	-12.68			68
R	Total Recharge	1,500				-96.9	-12.99			
	Kiln Spring	.,	1	418	Spring	-91.9	-12.34			
	Summit Spring (Mahogany Mts.)		1				-12.04			
						-92 1				
F	Newels Spring		1	419 423	Spring Spring	-92.1 -96.0				
E	Newels Spring		1	423	Spring	-96.0	-12.48			
E	Ox Valley Spring		0	423 422	Spring Spring	-96.0 -100.0	-12.48 -13.95			
E E E	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts)		0	423 422 421	Spring Spring Spring	-96.0 -100.0 -100.7	-12.48 -13.95 -13.47			
E E E E	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany)		0 0 0	423 422 421 420	Spring Spring Spring Spring	-96.0 -100.0 -100.7 -100.4	-12.48 -13.95 -13.47 -13.68			
N	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring		0 0 0 2	423 422 421 420 314	Spring Spring Spring Spring Spring	-96.0 -100.0 -100.7 -100.4 -97.0	-12.48 -13.95 -13.47 -13.68 -12.68	-00 0	-13 20 4	ntor.basi
E E E W Warm Spring	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring Flatnose Spring (Unnamed Spring)		0 0 2 1	423 422 421 420 314 153	Spring Spring Spring Spring Spring Spring	-96.0 -100.0 -100.7 -100.4 -97.0 -101.0	-12.48 -13.95 -13.47 -13.68 -12.68 -13.40	-98.9		nter-basi
N V Varm Spring	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring Flatnose Spring (Unnamed Spring) Delmues Spring (Unnamed Spring)	1 000	0 0 0 2	423 422 421 420 314	Spring Spring Spring Spring Spring	-96.0 -100.0 -100.7 -100.4 -97.0	-12.48 -13.95 -13.47 -13.68 -12.68		L	<i>nter-basi</i> .ocal Valle
N N Varm Sprin <u>e</u> Spring T	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring Flatnose Spring (Unnamed Spring)	1,000 700	0 0 2 1	423 422 421 420 314 153	Spring Spring Spring Spring Spring Spring	-96.0 -100.0 -100.7 -100.4 -97.0 -101.0	-12.48 -13.95 -13.47 -13.68 -12.68 -13.40	-98.9 -97.1 -97.1		
E E E W Warm Sprin: Spring ET 203	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring Flatnose Spring (Unnamed Spring) Delmues Spring (Unnamed Spring) ET GW Outflow (Panaca)	700	0 0 2 1 1	423 422 421 420 314 153 149	Spring Spring Spring Spring Spring Spring Spring	-96.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0	-12.48 -13.95 -13.47 -13.68 -12.68 -13.40 -13.40	-97.1 -97.1	L -13.02 -13.02	ocal Valle
E E E W Warm Sprin: Spring ET 203	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring Flatnose Spring (Unnamed Spring) Delmues Spring (Unnamed Spring) ET	700	0 0 2 1 1	423 422 421 420 314 153 149	Spring Spring Spring Spring Spring Spring Spring	-96.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0	-12.48 -13.95 -13.47 -13.68 -12.68 -13.40 -13.40	-97.1 -97.1	L -13.02 -13.02	ocal Valle
V Varm Sprin: Spring ST 03	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring Flatnose Spring (Unnamed Spring) Delmues Spring (Unnamed Spring) ET GW Outflow (Panaca)	700	0 0 2 1 1	423 422 421 420 314 153 149	Spring Spring Spring Spring Spring Spring Spring	-96.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0	-12.48 -13.95 -13.47 -13.68 -12.68 -13.40 -13.40	-97.1 -97.1	L -13.02 -13.02	ocal Valle
/ /arm Sprine pring T 03 XXXXXXX 04	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring Flatnose Spring (Unnamed Spring) Delmues Spring (Unnamed Spring) ET GW Outflow (Panaca)	700	0 0 2 1 1	423 422 421 420 314 153 149	Spring Spring Spring Spring Spring Spring Spring	-96.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0	-12.48 -13.95 -13.47 -13.68 -12.68 -13.40 -13.40	-97.1 -97.1	L -13.02 -13.02	ocal Valle
V Varm Spring pring T 03 XXXXXXXX 04 04 N	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring Flatnose Spring (Unnamed Spring) Delmues Spring (Unnamed Spring) ET GW Outflow (Panaca) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	700 XXXXXXXXXX 0 868	0 0 2 1 1	423 422 421 420 314 153 149	Spring Spring Spring Spring Spring Spring Spring	-96.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0	-12.48 -13.95 -13.47 -13.68 -12.68 -13.40 -13.40	-97.1 -97.1	L -13.02 -13.02	ocal Valle. XXXXXX 71
W Warm Spring Spring T 203 XXXXXXXXX 204 204 N	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring Flatnose Spring (Unnamed Spring) Delmues Spring (Unnamed Spring) ET GW Outflow (Panaca) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	700 XXXXXXXXX 0	0 0 2 1 1	423 422 421 420 314 153 149	Spring Spring Spring Spring Spring Spring Spring	-96.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0	-12.48 -13.95 -13.47 -13.68 -12.68 -13.40 -13.40 -13.40	-97.1 -97.1	L -13.02 -13.02	ocal Valle
V Varm Spring Spring ET 203 XXXXXXXX 204 204 N 204 N 204 S	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring Flatnose Spring (Unnamed Spring) Delmues Spring (Unnamed Spring) ET GW Outflow (Panaca) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	700 XXXXXXXXXX 0 868	0 0 2 1 1	423 422 421 420 314 153 149	Spring Spring Spring Spring Spring Spring Spring	-96.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0 (XXXXXXX) 0.0 -92.2	-12.48 -13.95 -13.47 -13.68 -12.68 -13.40 -13.40 -13.40	-97.1 -97.1	L -13.02 -13.02	ocal Valle. XXXXXX 71
E E E Warm Sprin: Spring ET 203	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring Flatnose Spring (Unnamed Spring) Delmues Spring (Unnamed Spring) ET GW Outflow (Panaca) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	700 XXXXXXXXXX 0 868 927	0 0 2 1 1	423 422 421 420 314 153 149	Spring Spring Spring Spring Spring Spring Spring	-96.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0 (XXXXXXX) 0.0 -92.2 -92.0	-12.48 -13.95 -13.47 -13.68 -12.68 -13.40 -13.40 -13.40 <b>(XXXXXX)</b>	-97.1 -97.1	L -13.02 -13.02	ocal Valle. XXXXXX 71
E E E W Warm Sprin: Spring ET 203 XXXXXXXXX 204 204 N 204 S TR	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring Flatnose Spring (Unnamed Spring) Delmues Spring (Unnamed Spring) ET GW Outflow (Panaca) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	700 XXXXXXXXXX 0 868 927	0 0 2 1 1 (XXXXXXXX	423 422 421 420 314 153 149 <b>XXXXXX</b>	Spring Spring Spring Spring Spring Spring XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	-96.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0 (XXXXXXX) (XXXXXXX) -92.2 -92.0 -92.1 -95.0	-12.48 -13.95 -13.47 -13.68 -12.68 -13.40 -13.40 -13.40 -13.40 -12.42 -12.52 -12.52 -12.47 -12.60	-97.1 -97.1	L -13.02 -13.02	ocal Valle. XXXXXX 71
V Varm Sprin; Spring ET 203 XXXXXXXX 204 204 N 204 S FR	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring Flatnose Spring (Unnamed Spring) Delmues Spring (Unnamed Spring) ET GW Outflow (Panaca) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	700 XXXXXXXXXX 0 868 927	0 0 2 1 1	423 422 421 420 314 153 149 <b>xxxxxxx</b>	Spring Spring Spring Spring Spring Spring XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	-96.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0 (XXXXXXX) (XXXXXX) -0.0 -92.2 -92.0 -92.1 -95.0 -92.8	-12.48 -13.95 -13.47 -13.68 -12.68 -13.40 -13.40 -13.40 -13.40 -12.42 -12.52 -12.42 -12.42 -12.60 -12.37	-97.1 -97.1	L -13.02 -13.02	ocal Valle. XXXXXX 71
V Varm Spring Spring ET 003 XXXXXXXX 204 204 N 204 N 204 S TR 204 N 204 S TR 204 N 204 N 204 N 204 N 204 N 204 N 204 N 204 N	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring Flatnose Spring (Unnamed Spring) Delmues Spring (Unnamed Spring) ET GW Outflow (Panaca) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	700 XXXXXXXXXX 0 868 927	0 0 2 1 1 1 <b>(XXXXXXXX</b> <b>(XXXXXXX)</b>	423 422 421 153 149 <b>XXXXXX</b> <b>XXXXXX</b>	Spring Spring Spring Spring Spring Spring XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	-96.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0 (XXXXXXX) (XXXXXX) 0.0 -92.2 -92.0 -92.1 -95.0 -92.8 -89.0	-12.48 -13.95 -13.47 -13.68 -12.68 -13.40 -13.40 -13.40 -13.40 -12.42 -12.52 -12.42 -12.52 -12.60 -12.37 -12.40	-97.1 -97.1	L -13.02 -13.02	ocal Valle. XXXXXX 71
V Varm Spring ET 203 XXXXXXXX 204 204 N 204 N 204 S FR N N N N	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring Flatnose Spring (Unnamed Spring) Delmues Spring (Unnamed Spring) ET GW Outflow (Panaca) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	700 XXXXXXXXXX 0 868 927	0 0 2 1 1 1 <b>XXXXXXXX</b>	423 422 421 153 149 <b>*******</b>	Spring Spring Spring Spring Spring Spring XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	-96.0 -100.7 -100.7 -100.4 -97.0 -101.0 -104.0 (XXXXXXX) 0.0 -92.2 -92.0 -92.1 -95.0 -92.8 -89.0 -92.0	-12.48 -13.95 -13.47 -13.68 -12.68 -13.40 -13.40 -13.40 -13.40 -12.40 -12.42 -12.52 -12.47 -12.60 -12.37 -12.40 -12.30	-97.1 -97.1	L -13.02 -13.02	ocal Valle. XXXXXX 71
V Varm Spring Spring ET 003 XXXXXXXX 204 204 N 204 N 204 S TR 204 N 204 S TR 204 N 204 N 204 N 204 N 204 N 204 N 204 N 204 N	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring Platnose Spring (Unnamed Spring) Delmues Spring (Unnamed Spring) ET GW Outflow (Panaca) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	700 XXXXXXXXXX 0 868 927	0 0 2 1 1 <b>XXXXXXXX</b> <b>X</b> <b>XXXXXXXX</b>	423 422 421 420 314 153 149 ***********************************	Spring Spring Spring Spring Spring Spring XXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXX	-96.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0 (XXXXXXX) 0.0 -92.2 -92.0 -92.1 -95.0 -92.8 -89.0 -92.8 -89.0 -92.8	-12.48 -13.95 -13.47 -13.68 -12.68 -13.40 -13.40 -13.40 -13.40 <b>XXXXXXX</b> <b>0.00</b> -12.42 -12.52 <b>-12.47</b> -12.60 -12.30 -12.30 -12.89	-97.1 -97.1	L -13.02 -13.02	ocal Valle. XXXXXX 71
y (arm Sprin: pring T 03 XXXXXXXX 04 04 04 N 04 S R	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring Flatnose Spring (Unnamed Spring) Delmues Spring (Unnamed Spring) ET GW Outflow (Panaca) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	700 XXXXXXXXXX 0 868 927	0 0 2 1 1 1 <b>(XXXXXXXX</b> <b>(XXXXXXX)</b> <b>(XXXXXXX)</b> <b>(XXXXXXX)</b> <b>(XXX)</b> <b>(XXX)</b> <b>(XXX)</b> <b>(X)</b> <b>()</b> <b>()</b> <b>()</b> <b>()</b> <b>()</b> <b>()</b> <b>()</b> <b>(</b>	423 422 421 420 314 153 149 <b>xxxxxx</b> <b>xxxxxx</b> <b>xxxxxx</b> <b>xxxxxx</b> <b>xxxxxx</b> <b>xxxxxx</b> <b>xxxxxx</b>	Spring Spring Spring Spring Spring Spring XXXXXXXXXX Well Spring Well Well Spring Spring Spring	-96.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0 (XXXXXXX) -0.0 -92.2 -92.0 -92.1 -95.0 -92.8 -89.0 -92.8 -89.0 -92.8 -89.0 -92.8	-12.48 -13.95 -13.47 -13.68 -12.68 -13.40 -13.40 -13.40 -13.40 -13.40 -12.42 -12.52 -12.47 -12.60 -12.37 -12.40 -12.39 -12.89 -12.76	-97.1 -97.1	L -13.02 -13.02	ocal Valle. XXXXXX 71
ng CXXXXXX N	Ox Valley Spring Unnamed Spring #2 (Mahogany Mts) Water Canyon Spring (Mahogany) Horsethief Spring Platnose Spring (Unnamed Spring) Delmues Spring (Unnamed Spring) ET GW Outflow (Panaca) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	700 XXXXXXXXXX 0 868 927	0 0 2 1 1 <b>XXXXXXXX</b> <b>X</b> <b>XXXXXXXX</b>	423 422 421 420 314 153 149 ***********************************	Spring Spring Spring Spring Spring Spring XXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXX	-96.0 -100.0 -100.7 -100.4 -97.0 -101.0 -104.0 (XXXXXXX) 0.0 -92.2 -92.0 -92.1 -95.0 -92.8 -89.0 -92.8 -89.0 -92.8	-12.48 -13.95 -13.47 -13.68 -12.68 -13.40 -13.40 -13.40 -13.40 <b>XXXXXXX</b> <b>0.00</b> -12.42 -12.52 <b>-12.47</b> -12.60 -12.30 -12.30 -12.89	-97.1 -97.1	L -13.02 -13.02	ocal Valle. XXXXXX 71

Regio	on Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	
S S	Quaking Aspen Spring Sheep Spring (Clover)		1 2	255 108	Spring Spring	-93.6 -88.8	-12.98 -12.03				
S	Unnamed Spring		1	113	Spring	-86.5	-11.60				
	al Well Clover Creek Valley Well 232	0	1	114	Well	-84.0	-11.70	02.4	40.47		
ET 205	ET GW Outflow (LMVW)	1,800						-92.1 -92.1	-12.47 -12.47		
XXXX		xxxxxxxx	xxxxxxx	XXXXX	XXXXXXXXX	CXXXXXXO	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
203	Panaca Valley										
202	Inflow (Patterson)	9,900				-101.4	-13.51				
198	Inflow (Dry)	700				-97.1	-13.02			<b>CO</b>	
203 E 203 W		564 1,337				-92.0 -98.9	-12.19 -13.28			69 70	
TR	Total Recharge	1,900				-96.8	-12.95			10	
W	Connor Spring	.,	1	283	Spring	-100.6	-13.84				
W	Deadman Spring (Highland)		2	162	Spring	-95.0	-12.07				
W	Highland Spring		3	163	Spring	-99.1	-13.36				
W	Lime Spring		2	160	Spring	-98.5	-13.16				
W W	Pine Spring Upper Conner Spring		2 2	157	Spring	-99.0	-13.37				
	Kiln Spring		2	156 418	Spring Spring	-101.2 -91.9	-13.87 -12.34				
E	Summit Spring (Mahogany Mts.)		1	419	Spring	-92.1	-12.04				
Warm		20	1	141	Spring	-103.0	-13.70	-101.4	-13.51	Inter-basi	n flow from Patterson Valley
Warm		0	8	129	Spring	-107.9	-14.44	-106.2			n flow from Lake Valley
Warm		7700	13	144	Spring	-106.9	-14.14	-106.2	-14.24	Inter-basi	<mark>n flow</mark> from Lake Valley
Surfac	3		1	130	Surface	-97.0	-13.10				
Warm			1	142	Well	-103.0	-13.30				
Warm Warm			1	143 147	Well Well	-106.0 -101.0	-14.00 -13.30				
ET	ET	2,000		147	WCI	101.0	10.00	-100.5	-13.40		
205	GW Outflow (LMVW)	12,500						-100.5	-13.40		
XXXX	xxxx xxxxxxxxxxxxxxxxxxx	<pre>xxxxxxxxx</pre>	xxxxxxx	XXXXX	XXXXXXXXX	OXXXXXXO	xxxxxx	XXXXXX	xxxxx	XXXXXX	
205	Lower Meadow Valley Wash										
203	Inflow (Panaca)	12,500				-100.5	-13.40				
204	Inflow (Clover)	1,800				-92.1	-12.47				
205 N		713				-92.2	-12.28			92	
205 N		589				-90.4	-12.25			93	
205 SV 205 SI		0 146				-87.4 -88.3	-11.92 -12.50			94 95	
205 SI TR	Total Recharge	140 1,400				-88.3 -91.1	-12.50 -12.29			90	
NE	Big Spring (Clover)	1,400	2	253	Spring	-93.6	-12.89				
NE	East Settling Spring		1	248	Spring	-92.2	-12.76				
NE	Ella Spring		1	251	Spring	-95.8	-12.56				
NE	Garden Spring		1	246	Spring	-87.0	-11.54				
NE	Kershaw-Ryan Spring #1		1	250	Spring	-95.1	-13.11				
NE	Sheep Spring (Clover)		2	108	Spring	-88.8	-12.03				
NE NE	Unnamed Spring Unnamed Spring (Clover)		1	113 249	Spring Spring	-86.5 -88.0	-11.60 -12.20				
NE	Garden Spring		1	249 246	Spring	-88.0 -87.0	-12.20				
NW	Abandoned Spring		1	266	Spring	-94.5	-12.32				
NW	Grassy Spring		3	117	Spring	-88.7		Evaporate	d so not ı	used in rec	harge calculation
NW	Buckboard Spring		1	264	Spring	-88.2	-11.71				
NW	Cottonwood Spring (Delamar)		1	265	Spring	-96.9	-12.87				
NW	Bishop Spring		3	107	Spring	-87.2	-11.72				
NW	Boulder Spring (KSV-4)		4	98	Spring	-89.2	-12.47				
NW	Lower Chokecherry Spring		1	261	Spring	-98.4	-12.98				

Region	Name	Volume	# of	Site#	Site	Obs.	Obs.	Calc.	Calc.	IC	
		Arce-ft/yr	Samples		Туре	δD	δ18Ο	δD	δ18Ο		
NW	Lower Indian Spring		1	267	Spring	-96.0	-12.62				
NW	Narrow Canyon Spring		1	257	Spring	-92.5	-12.47				
NW	Oak Spring		1	269	Spring	-90.0	-11.87				
NW	Red Rock Spring		1	256	Spring	-95.0	-12.30				
NW	Willow Spring (KSV-1)		4	92	Spring	-88.4	-11.60				
NW	Sawmill Spring (Delamar Range)		1	259	Spring	-88.7	-12.58				
NW	Sawmill Spring West		1	258	Spring	-91.8	-12.86				
NW	Unnamed Chokecherry Spring		1	263	Spring	-98.1	-12.54				
NW	Upper Chokecherry Spring		1	262	Spring	-98.9	-12.96				
NW	Willow Spring 2 (So.of Oak Sps.summit)		1	260	Spring	-91.2	-11.69				
NW	Upper Indian Spring		1	268	Spring	-88.0	-11.46				
NW	Upper Riggs Spring WR4		5	105	Spring	-87.1	-11.95				
SW	Grapevine Spring (KSV-2)		10	93	Spring	-87.4	-11.92				
SE	Davies Spring		1	90	Spring	-89.0	-12.50				
SE	Horse Spring (Morman)		1	85	Spring	-89.0	-12.70				
SE	Hackberry Spring		1	84	Spring	-87.0	-12.30				
Warm	Kershaw-Ryan Spring #1		1	250	Spring	-95.1	-13.11	-99.4	-13.28 V	Veiahted	Ave
Warm	EH-6 Weiser Wash		1	59	Well	-99.5	-13.90				
Warm	EH-8 Weiser Wash		1	57	Well	-96.5	-13.70				
Alluvial We			1	80	Well	-97.5	-12.50				
ET	ET	1,000		~~		00		-98.7	-13.20		
206	GW Outflow (Upper Moapa)	0						-98.7	-13.20		
218	GW Outflow (California Wash)	12,700						-98.7	-13.20		
210		.2,700						50.7			

			F	Reconnai	issance Serie	s Water B	udget			
Region	Name	Volume	# of	Site#	Site	Obs.	Obs.	Calc.	Calc.	IC
xxxxxxx	****	Arce-ft/yr		xxxxxx	Type	δD XXXXXX	δ18O XXXXXX	δD XXXXXX X	δ18O	xxxxxx
										1000000
175	Long Valley									
0	Inflow (None)	0				0.0	0.00			
175 SE	Butte Mtn. (S)	2,379				-119.6	-15.53			35
175 SW	Alligator Rdg.	2,501				-121.7	-15.85			36
175 NW	Maverick Springs	3,911				-123.9	-16.23			37
175 NE	Butte Mtn. (N)	1,509				-119.2	-15.36			164
TR	Total Recharge	10,300		207	Casias	-121.7	-15.85			
SE SE	Butte Spring Cabin Spring		1 1	327 328	Spring Spring	-120.4 -124.4	-15.79 -15.89			
SE	Robbers Roost #2 Spring (Butte)		1	340	Spring	-112.0	-14.39			
SE	Deer Spring (Butte)		1	340	Spring	-114.1	-14.39			
SE	Summit Spring		1	348	Spring	-120.8	-15.94			
SE	Thirty Mile Spring		1	242	Spring	-126.0	-16.40			
NW	Mud Spring (Buck Mts)		1	339	Spring	-117.6	-15.21			
NW	Ram. Res. Wtr Supply Well		1	244	Well	-129.5	-16.75			
NW	Unnamed Near Little Willow Spring		1	351	Spring	-125.9	-17.04			
NW	Well at Alligator Ridge		1	243	Well	-127.0	-16.60			
NW	Woodchuck Spring		1	356	Spring	-119.6	-15.55			
NE	White Rock Spring (Butte)		1	355	Spring	-119.2	-15.36			
ET	ET	2,000						-121.7	-15.85	
174	GW Outflow (Jakes)	8,300						-121.7	-15.85	
XXXXXXXX	*****	XXXXXXXXX	XXXXXXXX	XXXXXX	(XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
474										
174	Jakes Valley									
	Jakes Valley	8,300				-121.7	-15.85			
175	-	<b>8,300</b> 5,404				<b>-121.7</b> -118.4	<b>-15.85</b> -15.31			33
<b>175</b> 174 E	Inflow (Long)									33 34
<b>175</b> 174 E 174 W	<b>Inflow (Long)</b> Egan Range	5,404				-118.4	-15.31			
<b>175</b> 174 E 174 W <b>TR</b> W	Inflow (Long) Egan Range North White Pine	5,404 11,596	1	366	Spring	-118.4 -120.3	-15.31 -15.83			
<b>175</b> 174 E 174 W <b>TR</b> W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North	5,404 11,596	1 1	349	Spring Spring	-118.4 -120.3 <b>-119.7</b> -118.3 -119.3	-15.31 -15.83 <b>-15.66</b> -15.02 -15.84			
<b>175</b> 174 E 174 W <b>TR</b> W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South	5,404 11,596	1 1	349 324	Spring Spring	-118.4 -120.3 <b>-119.7</b> -118.3 -119.3 -120.9	-15.31 -15.83 <b>-15.66</b> -15.02 -15.84 -16.02			
<b>175</b> 174 E 174 W <b>TR</b> W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring	5,404 11,596	1 1 1	349 324 330	Spring Spring Spring	-118.4 -120.3 <b>-119.7</b> -118.3 -119.3 -120.9 -122.0	-15.31 -15.83 <b>-15.66</b> -15.02 -15.84 -16.02 -16.17			
175 174 E 174 W TR W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring	5,404 11,596	1 1 1 1	349 324 330 331	Spring Spring Spring Spring	-118.4 -120.3 <b>-119.7</b> -118.3 -119.3 -120.9 -122.0 -114.5	-15.31 -15.83 <b>-15.66</b> -15.02 -15.84 -16.02 -16.17 -15.30			
175 174 E 174 W TR W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring	5,404 11,596	1 1 1 1	349 324 330 331 342	Spring Spring Spring Spring Spring	-118.4 -120.3 -119.7 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4	-15.31 -15.83 <b>-15.66</b> -15.02 -15.84 -16.02 -16.17 -15.30 -14.76			
175 174 E 174 W TR W W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring	5,404 11,596	1 1 1 1 1	349 324 330 331 342 239	Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.7 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0	-15.31 -15.83 -15.66 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20			
175 174 E 174 W TR W W W W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring	5,404 11,596	1 1 1 1 1 1	349 324 330 331 342 239 344	Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.7 -118.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6	-15.31 -15.83 -15.66 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54			
175 174 E 174 W TR W W W W W W W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring	5,404 11,596	1 1 1 1 1 1 1	349 324 330 331 342 239 344 350	Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.7 -118.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9	-15.31 -15.83 -15.66 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69			
175 174 E 174 W TR W W W W W W W W W W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring	5,404 11,596	1 1 1 1 1 1 1 1	349 324 330 331 342 239 344 350 352	Spring Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.7 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9 -123.6	-15.31 -15.83 -15.66 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18			
175 174 E 174 W TR W W W W W W W W W W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine)	5,404 11,596	1 1 1 1 1 1 1 1	349 324 330 331 342 239 344 350 352 240	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.7 -118.3 -119.3 -120.9 -122.0 -112.4 -123.0 -123.6 -120.9 -123.6 -120.9 -123.6 -129.0	-15.31 -15.83 -15.66 -15.02 -15.84 -16.02 -16.17 -15.30 -14.70 -16.20 -16.54 -15.69 -16.18 -16.80			
175 174 E 174 W TR W W W W W W W W W W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring	5,404 11,596	1 1 1 1 1 1 1 1	349 324 330 331 342 239 344 350 352	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.7 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.6 -123.6 -123.6 -123.6 -129.0 -123.6 -129.0 -116.2	-15.31 -15.83 -15.66 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.64 -15.68 -16.80 -15.39			
175 174 E 174 W TR W W W W W W W W W W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine)	5,404 11,596	1 1 1 1 1 1 1 1 2	349 324 330 331 342 239 344 350 352 240 354	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.7 -118.3 -119.3 -120.9 -122.0 -112.4 -123.0 -123.6 -120.9 -123.6 -120.9 -123.6 -129.0	-15.31 -15.83 -15.66 -15.02 -15.84 -16.02 -16.17 -15.30 -14.70 -16.20 -16.54 -15.69 -16.18 -16.80			
175 174 E 174 W TR W W W W W W W W W W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sage Hen Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring	5,404 11,596	1 1 1 1 1 1 1 1 2 1	349 324 330 331 342 239 344 350 352 240 354 334	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.7 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.6 -129.0 -123.6 -129.0 -116.2 -129.0	-15.31 -15.83 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -16.80 -15.39 -15.31 -15.30	Not used i	n W avera	34
175 174 E 174 W TR W W W W W W W W W W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte)	5,404 11,596	1 1 1 1 1 1 1 2 1 1	349 324 330 342 239 344 350 352 240 354 334 343	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.7 -118.3 -120.9 -122.0 -114.5 -112.4 -122.0 -123.6 -120.9 -123.6 -120.9 -123.6 -120.9 -123.6 -120.9 -116.2 -119.1 -117.6	-15.31 -15.83 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -16.80 -15.39 -15.31 -15.30	Not used in -119.7	n W avera -15.66	34
175 174 E 174 W TR W W W W W W W W W W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk	5,404 11,596 <b>17,000</b>	1 1 1 1 1 1 1 2 1 1	349 324 330 342 239 344 350 352 240 354 334 343	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-118.4 -120.3 -119.7 -118.3 -120.9 -122.0 -114.5 -112.4 -122.0 -123.6 -120.9 -123.6 -120.9 -123.6 -120.9 -123.6 -120.9 -116.2 -119.1 -117.6	-15.31 -15.83 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -16.80 -15.39 -15.31 -15.30			34
175 174 E 174 W TR W W W W W W W W W W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET	5,404 11,596 <b>17,000</b> <b>25,300</b>	1 1 1 1 1 1 1 2 1 1 2	349 324 330 341 342 239 344 350 352 240 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Surface	-118.4 -120.3 -119.7 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.31 -15.83 -15.66 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -16.80 -15.39 -15.31 -15.30 -16.10	-119.7 -120.3	-15.66 -15.72	34 age
175 174 E 174 W TR W W W W W W W W W W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Circle Wash Spring Sand Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Mild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV)	5,404 11,596 <b>17,000</b> <b>25,300</b>	1 1 1 1 1 1 1 2 1 1 2	349 324 330 341 342 239 344 350 352 240 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Surface	-118.4 -120.3 -119.7 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.31 -15.83 -15.66 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -16.80 -15.39 -15.31 -15.30 -16.10	-119.7 -120.3	-15.66 -15.72	34 age
175 174 E 174 W TR W W W W W W W W W W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Sage Hen Spring Sage Hen Spring Shellback Spring Unnamed Hayden Canyon Spring Unhamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	5,404 11,596 <b>17,000</b> <b>25,300</b> <b>XXXXXXXXX</b>	1 1 1 1 1 1 1 2 1 1 2	349 324 330 341 342 239 344 350 352 240 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Surface	-118.4 -120.3 -119.7 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -129.0 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.31 -15.83 -15.66 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -16.69 -16.18 -16.80 -15.39 -15.31 -15.30 -16.10	-119.7 -120.3	-15.66 -15.72	34 age
<b>175</b> 174 E 174 W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sage Hen Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Stone Cabin Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV)	5,404 11,596 <b>17,000</b> <b>25,300</b>	1 1 1 1 1 1 1 2 1 1 2	349 324 330 341 342 239 344 350 352 240 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Surface	-118.4 -120.3 -119.7 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9 -123.6 -129.0 -116.2 -119.1 -117.6 -123.5	-15.31 -15.83 -15.66 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -16.80 -15.39 -15.31 -15.30 -16.10	-119.7 -120.3	-15.66 -15.72	34 age
174 E 174 W TR W W W W W W W W W W W W W W W W W W	Inflow (Long) Egan Range North White Pine Total Recharge Tunnel Spring Aspen Springs North Aspen Springs South Chicken Spring Circle Wash Spring Sage Hen Spring Sand Spring Shellback Spring Unnamed Hayden Canyon Spring Unnamed Hayden Canyon Spring Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Wild Horse Spring (White Pine) Unnamed Shellback Ridge Spring Undian Spring (Butte) Sammy Spring Indian Spring (Butte) Sammy Spring Upper Illipah Crk ET GW Outflow (NWRV) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	5,404 11,596 <b>17,000</b> <b>25,300</b> <b>XXXXXXXX</b>	1 1 1 1 1 1 1 2 1 1 2	349 324 330 341 342 239 344 350 352 240 354 334 343 238	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Surface	-118.4 -120.3 -119.7 -118.3 -119.3 -120.9 -122.0 -114.5 -112.4 -123.0 -123.6 -120.9 -123.6 -129.0 -116.2 -129.0 -116.2 -119.1 -117.6 -123.5	-15.31 -15.83 -15.66 -15.02 -15.84 -16.02 -16.17 -15.30 -14.76 -16.20 -16.54 -15.69 -16.18 -15.69 -15.31 -15.30 -16.10	-119.7 -120.3	-15.66 -15.72	34 age XXXXXX

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	
TR	Total Recharge	14,000				-106.6	-14.28				
E	North Creek Spring		1	214	Spring	-105.0	-14.60				
E	Patterson Pass Spring WR3		15	305	Spring	-108.4	-14.95				
E	Unnamed Spring in Schell Creek Range		4	304	Spring	-107.3	-14.48				
E E E E	Sheep Spring (Schell Ck)		1	212	Spring	-99.5	-13.70				
E	Robbers Roost Spring (Schell Ck)		1	389	Spring	-109.7	-14.75				
	Sidehill Spring	1,600	2	200	Spring	-100.4	-13.21				
W	Big Spring (Egan)		4	206	Spring	-105.5	-13.90				
W	Chimney Rock Spring		2	219	Spring	-110.5	-14.52				
W	Haggerty Spring		1	387	Spring	-109.6	-14.78				
W	Granite Spring		1	440	Spring	-103.4	-13.32				
W	Hole in the Bank Spring		1	386	Spring	-114.9	-15.37				
W	Silver Spring		2	385	Spring	-111.4	-14.71				
W	Shingle Spring		2	203	Spring	-103.7	-13.33				
W	Perry Sp Barcass 37		1	408	Spring	-107.7	-15.04				
W	Trough Spring		1	413	Spring	-103.6	-13.56				
ET	ET	200						-106.6	-14.28		
Well Well	180W902 180W501		1 1	601 600	Deep Well Deep Well	-104.7 -105.6	-14.12 -14.12				
181	GW Outflow (Dry Lake)	0						-106.6	-14.28		
207S	GW Outflow (SWRV)	13,800						-106.6	-14.28		
XXXXXXX	X XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXX	(KXXXX)	«XXXXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
207N	North White River Valley										
174	Inflow (Jakes)	25,300				-120.3	-15.72				
207 NE	Egan Rng North	13,009				-112.4	-15.14			38	
207 NW	White Pine Rng.	12,727				-115.0	-15.18			39, 40	
TR	Total Recharge	25,700	2			-113.7	-15.16				
NE	on Creek Spring (Unnamed Spring in Gut	oler Canyon)	1	235	Spring	-111.0	-14.90				
NE	Hole in the Bank Spring		1	386	Spring	-114.9	-15.37				
NE	Lone Pine Spring		3	223	Spring	-110.2	-14.90				
NE	North Spring		1	237	Spring	-113.0	-15.00				
NE	High Springs		1	433	Spring	-113.4	-15.43				
NE	Lion Spring (Egan Range)		1	430	Spring	-114.8	-15.34				
NE	Mud Spring		1	446	Spring	-111.0	-14.53				
NE	Pine Springs (Egan Range)		1	434	Spring	-116.0	-15.71				
NE	Unnamed Spring #1(Egan)		1	435	Spring	-112.2	-15.14				
NE	Unnamed Spring #2 (Egan Range)		1	436	Spring	-110.0	-15.14				
NE	Unnamed Spring #3 (Egan Range)		1	437	Spring	-110.2	-15.07				
NE	Unnamed Spring #4 (Egan Range)		1	438	Spring	-114.0	-15.37				
NE	Unnamed Spring #5 (Egan Range)		1	445	Spring	-109.6	-14.72				
NE	Second Sawmill Spring		1	222	Spring	-110.0	-14.70				
NE	South Spring (Egan)		2	236	Spring	-111.5	-15.12				
NE	Upper Terrace Spring WR2		14	270	Spring	-114.0	-15.42				
NE	Water Canyon Spring		1	358	Spring	-114.4	-15.60				
NE	Lund Spring		1	221	Spring	-113.0					<mark>ed in r</mark> echarge calculation
NE	Water Canyon		2	233	Surface	-116.0		Surface W	ater not ir	ncluded in	<mark>recha</mark> rge average
NW	Big Tom Plain Spring		1	326	Spring	-121.1	-15.92				
NW	Deer Spring (White Pine)		2	322	Spring	-119.3	-15.87				
NW	Unnamed Spring #1 (White Pine)		1	359	Spring	-114.8	-15.36				
NW	Unnamed Spring #2 (White Pine)		1	360	Spring	-114.9	-15.66				
NW	Unnamed Spring #3 (White Pine)		1	361	Spring	-113.1	-14.96				
NW	Unnamed Spring #4 (White Pine)		1	362	Spring	-116.3	-15.01				
NW	Unnamed Spring #5 (White Pine)		3	363	Spring	-116.0	-15.36				
NW	Unnamed Spring #6 (White Pine)		1	364	Spring	-115.1	-14.98				
NW	Easter Spring		1	365	Spring	-119.4	-15.56				
NW	Halfway Spring (RS)		2	429	Spring	-108.7	-13.52				
NW	Little Tom Plain Spring		2	337	Spring	-121.0	-15.86				
NW	Monitoring Spring WR1		14	320	Spring	-113.7	-15.58				

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	
NW	Saddle Spring (White Pine)		3	357	Spring	-116.8	-15.45				
NW	Secret Spring		1	220	Spring	-110.0	-14.00				
NW	Unnamed Spring below Currant Mtn		1	226	Spring	-107.0	-14.00				
NW	Stove Spring		1	347	Spring	-114.5	-15.71				
NW NW	ned Spring in dry creek bed (White Pine F	<b>U</b> 7	1	321 224	Spring	-113.6	-15.31	Surface M/	otor not inc	udad in	
NW	Snowmelt Below Duckwater Peak Little Currant Creek	5,700	1 1	224 217	Surface Surface	-105.0 -113.0					recharge average recharge average
Warm	Cold Spring, Preston	1,000	2	230	Spring	-123.5	-15.80	Sunace wa		Juded III	lecharge average
Warm	Nicholas Spring	2,000	1	227	Spring	-124.0	-16.10				
Warm	Preston Big Spring	5,900	11	231	Spring	-122.0	-15.88				
Warm	Discharge Warm Sprs (Avg)	8,900	14			-122.6	-15.92	-120.3	-15.72 In	nter-basi	n flow from Jakes Valley
ET	ET	22,000						-113.7	-15.16		
207S	GW Outflow (SWRV)	29,000						-119.5	-15.65		
XXXXXXXX	* ****	XXXXXXXXX	XXXXXXXX	XXXXXX	XXXXXXXXX	XXXXXXX	XXXXXXX	XXXXXX X	(XXXXX )	XXXXXX	
207S	South White River Valley	WRV Tot Re	charge								
		38,000									
207N	Inflow (N White River)	29,000				-119.5	-15.65				
180	Inflow (Cave)	13,800				-106.6	-14.28				
207 SE 207 SW	Egan Rng South	6,529				-106.9	-14.15			41 42	
207 500 TR	Grant Rng Total Recharge	5,735 <b>12,300</b>				-106.5 <b>-106.7</b>	-14.23 <b>-14.18</b>			42	
E	Chimney Rock Spring	12,500	2	219	Spring	-110.5	-14.52				
Ē	Granite Spring		1	440	Spring	-103.4	-13.32				
E	Haggerty Spring		1	387	Spring	-109.6	-14.78				
E	Silver Spring		2	385	Spring	-111.4	-14.71				
E	Big Spring (Egan)		4	206	Spring	-105.5	-13.90				
E	Shingle Spring		2	203	Spring	-103.7	-13.33				
E	Perry Sp Barcass 37		1	408	Spring	-107.7	-15.04				
E	Trough Spring	4 0 0 0	1	413	Spring	-103.6	-13.56				
E E	Butterfield Spring	4,000	1	202	Spring	-105.0					in recharge calculation
E	Emigrant Spring Flag Spring #3	1,900	2 1	207 201	Spring Spring	-107.8 -105.0					t in recharge calculation t in recharge calculation
SW	Albert Spring		1	201	Spring	-107.0	-13.95	iocal valley	/ spring no	t included	
SW	Big Spring (Grant)		1	194	Spring	-112.0	-15.20				
SW	Brady Spring		2	282	Spring	-109.5	-15.38				
SW	Forest Home Spring (Unnamed Spring)		1	195	Spring	-108.5	-14.50				
SW	Horse Spring (Grant)		1	370	Spring	-99.5	-12.86				
SW	Teaspoon Spring		1	371	Spring	-100.0	-13.26				
SW	Wiregrass Spring (Grant)		1	372	Spring	-101.4	-13.29				
SW SW	Murphy Spring		1	373 260	Spring	-114.5	-15.40			od in roc	
Svv Warm	Little Spring (Grant Range) Hot Creek Campground Well	0	1 1	369 198	Spring Well	-99.4 -118.0	-12.48	∟vaporateo	a so not us	eu in reci	narge calculation
Warm	Hot Creek Springs	10,000	10	196	Spring	-118.9	-15.69				
Warm	Moon River Spring	2,800	10	192	Spring	-120.0	-15.80				
Warm	Moorman Spring	400	1	205	Spring	-119.0	-15.70				
Warm	Discharge Warm Sprs (Avg)	13,200				-119.2	-15.71	-119.5	-15.65 In	nter-basi	n flow from Northern White River Valley
ET	ET	13,000						-107.2	-14.24		
208	GW Outflow (Pahroc)	42,100						-115.3			
208	GW Outflow (Garden Valley)	0						-115.3	-15.21		
xxxxxxx	****	xxxxxxxx	xxxxxxx	xxxxx	xxxxxxx	XXXXXXX	xxxxxx	XXXXXX X	(XXXXX X)	xxxxx	
172	Garden Valley										
172	Inflow (None)	0				-115.3	-15.21				
172 SW	Quinn Canyon Range	5,348				-104.6	-14.08			170,171	
172 NW	Grant Range	3,502				-106.5	-14.27			170,171	
172 NE	Golden Gate Rng	428				-98.0	-13.30			55	

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	-
172 SE	Worthington Mountains	723			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-98.0	-13.30			56	;
TR	Total Recharge	10,000				-104.5	-14.06				
SW	Unnamed Spring #7 (Quinn)		1	367	Spring	-105.9	-14.23				
SW	Unnamed Spring #8 (Quinn)		1	368	Spring	-104.4	-14.18				
SW	Adaven Spring		2	177	Spring	-105.3	-14.01				
SW	Lower Little Cherry Cr Spring		1	182	Spring	-103.0	-13.90				
SW	Carpenter Spring		1	171	Spring	-95.0	-11.85	Evaporate	d so not u	sed in rec	charge calculation
NW	Big Spring (Grant)		1	194	Spring	-112.0	-15.20				
NW	Brady Spring		2	282	Spring	-109.5	-15.38				
NW	Forest Home Spring (Unnamed Spring)		1	195	Spring	-108.5	-14.50				
NW	Horse Spring (Grant)		1	370	Spring	-99.5	-12.86				
NW	Teaspoon Spring		1	371	Spring	-100.0	-13.26				
NW	Wiregrass Spring (Grant)		1	372	Spring	-101.4	-13.29				
NW	Murphy Spring		1	373	Spring	-114.5	-15.40				
NW	Little Spring (Grant Range)		1	369	Spring	-99.4		Evaporate	d so not u	sed in rec	charge calculation
SE	The Seeps (Spring)		1	136	Spring	-98.0	-13.30	Liupoluto	u 00 110t u		onargo calculation
ET	ET	2,000	1	150	Opinig	-30.0	-15.50	-104.5	-14.06		
171	GW Outflow (Coal)	2,000						-104.5	-14.06		
		-,									
XXXXXXXX		XXXXXXXXX	XXXXXXXX	XXXXXX	XXXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXX	XXXXXX	
171	Coal Valley										
172	Inflow (Garden)	8,000				-104.5	-14.06				
172	Inflow (SWRV)	0,000				-115.3	-15.21				
171 E	Seaman Rng	631				-98.2	-12.87			75	
171 W	Golden Gate Rng	1,369				-99.0	-13.13			76	
TR	Total Recharge	2,000				-99.0 -98.7	-13.13 -13.05			10	
W	-	2,000	1	288	Spring	-98.9	-12.98				
	Cold Spring				Spring						
W	Henry Spring		1	287	Spring	-97.4	-12.77				
W	Little Cut Spring		2	286	Spring	-98.3	-12.85				
E Carb Mall	Seaman Spring		1	306	Spring	-99.0	-13.13	4045	44.00	In de off	Constant Mall
Carb Well	USGS-MX C.V. Well (CV-DT-1)	-	2	176	Well	-109.0	-14.56	-104.5		Underflo	<mark>w from</mark> Garden Valley
ET	ET	0						-98.7	-13.05		
208	GW Outflow (Pahranagat)	10,000						-103.4	-13.85		
xxxxxxx		xxxxxxxx	xxxxxxx	xxxxxx	xxxxxxxx	XXXXXX	XXXXXX	XXXXXX	XXXXX	xxxxx	
208	Pahroc Valley										
207S	Inflow (S. White River)	42,100				-115.3	-15.21				
171	Inflow (Coal)	0				0.0	0.00				
208 E	N. Pahroc Rng.	1,019				-94.2	-12.42			73	
208 W	Seaman Rng.	1,181				-99.0	-13.13			74	
TR	Total Recharge	2,200	2			-96.8	-12.80				
E	Black Rock Spring		2	158	Spring	-93.8	-12.31				
_	Coyote Spring		2	169	Spring	-95.1	-12.53				
E			1	298	Spring	-93.1	-11.76				
E E	Hamilton Spring				Spring	-97.2	-13.06				
E E E	Hamilton Spring Little Boulder Spring		1	301							
	Little Boulder Spring		1 2	301 135	Spring	-90.5	-12.49				
E	Little Boulder Spring Mustang Spring			135	Spring		-12.49 -12.65				
E E	Little Boulder Spring Mustang Spring Pahroc Spring		2	135 131	Spring Spring	-90.5 -92.2	-12.65				
E E	Little Boulder Spring Mustang Spring Pahroc Spring Rattlesnake Spring		2	135 131 302	Spring Spring Spring	-90.5 -92.2 -97.3	-12.65 -12.65				
E E E	Little Boulder Spring Mustang Spring Pahroc Spring Rattlesnake Spring Unnamed Springnr Blackrock		2	135 131 302 299	Spring Spring Spring Spring	-90.5 -92.2 -97.3 -94.3	-12.65 -12.65 -11.90				
E E E E E E W Evanorated	Little Boulder Spring Mustang Spring Pahroc Spring Rattlesnake Spring Unnamed Springnr Blackrock Seaman Spring		2 3 1 1 1	135 131 302 299 306	Spring Spring Spring Spring Spring	-90.5 -92.2 -97.3 -94.3 -99.0	-12.65 -12.65 -11.90 -13.13	Evaporato	d not used	l in recha	re calculation
E E E	Little Boulder Spring Mustang Spring Pahroc Spring Rattlesnake Spring Unnamed Springnr Blackrock Seaman Spring	0	2	135 131 302 299	Spring Spring Spring Spring	-90.5 -92.2 -97.3 -94.3	-12.65 -12.65 -11.90 -13.13	Evaporate	d not used -12.80	l in recha	rge calculation

09 Pahranagat Valley

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ180		;	
208	Inflow (Pahroc)	44,300				-114.4	-15.09					
171	Inflow (Coal)	10,000				-103.4	-13.85					
209	Inflow (Delamar)	6,200				-97.7	-12.96					
209 E	S. Pahroc Rng.	528				-94.9	-12.83		70.00	77, 78		
209 W	Mt. Irish/Pahranagat Rng.	1,272				-98.4	-14.24		79, 80	(172, 173)	)	
TR	Total Recharge Eightmile Spring	1,800	2	295	Spring	<b>-97.4</b> -95.6	<b>-13.83</b> -13.09					
E E E E E E E S	Gulch Spring(Unnamed Spring in Hells A	cros Gulch)	1	109	Spring	-93.0	-12.30					
F	Sixmile Spring	Sies Guicit)	1	112	Spring	-93.4	-13.06					
F	Twin Spring		1	294	Spring	-97.4	-13.24					
F	named Spring in Road(South Pahroc Rang	ne)	1	303	Spring	-96.7	-13.07					
Ē	Unnamed Spring nr Six Mile seep	30)	1	296	Spring	-94.5	-12.62					
E	Water Tank 0.4mi West of Sixmile		1	297	Spring	-93.8	-12.44					
S	Maynard Lake Spring (Unnamed Spring)		1	94	Spring	-94.0		Local Valle	ey spring	not includ	ed in r	echarge calculation
W	Reed Spring		1	289	Spring	-98.4	-14.24					-
Warm	Ash Springs	12400	6	110	Spring	-109.1	-14.11					
Warm	Little Ash Spring (Ash Spring)	500	1	111	Spring	-107.2	-14.20					
Warm	Crystal Springs	8,200	17	116	Spring	-108.8	-14.41					
Warm	Hiko Spring	4,300	7	122	Spring	-108.7	-14.39					
Warm	Discharge Warm Springs (Avg)	25,400	31			-108.9	-14.26	-114.4			in flov	v from Pahroc Valley
ET	ET	25,000			<b>.</b>	404-	40.5-	-109.9	-14.61			
Well 210	209M-1 GW Outflow (Coveto Spr)	27 200	1	608	Deep Well	-104.7	-13.53	-114.4			in flov	v from Pahroc Valley
210	GW Outflow (Coyote Spr)	37,300						-110.9	-14.67			
XXXXXX	xx xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	(XXXXXXX)	XXXXXXXX	XXXXX	xxxxxxxx	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	(	
181	Dry Lake Valley											
	Dry Lake Valley	0				0.0	0.00					
180		<b>0</b> 854				<b>0.0</b> -100.4	<b>0.00</b> -13.21			59	9	
<b>180</b> 181 NW 181 SW	Inflow (None)					-100.4 -94.2	-13.21 -12.42			57	7	
<b>180</b> 181 NW 181 SW 181 NE	<b>Inflow (None)</b> S. Schell Ck Range N. Pahroc Rng. Fairview Rng.	854 124 1,180				-100.4 -94.2 -99.5	-13.21 -12.42 -12.89			57 58	7 3	
<b>180</b> 181 NW 181 SW 181 NE 181 E	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng.	854 124 1,180 2,567				-100.4 -94.2 -99.5 -98.9	-13.21 -12.42 -12.89 -13.28			57 58 61	7 3 1	
<b>180</b> 181 NW 181 SW 181 NE 181 E 181 E 181 SE	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng.	854 124 1,180 2,567 274				-100.4 -94.2 -99.5 -98.9 -94.6	-13.21 -12.42 -12.89 -13.28 -12.36			57 58	7 3 1	
181 SW 181 NE 181 E 181 SE TR	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge	854 124 1,180 2,567		400	Option	-100.4 -94.2 -99.5 -98.9 -94.6 <b>-98.9</b>	-13.21 -12.42 -12.89 -13.28 -12.36 <b>-13.10</b>			57 58 61	7 3 1	
180 181 NW 181 SW 181 NE 181 E 181 SE TR	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland)	854 124 1,180 2,567 274	2	162	Spring	-100.4 -94.2 -99.5 -98.9 -94.6 <b>-98.9</b> -95.0	-13.21 -12.42 -12.89 -13.28 -12.36 <b>-13.10</b> -12.07			57 58 61	7 3 1	
180 181 NW 181 SW 181 NE 181 E 181 SE TR E E	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring	854 124 1,180 2,567 274	3	163	Spring	-100.4 -94.2 -99.5 -98.9 -94.6 <b>-98.9</b> -95.0 -99.1	-13.21 -12.42 -12.89 -13.28 -12.36 <b>-13.10</b> -12.07 -13.36			57 58 61	7 3 1	
180 181 NW 181 SW 181 NE 181 E 181 SE TR E E	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring	854 124 1,180 2,567 274	3 2	163 160	Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 <b>-98.9</b> -95.0 -99.1 -98.5	-13.21 -12.42 -12.89 -13.28 -12.36 <b>-13.10</b> -12.07 -13.36 <b>-13.16</b>			57 58 61	7 3 1	
180 181 NW 181 SW 181 NE 181 E 181 SE TR E E E E	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring	854 124 1,180 2,567 274	3 2 2	163 160 157	Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 <b>-98.9</b> -95.0 -99.1 -98.5 -99.0	-13.21 -12.42 -12.89 -13.28 -12.36 <b>-13.10</b> -12.07 -13.36 -13.16 -13.37			57 58 61	7 3 1	
180 181 NW 181 SW 181 NE 181 E 181 SE TR E E E E E	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Connor Spring	854 124 1,180 2,567 274	3 2	163 160	Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 <b>-98.9</b> -95.0 -99.1 -98.5	-13.21 -12.42 -12.89 -13.28 -12.36 <b>-13.10</b> -12.07 -13.36 <b>-13.16</b>			57 58 61	7 3 1	
180 181 NW 181 SW 181 NE 181 E 181 SE TR E E E E E E	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring	854 124 1,180 2,567 274	3 2 2 1	163 160 157 283	Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 <b>-98.9</b> -95.0 -99.1 -98.5 -99.0 -100.6	-13.21 -12.42 -12.89 -13.28 -12.36 <b>-13.10</b> -12.07 -13.36 -13.16 -13.37 -13.84			57 58 61	7 3 1	
180 181 NW 181 SW 181 R 181 E 181 SE TR E E E E E E E SE SE SE	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Connor Spring Upper Conner Spring	854 124 1,180 2,567 274	3 2 2 1 2	163 160 157 283 156	Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 <b>-98.9</b> -95.0 -99.1 -98.5 -99.0 -100.6 -101.2	-13.21 -12.42 -12.89 -13.28 -12.36 <b>-13.10</b> -12.07 -13.36 -13.16 -13.37 -13.84 -13.87			57 58 61	7 3 1	
180 181 NW 181 SW 181 E 181 E 181 SE <b>TR</b> E E E E E E E SE SE SE SE	Inflow (None) S. Schell Ck Range N. Pahroc Rng, Fairview Rng, Bristol/Highland Rng, Burnt Springs Rng, Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Connor Spring Upper Conner Spring Red Rock Spring	854 124 1,180 2,567 274	3 2 1 2 1	163 160 157 283 156 <b>256</b>	Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 <b>-98.9</b> -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0	-13.21 -12.42 -12.89 -13.28 -12.36 <b>-13.10</b> -13.36 -13.16 -13.37 -13.84 -13.87 -12.30			57 58 61	7 3 1	
180 181 NW 181 SW 181 NE 181 NE 181 SE TR E E E E E E E SE SE SE SE SE	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Connor Spring Upper Conner Spring Red Rock Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar)	854 124 1,180 2,567 274	3 2 1 2 1 1	163 160 157 283 156 256 266 266 264 265	Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.9 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9	-13.21 -12.42 -12.89 -13.28 -13.28 -13.16 -13.16 -13.37 -13.84 -13.87 -12.30 -12.32 -11.71 -12.87			57 58 61	7 3 1	
180 181 NW 181 SW 181 NE 181 SE TR E E E E E E E SE SE SE SE SE SE	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Connor Spring Upper Conner Spring Red Rock Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring	854 124 1,180 2,567 274	3 2 1 2 1 1 1 1	163 160 157 283 156 256 266 266 264 265 261	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.9 -95.0 -99.0 -100.6 -101.2 -95.0 -95.0 -100.6 -101.2 -95.0 -94.5 -88.2 -86.9 -96.9 -98.4	-13.21 -12.42 -12.89 -13.28 -13.26 -13.10 -12.07 -13.36 -13.36 -13.37 -13.84 -13.87 -12.30 -12.32 -11.71 -12.87 -12.98			57 58 61	7 3 1	
180 181 NW 181 SW 181 NE 181 E E E E E E E E E E SE SE SE SE SE SE SE	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Connor Spring Upper Conner Spring Red Rock Spring Buckboard Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Oak Spring	854 124 1,180 2,567 274	3 2 1 2 1 1 1 1 1 1	163 160 157 283 156 256 266 264 265 261 269	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.9 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -98.4 -98.4 -98.4	-13.21 -12.42 -12.89 -13.28 -12.36 -13.10 -13.07 -13.36 -13.16 -13.37 -13.84 -13.87 -12.30 -12.32 -11.71 -12.89 -11.87			57 58 61	7 3 1	
180 181 NW 181 SW 181 NE 181 E E E E E E E E E E SE SE SE SE SE SE SE	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Connor Spring Upper Conner Spring Red Rock Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Oak Spring Unnamed Chokecherry Spring	854 124 1,180 2,567 274	3 2 1 2 1 1 1 1 1 1	163 160 157 283 156 256 266 264 265 261 269 263	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.9 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -98.4 -98.9	-13.21 -12.42 -12.89 -13.28 -12.36 -13.10 -13.07 -13.36 -13.16 -13.16 -13.37 -13.84 -13.87 -12.30 -12.32 -11.71 -12.87 -12.98 -11.87 -12.54			57 58 61	7 3 1	
180 181 NW 181 SW 181 NE 181 E 181 SE TR E E E E E E E SE SE SE SE SE SE SE SE S	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Connor Spring Upper Conner Spring Red Rock Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Oak Spring Upper Chokecherry Spring	854 124 1,180 2,567 274	3 2 1 2 1 1 1 1 1 1	163 160 157 283 156 256 266 264 265 261 269 263 262	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.9 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -94.5 -88.2 -96.9 -98.4 -90.0 -98.1 -98.9	-13.21 -12.42 -12.89 -13.28 -12.36 -13.10 -12.07 -13.36 -13.16 -13.37 -13.84 -13.87 -12.30 -12.32 -11.71 -12.87 -12.98 -11.87 -12.54 -12.96			57 58 61	7 3 1	
180           181 NW           181 SW           181 RE           181 E           181 SE           TR           E           E           E           SE	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Connor Spring Upper Conner Spring Red Rock Spring Red Rock Spring Buckboard Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Upper Chokecherry Spring	854 124 1,180 2,567 274	3 2 1 1 1 1 1 1 1 1 1 1	163 160 157 283 156 256 266 264 265 261 269 263 262 260	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -98.4 -90.9 -98.4 -90.9 -98.1 -98.9 -98.1 -98.9 -98.1	-13.21 -12.42 -12.89 -13.28 -12.36 -13.16 -13.16 -13.37 -13.84 -13.87 -12.30 -12.32 -11.71 -12.87 -12.98 -11.87 -12.96 -11.69			57 58 61	7 3 1	
180           181 NW           181 SW           181 NE           181 SE           TR           E           E           E           SE           SE	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Connor Spring Upper Conner Spring Red Rock Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Upper Chokecherry Spring Upper Chokecherry Spring Upper Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Bailey Spring (Fairview)	854 124 1,180 2,567 274	3 2 1 1 1 1 1 1 1 1 2	163 160 157 283 156 256 266 264 265 261 269 263 262 260 277	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.9 -95.0 -99.0 -100.6 -101.2 -95.0 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -98.4 -90.0 -98.1 -98.1 -98.1 -98.2	-13.21 -12.42 -12.89 -13.28 -13.26 -13.10 -12.07 -13.36 -13.16 -13.16 -13.16 -13.16 -13.18 -13.84 -13.87 -12.30 -12.32 -11.71 -12.87 -12.98 -11.69 -12.69			57 58 61	7 3 1	
180           181 NW           181 SW           181 NE           181 SE           TR           E           E           E           SE           NE	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Connor Spring Upper Conner Spring Red Rock Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Upper Chokecherry Spring Upper Chokecherry Spring Upper Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Bailey Spring (Fairview)	854 124 1,180 2,567 274	3 2 1 1 1 1 1 1 1 1 2 1	163 160 157 283 156 256 266 264 265 261 269 263 262 260 277 274	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.9 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -98.4 -90.0 -98.1 -98.1 -98.2 -98.2 -98.2 -98.2 -98.2 -98.2 -98.2	-13.21 -12.42 -12.89 -13.28 -12.36 -13.10 -13.07 -13.36 -13.16 -13.37 -13.84 -13.87 -12.30 -12.32 -11.71 -12.87 -12.98 -11.87 -12.98 -11.69 -13.40			57 58 61	7 3 1	
180           181 NW           181 SW           181 NE           181 SE           TR           E           E           E           SE           NE	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Pine Spring Connor Spring Upper Conner Spring Red Rock Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Oak Spring Unnamed Chokecherry Spring Upper Chokecherry Spring Villow Spring (Colak Sps.summit) Bailey Spring (Fairview) Cottonwood Spring (Fairview) Littlefield Spring	854 124 1,180 2,567 274	3 2 1 2 1 1 1 1 1 1 1 2 1 1	163 160 157 283 156 256 266 264 265 261 269 263 269 263 262 260 277 274 275	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.9 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -98.4 -90.0 -98.4 -98.9 -98.4 -98.9 -98.4 -98.9 -98.4 -98.9 -98.4 -98.9 -98.4 -98.9 -98.5	-13.21 -12.42 -12.89 -13.28 -12.36 -13.10 -13.07 -13.36 -13.16 -13.37 -13.84 -13.87 -12.30 -12.32 -11.71 -12.87 -12.98 -11.87 -12.98 -11.69 -12.54 -12.54 -12.54 -12.54 -13.40 -12.73			57 58 61	7 3 1	
180           181 NW           181 SW           181 SE           TR           E           E           E           E           SE           SE           SE           SE           SE           SE           SE           NE           NE	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Connor Spring Upper Conner Spring Red Rock Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Upper Chokecherry Spring	854 124 1,180 2,567 274	3 2 1 1 1 1 1 1 1 1 2 1 2	163 160 157 283 156 266 264 265 261 269 263 269 263 260 277 274 275 190	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.9 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -98.4 -90.0 -98.1 -98.9 -98.2 -102.2 -98.5 -101.0	-13.21 -12.42 -12.89 -13.28 -12.36 -13.10 -12.07 -13.36 -13.16 -13.16 -13.37 -13.84 -13.87 -12.30 -12.32 -11.71 -12.98 -11.87 -12.54 -12.96 -11.69 -12.69 -13.40 -12.73 -13.25			57 58 61	7 3 1	
180         181 NW           181 NW         181 SE           181 E         E           E         E           E         E           SE         SE           SE         SE           SE         SE           NE         NE           NE         NE	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Connor Spring Upper Conner Spring Red Rock Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Upper Chokecherry Spring Meloy Spring	854 124 1,180 2,567 274	3 2 1 1 1 1 1 1 1 1 2 1 2 1	163 160 157 283 156 256 266 264 265 261 269 263 262 260 277 274 275 190 276	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.9 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -94.5 -88.2 -96.9 -98.4 -90.0 -98.1 -98.9 -98.2 -98.2 -98.2 -102.2 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -99.0 -94.5 -98.5 -99.0 -94.5 -98.5 -99.0 -94.5 -98.5 -99.0 -98.5 -98.5 -99.0 -98.5 -98.5 -99.0 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -9	-13.21 -12.42 -12.89 -13.28 -12.36 -13.10 -12.07 -13.36 -13.16 -13.37 -13.84 -13.87 -12.30 -12.32 -11.71 -12.87 -12.54 -11.69 -11.69 -12.69 -13.69 -13.25 -12.75 -12.75			57 58 61	7 3 1	
180         181         NW           181         NW         181         NW           181         NE         181         SE           181         NE         E         E           E         E         E         SE           SE         SE         SE         SE           SE         SE         SE         NE           NE         NE         NE         NE	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Connor Spring Upper Conner Spring Red Rock Spring Red Rock Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Upper Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Bailey Spring (Fairview) Cottonwood Spring (Fairview) Littlefield Spring Lower Pony Spring Meloy Spring	854 124 1,180 2,567 274	3 2 1 1 1 1 1 1 1 1 2 1 2 1 1 2 1	163 160 157 283 156 256 266 264 265 261 269 263 262 260 277 274 275 190 276 272	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.9 -95.0 -99.0 -100.6 -101.2 -95.0 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -98.4 -90.0 -98.4 -98.9 -98.9 -98.2 -102.2 -98.5 -101.0 -99.8 -90.5	-13.21 -12.42 -12.89 -13.28 -13.26 -13.10 -12.07 -13.36 -13.37 -13.84 -13.87 -12.30 -12.32 -11.71 -12.87 -12.98 -11.87 -12.54 -11.69 -12.69 -13.40 -12.73 -12.75 -12.73			57 58 61	7 3 1	
180         181         NW           181 NW         181 SE         181 SE           181 SE         E         E           E         E         E           SE         SE         SE           SE         SE         SE           NE         NE         NE           NE         NE         NE	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Connor Spring Upper Conner Spring Red Rock Spring Abandoned Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Upper Chokecherry Spring Unnamed Chokecherry Spring Unper Chokecherry Spring Unnamed Chokecherry Spring Unnamed Chokecherry Spring Unower Pony Spring Killow Spring (Fairview) Cottonwood Spring (Fairview) Littlefield Spring Lower Pony Spring Meloy Spring Scotty Spring Indian Spring near Steward Ranch	854 124 1,180 2,567 274	3 2 1 1 1 1 1 1 1 2 1 1 2 1 1 2 1 1	163 160 157 283 156 256 266 264 265 261 269 263 262 260 277 274 275 190 276 272 188	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.9 -95.0 -99.1 -98.5 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -98.1 -98.1 -98.2 -98.2 -102.2 -98.5 -101.0 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -98.9 -99.0 -99.1 -99.1 -99.1 -99.1 -99.1 -99.1 -99.1 -99.1 -99.1 -99.1 -99.1 -99.1 -99.1 -99.1 -99.1 -99.1 -99.1 -99.1 -99.1 -99.1 -99.1 -99.1 -99.1 -99.1 -99.0 -99.1 -99.1 -99.0 -99.1 -99.0 -99.1 -99.0 -99.1 -99.0 -99.1 -99.0 -99.1 -99.0 -99.1 -99.0 -99.1 -99.0 -99.1 -99.0 -99.1 -99.0 -99.1 -99.0 -99.1 -99.0 -99.0 -99.1 -99.0 -99.1 -99.0 -99.1 -99.0 -99.1 -99.0 -99.1 -99.0 -99.1 -99.0 -99.1 -99.0 -99.1 -99.0 -99.1 -99.0 -99.1 -99.0 -99.1 -99.2 -99.2 -98.9 -98.1 -98.2 -98.2 -98.2 -98.2 -98.2 -98.2 -98.2 -98.2 -98.2 -98.2 -98.2 -98.2 -98.2 -98.2 -98.9 -98.2 -98.9 -98.2 -98.9 -98.2 -98.9 -98.2 -98.9 -98.2 -98.9 -98.2 -98.9 -98.2 -98.9 -98.2 -98.5 -98.9 -98.2 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -98.5 -99.0 -98.2 -98.5 -98.5 -98.5 -98.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -90.5 -	-13.21 -12.42 -12.89 -13.28 -12.36 -13.10 -12.07 -13.36 -13.16 -13.7 -13.84 -13.87 -12.30 -12.32 -11.77 -12.98 -11.67 -12.54 -12.54 -12.69 -13.40 -12.73 -13.25 -12.73 -13.60			57 58 61	7 3 1	
180 181 NW 181 NW 181 NE 181 E 181 SE TR E E E E E SE SE SE SE SE SE	Inflow (None) S. Schell Ck Range N. Pahroc Rng. Fairview Rng. Bristol/Highland Rng. Burnt Springs Rng. Total Recharge Deadman Spring (Highland) Highland Spring Lime Spring Connor Spring Upper Conner Spring Red Rock Spring Red Rock Spring Buckboard Spring Cottonwood Spring (Delamar) Lower Chokecherry Spring Upper Chokecherry Spring Willow Spring 2 (So.of Oak Sps.summit) Bailey Spring (Fairview) Cottonwood Spring (Fairview) Littlefield Spring Lower Pony Spring Meloy Spring	854 124 1,180 2,567 274	3 2 1 1 1 1 1 1 1 1 2 1 2 1 1 2 1	163 160 157 283 156 256 266 264 265 261 269 263 262 260 277 274 275 190 276 272	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	-100.4 -94.2 -99.5 -98.9 -94.6 -98.9 -95.0 -99.0 -100.6 -101.2 -95.0 -99.0 -100.6 -101.2 -95.0 -94.5 -88.2 -96.9 -98.4 -90.0 -98.4 -98.9 -98.9 -98.2 -102.2 -98.5 -101.0 -99.8 -90.5	-13.21 -12.42 -12.89 -13.28 -13.26 -13.10 -12.07 -13.36 -13.37 -13.84 -13.87 -12.30 -12.32 -11.71 -12.87 -12.98 -11.87 -12.54 -11.69 -12.69 -13.40 -12.73 -12.75 -12.73			57 58 61	7 3 1	

Region	Name	Volume	# of	Site#	Site	Obs.	Obs.	Calc.	Calc.	IC	
NE	Lower Fairview	arce-tt/yr	Samples	281	Type Spring	δD -97.5	δ18Ο -12.39	δD	δ18Ο		
NE	Robison Spring		1	201	Spring	-97.5	-12.39				
NE	Upper Fairview		1	280	Spring	-97.9	-12.66				
SW	Black Rock Spring		2	200 158	Spring	-97.7	-12.00				
SW	Coyote Spring		2	169	Spring	-95.0	-12.51				
SW	Hamilton Spring		1	298	Spring	-93.1	-12.55				
SW	1 0		1				-13.06				
SW	Little Boulder Spring Mustang Spring		2	301 135	Spring	-97.2 -90.5	-12.49				
SW			2		Spring		-12.49				
SW	Pahroc Spring Rattlesnake Spring		3 1	131 302	Spring	-92.2 -97.3	-12.65				
SW			1		Spring		-12.65				
	Unnamed Springnr Blackrock Sidehill Spring	4 000		299	Spring	-94.3					
NW Evenerated	1 0	1,600	2 3	200	Spring	-100.4	-13.21	Evenerate	d oo not u	and in rookers	appleulation
Evaporated	, , ,			117	Spring	-88.7		•		sed in rec <mark>harg</mark>	
Evaporated			1	183	Spring	-92.5				sed in rec <mark>harg</mark>	
Carb Well	Fugro Dry Lake V Deep Well		2 1	179	Well	-107.5	-14.16	-98.9		Local Rec <mark>har</mark>	
Carb Well	181M1		1	603	Deep Well	-105.0	-13.67	-98.9		Local Rec <mark>har</mark>	
Carb Well	181W909M	•	1	604	Deep Well	-104.6	-13.50	-98.9		Local Rec <mark>har</mark>	ge
ET	ET CW/ Outflow (Pabranaget)	0						-98.9	-13.10		
209	GW Outflow (Pahranagat)	0						-98.9	-13.10		
182	GW Outflow (Delamar)	5,000						-98.9	-13.10		
xxxxxxx	<pre>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</pre>	XXXXXX	xxxxxxx	(XXXXX)	«xxxxxxxxx	xxxxxx	xxxxxx	XXXXXX )	xxxxx	xxxxxx	
182	Delamar Valley										
	-										
181	Inflow (Dry Lake)	5,000				-98.9	-13.10				
182 E	Delamar Mtns.	1,037				-92.5	-12.32			81	
182 W	S. Pahroc Rng.	163				-94.6	-12.81			82	
TR	Total Recharge	1,200				-92.7	-12.38				
E	Abandoned Spring		1	266	Spring	-94.5	-12.32				
E	Red Rock Spring		1	256	Spring	-95.0	-12.30				
E	Oak Spring		1	269	Spring	-90.0	-11.87				
E	Upper Chokecherry Spring		1	262	Spring	-98.9	-12.96				
E	Upper Indian Spring		1	268	Spring	-88.0	-11.46				
E	Lower Indian Spring		1	267	Spring	-96.0	-12.62				
E E E E E E E E E E E E E E E E E E E	Boulder Spring (KSV-4)		4	98	Spring	-89.2	-12.47				
E	Narrow Canyon Spring		1	257	Spring	-92.5	-12.47				
E	Bishop Spring		3	107	Spring	-87.2	-11.72				
E	Buckboard Spring		1	264	Spring	-88.2	-11.71				
E	Cottonwood Spring (Delamar)		1	265	Spring	-96.9	-12.87				
E	Lower Chokecherry Spring		1	261	Spring	-98.4	-12.98				
E	Sawmill Spring (Delamar Range)		1	259	Spring	-88.7	-12.58				
E	Sawmill Spring West		1	258	Spring	-91.8	-12.86				
E	Upper Riggs Spring WR4		5	105	Spring	-87.1	-11.95				
E	Unnamed Chokecherry Spring		1	263	Spring	-98.1	-12.54				
E	Willow Spring 2 (So.of Oak Sps.summit)		1	260	Spring	-91.2	-11.69				
W	Pahroc Spring		3	131	Spring	-92.2	-12.65				
W	Gulch Spring(Unnamed Spring in Hells Acre	es Gulch)	1	109	Spring	-93.0	-12.30				
W	Sixmile Spring	,	1	112	Spring	-93.4	-13.06				
			2	295	Spring	-95.6	-13.09				
W	Eightmile Spring		~				-13.24				
	Eightmile Spring		1	294	Spring	-97.4	-10.24				
W	Eightmile Spring Twin Spring	)	1	294 303	Spring Spring	-97.4 -96.7					
W W	Eightmile Spring Twin Spring named Spring in Road(South Pahroc Range	)	1 1 1	303	Spring	-96.7	-13.07				
W W W	Eightmile Spring Twin Spring named Spring in Road(South Pahroc Range Unnamed Spring nr Six Mile seep	)	1 1 1 1	303 296	Spring Spring	-96.7 -94.5	-13.07 -12.62				
W W W W	Eightmile Spring Twin Spring named Spring in Road(South Pahroc Range Unnamed Spring nr Six Mile seep Water Tank 0.4mi West of Sixmile	)	1 1 1 1	303 296 297	Spring Spring Spring	-96.7 -94.5 -93.8	-13.07 -12.62 -12.44	Evaporate	d so not u	sed in rechard	e calculation
W W Evaporated	Eightmile Spring Twin Spring named Spring in Road(South Pahroc Range Unnamed Spring nr Six Mile seep Water Tank 0.4mi West of Sixmile	) 0	1 1 1	303 296	Spring Spring	-96.7 -94.5	-13.07 -12.62 -12.44	Evaporateo -92.7	d so not u -12.38	sed in rec <mark>harg</mark>	e calculation
W W W Evaporated ET	Eightmile Spring Twin Spring named Spring in Road(South Pahroc Range Unnamed Spring nr Six Mile seep Water Tank 0.4mi West of Sixmile Grassy Spring ET		1 1 1 3	303 296 297 117	Spring Spring Spring Spring	-96.7 -94.5 -93.8 -88.7	-13.07 -12.62 -12.44 -11.08 F	-92.7	-12.38		
W W W W	Eightmile Spring Twin Spring named Spring in Road(South Pahroc Range Unnamed Spring nr Six Mile seep Water Tank 0.4mi West of Sixmile Grassy Spring ET 182W906M	0	1 1 1 1	303 296 297	Spring Spring Spring	-96.7 -94.5 -93.8	-13.07 -12.62 -12.44		-12.38		e calculation w from Dry Lake V:
W W W Evaporated ET Well	Eightmile Spring Twin Spring named Spring in Road(South Pahroc Range Unnamed Spring nr Six Mile seep Water Tank 0.4mi West of Sixmile Grassy Spring ET		1 1 1 3	303 296 297 117	Spring Spring Spring Spring	-96.7 -94.5 -93.8 -88.7	-13.07 -12.62 -12.44 -11.08 F	-92.7 -98.9	-12.38 -13.10		

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC
206	Kane Springs Valley									
0	Inflow (None)	0				0.0	0.00			
206 W	Delamar Mtns.	563				-89.0	-12.22			90
206 E	Meadow Valley Mtns.	0				-87.4	-11.92			91
TR	Total Recharge	600				-89.0	-12.22			
E W	Grapevine Spring (KSV-2)		10	93	Spring	-87.4	-11.92			
W	Sawmill Spring (Delamar Range) Sawmill Spring West		1	259 258	Spring Spring	-88.7 -91.8	-12.58 -12.86			
W	Bishop Spring		3	107	Spring	-87.2	-11.72			
Ŵ	Boulder Spring (KSV-4)		4	98	Spring	-89.2	-12.47			
Ŵ	Kane Springs (KSV-3)		3	97	Spring	-86.8	-12.13			
W	Narrow Canyon Spring		1	257	Spring	-92.5	-12.47			
W	Upper Riggs Spring WR4		5	105	Spring	-87.1	-11.95			
W	Willow Spring (KSV-1)		4	92	Spring	-88.4	-11.60			
ET	ET	0						-89.0	-12.22	
210	GW Outflow (Coyote Spr)	600						-89.0	-12.22	
XXXXXXX	X XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXX	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXX	XXXXXX	xxxxx
210	Coyote Springs Valley									
209	Inflow (Pahranagat)	37,300				-110.9	-14.67			
182	Inflow (Delamar)	0				0.0	0.00			
206	Inflow (Kane Springs)	600				-89.0	-12.22			
210 NE	S. Delamar Mtns.	27				-89.0	-12.22			83
210 E	S. Meadow Valley Mtns.	0				-87.4	-11.92			84
210 NW	S. of Maynard Lake	0				-94.0	-12.30			87
210 SE 210 W	Arrow Canyon Rng. Sheep Range	4 2,007				-81.0 -92.7	-10.60 -12.83			88 89
TR	Total Recharge	2,007 2,000				-92.6	-12.00			09
W	Cow Camp Spring	2,000	4	47	Spring	-91.9	-12.53			
W	Lamb Spring		1	86	Spring	-92.5	-13.15			
W	Mormon Well Spring		3	53	Spring	-91.8	-12.67			
W	Rye Patch Spring		1	341	Spring	-89.3	-12.31			
W	Sawmill Spring (Sheep)		1	58	Spring	-92.0	-12.85			
W	Sheep Spring (Sheep Range)		1	83	Spring	-96.0	-13.35			
WW	Wiregrass Spring (Sheep)		13	49 64	Spring	-95.1	-12.93	Evenerate	d not upod	
NW	White Rock Spring (Sheep) Maynard Lake Spring (Unnamed Spring)		2 1	64 94	Spring Spring	-85.5 -94.0	-12.30	Evaporate	u not used	in recharge calcula
SE	Wamp Spring		1	52	Spring	-81.0	-10.60			
E	Grapevine Spring (KSV-2)		10	93	Spring	-87.4	-11.92			
NE	Bishop Spring		3	107	Spring	-87.2	-11.72			
NE	Boulder Spring (KSV-4)		4	98	Spring	-89.2	-12.47			
NE	Kane Springs (KSV-3)		3	97	Spring	-86.8	-12.13			
NE	Narrow Canyon Spring		1	257	Spring	-92.5	-12.47			
NE	Sawmill Spring (Delamar Range)		1	259	Spring	-88.7	-12.58			
NE	Sawmill Spring West		1	258	Spring	-91.8	-12.86			
NE NE	Upper Riggs Spring WR4 Willow Spring (KSV-1)		5 4	105 92	Spring Spring	-87.1 -88.4	-11.95 -11.60			
Carb Well			1	612	Well	-97.7	-13.14			
Carb Well			1	613	Well	-98.0	-13.10			
Carb Well			1	614	Well	-102.5	-13.41			
Carb Well			1	616	Well	-100.7	-12.97			
Carb Well			1	609	Well	-102.6	-13.08			
Carb Well			1	610	Well	-100.2	-12.90			
Carb Well			1	611	Well	-99.6	-13.03			
Carb Well			1	71	Well	-103.0	-13.55			
Carb Well Carb Well			2 3	81 77	Well	-101.0 -99.6	-13.10 -12.96			
Carb well	Fugro CV Deep Well CE-DT-5		3	11	Well	-99.0	-12.90			

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC		
Carb Well CARB ET 219 217 216	CE-DT-4 Carbonate Well (Avg) ET GW Outflow (Muddy) GW Outflow (Hidden) GW Outflow (Garnet)	500 39,400 0 0		78	Well	-102.5 -100.7	-13.00 -13.11	-110.5 -92.6 -109.8 -109.8 -109.8	-14.63 -12.81 -14.56 -14.56 -14.56	Flow weigl	hted a	verage of inter-basin flow from Pahranagat, Kane Springs, and Delamar Valleys
xxxxxxx	****	xxxxxxx	xxxxxxx	xxxxxx	xxxxxxx	XXXXXXX	xxxxx	xxxxxx	xxxxx	XXXXXX		
219	Upper Moapa (Muddy) Valley											
205 210 219 S 219 N TR Warm Warm Warm Warm Warm Warm Warm Warm	Inflow (LMVW) Inflow (Coyote) E. Arrow Canyon? Wildcat Wash Total Recharge APCAR Baldwin Spring Big Muddy Spring Iverson's Spring Jones Spring Pumphouse M-8 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) Pederson's East Pederson's Warm Spring (M-13) Dicharge Warm Spring (M-13) CE-DT-6 Well CSV-2 Well Deep Carbonate Well (Avg) ET Moapa Gage SW Outflow (California) GW Outflow (California)	0 39,400 0 0 2226 5500 0 0 200 0 200 0 400 8,300 8,300 34,000 34,000 3,400	1 9 6 1 6 1 1 9 15 <b>49</b> 2 2 <b>4</b>	292 291 69 65 292 68 70 290 67 72 76	Spring Spring Spring Spring Spring Spring Spring Well Well	0.0 -109.8 -87.3 -87.3 -98.2 -97.6 -97.9 -97.9 -97.9 -90.0 -96.5 -97.8 -97.5 -97.8 -97.5 -97.8 -97.9 -97.9 -97.9 -97.9 -97.9		Grapevine Grapevine -109.8 -109.8 -87.3 -109.8 -109.8	Sp. -14.56	_	yhted	average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys average of inter-basin flow from Coyote and Lower Meadow Valley Wash Valleys
217	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXX	KXXXXX	XXXXXXXX	XXXXXXX	(XXXXX)	XXXXXX	(XXXXX	XXXXXX		
210 217 E 217 W TR W ET 216	Inflow (Coyote) E. Hidden W. Hidden Total Recharge Wamp Spring ET GW Outflow (Garnet )	0 0 400 <b>400</b> <b>400</b>	1	52	Spring	<b>-109.8</b> -81.0 -81.0 <b>-81.0</b> -81.0	-14.56 -10.60 -10.60 -10.60 -10.60	-81.0 -81.0	-10.60 -10.60	99 100		
<b>XXXXXXXX</b>	*****	XXXXXXXX	XXXXXXXX	xxxxxx	XXXXXXXX	XXXXXXX	XXXXXX	XXXXXX	XXXXX	XXXXXX		
216	Garnet Valley											
217 216 E 216 W TR W Carb Well Carb Well Carb Well CARB	Inflow (Hidden) Apex Las Vegas Range Total Recharge Wamp Spring Dry Lake Valley Well GP Apex Well Unnamed Well (Near Dry Lake Range) US Lime Well (Genstar) Wells (Avq)	<b>400</b> 10 390 <b>400</b>		<b>52</b> 34 17 24 27	Spring Well Well Well Well	-81.0 -81.0 -81.0 -81.0 -97.5 -97.2 -96.0 -97.0 -97.0 -96.9	-10.60 -10.60 -10.60 -10.60 -13.30 -13.53 -13.70 -12.75 -13.32	-81.0	-10.60	104 105		r from Hidden Valley
ET	ET	0				-30.3	-13.32	-81.0	-10.60			

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	
218	GW Outflow (California)	800			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			-81.0	-10.60		
XXXXX	xxx xxxxxxxxxxxxxxxxxxxxxx	XXXXXXXX	XXXXXXXX	XXXXX	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
218	California Wash										
219 219	Inflow (LMVW) Inflow (Muddy)	12,700 5,400				-99.8 -109.8	-13.33 -14.56				
216	Inflow (Garnet)	800				-81.0	-10.60				
218	SW Inflow (Muddy)	34,000									
218 E	Moapa Paiutes	45				-82.0	-10.60			110	
218 W	Muddy Mtns.	55				-82.0	-10.60			111	
TR W	Total Recharge Valley of Fire Well	100	4	31	Well	<b>-82.0</b> -82.0	<b>-10.60</b> -10.60				
Carb W			1	43	Well	-99.0	-13.50				
Carb W			1	41	Well	-99.0	-13.40				
CARB	Carbonate Well (Avg)					-99.0	-13.45	-106.1	-14.05	Weighted <mark>Ave</mark>	rage of Infterbasin flow from Garnet and Upper Moapa Valleys
ET	ET	1,000						-99.9	-13.3		
220	GW Outflow (Lower Moapa)	21,300						-101.9	-13.57		
215	GW Outflow (Black Mtn Area)	0 20 700						-101.9	-13.57		
220	SW Outflow (Lower Moapa)	30,700									
XXXXX	XXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXX	xxxxx	XXXXXXXX	XXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
215	Black Mountains Area										
218	Inflow (California Wash)	0				-101.9	-13.57				
215 NE	Muddy Mtns.	100				-85.0	-10.95			113	
215 SE		0				-79.5	-10.65			114	
215 W	Gypsum Wash	0				-79.5	-10.65			112, 166	
TR SE	Total Recharge Cottonwood Spring (Black Mtns.)	<b>100</b> 0	1	8	Spring	<b>-85.0</b> -80.0	<b>-10.95</b> -10.80				
SE	Sandstone Spring	0	1	10	Spring	-79.0	-10.50				
NE	Unnamed, Kaolin Wash		1	35	Spring	-88.0	-11.30				
NE	Valley of Fire Well		1	31	Well	-82.0	-10.60				
Alluvial		5	1	14	Spring	-77.0	-9.90				
Carb S Carb S		440 0	5	26 19	Spring Spring	-92.6 -91.5	-12.40 -12.10				
Carb S		1,200	3	21	Spring	-91.7	-12.33				
Carb S		0	1	20	Spring	-90.0	-12.00				
Carb S		0	1	28	Spring	-88.0	-11.20				
Carb S		6	1	29	Spring	-92.0	-11.80				
Carb S		17	1	30	Spring	-93.0	-12.20	05.0	10.05	Mainshied Ave	anna af Inflaw fram California Maak alua raakarna fram Muddu Mauntaina
CARB ET	Carbonate Spr (Avg) ET	1,700 <b>0</b>	13			-91.3	-12.01	-85.0 -85.0	-10.95	weighted Ave	rage of Inflow from Califronia Wash plus recharge from Muddy Mountains
999	GW Outflow (Colorado River)	100						-85.0	-10.95		
xxxxx	xxx xxxxxxxxxxxxxxxxxxxx	xxxxxxx	xxxxxxx	××××××	xxxxxxx	xxxxxx	xxxxxx	XXXXXXX	xxxxxx	xxxxxx	
220	Lower Moapa Valley										
219	Inflow (Muddy)	21,300				-101.9	-13.57				
<b>218</b> 220 S	SW Inflow (California Wash) Valley of Fire	<b>30,700</b> 0				-88.0	-11.30			101	
220 S 220 N	S. Mormon Mtns.	100				-88.3	-12.50			101	
TR	Total Recharge	100				-88.3	-12.50				
N	Davies Spring		1	90	Spring	-89.0	-12.50				
N	Hackberry Spring		1	84	Spring	-87.0	-12.30				
N S	Horse Spring (Morman)		1	85	Spring	-89.0	-12.70				
S Carb W	Unnamed, Kaolin Wash ell EH-7		1	35 56	Spring Well	<b>-88.0</b> -91.0	<b>-11.30</b> -12.45				
Carb W			1	61	Well	-91.0	-12.45				
											•

Region CARB ET 999 999	Name Carbonate Well (Avg) ET GW Outflow (Colorado River) SW Outflow (Colorado River)	Volume Arce-ft/yr 24,000 19,100 9,000	# of Samples 2	Site#	Site Type	Οbs. δD -91.0	Obs. δ180 -12.58	Calc. δD -101.9 -101.8 -101.9	Calc. δ18Ο -13.57 -13.56 -13.57	IC Inter-basin	flow from Lower Meadow Valley Wash
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			~~~~~	///////////////////////////////////////	VYYYYY	
	* ****			XXXXXX		XXXXXXXX		*****		*****	
Colorado I	R Lake Mead (Colorado River)										
210 205 999	GW Inflow (Black Mountains Area) GW Inflow (Lower Moapa) Groundwater Total	100 19,100 19,200				-85.0 -101.9	-10.95 -13.57	-101.8	-13.55		
205 999	SW Inflow (Lower Moapa) Surfacewater Total	9,000 9,000									
999	Inflow Total	28,200									
XXXXXXXX	* ****	xxxxxxxx	xxxxxx	XXXXXX	xxxxxxxx	xxxxxx	XXXXX	XXXXXX >	xxxxx	xxxxxx	
183	Lake Valley										
0 183 NE 183 NW 183 SE 183 SW TR NE NW NW NW NW NW NW NW NW SE SE SE SE SE SE SE SE SE SE SE SE SE	Inflow (None) Fortification Rng Cen. Schell Cr. Rng Wilson Cr. Rng. @ Atlanta Fairview Rng. Total Recharge Indian Springs Big Spring North Big Spring South Geyser Spring North Creek Spring Patterson Pass Spring WR3 Unnamed Spring in Schell Creek Range Headwaters Spring WR5 Bailey Spring (Wilson Ck) Wilson Creek Cottonwood Spring (Fairview) Lower Pony Spring Indian Spring near Steward Ranch Unnamed Spring near Pony Spring ET GW Outflow (Patterson)	0 1,426 6,436 3,974 1,165 13,000 700 1,600 340 1,200 9,000 4,000	1 1 1 1 15 4 17 1 1 2 1 1	375 211 210 213 214 305 304 309 310 189 274 190 188 191	Spring Spring Spring Spring Spring Spring Spring Surface Spring Spring Spring Spring Spring	0.0 -106.3 -108.1 -104.7 -101.1 -106.2 -106.3 -112.0 -111.0 -105.0 -102.0 -97.5 -102.0 -102.0 -99.0	0.00 -14.16 -14.74 -13.75 -13.29 -14.24 -14.16 -15.10 -14.80 -14.50 -14.80 -14.50 -14.40 -14.57 -12.93 -13.20 -13.20 -13.20 -13.20 -13.60 -12.90	-106.2 -106.2	-14.24 -14.24	49 51 50 60	charge average
xxxxxxx	x xxxxxxxxxxxxxxxxxxxxxxx	XXXXXXXXX	XXXXXXX	XXXXXX	XXXXXXXXX	XXXXXXX	XXXXX	XXXXXX >	XXXXX	XXXXXX	
202	Patterson Valley										
183 202 E 202 W TR E E E E E E E	Inflow (Lake) Wilson Cr. Rng. @ Mt. Wilson Bristol Rng. Total Recharge Bailey Spring (Wilson Ck) Blue Rock Spring Headwaters Spring WR5 Upper Tower Spring Parsnip Spring Horsethief Spring Wilson Creek	4,000 4,059 1,941 6,000	1 17 1 1 2 1	310 311 309 312 180 314 189	Spring Spring Spring Spring Spring Spring Surface	-106.2 -97.7 -99.2 -98.2 -102.0 -93.4 -107.3 -93.3 -93.5 -97.0 -97.5	-14.24 -12.99 -13.10 -13.03 -12.93 -12.68 -14.57 -12.30 -12.80 -12.68 -13.20	Surface 14/	ater pot i	47 48	
W	Deadman Spring (Highland)		2	169 162	Spring	-97.5	-13.20 3 -12.07	Sunace W			charge average

F	Region	Name	Volume	# of	Site#	Site	Obs.	Obs.	Calc.	Calc.	IC		
v	v	Highland Spring	Arce-ft/yr	Samples	163	Type Spring	δD -99.1	δ18O -13.36	δD	δ18Ο			
	v	Lime Spring		2	160	Spring	-98.5	-13.16					
	Ň	Pine Spring		2	157	Spring	-99.0	-13.37					
	v	Upper Conner Spring		1	156	Spring	-102.3	-13.88					
	V	Connor Spring		1	283	Spring	-100.6	-13.84					
۷	V	Fox Cabin		1	273	Spring	-103.5	-13.59					
	V	Scotty Spring		1	272	Spring	-98.9	-12.73					
	V	Upper Fairview		1	280	Spring	-97.7	-12.66					
	V	Lower Fairview		1	281	Spring	-97.5	-12.39					
	V	Wildhorse Spring (Fairview)		1	183	Spring	-92.5						calculation
	V ET	McDermitt Spring ET	100	1	323	Spring	-94.3	-11.21	-98.2	-13.03	sea in reci	large	calculation
	203	GW Outflow (Panaca)	9,900						-101.5	-13.52			
X	xxxxxx	<pre>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</pre>	xxxxxxx	xxxxxx	«xxxxx	xxxxxxx	axxxxxx	XXXXXX	XXXXXXX	XXXXXX	xxxxxx		
2	201	Spring Valley											
0		Inflow (Nono)	0				0.0	0.00					
	201 E	Inflow (None) White Rock Mtns.	5,128				0.0 -100.9	-13.52			52		
	201 E 201 W	Willson Cr. Rng. @ Parsnip Pk.	5,128 4,872				-100.9 -97.7	-13.52			52 53		
	IR IR	Total Recharge	4,072				-97.7 -99.4	-12.99			00		
E		Barrel Spring	10,000	1	317	Spring	-100.5	-13.36					
E		anyon Spring (Unnamed Spring in Burnt C	anvon)	1	187	Spring	-93.0	-12.30					
E		Lion Spring	anyon	1	318	Spring	-103.4	-14.11					
E		South Monument Spring		1	319	Spring	-102.3	-14.23					
E		Jnnamed Spring nr Redd's Cabin Summit		2	173	Spring	-94.4	-12.44					
E		Ripgut Sp #40		1	411	Spring	-106.4	-14.38					
E		Unnamed Spring #1(White Rock Mts)		1	415	Spring	-109.6	-15.05					
E		Unnamed Spring #2 (White RockMts)		1	417	Spring	-97.0	-13.00					
		Upper Burnt Canyon Spring		1	416	Spring	-97.6	-12.83					
E		Upper Burnt Canyon Spring #2		1	416	Spring	-103.6	-13.66					
E		Tobe Spring		1	315	Spring	-100.0	-13.04					
E		Tobe Spring 2		1	316	Spring	-93.6	-12.09					
E		Unnamed Spring in Miller Canyon		1	313	Spring	-103.7	-14.27					
E		Headwaters Spring WR5		17	309	Spring	-107.3	-14.57					
۷		Blue Rock Spring		1	311	Spring	-93.4	-12.68					
	V	Headwaters Spring WR5		17	309	Spring	-107.3	-14.57					
۷	V	Bailey Spring (Wilson Ck)		1	310	Spring	-102.0	-12.93					
V	v	Horsethief Spring		2	314	Spring	-97.0	-12.68					
V	V	Parsnip Spring		1	180	Spring	-93.5	-12.80					
۷	V	Upper Tower Spring		1	312	Spring	-93.3	-12.30					
S	Surface	Camp Creek		1	184	Surface	-102.0	-14.00	Surface W	ater not ind	cluded in	rechai	rge average
	Surface	MVW above Eagle Canyon		1	168	Surface	-93.0	-12.00	Surface W	ater not ind	cluded in	rechai	rge average
	ET 200	ET GW Outflow (Eagle)	10,000 0						-99.4 -99.4	-13.26 -13.26			
				*****	~~~~~	~~~~~~	axxxxxx	*****			~~~~~		
	(XXXXXXX			~~~~						~~~~~	~~~~		
2	200	Eagle Valley											
2	201	Inflow (Spring)	0				-99.4	-13.26					
	200 E	E. Eagle (Ursine) Valley	1,186				-99.1	-13.28			63		
2	200 W	W. Eagle (Ursine) Valley	160				-97.0	-12.68			64		
I	R	Total Recharge	1,300		o	. .	-98.9	-13.20					
Ē		Tobe Spring		1	315	Spring	-100.0	-13.04					
	R	Tobe Spring 2 Butcher Spring		1 1	316 424	Spring Spring	-93.6 -103.2	-12.09 -14.22					
	-	Baterier opring		· · ·	747	oping	100.2	17.22					

Arce-ft/yr Samples Type δD δ180 δD δD
E Ox Valley Spring 1 422 Spring -100.0 -13.95 E Unnamed Spring #2 (Mahogany Mts) 1 421 Spring -100.7 -13.47 E Water Canyon Spring (Mahogany) 1 420 Spring -100.4 -13.68 W Horsethief Spring 2 314 Spring -97.0 -12.68 ET ET 1,000 -98.9 -13.20 -98.9 -13.20 199 GW Outflow (Rose) 300 -98.9 -13.20 XXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Unnamed Spring #2 (Mahogany Mts) 1 421 Spring -100.7 -13.47 Water Canyon Spring (Mahogany) 1 420 Spring -100.4 -13.68 Horsethief Spring 2 314 Spring -97.0 -12.68 T ET 1,000 -98.9 -13.20 99 GW Outflow (Rose) 300 -98.9 -13.20 XXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Water Canyon Spring (Mahogany) 1 420 Spring -100.4 -13.68 Horsethief Spring 2 314 Spring -97.0 -12.68 F ET 1,000 -98.9 -13.20 9 GW Outflow (Rose) 300 -98.9 -13.20 (XXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Horsethief Spring 2 314 Spring -97.0 -12.68 F ET 1,000 -98.9 -13.20 -98.9 -13.20 B9 GW Outflow (Rose) 300 -98.9 -13.20 KXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
ET 1,000 -98.9 -13.20 9 GW Outflow (Rose) 300 -98.9 -13.20 9 Rose Valley 7 -98.9 -13.20 9 Rose Valley 300 -98.9 -13.20 9 Rose Valley 300 -98.9 -13.20 9 W Rose Valley 24 -99.1 -13.28 65 9 W Rose Valley 7 -97.0 -12.68 66
XXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
N9 Rose Valley N0 Inflow (Eagle) 300 -98.9 -13.20 N9 E E. Rose Valley 24 -99.1 -13.28 65 N9 W W. Rose Valley 7 -97.0 -12.68 66
00 Inflow (Eagle) 300 -98.9 -13.20 99 E E. Rose Valley 24 -99.1 -13.28 65 99 W W. Rose Valley 7 -97.0 -12.68 66
99 E E. Rose Valley 24 -99.1 -13.28 65 99 W W. Rose Valley 7 -97.0 -12.68 66
W W. Rose Valley 7 -97.0 -12.68 66
D Total Dochargo 0 00 6 4244
Butcher Spring 0 424 Spring -103.2 -14.22
Newels Spring 1 423 Spring -96.0 -12.48 Ox Valley Spring 0 422 Spring -100.0 -13.95
Ox Valley Spring 0 422 Spring -100.0 -13.95
Unnamed Spring #2 (Mahogany Mts) 0 421 Spring -100.7 -13.47
Water Canyon Spring (Mahogany) 0 420 Spring -100.4 -13.68
Tobe Spring 1 315 Spring -100.0 -13.04
Tobe Spring 2 1 316 Spring -93.6 -12.09 Usersthick Option 0 04.4 Option 07.0 40.00
V Horsethief Spring 2 314 Spring -97.0 -12.68
T ET 100 -98.6 -13.14 98 GW Outflow (Dry) 200 -98.9 -13.20
******* *******************************
98 Dry Valley
99 Inflow (Rose) 200 -98.9 -13.20
8 E E. Dry Valley 1,478 -96.9 -12.99 67
98 W W. Dry Valley 0 -97.0 -12.68 68
R Total Recharge 1,500 -96.9 -12.99
Kiln Spring 1 418 Spring -91.9 -12.34
Summit Spring (Mahogany Mts.) 1 419 Spring -92.1 -12.04
Newels Spring 1 423 Spring -96.0 -12.48
Ox Valley Spring 0 422 Spring -100.0 -13.95
Unnamed Spring #2 (Mahogany Mts) 0 421 Spring -100.7 -13.47
Water Canyon Spring (Mahogany) 0 420 Spring -100.4 -13.68
V Horsethief Spring 2 314 Spring -97.0 -12.68
Varm Sprin [,] Flatnose Spring (Unnamed Spring) 1 153 Spring -101.0 -13.40 -98.9 -13.20 Inter-basin f pring Delmues Spring (Unnamed Spring) 1 149 Spring -104.0 -13.40 Local Valley s
ET ET 1,000 -96.9 -12.99
03 GW Outflow (Panaca) 700 -97.4 -13.05
xxxxxxx xxxxxxxxxxxxxxxxxxxxxxxxxx
204 Clover Valley
04 N South of Beaver Dam 868 -92.2 -12.42 71
D4 N South of Beaver Dam 868 -92.2 -12.42 71 D4 S North of Jack's Mtn 927 -92.0 -12.52 72
04 N South of Beaver Dam 868 -92.2 -12.42 71 04 S North of Jack's Mtn 927 -92.0 -12.52 72 R Total Recharge 1,800 -92.1 -12.47
94 N South of Beaver Dam 868 -92.2 -12.42 71 94 S North of Jack's Mtn 927 -92.0 -12.52 72 R Total Recharge 1,800 -92.1 -12.47 Acoma Well 1 118 Well -95.0 -12.60
04 N South of Beaver Dam 868 -92.2 -12.42 71 04 S North of Jack's Mtn 927 -92.0 -12.52 72 R Total Recharge 1,800 -92.1 -12.47 71 I Acoma Well 1 118 Well -95.0 -12.60 I Cave Spring (Clover) 2 247 Spring -92.8 -12.37
South of Beaver Dam 868 -92.2 -12.42 71 204 S North of Jack's Mtn 927 -92.0 -12.52 72 CR Total Recharge 1,800 -92.1 -12.47 71 N Acoma Well 1 118 Well -95.0 -12.60 N Cave Spring (Clover) 2 247 Spring -92.8 -12.37 N Clover Creek Valley Well 246 1 120 Well -89.0 -12.40
South of Beaver Dam 868 -92.2 -12.42 71 204 S North of Jack's Mtn 927 -92.0 -12.52 72 R Total Recharge 1,800 -92.1 -12.47 71 N Acoma Well 1 118 Well -95.0 -12.60 N Clover Spring (Clover) 2 247 Spring -92.8 -12.37 N Clover Creek Valley Well 246 1 120 Well -89.0 -12.40 N Ramone Mathews Well 1 115 Well -92.0 -12.30
4 N South of Beaver Dam 868 -92.2 -12.42 71 4 S North of Jack's Mtn 927 -92.0 -12.52 72 Total Recharge 1,800 -92.1 -12.47 Acoma Well 1 118 Well -92.0 -12.60 Cave Spring (Clover) 2 247 Spring -92.8 -12.37 Clover Creek Valley Well 246 1 120 Well -89.0 -12.40

Region	Name	Volume Arce-ft/yr	# of Samples	Site#	Site Type	Obs. δD	Obs. δ18Ο	Calc. δD	Calc. δ18Ο	IC	
S	Ella Spring	Alcenty	1	251	Spring	-95.8	-12.56	02	0100		
S	Little Springs (Clover Mts)		2	254	Spring	-93.3	-12.81				
S S S	Quaking Aspen Spring		1	255	Spring	-93.6	-12.98				
S	Sheep Spring (Clover)		2	108	Spring	-88.8	-12.03				
S	Unnamed Spring		1	113	Spring	-86.5	-11.60				
Alluvial Well	Clover Creek Valley Well 232		1	114	Well	-84.0	-11.70				
ET	ET	0						-92.1	-12.47		
205	GW Outflow (LMVW)	1,800						-92.1	-12.47		
XXXXXXXX	*****	XXXXXXXXX	XXXXXXXX	(KXXXX)	(XXXXXXXX	XXXXXXX	XXXXX	XXXXXX X	XXXXX	XXXXXX	
203	Panaca Valley										
202	Inflow (Patterson)	9,900				-101.5	-13.52				
198	Inflow (Dry)	700				-97.4	-13.05				
203 E	Condor Canyon	564				-92.0	-12.19			69	
203 W	Cathedral Gorge	1,337				-98.9	-13.28			70	
TR W	Total Recharge	1,900	1	202	Coring	-96.8	-12.95 -13.84				
W	Connor Spring Deadman Spring (Highland)		2	283 162	Spring Spring	-100.6 -95.0	-13.64				
W	Highland Spring		3	163	Spring	-95.0	-13.36				
Ŵ	Lime Spring		2	160	Spring	-98.5	-13.16				
W	Pine Spring		2	157	Spring	-99.0	-13.37				
W	Upper Conner Spring		2	156	Spring	-101.2	-13.87				
E E	Kiln Spring		1	418	Spring	-91.9	-12.34				
	Summit Spring (Mahogany Mts.)		1	419	Spring	-92.1	-12.04				
Warm	Bennett Spring	20	1	141	Spring	-103.0	-13.70	-101.5			ow from Patterson Valley
Warm	Caliente Hot Springs (Hotel)	0	8	129	Spring	-107.9	-14.44	-106.2			ow from Lake Valley
Warm	Panaca Spring	7700	13	144	Spring	-106.9	-14.14	-106.2	-14.24	Inter-basin fl	ow from Lake Valley
Surface	Meadow Valley Wash, Cal. Lester Mathews Well		1 1	130	Surface	-97.0	-13.10				
Warm Warm	Panaca Town Well		1	142 143	Well Well	-103.0 -106.0	-13.30 -14.00				
Warm	North Lee Well		1	143	Well	-101.0	-13.30				
ET	ET	2,000	•			101.0	10.00	-97.1	-12.98		
205	GW Outflow (LMVW)	12,500						-101.2	-13.49		
XXXXXXXX	*****	XXXXXXXXX	XXXXXXXX	«XXXXX	xxxxxxx	XXXXXXX	XXXXXX	(XXXXXX)	xxxxx	XXXXXX	
205	Lower Meadow Valley Wash										
203	Inflow (Panaca)	12,500				-101.2	-13.49				
204	Inflow (Clover)	1,800				-92.1	-12.47				
205 NW	Delamar Mtns.	713				-92.2	-12.28			92	
205 NE	Clover Mountains	589				-90.4	-12.25			93	
205 SW	Meadow Valley Mtns.	0				-87.4	-11.92			94	
205 SE TR	Mormon Mtns. Total Recharge	146 1,400				-88.3 -91.1	-12.50 -12.29			95	
NE	Big Spring (Clover)	1,400	2	253	Spring	-93.6	-12.89				
NE	East Settling Spring		1	248	Spring	-92.2	-12.05				
NE	Ella Spring		1	251	Spring	-95.8	-12.56				
NE	Garden Spring		1	246	Spring	-87.0	-11.54				
NE	Kershaw-Ryan Spring #1		1	250	Spring	-95.1	-13.11				
NE	Sheep Spring (Clover)		2	108	Spring	-88.8	-12.03				
NE	Unnamed Spring		1	113	Spring	-86.5	-11.60				
NE	Unnamed Spring (Clover)		1	249	Spring	-88.0	-12.20				
NE	Garden Spring		1	246	Spring	-87.0	-11.54				
NW	Abandoned Spring		1	266	Spring	-94.5	-12.32	Europe (
NW	Grassy Spring		3	117	Spring	-88.7		Evaporate	a so not i	used in rec <mark>har</mark> ç	ge calculation
NW	Buckboard Spring		1	264	Spring	-88.2	-11.71				
NW NW	Cottonwood Spring (Delamar) Bishop Spring		1 3	265 107	Spring Spring	-96.9 -87.2	-12.87 -11.72				
INVV	bishop opining		3	107	oping	-07.2	-11.72				

Region	Name	Volume	# of	Site#	Site	Obs.	Obs.	Calc.	Calc.	IC
		Arce-ft/yr	Samples		Туре	δD	δ18Ο	δD	δ18Ο	
NW	Boulder Spring (KSV-4)		4	98	Spring	-89.2	-12.47			
NW	Lower Chokecherry Spring		1	261	Spring	-98.4	-12.98			
NW	Lower Indian Spring		1	267	Spring	-96.0	-12.62			
NW	Narrow Canyon Spring		1	257	Spring	-92.5	-12.47			
NW	Oak Spring		1	269	Spring	-90.0	-11.87			
NW	Red Rock Spring		1	256	Spring	-95.0	-12.30			
NW	Willow Spring (KSV-1)		4	92	Spring	-88.4	-11.60			
NW	Sawmill Spring (Delamar Range)		1	259	Spring	-88.7	-12.58			
NW	Sawmill Spring West		1	258	Spring	-91.8	-12.86			
NW	Unnamed Chokecherry Spring		1	263	Spring	-98.1	-12.54			
NW	Upper Chokecherry Spring		1	262	Spring	-98.9	-12.96			
NW	Willow Spring 2 (So.of Oak Sps.summit)		1	260	Spring	-91.2	-11.69			
NW	Upper Indian Spring		1	268	Spring	-88.0	-11.46			
NW	Upper Riggs Spring WR4		5	105	Spring	-87.1	-11.95			
SW	Grapevine Spring (KSV-2)		10	93	Spring	-87.4	-11.92			
SE	Davies Spring		1	90	Spring	-89.0	-12.50			
SE	Horse Spring (Morman)		1	85	Spring	-89.0	-12.70			
SE	Hackberry Spring		1	84	Spring	-87.0	-12.30			
Warm	Kershaw-Ryan Spring #1		1	250	Spring	-95.1	-13.11	-100.0	-13.36 Weig	hted <mark>A</mark>
Warm	EH-6 Weiser Wash		1	59	Well	-99.5	-13.90		-	
Warm	EH-8 Weiser Wash		1	57	Well	-96.5	-13.70			
Alluvial We	II Railroad Well (Farrier, NV)		1	80	Well	-97.5	-12.50			
ET	ET	1,000						-91.1	-12.29	
206	GW Outflow (Upper Moapa)	0						-99.8	-13.33	
218	GW Outflow (California Wash)	12,700						-99.8	-13.33	
	· · ·									
XXXXXXX	<pre>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</pre>	XXXXXXXX	XXXXXXXX	XXXXXX	XXXXXXXXX		XXXXXX	XXXXXX		XXX

APPENDIX 3. Isotopic, field parameter, and water chemistry data for all sites used in this study

Name Abandoned Spring Abandoned Spring	Y X 37.49914 -114.728 37.49914 -114.728			8 -12.32	dD -94.5 -94.5	Ca 81.0 81.0	Mg 20.0 20.0	Na 50.0 50.0	K 2.3 2.3	CI 35.2 35.2	HCO3 357.0 357.0	SO4 41.8 41.8	SiO2 27.8 27.8	F 	Sample# 59699 59699	Total 1 1	REF_ID	SiteType Spring Spring	Site# 266 266	Date 03/26/04 03/26/04
Acoma Well	37.54861 -114.173 37.54861 -114.173	50 11.0	7 7		-95.0 -95.0	38.0 38.0	5.3 5.3	21.0 21.0	7.0 7.0	17.0 17.0	149.0 149.0	10.0 10.0	54.0 54.0	0.3 0.3	244 244	1 1	GS91 GS91	Well Well	118 118	06/03/85 06/03/85
Adaven Spring Adaven Spring Adaven Spring	38.13861 -115.601 38.13861 -115.601 38.13861 -115.601 38.13861 -115.601	39 9.9	6.9 7 7 6.9 7	1 -14.07	-103.0 -107.6 -105.3	63.0 63.0	25.0 25.0	14.0 14.0	2.2 2.2	4.8 4.8	324.0 358.0 341.0	18.0 18.0	28.0 28.0	0.2 0.2	341 340	1 1 2	GS131 IT115	Spring Spring Spring	177 177 177	07/31/85 02/03/97
Alamo City Well #7 Alamo City Well #7	37.36222 -115.168 37.36222 -115.168		7 7		-101.1 -101.1	61.4 61.4	56.0 56.0	96.3 96.3	13.7 13.7	54.6 54.6	454.0 454.0	188.0 188.0	59.1 59.1	1.3 1.3	205 205	1 1	IT116 IT116	Well Well	104 104	08/08/95 08/08/95
Albert Spring Albert Spring	38.56833 -115.361 38.56833 -115.361			-13.95 -13.9 5	-107.0 -107.0										403 403	1 1	GS182 GS182	Spring Spring	204 204	07/24/85 07/24/85
APCAR APCAR	36.71099 -114.716 36.71099 -114.716			12.94 - -12.94	-98.2 -98.2	62.9 62.9	27.2 27.2	95.0 95.0	11.2 11.2	62.1 62.1	257.0 257.0	176.0 176.0	31.6 31.6	-	61616 61616	1 1		Spring Spring	292 292	10/19/04 10/19/04
Arrow Canyon Arrow Canyon	36.734208 -114.747 36.734208 -114.747			-12.91 -12.91	-99.4 -99.4										SNWA SNWA			Well Well	619 619	2/1/2006 2/1/2006
Ash Springs Ash Springs Ash Springs Ash Springs Ash Springs Ash Springs Ash Springs	37.46361 -115.192 37.46361 -115.192 37.46361 -115.192 37.46361 -115.192 37.46364 -115.192 37.46364 -115.192 37.46364 -115.192 37.46364 -115.192 37.46364 -115.192 37.46364 -115.192	50 50 50 36.0 52 50 34.0	2.3 7 1.6 7 1.9 7	-14.03 4 -14.20	-107.0 -109.0 -112.0 -108.0 -110.0 -108.4 -109.1	43.0 46.4 44.7	14.0 16.8 15.4	27.0 28.4 27.7	7.4 7.3 7.3	8.5 8.6 8.6	248.0 248.0	34.0 32.8 33.4	30.0 32.7 31.4	0.8 0.8	222 223 224 225 SNWA 61099	1	IT27 IT28 IT29 GS81	Spring Spring Spring Spring Spring Spring Spring	110 110 110 110 110 110	08/01/68 01/01/69 03/01/70 07/20/81 5/24/2004 07/30/04
Aspen Springs South Aspen Springs South	39.21629 -115.398 39.21629 -115.398			0 -16.02 0 -16.02										-	62721 62721	1 1	DRI-WP-16 DRI-WP-16		324 324	06/07/05 06/07/05
Aspen Springs North Aspen Springs North	39.22100 -115.399 39.22100 -115.399		7.7 6 7.7 6		-119.3 -119.3									-	62716 62716	1 1	DRI-WP-11 DRI-WP-11	Spring Spring	349 349	06/07/05 06/07/05
Bailey Spring (Fairview) Bailey Spring (Fairview) Bailey Spring (Fairview)	38.17593 -114.728 38.17593 -114.728 38.17593 -114.728 38.17593 -114.728	29 10.7	7.0 7 6.0 7 6.5 7		-98.5 -97.9 -98.2	86.4 96.2 91.3	21.4 25.8 23.6	29.8 42.4 36.1	2.1 1.7 1.9	48.3 70.3 59.3	331.0 327.0 329.0	26.6 49.7 38.2	32.4 33.1 32.8	 #DIV/0!	60849 62407	1 1	DRI-FR-5	Spring Spring Spring	277 277 277	06/29/04 05/01/05
Bailey Spring (Wilson Ck) Bailey Spring (Wilson Ck)	38.35295 -114.367 38.35295 -114.367		6.4 7 6.4 7		-102.0 -102.0	45.0 45.0	9.4 9.4	18.5 18.5	2.1 2.1	40.6 40.6	135.0 135.0	16.1 16.1	36.7 36.7	-	60310 60310	2 2		Spring Spring	310 310	05/18/04 05/18/04
Baldwin Spring Baldwin Spring Baldwin Spring Baldwin Spring Baldwin Spring Baldwin Spring Baldwin Spring Baldwin Spring Baldwin Spring	36.72035 -114.724 36.72035 -114.724 36.72035 -114.724 36.72035 -114.724 36.72035 -114.724 36.720350 -114.724 36.720350 -114.724 36.720350 -114.724 36.720350 -114.724 36.720350 -114.724 36.720350 -114.724 36.720350 -114.724 36.720350 -114.724 36.720350 -114.724 36.720350 -114.724	15 32.0 15 31.8 15 32.0 50 31.8 50 30.2 50 32.30 50 31.7	3.0 7 2.7 7 2.8 6 2.64 7. 5.26 7. 4.75 7. 4.33 7.	8 -12.94 32 -13.05 35 -13.03 29 -13.03	-96.8 -98.6 -98.1 -97.2	63.8 63.7 62.8 63.1 63.5 71.1 64.5 61.8 64.3	28.1 27.6 27.4 27.4 27.2 22.1 28.0 27.4 26.9	96.3 94.7 95.0 95.7 96.8 93.4 83.9 93.5 93.7	11.6 11.1 11.2 11.2 10.9 11.2 9.35 11.2 11.0	63.8 64.1 61.4 61.7 61.1 63.4 61.7 60.0 62.2	260.0 263.0 258.0 252.0 253 254 259 251 256.3	180.0 180.0 174.0 178.0 176 180 178 1775 177.6	32.0 29.2 32.1 29.6 30.4 29.1 29.5 30.2	 2.21 2.18 2.18 2.21 2.2	58496 60309 61620 62034 62035 64174 64903 65284 65662	1	DRI-MV-3 DRI-MV-3 DRI-MV-3 DRI-MV-3 DRI-MV-3 DRI-MV-3 DRI-MV-3 DRI-MV-3 DRI-MV-3 DRI-MV-3	Spring Spring Spring Spring Spring Spring Spring Spring Spring	291 291 291 291 291 291 291 291 291 291	01/12/04 05/18/04 10/19/04 02/10/05 06/08/05 02/16/06 06/21/06 08/23/06 10/30/06
Barrel Spring Barrel Spring	38.13105 -114.055 38.13105 -114.055		6.2 7 6.2 7		-100.5 -100.5	55.7 55.7	6.1 6.1	16.5 16.5	0.5 0.5	18.8 18.8	193.0 193.0	10.7 10.7	22.9 22.9	-	60316 60316	1 1		Spring Spring	317 317	05/21/04 05/21/04
Bennett Spring Bennett Spring	37.78417 -114.528 37.78417 -114.528		7 7	5 -13.70 5 -13.70	-103.0 -103.0	56.0 56.0	26.0 26.0	6.5 6.5	1.5 1.5	7.9 7.9	318.0 318.0	6.9 6.9	14.0 14.0	<.1 <.1	288 288		GS103 GS103	Spring Spring	141 141	04/10/85 04/10/85
Big Muddy Spring Big Muddy Spring Big Muddy Spring Big Muddy Spring Big Muddy Spring Big Muddy Spring Big Muddy Spring	36.72196 -114.716 36.72196 -114.716 36.72196 -114.716 36.72196 -114.716 36.72196 -114.716 36.72196 -114.716 36.72196 -114.716 36.72196 -114.716 36.72196 -114.716 36.72196 -114.716	82 32.5 82 82 82 82 31.0 82 31.0	3.0 7 ·	-12.75 -13.05 12.84 -12.89	-98.0 -96.5 -98.0 -99.0 -98.4 -97.6 -97.9	66.0 64.4 63.4 64.6	26.0 27.6 27.0 26.9	96.0 99.9 99.1 98.3	10.0 10.9 10.9 10.6	61.0 64.2 64.5 63.2	270.0 255.0 262.5	190.0 198.0 178.0 188.7	29.0 29.9 32.6 30.5	2.1 2.1	121.2 122 125 124 60308 61615	2	GS42 jim GS44	Spring Spring Spring Spring Spring Spring Spring	69 69 69 69 69 69 69	3/00/70 07/22/81 10/30/85 01/07/88 05/18/04 10/19/04
Big Spring (Clover) Big Spring (Clover) Big Spring (Clover)	37.52781 -114.352 37.52781 -114.352 37.52781 -114.352	58 17.0	7.4 7 7.1 7 7.2 7		-94.2 -92.9 -93.6	27.3 30.2 28.8	4.3 4.5 4.4	9.5 11.1 10.3	2.6 2.6 2.6	7.3 9.0 8.2	111.0 114.0 112.5	3.9 4.8 4.4	48.2 45.8 47.0	 #DIV/0!	61094 62401	1	DRI-CR-6	Spring Spring Spring	253 253 253	07/31/04 04/30/05
Big Spring (Egan) Big Spring (Egan) Big Spring (Egan) Big Spring (Egan) Big Spring (Egan)	38.59947 -114.916 38.59947 -114.916 38.59947 -114.916 38.59947 -114.916 38.59947 -114.916 38.59947 -114.916	24 13.0 24 12.9 24 12.8	5.4 6 5.8 6 5.24 6 5.35 6 5.5 6	5 -13.92 1 -13.98 76 -13.86	-106.1	34.0 34.7 34.1 34.3	5.8 5.78 5.83 5.8	13.0 12.4 12.6 12.7	2.36 2.38 2.4	4.2 3.8 3.9 4.0	156.0 152 146 151.3	7.2 7.1 7.0 7.1	50.0 51.7 52.1 51.3	0.1 0.11 0.1	408 62980 65050	1	GS187 ER-4 ER-24	Spring Spring Spring Spring Spring	206 206 206 441 206	08/03/85 10/14/03 07/31/05 07/13/06
Big Spring (Grant) Big Spring (Grant)	38.37056 -115.481 38.37056 -115.481		8 8		-112.0 -112.0	78.0 78.0	7.0 7.0	4.9 4.9		2.1 2.1	268.0 268.0	13.0 13.0	9.5 9.5	<.1 <.1	366 366		GS151 GS151	Spring Spring	194 194	07/24/85 07/24/85
Big Spring Snake Valley Big Spring Snake Valley Big Spring Snake Valley Big Spring Snake Valley	38.698920 -114.1322 38.698920 -114.1322 38.698920 -114.1322 38.698920 -114.1322	30 30 17.2	5.3 7 4.88 7 5.16 7.	-15.22 5 -15.10	-112.2 -112.2 -110.3 -111.6	47.8 48.3 42.9 47.5	20.3 19.5 20.2 19.6	5.5 5.3 5.34 5.32	1.5 1.5 1.51 1.50	5.1 5.5 5.8 5.5	228.0 8.5 229 229	8.5 234.0 8.5 8.6	12.6 12.7 12.7 12.5	0.05 0.13 0.13	61964 63226 63569 64238	1 1 1	SU-2 SU-2	Spring Spring Spring Spring	325 325 325	01/22/05 08/13/05 8-Nov-05 02/25/06

Big Spring Snake Valley Big Spring Snake Valley Big Spring Snake Valley Big Spring Snake Valley	38.698920 -114.132230 38.698920 -114.132230 38.698920 -114.132230 38.698920 -114.132230 38.698920 -114.132230	17.30 5 17.0 4	5.27 7.43 5.44 7.49 4.83 7.44 5.1 7.5	-15.10 -15.15 -15.20 -15.15	-112.6 -111.8 -111.1 -111.7	49.0 47.7 49.7 47.6	20.3 20.4 20.3 20.1	6.18 5.2 5.93 5.5	2.61 1.42 1.45 1.6	7.3 5.33 6.1 5.8	232 232 232 198.6	9.3 8.84 8.5 40.9	12.8 12.7 12.9 12.7	0.13 0.12 0.13 0.1	64741 65291 65659	1 1 1 7	SU-2 SU-2 SU-2	Spring Spring Spring Spring	325 325 325 325	05/21/06 08/24/06 10/29/06
Big Spring North Big Spring North	38.65611 -114.63306 38.65611 -114.63306	20.5 20.5	7.6 7.6	-15.10 -15.10	-112.0 -112.0	49.0 49.0	19.0 19.0	5.3 5.3	2.1 2.1	6.0 6.0	240.0 240.0	12.0 12.0	21.0 21.0	0.2 0.2	416 416		GS193 GS193	Spring Spring	211 211	04/04/85 04/04/85
Big Spring South Big Spring South	38.65417 -114.63306 38.65417 -114.63306	18.5 18.5	7.5 7.5	-14.80 -14.80	-111.0 -111.0	45.0 45.0	18.0 18.0	5.4 5.4	1.9 1.9	5.6 5.6	200.0 200.0	12.0 12.0	18.0 18.0	0.2 0.2	415 415		GS192 GS192	Spring Spring	210 210	04/04/85 04/04/85
Bishop Spring Bishop Spring Bishop Spring Bishop Spring	37.41854 -114.64169 37.41854 -114.64169 37.41854 -114.64169 37.41854 -114.64169 37.41854 -114.64169	18.4	6.3 7.0 4.6 6.9 5.4 7.0	-11.70 -11.67 -11.78 -11.72	-85.5 -88.0 -88.1 -87.2	68.0 68.0	24.1 24.1	17.1 17.1	0.9 0.9	13.4 13.4	332.0 332.0	14.5 14.5	54.8 54.8	 #DIV/0!	208 58493 62618	1	GS80 DRI-DR-6	Spring Spring Spring Spring	107 107 107 107	02/02/84 01/14/04 05/20/05
Bitter Spring Bitter Spring	36.28500 -114.51417 36.28500 -114.51417		4.8 7.6 4.8 7.6	-9.90 -9.90	-77.0 -77.0										22 22		PL15 PL15	Spring Spring	14 14	02/06/96 02/06/96
Black Rock Spring Black Rock Spring Black Rock Spring	37.91204-114.9190637.91204-114.9190637.91204-114.91906		8.3 7.6 8.3 7.6	-12.25 -12.36 -12.31	-94.0 -93.6 -93.8	36.7 36.7	8.0 8.0	16.1 16.1	4.6 4.6	13.9 13.9	146.0 146.0	15.9 15.9	63.6 63.6	 #DIV/0!	313 59687	1	GS117	Spring Spring Spring	158 158 158	03/22/88 03/23/04
Blue Point Spring Blue Point Spring Blue Point Spring Blue Point Spring Blue Point Springs Blue Point Spring	36.39000 -114.43306 36.39000 -114.43306 36.39000 -114.43306 36.39000 -114.43306 36.39000 -114.43306 36.39000 -114.43306		7.8 2.7 7.1 2.7 7.4	-12.40 -12.35 -12.50 -12.30 -12.47 -12.40	-93.0 -92.5 -93.5 -91.0 -93.0 -92.6	470.0 470.0	160.0 160.0	330.0 330.0	23.0 23.0	400.0 400.0	160.0 160.0	1900.0 1900.0	16.0 16.0	1.5 1.5	49 47.5 48 47 USGS		PL8 USGS GS15 PL8	Spring Spring Spring Spring Spring Spring	26 26 26 26 26	06/24/85 07/01/85 07/01/85 02/08/96 6/5/2003
Blue Rock Spring Blue Rock Spring	38.15344 -114.35401 38.15344 -114.35401	-		-12.68 -12.68	-93.4 -93.4	-	-			-		-		Ξ	-	1 1		Spring Spring	311 311	04/28/04 04/28/04
Boulder Spring (KSV-4) Boulder Spring (KSV-4) Boulder Spring (KSV-4) Boulder Spring (KSV-4) Boulder Spring (KSV-4)	37.31436 -114.67261 37.31436 -114.67261 37.31436 -114.67261 37.31436 -114.67261 37.31436 -114.67261 37.31436 -114.67261	13.6	7.9 8.8 7.4 7.7 7.6 8.3 7.6	-12.00 -12.60 -12.60 -12.66 -12.47	-87.5 -87.0 -91.0 -91.3 -89.2	21.0 19.4 21.2 20.5	4.9 4.5 3.8 4.4	12.0 11.4 55.2 26.2	2.3 0.3 4.1 2.2	7.8 6.6 25.0 13.1	100.0 88.9 138.0 109.0	6.0 5.7 34.8 15.5	41.0 42.8 65.3 49.7	1.7 1.7	196 198 58491 62394	1	Kirk1027 GS74 DRI-DR-3	Spring Spring Spring Spring Spring	98 98 98 98 98	 02/02/84 01/13/04 04/27/05
Big Tom Plain Spring Big Tom Plain Spring	39.08701 -115.37737 39.08701 -115.37737		6.1 6.7 6.1 6.7	-15.92 -15.92	-121.1 -121.1									-	62713 62713		DRI-WP-8 DRI-WP-8	Spring Spring	326 326	06/06/05 06/06/05
Bradshaw Well Bradshaw Well	37.34917 -114.54389 37.34917 -114.54389	14.8 14.8	7.3 7.3	-11.40 -11.40	-88.5 -88.5	85.0 85.0	28.0 28.0	120.0 120.0	11.0 11.0	52.0 52.0	550.0 550.0	76.0 76.0	63.0 63.0	2.3 2.3	202 202		GS76 GS76	Well Well	102 102	02/01/84 02/01/84
Brady Spring Brady Spring (duplicate sample) Brady Spring	38.32746-115.4750938.32746-115.4750938.32746-115.47509	10.3 10.3 #E	 DIV/0! #DIV/0!	-15.38 -15.38 -15.38	-108.5 -110.4 -109.5	82.8 82.8	8.5 8.5	2.9 2.9	1.0 1.0	0.8 0.8	292.0 292.0	2.9 2.9	13.8 13.8	 #DIV/0!	57754 57754	1 1 2		Spring Spring Spring	282 282 282	10/28/03 10/28/03
Buckboard Spring Buckboard Spring	37.58886 -114.63111 37.58886 -114.63111		7.1 7.7 7.1 7.7	-11.71 -11.71	-88.2 -88.2	45.1 45.1	8.3 8.3	17.3 17.3	2.1 2.1	13.9 13.9	182.0 182.0	10.6 10.6	45.5 45.5	-	59697 59697	1 1		Spring Spring	264 264	03/26/04 03/26/04
Burnt Canyon Spring (Unnamed Spring in Burnt Canyon) Burnt Canyon Spring (Unnamed Spring in Burnt Canyon)	38.28944 -114.20889 38.28944 -114.20889	11.0 11.0	7.6 7.6	-12.30 -12.30	-93.0 -93.0	35.0 35.0	7.7 7.7	8.1 8.1	0.5 0.5	5.2 5.2	140.0 140.0	8.2 8.2	38.0 38.0	0.1 0.1	356 356		GS140 GS140	Spring Spring	187 187	06/05/85 06/05/85
Butcher Spring Butcher Spring	38.030347 -114.015314 38.030347 -114.015314	10.1	7.62 7.1 7.62 7.1	-14.22 -14.22	-103.2 -103.2	25.5 25.5	5.44 5.44	10.8 10.8	1.01 1.01	18.1 18.1	78.3 78.3	10.9 10.9	26.9 26.9	0.20 0.20	64910 64910	1	MG-7 MG-7	Spring Spring	424 424	06/23/06 06/23/06
Butte Spring Butte Spring	39.75816 -115.24246 39.75816 -115.24246		7.4 6.9 7.4 6.9	-15.79 -15.79	-120.4 -120.4									-	62619 62619		DRI-BT-1 DRI-BT-1	Spring Spring	327 327	05/24/05 05/24/05
Butterfield Spring Butterfield Spring	38.43972 -115.01083 38.43972 -115.01083		6.1 7.3 6.1 7.3	-14.20 -14.20	-105.0 -105.0	47.0 47.0	22.0 22.0	6.0 6.0	2.5 2.5	4.7 4.7	260.0 260.0	8.0 8.0	23.0 23.0	0.1 0.1	384 384		GS163 GS163	Spring Spring	202 202	07/19/81 07/19/81
Caliente City Well Caliente City Well	37.61583 -114.51333 37.61583 -114.51333	14.3 14.3		-12.40 -12.40	-89.0 -89.0										263 263		GS95 GS95	Well Well	124 124	01/31/84 01/31/84
Cabin Spring Cabin Spring	39.75790 -115.27245 39.75790 -115.27245		8.7 7.0 8.7 7.0	-15.89 -15.89	-124.4 -124.4									-	62708 62708		DRI-BT-7 DRI-BT-7	Spring Spring	328 328	06/05/05 06/05/05
Cain Springs Cain Springs	39.542581 -114.225882 39.542581 -114.225882		4.5 6.92 4.5 6.92	-10.85 -10.85	-98.4 -98.4	191 191	53.6 53.6	117 117	0.85 0.85	352 352	322 322	162 162	34.7 34.7	0.34 0.34	63282 63282			Spring Spring	400 400	26-Aug-05 26-Aug-05
Caliente Hot Springs (Hotel) Caliente Hot Springs (Hotel)	37.62111 -114.51042 37.62111 -114.51042 37.62111 -114.51042 37.62111 -114.51042 37.62111 -114.51042 37.62111 -114.51042 37.62111 -114.51042 37.62111 -114.51042 37.62111 -114.51042 37.62111 -114.51042 37.62111 -114.51042 37.62111 -114.51042	40.4 41.0 40.1 41.5 39.7 39.9	7.8 4.4 8.2 4.1 8.1 4.0 7.5 2.8 7.6 3.12 7.71 4.5 7.91 3.3 7.98 3.7 7.8	-14.50 -14.52 -14.29 -14.43 -14.47 -14.47 -14.42 -14.38 -14.44	-109.0 -106.4 -109.3 -107.0 -109.0 -107.2 -107.7 -107.3 -107.9	37.0 35.0 35.6 35.0 38.4 39.0 36.7	7.3 7.3 7.2 7.36 7.61 7.93 7.5	49.0 50.1 51.8 51.2 52.2 53.6 51.3	19.0 18.7 19.0 18.8 18.9 21.1 19.3	13.0 14.5 14.5 13.7 17.3 18.5 15.3	222.0 213.0 208.0 214 215 224 216.0	34.0 37.2 44.8 39.1 43.6 46.5 40.9	130.0 128.0 119.0 122 119 118 122.7	1.4 1.47 1.44 1.43 1.4	270 61621 61970 62620 63230 63572 64170 64744	2 8.0	GS99 DRI-MW-2 DRI-MW-2 MW-2 MW-2	Spring Spring Spring Spring Spring Spring Spring Spring	129 129 129 129 129 129 129 129 129 129	04/10/85 10/20/04 01/24/05 05/19/05 08/16/05 9-Nov-05 02/17/06 05/22/06
Calpine Test Well 1a Calpine Test Well 1a	36.54611 -114.80194 36.54611 -114.80194	30.5 30.5		-13.50 -13.50	-99.0 -99.0										999 999		ECP-1a ECP-1a	Well Well	43 43	04/07/00 04/07/00

Camp Creek	38.24361 -114.25222	9.0	7.9	-14.00	-102.0										349		E3	Surface	184	04/09/85
Camp Creek	38.24361 -114.25222	9.0	7.9	-14.00	-102.0										349		E3	Surface	184	04/09/85
Carpenter Spring Carpenter Spring	38.05000 -115.61167 38.05000 -115.61167	16.0 16.0		-11.85 -11.85	-95.0 -95.0										332 332		GS126 GS126	Spring Spring	171 171	07/31/85 07/31/85
Cave Spring Cave Spring	38.64111 -114.79583 38.64111 -114.79583	12.0 8.4 11.7 7.5	5 7.2	-13.85 -14.20	-100.0 -102.2	16.0 15.4	2.2 2.04	3.1 2.57	0.68	1.0 1.0	62.0 55.4	4.5 2.6	14.0 16.0	<.1 0.05	414 65057		GS191 SC-8	Spring Spring	209 448	08/02/85 07/14/06
Cave Spring	38.64111 -114.79583	11.9 8.0		-14.03	-101.1	15.7	2.1	2.8	0.7	1.0	58.7	3.6	15.0	0.1	414		GS191	Spring	209	08/02/85
Cave Spring (Clover) Cave Spring (Clover) Cave Spring (Clover)	37.52979 -114.24092 37.52979 -114.24092 37.52979 -114.24092 37.52979 -114.24092	18.7 4. 18.7 4. 18.7 4.	7 7.0	-12.21 -12.53 -12.37	-90.8 -94.7 -92.8	47.8 47.8	9.1 9.1	26.4 26.4	8.4 8.4	20.0 20.0	219.0 219.0	10.8 10.8	57.4 57.4	 #DIV/0!	61101 61101B	2		Spring Spring Spring	247 247 247	07/31/04 07/31/04
Cave Valley MX Cave Valley MX	38.468592 -114.869444 38.468592 -114.869444			-13.94 -13.94	-105.0 -105.0										USGS USGS		602 602	Deep Well Deep Well	620 620	7/10/2003 7/10/2003
Cedar Spring Cedar Spring	39.77309 -114.211402 39.77309 -114.211402	14.4 2.8 14.4 2.8		-15.52 -15.52	-121.5 -121.5	104 104	50.6 50.6	16.5 16.5	1.60 1.60	42.9 42.9	208 208	262 262	14.6 14.6	0.49 0.49	63275 63275	1 1		Spring Spring	393 393	23-Aug-05 23-Aug-05
Cedar Cabin Spring Cedar Cabin Spring	38.79689 -114.22339 38.79689 -114.22339	9.6 9. 9.6 9.		-14.10 -14.10	-106.0 -106.0	62.3 62.3	20.2 20.2	5.5 5.5	1.0 1.0	5.0 5.0	5.7 5.7	272.0 272.0	12.0 12.0	<.04 <.04	62913 62913		SN-4 SN-4	Spring Spring	380 380	07/13/05
The Cedars The Cedars	38.93537 -114.41800 38.93537 -114.41800	18.7 8.0 18.9 8.4		-15.02 -15.03	-110.3 -108.1	20.0	1.7	5.9	0.9	2.0	74.9	3.2	20.7		61965 62621	1	DRI-SV-1	Spring Spring	329 329	01/22/05 05/20/05
The Cedars	38.93537 -114.41800	10.9 0.4	+ 8.0	-15.00	-108.6	19.8	1.7	5.9	0.9	2.0	3.3	74.2	20.6	0.34	63225		SV-1	Spring	329	08/12/05
The Cedars	38.93537 -114.41800	18.3 7.3		-15.00	-108.2	20.1	1.69	5.71	0.82	2.0	73.1	3.3	20.7	0.19	63570			Spring	329	8-Nov-05
The Cedars The Cedars	38.93537 -114.41800 38.93537 -114.41800	18.2 7.7 18.8 8.4		-15.02 -15.03	-108.4 -108.3	20.1 20.1	1.59 1.67	5.60 5.85	0.84 1.84	2.1 2.1	74.8 74.1	3.4 3.5	20.5 20.8	0.19 0.19	64240 64742		SV-1 SV-1	Spring Spring	329 329	02/26/06 05/21/06
The Cedars	38.93537 -114.41800	19.9 7.5		-14.97	-108.3	20.1	1.78	5.43	0.75	2.1	72.1	3.6	20.8	0.19	65369		SV-1	Spring	329	08/30/06
The Cedars	38.93537 -114.41800	18.4 8.2		-15.05	-109.9	20.0	1.68	5.67	0.82	2.0	72.9	3.4	20.6	0.20	65660		SV-1	Spring	329	10/29/06
The Cedars	38.93537 -114.41800	18.7 8.0	0 8.0	-15.02	-108.9	20.0	1.7	5.7	1.0	2.0	63.6	13.5	20.7	0.2				Spring	329	
CE-DT-4 CE-DT-4	36.79556 -114.89222 36.79556 -114.89222	34.0 3.4 34.0 3.4		-13.00 -13.00	-102.5 -102.5	46.0 46.0	19.0 19.0	84.0 84.0	11.0 11.0	35.0 35.0	294.0 294.0	110.0 110.0	33.0 33.0	1.9 1.9	138 138	1	GS52 GS52	Well Well	78 78	12/23/80 12/23/80
CE-DT-6 Well	36.76778 -114.78694			-13.10	-99.0										130.2	1	DRI	Well	72	09/28/86
CE-DT-6 Well CE-DT-6 Well	36.76778 -114.78694 36.76778 -114.78694	33.5 3.3 33.5 3.3		-12.95 -13.03	-97.0 -98.0	58.0 58.0	25.0 25.0	88.0 88.0	11.0 11.0	53.0 53.0	272.0 272.0	160.0 160.0	30.0 30.0	2.1 2.1	130	1 1	G\$47	Well Well	72 72	09/28/86
CE-VF-2 Well	36.87500 -114.94556			-12.95	-101.0										155	1	USGS	Well	81	02/05/86
CE-VF-2 Well CE-VF-2 Well	36.87500 -114.94556 36.87500 -114.94556	34.0 2.9 34.0 2.9		-13.10 -13.10	-101.0 -101.0	47.0 47.0	21.0 21.0	81.0 81.0	11.0 11.0	34.0 34.0	303.0 303.0	90.0 90.0	34.0 34.0	1.7 1.7	156	1 2.0	USGS	Well Well	81 81	01/06/88
	30.87300 -114.94330	34.0 2.	5 7.4	-13.10	-101.0	47.0	21.0	01.0	11.0	34.0	303.0	90.0	34.0	1.7		2.0		Wen	01	
Chicken Spring Chicken Spring	39.23885 -115.38886 39.23885 -115.38886	8.3 5. 8.3 5.		-16.17 -16.17	-122.0 -122.0									-	62715 62715	1	DRI-WP-10 DRI-WP-10		330 330	06/07/05 06/07/05
Chimney Rock Spring Chimney Rock Spring Chimney Rock Spring	38.83528 -114.88417 38.83528 -114.88417 38.83528 -114.88417	13.0 1.4 12.8 0.8 12.9 1.4	8 6.73	-14.30 -14.74 -14.52	-109.0 -112.0 -110.5	56.0 39.3 47.7	6.8 5.51 6.2	12.0 14.0 13.0	8.38 8.4	5.4 3.3 4.4	207.0 171 189.0	21.0 10.7 15.9	56.0 61.1 58.6	0.2 0.17 0.2	425 65052 425	1 1 2	GS205 ER-26 GS205	Spring Spring Spring	219 443 219	08/01/85 07/13/06 08/01/85
							0.2	10.0	0.4		10010	10.0	00.0	0.2		-		1 5		
Circle Wash Spring Circle Wash Spring	39.12170 -115.36929 39.12170 -115.36929	7.6 7. 7.6 7.	1 6.2	-15.30 -15.30	-114.5 -114.5									-	62710 62710	1	DRI-WP-5 DRI-WP-5	Spring Spring	331 331	06/06/05 06/06/05
Clover Creek Valley Well 232 Clover Creek Valley Well 232	37.50500 -114.27600 37.50500 -114.27600	21.5 21.5	7.8 7.8	-11.70 -11.70	-84.0 -84.0	60.0 60.0	6.0 6.0	8.0 8.0	3.0 3.0	26.0 26.0	180.0 180.0	13.0 13.0		0.4 0.4	232 232	1	E29 E29	Well Well	114 114	07/18/75 07/18/75
Clover Creek Valley Well 246 Clover Creek Valley Well 246	37.58470-114.2598037.58470-114.25980	26.0 26.0	7.8 7.8	-12.40 -12.40	-89.0 -89.0	41.0 41.0	6.0 6.0	10.0 10.0	5.0 5.0	17.0 17.0	166.0 166.0	4.0 4.0			246 246		E28 E28	Well Well	120 120	07/18/75 07/18/75
Cold Spring Cold Spring	37.71370 -115.41016 37.71370 -115.41016			-12.98 -12.98	-98.9 -98.9	49.7 49.7	12.1 12.1	22.8 22.8	1.5 1.5	19.4 19.4	208.0 208.0	22.6 22.6	50.7 50.7	-	60841 60841	1 1		Spring Spring	288 288	06/25/04 06/25/04
Cold Spring, Preston	38.91800 -115.06680 38.91800 -115.06680	22.0 3.0 21.5 3.0		-15.80 -15.80	-121.0 -126.0	39.0 43.0	19.0 20.0	12.0 13.0	3.1 2.9	13.0 14.0	190.0	39.0 37.0	20.0 20.0	0.3 0.4	446 447		GS221	Spring	230 230	07/16/81 06/16/83
Cold Spring, Preston Cold Spring, Preston	38.91800 -115.06680 38.91800 -115.06680	21.5 3.0 21.8 3.0		-15.80 -15.80	-126.0 -123.5	43.0 41.0	20.0 19.5	13.0 12.5	2.9 3.0	14.0 13.5	190.0 190.0	37.0 38.0	20.0 20.0	0.4 0.4	44/		GS222	Spring Spring	230 230	00/10/83
Connor Spring Connor Spring	37.90165 -114.56023 37.90165 -114.56023	8.4 7. 8.4 7.	7 7.7	-13.84 -13.84	-100.6 -100.6	72.3 72.3	25.8 25.8	1.5 1.5	0.6 0.6	2.0 2.0	348.0 348.0	3.8 3.8	8.7 8.7	-	60838 60838	1 1		Spring Spring	283 283	06/24/04 06/24/04
Corn Creek Spring South	36.43890 -115.35775 36.43890 -115.35775	21.4 4.0		-12.88	-95.0 -95.0	51.0 47.4	48.2 33.7	9.8 6.4	3.0	9.1 6.9	401.0 288.0	25.1 18.5	28.7 19.5		58503	1		Spring	307 307	01/17/04
Corn Creek Spring South Corn Creek Spring South	36.43890 -115.35775 36.43890 -115.35775	21.1 3.3 21.1 3.3		-12.89 -12.89	-95.0 -95.0	47.4 47.4	33.7 33.7	6.4 6.4	2.1 2.1	6.9 6.9	288.0 288.0	18.5 18.5	19.5 19.5	#DIV/0!	60852	1 2		Spring Spring	307 307	06/30/04
											- 20.0					-				
Corral Spring (Unnamed Spring) Corral Spring (Unnamed Spring)	36.37056 -114.46000 36.37056 -114.46000	17.0 6.3 17.0 6 .3		-12.10 -12.10	-91.5 -91.5										28 28		PL13 PL13	Spring Spring	19 19	02/07/96 02/07/96
Cottonwood Spring (Fairview) Cottonwood Spring (Fairview)	38.31204 -114.63476 38.31204 -114.63476	13.1 4.0 13.1 4 .0		-13.40 -13.40	-102.2 -102.2	33.8 33.8	4.9 4.9	17.8 17.8	0.8 0.8	6.1 6.1	161.0 161.0	4.7 4.7	38.0 38.0	-	60848 60848	1 1		Spring Spring	274 274	06/29/04 06/29/04
Cottonwood Spring (Black Mtns.) Cottonwood Spring (Black Mtns.)	36.20333 -114.64361 36.20333 -114.64361	12.6 6.4 12.6 6 .4		-10.80 -10.80	-80.0 -80.0	524.0 524.0	220.0 220.0	209.0 209.0	10.7 10.7	63.6 63.6	205.0 205.0	2410.0 2410.0	17.4 17.4		13 13		PL17 PL17	Spring Spring	8 8	02/06/96 02/06/96
Cottonwood Spring (Delamar) Cottonwood Spring (Delamar)	37.53418 -114.74636 37.53418 -114.74636	15.5 2.3 15.5 2 .3		-12.87 -12.87	-96.9 -96.9	80.0 80.0	9.3 9.3	29.5 29.5	0.7 0.7	17.3 17.3	311.0 311.0	18.7 18.7	48.7 48.7	-	59698 59698	1 1		Spring Spring	265 265	03/26/04 03/26/04

Cow Camp Spring Cow Camp Spring Cow Camp Spring Cow Camp Spring Cow Camp Spring	36.58361 36.58361 36.58361	-115.30722 -115.30722 -115.30722 -115.30722 -115.30722	14.5 10.0 16.8 10.1 12.9	5.9 5.1 8.4 6.5	7.6 7.6 7.3 7.0 7.4	-12.60 -12.60 -12.46 -12.47 -12.53	-90.5 -93.0 -92.0 -91.9 -91.9	48.0 50.0 48.9 52.0 49.7	31.0 35.0 35.6 38.0 34.9	21.0 25.0 26.9 38.9 28.0	0.7 0.6 0.6 0.3 0.5	28.0 29.0 23.5 39.9 30.1	290.0 312.0 298.0 300.0	23.0 29.0 24.6 48.6 31.3	16.0 15.0 17.6 15.1 15.9	0.2 0.2 0.2	75 77 61105 62399	1	GS19 GS21 DRI-SR-4	Spring Spring Spring Spring Spring	47 47 47 47 47 47	10/28/81 05/10/83 07/27/04 04/28/05
Coyote Spring Coyote Spring Coyote Spring		-114.86219 -114.86219 -114.86219	13.3 13.3	4.7 4.7	6.8 6.8	-12.26 -12.80 -12.53	-95.2 -95.0 -95.1	75.1 75.1	11.4 11.4	55.5 55.5	10.7 10.7	31.7 31.7	246.0 246.0	105.0 105.0	82.7 82.7	 #DIV/0!	62409 330		DRI-DL-1 Kirk1017	Spring Spring Spring	169 169 169	05/01/05
Crystal Springs Crystal Springs	37.53144 37.53144 37.53144 37.53144 37.531618 37.531618 37.53144 37.53144 37.53144 37.53144 37.53144 37.53144 37.53144 37.531810	-115.23364 -115.23364 -115.23364 -115.23364 -115.23364 -115.23364 -115.23364 -115.23364 -115.23364 -115.23364 -115.23364 -115.23364 -115.23364 -115.23384 -115.23384	27.5 26.5 28.0 27.3 27.3 27.2 27.1 27.0 27.1 27.1 27.1 27.1	1.8 5.1 1.3 1.3 1.3 1.3 1.28 1.43 1.26	7.3 7.4 7.7 7.3 7.6 7.5 7.3 6.9 7.38 7.43 7.44	-14.30 -14.38 -14.39 -14.32 -14.36 -14.41 -14.35 -14.44 -14.46 -14.42 -14.47 -14.53	-109.0 -110.0 -109.0 -109.0 -108.4 -106.9 -108.0 -109.2 -109.0 -109.4 -107.3 -109.3 -110.1 -108.5 -108.8	43.0 44.0 44.2 43.1 45.3 45.6 45.7 45.7 45.1 46.3	21.0 22.0 22.6 22.2 22.4 22.0 22.2 22.2 22.1 22.5	22.0 24.0 23.8 23.6 24.2 24.1 23.8 23.8 23.6 24.2	5.0 5.4 4.8 5.3 5.2 5.10 5.13 5.35	8.9 8.6 9.6 8.7 9.1 8.8 9.3 9.3 9.5	248.0 255.0 240.0 247.0 248 248 245 247	34.0 32.0 34.7 32.3 33.6 33.2 33.1 33.9 33.8	25.0 24.0 24.7 26.4 26.6 25.2 25 24.7 24.7	0.3 0.3 0.4 0.33 0.33 0.35	235 238 239 USGS 61106 61618 61971 62622 63229 63274 65655 64168		Win Win GS87 GS90 IT120 DRI-PV-2 DRI-PV-2 PV-2 PV-2	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	116 116 116 116 116 116 116 116 116 116	08/01/68 01/01/69 03/01/70 07/20/81 08/07/95 6/3/2003 07/30/04 10/20/04 01/24/05 05/18/05 08/14/05 98/14/05 10/28/06 02/17/06
Crystal Springs Crystal Springs Crystal Springs Crystal Springs	37.531810 37.531810	-115.233830 -115.233830 -115.233830 -115.23364	27.1 27.2 27.10 27.2	1.20 1.16 1.32 1.7	7.44 7.51 7.42 7.4	-14.53 -14.47 -14.49 -14.41	-108.8 -109.5 -108.8 -108.8	46.3 45.5 45.9 44.9	22.5 21.9 22.6 22.1	24.2 24.0 21.2 23.5	5.35 5.72 4.36 5.1	9.5 9.5 9.07 9.1	247 247 239 247.1	35.8 35.1 34.8 33.7	25.4 25.0 25.2	0.35 0.35 0.33 0.3	64746 65290		PV-2 PV-2 PV-2	Spring Spring Spring Spring	116 116 116 116	02/17/08 05/22/06 08/23/06
CSV-2 Well CSV-2 Well CSV-2 Well	36.78056 36.78056 36.78056	-114.72222 -114.72222 - 114.72222	27.0 27.0	4.0 4.0	7.4 7.4	-12.85 -12.99 -12.92	-98.0 -97.7 -97.9	60.0 60.0	27.0 27.0	100.0 100.0	10.0 10.0	61.0 61.0	276.0 276.0	160.0 160.0	30.0 30.0	2.3 2.3	135 USGS 135		GS51 GS51	Well Well Well	76 76	01/26/86 7/8/2003 01/26/86
CSV-3 Well CSV-3 Well		-114.92500 -114.92500	41.0 41.0		7.4 7.4	-10.35 -10.35	-75.0 -75.0	51.0 51.0	25.0 25.0	38.0 38.0	10.0 10.0	26.0 26.0	239.0 239.0	54.0 54.0	24.0 24.0	1.2 1.2	104 104		GS38 GS38	Well Well	60 60	10/07/87 10/07/87
Davies Spring Davies Spring		-114.50194 - 114.50194	14.3 14.3			-12.50 -12.50	-89.0 -89.0										177 177		GS64 GS64	Spring Spring	90 90	02/06/84 02/06/84
Deadman Spring (Highland) Deadman Spring (Highland) Deadman Spring (Highland)	37.91861	-114.54139 -114.54139 -114.54139	9.5 27.9 18.7	4.9 4.9	7.1 9.7 8.4	-13.30 -10.83 -12.07	-99.0 -90.9 -95.0	98.0 12.2 55.1	41.0 40.1 40.6	5.0 4.1 4.6	0.9 0.4 0.7	4.2 2.5 3.4	506.0 143.0 324.5	8.3 5.4 6.9	19.0 2.1 10.6	0.1 0.1	319 60837	1 2	GS119	Spring Spring Spring	162 162 162	04/07/85 06/24/04
Decathon Spring Decathon Spring		-114.27884 -114.27884	7.6 7.6	7.1 7.1	6.9 6.9	-14.60 -14.60	-107.0 -107.0	111.0 111.0	7.6 7.6	2.9 2.9	0.5 0.5	3.4 3.4	11.4 11.4	325.0 325.0	11.3 11.3	0.11 0.11	62914 62914		SN-5 SN-5	Spring Spring	381 381	07/14/05 07/14/05
Deer Spring (White Pine) Deer Spring (White Pine) Deer Spring (White Pine)		-115.39136 -115.39136 -115.39136	9.4 9.4	 6.3 6.3	 6.9 6.9	-15.87 -15.87 -15.87	-118.9 -119.6 -119.3	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	JThomas-032304-4 62822	1	WP-4 WP-4	Spring Spring Spring	322 322 322	10/12/03 06/28/05
Deer Spring (Butte) Deer Spring (Butte)	39.48683 39.48683	-115.27559 -115.27559	12.3 12.30	6.4 6.35	6.3 6.30	-14.74 -14.74	-114.1 -114.1									2	62704 62704.00		DRI-BT-6 DRI-BT-6	Spring Spring	332 332.00	06/04/05
Delmues Spring (Unnamed Spring) Delmues Spring (Unnamed Spring)		-114.32222 -114.32222	18.0 18.0		7.7 7.7	-13.40 - 13.40	-104.0 -104.0	47.0 47.0	6.7 6.7	30.0 30.0	6.3 6.3	24.0 24.0	180.0 180.0	18.0 18.0	64.0 64.0	0.6 0.6	302 302		GS111 GS111	Spring Spring	149 149	04/08/85
Desert Valley (Dry Lake) Well #1 Desert Valley (Dry Lake) Well #1		-115.19750 -115.19750	19.0 19.0	2.8 2.8	8.0 8.0	-13.10 -13.10	-98.0 -98.0	22.0 22.0	27.0 27.0	35.0 35.0	5.7 5.7	8.9 8.9	413.0 413.0	48.0 48.0	49.0 49.0	0.6 0.6	171 171		GS61 GS61	Well Well	87 87	03/18/87
Dipping Tank Spring Dipping Tank Spring	39.775222 39.775222	-114.475117 -114.475117	12 12	7.77 7.77	6.83 6.83	-15.74 -15.74	-119.8 -119.8	47.5 47.5	8.37 8.37	16.2 16.2	2.01 2.01	18 18	167 167	14.6 14.6	30.7 30.7	0.10 0.10	63280 63280	1 1		Spring Spring	398 398	25-Aug-05 25-Aug-05
DLLLC Hidden Valley DLLLC Hidden Valley	36.49340 36.49340	-114.92657 -114.92657				-12.90 -12.90	-97.0 -97.0										999 999		HV-1 HV-1	Well Well	37 37	06/05/00
Dodge Well Dodge Well	38.24444 38.24444	-114.54250 -114.54250	17.0 17.0			-14.20 -14.20	-107.0 -107.0										350 350		GS137 GS137	Well Well	185 185	06/07/85
Dry Lake Valley Well Dry Lake Valley Well		-114.84389 - 114.84389	29.0 29.0	2.0 2.0	7.3 7.3	-13.30 -13.30	-97.5 -97.5	110.0 110.0	48.0 48.0	120.0 120.0	13.0 13.0	170.0 170.0	210.0 210.0	360.0 360.0	21.0 21.0	2.1 2.1	64 64	1	GS17 GS17	Well Well	34 34	07/01/85 07/01/85
East Settling Spring East Settling Spring		-114.23282 -114.23282	-		-	-12.76 -12.76	-92.2 -92.2	-	-	-	-	-	-	-		-	61100B 61100B	1 1		Spring Spring	248 248	07/31/04 07/31/04
Easter Spring Easter Spring	39.04120 39.04120	-115.34883 -115.34883	11.1 11.1	6.7 6.7	7.3 7.3	-15.56 -15.56	-119.4 -119.4										62823 62823		WP-23 WP-23	Spring Spring	365 365	06/29/05 06/29/05
EH-3 Weiser Wash EH-3 Weiser Wash	36.69222 36.69222	-114.52556 -114.52556	24.1 24.1		7.8 7.8	-12.70 -12.70	-91.0 -91.0	511.0 511.0	201.0 201.0	170.0 170.0	22.0 22.0	194.0 194.0	123.0 123.0	2100.0 2100.0	15.0 15.0			GS999 GS999	4 4	Well Well	61 61	averages averages
EH-4 Weiser Wash EH-4 Weiser Wash	36.70639 36.70639	-114.71611 - 114.71611	22.8 22.8	0.0 0.0	8.3 8.3	-13.00 -13.00	-98.0 -98.0	49.0 49.0	30.0 30.0	90.0 90.0	12.0 12.0	57.0 57.0	245.0 245.0	171.0 171.0	28.0 28.0	0.0 0.0	AVG AVG	1 1		Well Well	63 63	averages averages

EH-7 EH-7	36.67056 -114.53 36.67056 -114.53			7.3 7.3	-12.45 -12.45	-91.0 -91.0	470.0 470.0	190.0 190.0	170.0 170.0	20.0 20.0	65.0 65.0		2000.0 2000.0	15.0 15.0	0.9 0.9	99 99		GS35 GS35	Well Well	56 56	03/19/87 03/19/87
EH-8 Weiser Wash EH-8 Weiser Wash	36.67389 -114.57 36.67389 -114.57		0.0 0.0	7.6 7.6	-13.70 -13.70	-96.5 -96.5	375.0 375.0	104.0 104.0	416.0 416.0	22.0 22.0	233.0 233.0	162.0 162.0	1780.0 1780.0	26.0 26.0	0.0 0.0	AVG AVG	1 1		Well Well	57 57	averages averages
Eightmile Spring Eightmile Spring Eightmile Spring	37.46466 -115.06 37.46466 -115.06 37.46466 -115.06	6440 14.4	6.7 6.7 6.7	7.2 7.4 7.3	-13.12 -13.06 -13.09	-96.7 -94.4 -95.6	45.0 52.2 48.6	9.2 9.9 9.5	13.2 17.8 15.5	1.5 1.1 1.3	10.6 16.2 13.4	189.0 195.0 192.0	8.9 14.8 11.9	43.2 37.6 40.4	 #DIV/0!	61103 61106C	1	DRI-PR-11	Spring Spring Spring	295 295 295	07/30/04 04/30/05
Eight Mile Spring (Snake Range) Eight Mile Spring (Resample) Eight Mile Spring (Snake Range)	39.388297 -114.28 39.388280 -114.28 39.388297 -114.28	34365 11	7.65 7.1 7.375	7.02 7.31 7.165	-15.53 -15.38 -15.46	-116.3 -114.8 -115.6	77.8 79.7 78.75	18.3 18.5 18.4	5.74 5.28 5.51	0.86 0.76 0.81	4.7 4.9 4.78	307 306 306.5	9.5 9.6 9.545	12.6 12.4 12.5	<.05 0.05 0.05	63284 65421 63284	1 1 2	SN-32 SN-32 SN-32	Spring Spring Spring	402 496 402	26-Aug-05 09/17/06
Ella Spring Ella Spring	37.49072 -114.44 37.49072 -114.44		3.6 3.6	7.7 7.7	-12.56 -12.56	-95.8 -95.8	44.2 44.2	8.6 8.6	11.1 11.1	1.8 1.8	7.0 7.0	170.0 170.0	8.8 8.8	27.1 27.1	-	59702 59702	1 1		Spring Spring	251 251	03/27/04 03/27/04
Emigrant Spring Emigrant Spring Emigrant Spring	38.62500 -115.04 38.62500 -115.04 38.62500 -115.04	4778 20.1	5.2 5.2	7.1 7.1	-14.50 -14.50	-108.0 -107.5 -107.8	67.0 67.0	24.0 24.0	5.3 5.3	1.6 1.6	2.9 2.9	300.0 300.0	14.0 14.0	13.0 13.0	0.2 0.2	410 411		GS188 GS189	Spring Spring Spring	207 207 207	07/18/81 01/17/84
Fence Spring Fence Spring	38.17978 -114.71 38.17978 -114.71		-		-12.55 -12.55	-97.4 -97.4	-	-				-			-		1 1		Spring Spring	278 278	06/29/04 06/29/04
Flag Spring #3 Flag Spring #3	38.42139 -115.02 38.42139 -115.02			7.5 7.5	-14.30 -14.30	-105.0 -105.0	50.0 50.0	21.0 21.0	10.0 10.0	3.4 3.4	6.6 6.6	270.0 270.0	12.0 12.0	26.0 26.0	0.2 0.2	380 380		GS161 GS161	Spring Spring	201 201	01/17/84 01/17/84
Flatnose Spring (Unnamed Spring) Flatnose Spring (Unnamed Spring)	37.89611 -114.22 37.89611 -114.22			8.0 8.0	-13.40 -13.40	-101.0 -101.0	26.0 26.0	3.5 3.5	34.0 34.0	5.6 5.6	10.0 10.0	146.0 146.0	18.0 18.0	55.0 55.0	1.3 1.3	306 306		GS113 GS113	Spring Spring	153 153	04/08/85 04/08/85
Forest Home Spring (Unnamed Spring) Forest Home Spring (Unnamed Spring)	38.37750 -115.37 38.37750 -115.37		5.3 5.3	7.6 7.6	-14.50 -14.50	-108.5 -108.5	62.0 62.0	26.0 26.0	9.9 9.9		6.9 6.9	309.0 309.0	19.0 19.0	14.0 14.0	<.1 <.1	368 368		GS152 GS152	Spring Spring	195 195	07/24/85 07/24/85
Four Mile Spring Four Mile Spring	39.307241 -114.29 39.307241 -114.29		6.5 6.5	7.23 7.23	-14.75 -14.75	-112.5 -112.5	85.5 85.5	33.7 33.7	8.88 8.88	1.18 1.18	7.5 7.5	375 375	40.2 40.2	15.8 15.8	0.10 0.10	65413 65413		SN-25 SN-25	Spring Spring	488 488	09/16/06 09/16/06
Fox Cabin Fox Cabin	38.16267 -114.65 38.16267 -114.65		-		-13.59 -13.59	-103.5 -103.5	-					-			-		1 1		Spring Spring	273 273	06/29/04 06/29/04
Fugro CV Deep Well CE-DT-5 Fugro CV Deep Well CE-DT-5 Fugro CV Deep Well CE-DT-5	36.79556 -114.89 36.79556 -114.89 36.79556 -114.89	9222 9222	2.3	7.2	-12.90 -12.99 -12.99	-99.5 -99.6 -99.6	46.0	20.0	78.0	11.0	34.0	300.0	100.0	33.0	1.9	139 USGS USGS		GS53	Well Well Deep Well	77	07/22/81 5/28/2003 2/16/2005
Fugro CV Deep Well CE-DT-5 Fugro Dry Lake V Deep Well	36.79556 -114.89 38.14583 -114.89	9333 27.5	2.3 3.2	7.2 7.1	-12.96	-99.6	46.0 73.0	20.0 29.0	78.0 20.0	11.0 6.9	34.0 6.2	300.0	100.0 27.0	33.0 25.0	1.9 0.5	139 343		GS53 GS133	Well Well	77 179	07/22/81 12/10/80
Fugro Dry Lake V Deep Well Fugro Dry Lake V Deep Well	38.14583 -114.89 38.14583 -114.89	9333 27.5	3.2	7.1	-14.11 -14.16	-107.0 -107.5	73.0	29.0	20.0	6.9	6.2		27.0	25.0	0.5	USGS 343		GS133	Well	179	6/19/2003 12/10/80
Fugro Steptoe V Deep Well Fugro Steptoe V Deep Well	38.92000 -114.84 38.92000 -114.84	4528 11.0 4528 11.0	5.5 5.5	7.5 7.5	-14.90 -14.90	-117.0 -117.0	66.0 66.0	14.0 14.0	15.0 15.0	4.4 4.4	12.0 12.0		57.0 57.0	28.0 28.0	0.4 0.4	443 443		GS218 GS218	Well Well	228 228	01/19/81 01/19/81
Garden Spring Garden Spring	37.26425 -114.28 37.26425 -114.28		6.5 6.5	7.1 7.1	-11.54 -11.54	-87.0 -87.0	-					-			-	58500 58500	1 1		Spring Spring	246 246	01/15/04 01/15/04
Geyser Spring Geyser Spring	38.68000 -114.66 38.68000 -114.66			7.8 7.8	-14.50 -14.50	-105.0 -105.0										419 419		E1 E1	Spring Spring	213 213	04/03/85 04/03/85
Gourd Spring Gourd Spring	36.95861 -114.29 36.95861 -114.29				-10.60 -10.60	-77.5 - 77.5										175 175		GS63 GS63	Spring Spring	89 89	02/06/84 02/06/84
GP Apex Well GP Apex Well GP Apex Well GP Apex Well	36.34111 -114.92 36.34111 -114.92 36.34111 -114.92 36.34111 -114.92 36.34111 -114.92	2667 31.0 2667	5.5 5.5	7.0 7.0	-13.35 -13.45 -13.80 -13.53	-97.5 -98.0 -96.0 -97.2	120.0 120.0	47.0 47.0	130.0 130.0	13.0 13.0	200.0 200.0	226.0 226.0	380.0 380.0	23.0 23.0	1.4 1.4	999 24 25		Jim PLC23 GS8	Well Well Well Well	17 17 17 17	09/29/86 09/30/86 09/30/86
Gandy Warm Spring (Warm Spring Near Gandy) Gandy Warm Spring (Warm Spring Near Gandy)	39.46000 -114.03 39.46000 -114.03		492.0 6.3	7.2 7.7	-15.83 -15.88	-119.6 -120.0	49.8 50.7	16.8 17.1	29.3 29.1	3.9 3.9	23.9 23.6	245.0 236.0	22.1 22.6	23.1 22.8	-	61482 61963	2		Spring Spring	333 333	09/24/04 01/22/05
Gandy Warm Spring (Warm Spring Near Gandy) Gandy Warm Spring (Warm Spring Near Gandy)	39.46000 -114.03 39.46000 -114.03 39.46000 -114.03 39.46000 -114.03 39.46000 -114.03 39.46000 -114.03 39.46000 -114.03 39.46000 -114.03 39.46000 -114.03 39.46000 -114.03 39.46000 -114.03 39.46000 -114.03	3707 3707 26.6 3707 26.8 3707 27.3 3707 26.70 3707 26.9	4.9 5.5 5.75 5.75 5.74 75.1	7.52 7.58 7.55 7.59 7.56 7.5	-15.83 -15.93 -15.90 -15.96 -16.00 -15.88 -15.91 -15.90	-119.4 -119.8 -122.8 -119.5 -121.2 -120.4 -120.3 -120.3	49.9 47.3 50.8 50.4 51.2 51.1 50.2	16.4 17.0 16.2 16.6 17.0 17.1 16.8	28.4 28.5 28.2 28.8 24.1 28.6 28.1	3.9 3.91 3.89 4.92 3.01 3.85 3.9	23.6 22.8 23.7 24.2 24.4 24.1 23.8	22.2 235 236 236 247 233 211.3	240.0 22.5 22.8 23.5 22.8 22.7 49.9	22.3 22.7 22.5 23.0 21.8 22.4 22.6	0.23 0.6 0.65 0.63 0.62 0.58 0.6	62623 63224 63568 64237 64740 65292 65658		SU-1 SU-1 SU-1 SU-1 SU-1	Spring Spring Spring Spring Spring Spring Spring	333 333 333 333 333 333 333 333 333	05/23/05 08/12/05 8-Nov-05 02/25/06 05/21/06 08/25/06 10/29/06
Granite Spring Granite Spring	38.562713 -114.91 38.562713 -114.91		5.84 5.84	6.83 6.83	-13.32 -13.32	-103.4 -103.4	44.6 44.6	10.9 10.9	16.6 16.6	2.92 2.92	12.6 12.6	186 186	17.2 17.2	57.3 57.3	0.17 0.17	65049 65049		ER-23 ER-23	Spring Spring	440 440	07/13/06 07/13/06
Grapevine Spring (KSV-2) Grapevine Spring (KSV-2) Grapevine Spring (KSV-2) Grapevine Spring (KSV-2) Grapevine Spring (KSV-2) Grapevine Spring WR7 Grapevine Spring WR7	37.12988 -114.70 37.12988 -114.70 37.12988 -114.70 37.12988 -114.70 37.12988 -114.70 37.12988 -114.70 37.12988 -114.70 37.12988 -114.70 37.12988 -114.70 37.12988 -114.70	0972 18.5 0972 18.2 0972 0972 0972 18.3 0972 12.1	2.4 5.7 4.86 1.33	7.3 7.6 7.71 7.5 7.3	-11.60 -12.00 -11.90 -11.95 -11.89 -12.00 -11.92	-88.0 -87.5 -88.6 -85.2 -87.7 -87.3 -87.3	75.0 77.2 77.5 79.2 76.3 76.7	22.0 17.3 17.9 17.6 18.0 17.7	17.0 20.2 18.7 18.1 18.0 16.8	2.3 2.9 2.38 2.62 1.95 2.55	27.0 31.4 32.7 30.1 32.1 28.0	280.0 236.0 245.0 244 228 248	40.0 44.5 46.7 42.8 44.8 40.0	22.0 28.3 27.3 26.8 24.2 26.7	0.9 0.27 0.68 0.66 0.71	183 185 62396 63223 63573 64171 64745		Kirk1028 GS69 DRI-MM-1 DRI-MM-1 MM-1 MM-1	Spring Spring Spring Spring Spring Spring Spring	93 93 93 93 93 93 93 93	 02/03/84 04/27/05 08/16/05 9-Nov-05 02/16/06 05/22/06

Grapevine Spring WR7 Grapevine Spring WR7	37.12988 37.12988	-114.70972 -114.70972	20.70 17.3	2.56 2.92	7.14 7.28	-12.00 -11.93	-87.4 -87.2	73.4 74.0	18.5 18.5	16.7 18.1	1.96 2.05	31.0 29.6	233 228	45.6 44.7	24.8 24.1	0.67 0.66	65288 65665		MM-1 MM-1	Spring Spring	93 93	08/23/06 10/30/06
Grapevine Spring WR7	37.12988	-114.70972	-	-	-	-12.03	-87.5	-	-		-	-	-	-	-		-	-	MM-1	Spring	-	5/9/2007
Grapevine Spring (KSV-2)	37.12988	-114.70972	17.7	3.3	7.4	-11.92	-87.4	76.2	18.4	18.0	2.3	30.2	242.8	43.6	25.5	0.7				Spring	93	
Grass Valley Springs	39.713209		9.2	6	6.35	-16.72	-124.7	18.0	3.26	12.3	0.94	5.9	81.0	5.1	26.6	0.09	63274			Spring	392	23-Aug-05
Grass Valley Springs	39.713209	-114.233004	9.2	6	6.35	-16.72	-124.7	18.0	3.26	12.3	0.94	5.9	81.0	5.1	26.6	0.09	63274			Spring	392	23-Aug-05
Grassy Spring	37.54107	-114.79174	13.0	6.5	7.4	-10.90	-85.0	85.2	15.3	30.8	0.7	36.9	269.0	58.0	33.0		241		K7	Spring	117	01/14/85
Grassy Spring	37.54107 37.54107	-114.79174 -114.79174	14.2 13.6	5.3 5.7	7.5	-11.23 -11.10	-90.9 -90.1	111.0 116.0	19.2 20.7	51.0 39.9	0.6	57.0 70.7	339.0 330.0	54.0 69.0	36.4 36.8		59700	1	DRI-DR-20	Spring	117 117	03/26/04
Grassy Spring Grassy Spring	37.54107 37.54107	-114.79174 -114.79174	13.6 13.6	5.7 5.8	7.0 7.3	-11.10 -11.08	-90.1 -88.7	116.0 104.1	20.7 18.4	39.9 40.6	0.9 0.7	70.7 54.9	330.0 312.7	69.0 60.3	36.8 35.4	-	62402		DRI-DR-20	Spring Spring	117	04/27/05
Gubler Canyon Creek Spring (Unnamed Spring in Gubler Canyon) Gubler Canyon Creek Spring (Unnamed Spring in Gubler Canyor	39.13389 n) 39.13389	-114.96139 -114.96139	12.5 12.5			-14.90 -14.90	-111.0 -111.0					2.4 2.4					457 457		GS243 GS243	Spring Spring	235 235	06/16/83 06/16/83
Hackberry Spring Hackberry Spring	36.91778 36.91778	-114.43778 -114.43778	10.0 10.0			-12.30	-87.0										162 162		GS58 GS58	Spring Spring	84 84	02/05/84 02/05/84
Haggerty Spring Haggerty Spring	38.66930 38.66930	-114.90482 -114.90482	11.9 11.9	5.98 5.98	6.85 6.85	-14.78 -14.78	-109.6 -109.6	69.7 69.7	13.0 13.0	3.94 3.94	0.76 0.76	2.8 2.8	259 259	7.0 7.0	10.6 10.6		62979 62979		ER-9 ER-9	Spring Spring	387 387	07/31/05 07/31/05
naggerty spring				5.50	0.05	-14.76	-105.0	03.7	13.0	3.54	0.70	2.0	239	7.0	10.0		02575			Spring	307	
Halfway Spring (RS)	38.964420	-115.311490 -115.311490	12.9 16.5	2.6 0.85	7.8	-13.35 -13.68	-108.4 -109.0	Iso Only	- 21.2	- 37.6	- 1.9	- 14.7	- 448	- 21.1	- 56.6	-			WP-14 WP-14	Spring	429 429	07/11/06
Halfway Spring Halfway Spring (RS)	38.964420 38.964420	110.011100	14.7	1.725	7.365	-13.66	-109.0 -108.7	100	-	- 37.0	-	-	-	-	- 0.0	-			WP-14 WP-14	Spring Spring	429	06/29/05
	27 00570	-114.88764	14.4	6.0	7.0	14.70	-93.1	66.0	10.9	29.4	7.0	22.0	260.0	25.5	69.4		59686	1			298	03/23/04
Hamilton Spring Hamilton Spring	37.93572 37.93572	-114.88764 -114.88764	14.4 14.4	6.8 6.8	7.2 7.2	-11.76 -11.76	-93.1 -93.1	66.9 66.9	10.8 10.8	29.4 29.4	7.2 7.2	22.9 22.9	260.0 260.0	25.5 25.5	69.4 69.4	_	59686 59686	1		Spring Spring	298 298	03/23/04 03/23/04
Headwaters Spring WR5	38.36575	-114.31935	9.6	6.5	7.0	-14.65	-106.9	10.4	2.4	4.5	1.3	4.5	37.1	4.7	19.1		60311			Spring	309	05/19/04
Headwaters Spring WR5 Headwaters Spring WR5	38.36575 38.36575	-114.31935 -114.31935	a.p	0.5 		-14.65 -14.67	-106.9 -108.7		2.4	4.5	1.3	4.5	ər.1 	4./	19.1	-	60311 60311B	4		Spring	309	05/19/04 07/18/04
Headwaters Spring WR5	38.36575	-114.31935	8.2	7.1	6.9	-14.67	-108.8	11.2	2.5	4.8	1.2	4.2	37.2	4.4	20.4		61481			Spring	309	09/23/04
Headwaters Spring WR5 Headwaters Spring WR5	38.36575 38.36575	-114.31935 -114.31935				-15.01 -14.99	-110.4 -109.6	11.8	2.5	4.9	1.2	4.7	3.4	44.3	21.1	0.20	62970 63221		WC-1	Spring	309 309	07/27/05 08/13/05
Headwaters Spring WR5	38.36575	-114.31935	9.5	5.97	6.36	-14.99	-109.6	13.8	2.5	4.9 5.43	1.2	6.2	3.4 46.9	44.5	21.1	0.20	63565	1	WC-1	Spring Spring	309	7-Nov-05
Headwaters Spring WR5	38.365750		9.3	6.25	6.54	-14.52	-106.3	11.4	2.57	5.21	1.27	3.7	45.0	3.7	22.0	0.08	64737		WC-1	Spring	309	05/23/06
Headwaters Spring WR5	38.365750 38.365750		12.1 8.9	6.14 7.09	6.37 6.50	-14.59 -14.47	-107.7 -107.3	10.7 11.5	2.46 2.68	5.04 5.28	1.29 1.30	4.5 4.4	43.2 41.1	4.1 4.0	21.2 21.5	0.06 0.07	65370 65744		WC-1 WC-1	Spring	309 309	08/31/06 11/16/06
Headwaters Spring WR5 WR 5 Autosampler	38.365750		8.9	7.09	6.50	-14.47	-107.3	- 11.5	2.68	5.28	1.30	4.4	41.1	4.0	21.5	0.07	DRI-65370-9		WC-1 WC-1	Spring Spring	309	12/01/05
WR 5 Autosampler	38.365750	-114.319350			-	-14.70	-108.6		-	-	-	-	-	-	-	-	DRI-65370-12		WC-1	Spring	309	01/01/06
WR 5 Autosampler	38.365750				-	-14.52	-107.7	-	-	-	-	-	-	-	-	:	DRI-65370-14		WC-1	Spring	309	02/01/06
WR 5 Autosampler WR 5 Autosampler	38.365750 38.365750				-	-14.34 -14.36	-105.7 -105.5				-						DRI-65370-16 DRI-65370-20		WC-1 WC-1	Spring Spring	309 309	03/01/06 05/01/06
WR5 Autosample 1	38.365750	-114.319350			-	-14.53	-105.7		-	-	-	-	-	-	-	-	65744Auto1		WC-1	Spring	309	09/01/06
WR5 Autosample 5 Headwaters Spring WR5	38.365750		- 8.5	- NA	- 6.24	-14.10 -14.24	-105.4 -105.0	- 10.6	- 2.41	- 4.62	- 1.24	- 3.1	- 41.8	3.5	- 19.4	- 0.08	65744Auto5 65744		WC-1	Spring	309 309	11/01/06 5/7/2007
											1.24	3.1	41.8	3.5	19.4							
Headwaters Spring WR5	38.365750 38.36575	-114.319350 -114.31935	0.5 9.4	6.5	6.6	-14.24	-105.0 -107.3	11.4	2.6	5.0	1.3	4.4	37.0	9.1	20.8	0.1	65744	17	WC-1 WC-1	Spring Spring	309 309	3/1/2007
Headwaters Spring WR5	38.36575	-114.31935	9.4		6.6	-14.57	-107.3	11.4	2.6							0.1		17	WC-1	Spring	309	
	38.36575 37.46028									5.0 20.7 20.7	1.3 2.4 2.4	4.4 8.2 8.2	37.0 198.0 198.0	9.1 19.9 19.9	20.8 39.0 39.0	0.1	211 211	17				01/14/85 01/14/85
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch	38.36575 37.46028 37.46028	-114.31935 -115.12472 -115.12472	9.4 13.0 13.0		6.6 8.3	-14.57 -12.30 -12.30	-107.3 -93.0 -93.0	11.4 45.2	2.6 9.0	20.7	2.4	8.2 8.2	198.0	19.9	39.0	0.1	211	17	WC-1 K9	Spring Spring Spring	309 109 109	01/14/85 01/14/85
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch)	38.36575 37.46028	-114.31935 -115.12472	9.4 13.0		6.6 8.3	-14.57 -12.30	-107.3	11.4 45.2	2.6 9.0	20.7	2.4	8.2	198.0	19.9	39.0	0.1 	211	17 1 1	WC-1 K9	Spring Spring	309 109	01/14/85
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch Henry Spring Henry Spring	38.36575 37.46028 37.46028 37.68990 37.68990	-114.31935 -115.12472 - 115.12472 -115.37391 -115.37391	9.4 13.0 13.0 -	6.5 	6.6 8.3 8.3 	-14.57 -12.30 -12.30 -12.77 -12.77	-107.3 -93.0 -93.0 -97.4 -97.4	11.4 45.2 45.2 	2.6 9.0 9.0 	20.7 20.7 	2.4 2.4 	8.2 8.2 	198.0 198.0 	19.9 19.9 	39.0 39.0 	-	211 211 	1	WC-1 K9 K9	Spring Spring Spring Spring Spring	309 109 109 287 287	01/14/85 01/14/85 06/25/04 06/25/04
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch Henry Spring Henry Spring	38.36575 37.46028 37.46028 37.68990 37.68990 39.130125	-114.31935 -115.12472 -115.12472 -115.37391	9.4 13.0 13.0	6.5	6.6 8.3 8.3	-14.57 -12.30 -12.30 -12.77	-107.3 -93.0 -93.0 -97.4	11.4 45.2 45.2 	2.6 9.0	20.7	2.4	8.2 8.2	198.0	19.9	39.0	0.1	211 211 65042	1	WC-1 K9	Spring Spring Spring Spring	309 109 109 287	01/14/85 01/14/85 06/25/04
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch Henry Spring Henry Spring High Springs High Springs	38.36575 37.46028 37.46028 37.68990 37.68990 39.130125 39.130125	-114.31935 -115.12472 -115.12472 -115.37391 -115.37391 -114.950408 -114.950408	9.4 13.0 13.0 - 7.4 7.4	6.5 6.49	6.6 8.3 8.3 7.5 7.5	-14.57 -12.30 -12.70 -12.77 -12.77 -15.43 -15.43	-107.3 -93.0 -93.0 -97.4 -97.4 -97.4 -113.4 -113.4	11.4 45.2 45.2 66.2 66.2	2.6 9.0 9.0 10.1 10.1	20.7 20.7 3.65 3.65	2.4 2.4 0.91 0.91	8.2 8.2 0.8 0.8	198.0 198.0 232 232 232	19.9 19.9 - 17.9 17.9	39.0 39.0 10.4 10.4	 0.12 0.12	211 211 65042 65042	1	WC-1 K9 K9 ER-16 ER-16	Spring Spring Spring Spring Spring Spring Spring	309 109 109 287 287 433 433	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch Henry Spring Henry Spring High Springs High Springs Highand Spring	38.36575 37.46028 37.46028 37.68990 37.68990 37.68990 39.130125 39.130125 37.92110	-114.31935 -115.12472 -115.12472 -115.37391 -115.37391 -114.950408 -114.950408 -114.54923	9.4 13.0 13.0 7.4 7.4 10.0	 6.49 6.49	6.6 8.3 8.3 7.5 7.5 7.2	-14.57 -12.30 -12.77 -12.77 -12.77 -15.43 -15.43 -13.30	-107.3 -93.0 -93.0 -97.4 -97.4 -113.4 -113.4 -98.5	11.4 45.2 45.2 66.2 66.2 86.0	2.6 9.0 9.0 10.1 10.1 36.0	20.7 20.7 3.65 3.65 4.7	2.4 2.4 0.91 0.91 1.0	8.2 8.2 0.8 0.8 4.4	198.0 198.0 232 232 474.0	19.9 19.9 17.9 17.9 8 .1	39.0 39.0 10.4 10.4 15.0	 0.12	211 211 65042 65042 65042 320	1 1	WC-1 K9 K9 ER-16	Spring Spring Spring Spring Spring Spring Spring Spring	309 109 109 287 287 433 433 433 163	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06 07/12/06
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch Henry Spring Henry Spring High Springs High Springs	38.36575 37.46028 37.46028 37.68990 37.68990 39.130125 39.130125 37.92110 37.92110 37.92110	-114.31935 -115.12472 -115.12472 -115.37391 -115.37391 -114.950408 -114.54923 -114.54923	9.4 13.0 13.0 - 7.4 7.4	6.5 6.49	6.6 8.3 8.3 7.5 7.5 7.5 7.2 7.4 6.8	-14.57 -12.30 -12.70 -12.77 -12.77 -15.43 -15.43	-107.3 -93.0 -93.0 -97.4 -97.4 -113.4 -113.4 -98.5 -99.6 -99.3	11.4 45.2 45.2 66.2 66.2 86.0 77.1 82.9	2.6 9.0 9.0 10.1 10.1 10.1 36.0 35.9 35.1	20.7 20.7 3.65 3.65 3.65 4.7 3.7 4.3	2.4 2.4 0.91 0.91 1.0 0.7 0.6	8.2 8.2 0.8 0.8 4.4 3.7 3.4	198.0 198.0 232 232 474.0 413.0 403.0	19.9 19.9 - 17.9 17.9	39.0 39.0 10.4 10.4 15.0 15.3 16.1	 0.12 0.12 0.1	211 211 65042 65042	1	WC-1 K9 K9 ER-16 ER-16	Spring Spring Spring Spring Spring Spring Spring	309 109 109 287 287 433 433 433 163 163 163	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06
Headwaters Spring WR5 Hells Acres Guich Spring (Unnamed Spring in Hells Acres Guich) Hells Acres Guich Spring(Unnamed Spring in Hells Acres Guici Henry Spring High Springs High Springs Highland Spring	38.36575 37.46028 37.46028 37.68990 37.68990 39.130125 39.130125 37.92110 37.92110	-114.31935 -115.12472 -115.12472 -115.37391 -115.37391 -114.950408 -114.950408 -114.54923 -114.54923	9.4 13.0 13.0 - 7.4 7.4 7.4 10.0 11.6	6.5 6.49 6.49 5.8	6.6 8.3 8.3 7.5 7.5 7.5 7.2 7.4	-14.57 -12.30 -12.30 -12.77 -12.77 -15.43 -15.43 -13.30 -13.49	-107.3 -93.0 -93.0 -97.4 -97.4 -113.4 -113.4 -113.4 -98.5 -99.6	11.4 45.2 45.2 66.2 66.2 66.2 86.0 77.1	2.6 9.0 9.0 - 10.1 10.1 10.1 36.0 35.9	20.7 20.7 3.65 3.65 3.65 4.7 3.7	2.4 2.4 0.91 0.91 1.0 0.7	8.2 8.2 0.8 0.8 4.4 3.7	198.0 198.0 232 232 474.0 413.0	19.9 19.9 17.9 17.9 8.1 6.2	39.0 39.0 10.4 10.4 15.0 15.3	 0.12 0.12 0.1	211 211 65042 65042 320 60839	1 1	WC-1 K9 K9 ER-16 ER-16 GS120	Spring Spring Spring Spring Spring Spring Spring Spring	309 109 109 287 287 433 433 433 163 163	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06 04/07/85 06/24/04
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch Henry Spring Henry Spring High Springs Highland Spring Highland Spring Highland Spring Highland Spring	38.36575 37.46028 37.46028 37.68990 37.68990 39.130125 39.130125 37.92110 37.92110 37.92110	-114.31935 -115.12472 -115.12472 -115.37391 -115.37391 -114.950408 -114.54923 -114.54923	9.4 13.0 13.0 - 7.4 7.4 7.4 10.0 11.6 10.2	6.5 6.49 6.49 5.8 7.3	6.6 8.3 8.3 7.5 7.5 7.5 7.2 7.4 6.8	-14.57 -12.30 -12.77 -12.77 -15.43 -15.43 -13.30 -13.30 -13.30 -13.36	-107.3 -93.0 -93.0 -97.4 -97.4 -113.4 -113.4 -98.5 -99.6 -99.3	11.4 45.2 45.2 66.2 66.2 86.0 77.1 82.9	2.6 9.0 9.0 10.1 10.1 10.1 36.0 35.9 35.1	20.7 20.7 3.65 3.65 3.65 4.7 3.7 4.3	2.4 2.4 0.91 0.91 1.0 0.7 0.6	8.2 8.2 0.8 0.8 4.4 3.7 3.4	198.0 198.0 232 232 474.0 413.0 403.0	19.9 19.9 - 17.9 17.9 8.1 6.2 5.9	39.0 39.0 10.4 10.4 15.0 15.3 16.1	 0.12 0.12 0.1	211 211 65042 65042 320 60839	1 1	WC-1 K9 K9 ER-16 ER-16 GS120	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	309 109 109 287 287 433 433 433 163 163 163	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06 04/07/85 06/24/04
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch Henry Spring High Springs Highland Spring Highland Spring Highland Spring Highland Spring Highland Spring Highland Spring Highland Spring Highland Spring Highland Spring	38.36575 37.46028 37.46028 37.68990 39.130125 39.130125 37.92110 37.92110 37.92110 37.92110 37.92110 37.59833 37.59833	-114.31935 -115.12472 -115.12472 -115.37391 -114.950408 -114.950408 -114.54923 -114.54923 -114.54923 -114.54923 -115.21444	9.4 13.0 13.0 - 7.4 7.4 7.4 10.0 11.6 10.2	6.5 6.49 6.49 5.8 7.3	6.6 8.3 8.3 7.5 7.5 7.5 7.2 7.4 6.8	-14.57 -12.30 -12.30 -12.77 -12.77 -15.43 -15.43 -13.30 -13.49 -13.30	-107.3 -93.0 -97.4 -97.4 -113.4 -113.4 -98.5 -99.3 -99.1 -109.0 -110.5	11.4 45.2 45.2 66.2 66.2 86.0 77.1 82.9	2.6 9.0 9.0 10.1 10.1 10.1 36.0 35.9 35.1	20.7 20.7 3.65 3.65 3.65 4.7 3.7 4.3	2.4 2.4 0.91 0.91 1.0 0.7 0.6	8.2 8.2 0.8 0.8 4.4 3.7 3.4	198.0 198.0 232 232 474.0 413.0 403.0	19.9 19.9 - 17.9 17.9 8.1 6.2 5.9	39.0 39.0 10.4 10.4 15.0 15.3 16.1	 0.12 0.12 0.1	211 211 65042 65042 60839 62408 249 254	1 1	WC-1 K9 K9 ER-16 ER-16 GS120 DRI-HR-1 PLC12 IT127	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	309 109 109 287 287 433 433 163 163 163 163 163 163 122 122	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06 04/07/85 06/24/04 05/01/05
Headwaters Spring WR5 Hells Acres Guich Spring (Unnamed Spring in Hells Acres Guich) Hells Acres Guich Spring(Unnamed Spring in Hells Acres Guici Henry Spring Henry Spring High Springs Highland Spring Highland Spring Highland Spring Highland Spring Highland Spring Hiko Spring Hiko Spring Hiko Spring	38.36575 37.46028 37.46028 37.68990 37.68990 39.130125 39.130125 39.130125 37.92110 37.92110 37.92110 37.92110 37.59833 37.59833	-114.31935 -115.12472 -115.12472 -115.37391 -114.950408 -114.950408 -114.54923 -114.54923 -114.54923 -114.54923 -114.54923 -114.54923 -115.21444	9.4 13.0 13.0 - 7.4 7.4 7.4 10.0 11.6 10.2	6.5 6.49 6.49 5.8 7.3	6.6 8.3 8.3 7.5 7.5 7.5 7.2 7.4 6.8	-14.57 -12.30 -12.77 -12.77 -15.43 -15.43 -13.30 -13.30 -13.30 -13.36	-107.3 -93.0 -93.0 -97.4 -97.4 -113.4 -113.4 -113.4 -98.5 -99.6 -99.3 -99.1 -109.0 -110.5	11.4 45.2 45.2 66.2 66.2 86.0 77.1 82.9	2.6 9.0 9.0 10.1 10.1 10.1 36.0 35.9 35.1	20.7 20.7 3.65 3.65 3.65 4.7 3.7 4.3	2.4 2.4 0.91 0.91 1.0 0.7 0.6	8.2 8.2 0.8 0.8 4.4 3.7 3.4	198.0 198.0 232 232 474.0 413.0 403.0	19.9 19.9 - 17.9 17.9 8.1 6.2 5.9	39.0 39.0 10.4 10.4 15.0 15.3 16.1	 0.12 0.12 0.1	211 211 65042 65042 65042 60839 62408 249 254 255	1 1	WC-1 K9 K9 ER-16 ER-16 GS120 DRI-HR-1 PLC12 IT127 IT128	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	309 109 109 287 287 433 433 163 163 163 163 163 163 163 163 163 1	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06 04/07/85 06/24/04 05/01/05
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch Henry Spring High Springs Highland Spring Highland Spring Highland Spring Highland Spring Highland Spring Highland Spring Highland Spring Highland Spring Hiko Spring	38.36575 37.46028 37.46028 37.68990 39.130125 39.130125 37.92110 37.92110 37.92110 37.92110 37.92110 37.59833 37.59833	-114.31935 -115.12472 -115.12472 -115.37391 -114.950408 -114.950408 -114.54923 -114.54923 -114.54923 -114.54923 -115.21444	9.4 13.0 13.0 - 7.4 7.4 7.4 10.0 11.6 10.2	6.5 6.49 6.49 5.8 7.3	6.6 8.3 8.3 7.5 7.5 7.5 7.2 7.4 6.8	-14.57 -12.30 -12.77 -12.77 -15.43 -15.43 -13.30 -13.30 -13.30 -13.36	-107.3 -93.0 -97.4 -97.4 -113.4 -113.4 -98.5 -99.3 -99.1 -109.0 -110.5	11.4 45.2 45.2 66.2 66.2 86.0 77.1 82.9	2.6 9.0 9.0 10.1 10.1 10.1 36.0 35.9 35.1	20.7 20.7 3.65 3.65 3.65 4.7 3.7 4.3	2.4 2.4 0.91 0.91 1.0 0.7 0.6	8.2 8.2 0.8 0.8 4.4 3.7 3.4	198.0 198.0 232 232 474.0 413.0 403.0	19.9 19.9 - 17.9 17.9 8.1 6.2 5.9	39.0 39.0 10.4 10.4 15.0 15.3 16.1	 0.12 0.12 0.1	211 211 65042 65042 60839 62408 249 254	1 1	WC-1 K9 K9 ER-16 ER-16 GS120 DRI-HR-1 PLC12 IT127	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	309 109 109 287 287 433 433 163 163 163 163 163 163 122 122	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06 04/07/85 06/24/04 05/01/05
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch Henry Spring High Springs Highland Spring Highland Spring Highland Spring Highland Spring Hiko Spring	38.36575 37.46028 37.68990 37.68990 39.130125 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.98833 37.59833 37.59833	-114.31935 -115.12472 -115.12472 -115.37391 -114.950408 -114.950408 -114.54923 -114.54923 -114.54923 -114.54923 -115.21444 -115.21444 -115.21444	9.4 13.0 13.0 7.4 7.4 7.4 10.0 11.6 10.2 10.6	6.5 6.49 6.49 5.8 7.3	6.6 8.3 8.3 7.5 7.5 7.5 7.2 7.4 6.8 7.1	-14.57 -12.30 -12.30 -12.77 -12.77 -15.43 -15.43 -13.30 -13.49 -13.30 -13.36 -13.80 -13.80	-107.3 -93.0 -93.0 -97.4 -97.4 -113.4 -113.4 -113.4 -98.5 -99.3 -99.3 -99.1 -109.0 -110.5 -109.5 -109.5 -109.5	11.4 45.2 45.2 66.2 66.2 86.0 77.1 82.9 82.0	2.6 9.0 9.0 10.1 10.1 10.1 36.0 35.1 35.1 35.7	20.7 20.7 3.65 3.65 3.65 4.7 3.7 4.3 4.3	2.4 2.4 0.91 0.91 1.0 0.7 0.6 0.8	8.2 8.2 0.8 0.8 4.4 3.7 3.4 3.8	198.0 198.0 232 232 474.0 413.0 403.0 430.0	19.9 19.9 17.9 17.9 8.1 6.2 5.9 6.7	39.0 39.0 10.4 10.4 15.0 15.3 16.1 15.5	 0.12 0.12 0.1 0.1	211 211 65042 65042 320 60839 62408 249 254 255 256 255 256 251 257	1 1	WC-1 K9 K9 ER-16 ER-16 GS120 DRI-HR-1 PLC12 IT127 IT128 IT129 IT124 IT130	Spring Sp	309 109 109 287 287 433 433 163 163 163 163 163 163 163 163 163 1	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06 07/12/06 06/24/04 05/01/05 06/24/04 05/01/05
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch) Henry Spring High Springs High Springs Highland Spring Highland Spring Highland Spring Highland Spring Hiko Spring	38.36575 37.46028 37.46028 37.68990 39.130125 39.130125 39.130125 37.92110 37.92110 37.92110 37.92110 37.92110 37.59833 37.59833 37.59833	-114.31935 -115.12472 -115.12472 -115.37391 -114.950408 -114.950408 -114.54923 -115.21444 -115.21444 -115.21444	9.4 13.0 13.0 - 7.4 7.4 7.4 10.0 11.6 10.2	6.5 6.49 6.49 5.8 7.3	6.6 8.3 8.3 7.5 7.5 7.5 7.2 7.4 6.8 7.1	-14.57 -12.30 -12.30 -12.77 -12.77 -15.43 -15.43 -13.30 -13.30 -13.36 -13.80 -13.80	-107.3 -93.0 -93.0 -97.4 -97.4 -113.4 -113.4 -113.4 -99.5 -99.3 -99.1 -109.0 -110.5 -109.5 -109.5	11.4 45.2 45.2 66.2 66.2 86.0 77.1 82.9	2.6 9.0 9.0 10.1 10.1 10.1 36.0 35.9 35.1	20.7 20.7 3.65 3.65 3.65 4.7 3.7 4.3	2.4 2.4 0.91 0.91 1.0 0.7 0.6	8.2 8.2 0.8 0.8 4.4 3.7 3.4	198.0 198.0 232 232 474.0 413.0 403.0	19.9 19.9 - 17.9 17.9 8.1 6.2 5.9	39.0 39.0 10.4 10.4 15.0 15.3 16.1	 0.12 0.12 0.1	211 211 65042 65042 65042 20 60839 62408 249 254 255 256 251	1 1	WC-1 K9 K9 ER-16 ER-16 GS120 DRI-HR-1 PLC12 IT127 IT128 IT129 IT124	Spring Sp	309 109 109 287 287 433 433 163 163 163 163 163 163 163 122 122 122 122 122	01/14/85 01/14/85 06/25/04 06/25/04 06/25/04 07/12/06 07/12/06 07/12/06 04/07/85 06/24/04 05/01/05
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch) Henry Spring Henry Spring High Springs Highland Spring Highland Spring Highland Spring Hiko Spring	38.36575 37.46028 37.46028 37.68990 39.130125 39.130125 39.130125 37.92110 37.92110 37.92110 37.92110 37.92110 37.59833 37.59833 37.59833 37.59833	-114.31935 -115.12472 -115.12472 -115.12472 -115.37391 -114.950408 -114.950408 -114.59023 -114.54923 -114.54923 -114.54923 -115.21444 -115.21444 -115.21444 -115.21444 -115.21444 -115.21444	9.4 13.0 13.0 - 7.4 7.4 10.0 11.6 10.2 10.6 26.5 26.5	6.5 6.49 6.49 5.8 7.3 6.6 #DIV/0!	6.6 8.3 8.3 7.5 7.5 7.5 7.2 7.4 6.8 7.1	-14.57 -12.30 -12.30 -12.77 -12.77 -15.43 -13.30 -13.39 -13.30 -13.36 -13.80 -13.80 -14.00 -14.45 -14.39	-107.3 -93.0 -93.0 -97.4 -97.4 -97.4 -98.5 -99.6 -99.3 -99.3 -99.3 -99.3 -100.0 -110.5 -109.5 -100.5 -100.5 -100.5 -100.7 7 -007.7 -108.7	11.4 45.2 45.2 66.2 66.2 86.0 77.1 82.0 82.0	2.6 9.0 9.0 10.1 10.1 10.1 36.0 35.9 35.1 35.7 23.3 23.3	20.7 20.7 3.65 3.65 4.7 3.7 4.3 4.3 4.3 4.3 25.6 25.6	2.4 2.4 0.91 0.91 1.0 0.7 0.6 0.8	8.2 8.2 0.8 0.8 4.4 3.7 3.4 3.4 3.8 46.3	198.0 198.0 232 232 474.0 413.0 403.0 430.0 273.0 273.0	19.9 19.9 17.9 17.9 8.1 6.2 5.9 6.7 38.1 38.1	39.0 39.0 10.4 15.0 15.3 16.1 15.5 33.1 33.1	 0.12 0.12 0.1 0.1 0.5 0.5	211 211 65042 65042 65042 65042 60839 62408 254 255 256 251 257 252	1 1	WC-1 K9 K9 ER-16 ER-16 GS120 DRI-HR-1 PLC12 IT127 IT128 IT128 IT124 IT130 IT125	Spring Spring	309 109 109 287 287 433 433 163 163 163 163 163 163 163 122 122 122 122 122 122 122 122 122 12	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06 07/12/06 06/24/04 05/01/05 06/24/04 05/01/05 08/01/68 01/01/68 01/01/68 01/01/68 01/01/68 01/01/68 01/01/68 01/01/68 01/01/68 01/01/68
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch) Henry Spring High Springs High Springs Highland Spring Highland Spring Hiko Spring	38.36575 37.46028 37.46028 37.68990 39.130125 39.130125 39.130125 39.130125 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.98833 37.598833 37.598833 37.598833 38.84915	-114.31935 -115.12472 -115.12472 -115.37391 -114.950408 -114.950408 -114.54923 -114.54923 -114.54923 -114.54923 -115.21444 -115	9.4 13.0 13.0 - 7.4 7.4 10.0 11.6 10.2 10.6 10.2 10.6 26.5 26.5 26.5 26.5	6.5 6.49 6.49 5.8 7.3 6.6 #DIV/0! 7.9	6.6 8.3 8.3 7.5 7.5 7.5 7.2 7.4 6.8 7.1 7.7 7.7 6.6	-14.57 -12.30 -12.30 -12.77 -12.77 -15.43 -13.49 -13.30 -13.36 -13.80 -13.80 -14.00 -14.45 -14.39 -15.37	-107.3 -93.0 -97.4 -97.4 -97.4 -97.4 -97.4 -97.4 -98.5 -99.6 -99.3 -99.1 -109.0 -110.5 -109.5 -109.5 -109.5 -109.5 -100.5 -105.0	11.4 45.2 45.2 66.2 66.2 86.0 77.1 82.9 82.0 82.0	2.6 9.0 9.0 10.1 10.1 10.1 35.9 35.1 35.7 23.3 23.3 23.3 11.0	20.7 20.7 3.65 3.65 4.7 3.7 4.3 4.3 4.3 4.3 25.6 25.6 25.6 25.6	2.4 2.4 0.91 0.91 1.0 0.7 0.6 0.8 6.6 6.6 6.6 2.95	8.2 8.2 0.8 0.8 4.4 3.7 3.4 3.8 46.3 46.3 5.1	198.0 198.0 232 232 474.0 403.0 403.0 403.0 430.0 273.0 273.0 273.0 195	19.9 19.9 19.9 17.9 17.9 8.1 6.2 5.9 6.7 38.1 38.1 38.1 38.1	39.0 39.0 10.4 15.0 15.3 16.1 15.5 33.1 33.1 33.1 50.6	 0.12 0.1 0.1 0.1 0.5 0.5 0.13	211 211 65042 65042 320 60839 62408 249 254 255 256 251 257 252 251 257 252	1 1	WC-1 K9 K9 ER-16 ER-16 GS120 DRI-HR-1 PLC12 IT127 IT128 IT129 IT124 IT130 IT125 ER-8	Spring Sp	309 109 109 287 287 433 433 163 163 163 163 163 163 163 163 122 122 122 122 122 122 122 122 122 386	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06 06/24/04 05/01/05 06/24/04 05/01/05
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch) Henry Spring Henry Spring High Springs Highland Spring Highland Spring Highland Spring Hiko Spring	38.36575 37.46028 37.46028 37.68990 39.130125 39.130125 39.130125 37.92110 37.92110 37.92110 37.92110 37.92110 37.59833 37.59833 37.59833 37.59833	-114.31935 -115.12472 -115.12472 -115.12472 -115.37391 -114.950408 -114.950408 -114.59023 -114.54923 -114.54923 -114.54923 -115.21444 -115.21444 -115.21444 -115.21444 -115.21444 -115.21444	9.4 13.0 13.0 - 7.4 7.4 10.0 11.6 10.2 10.6 26.5 26.5	6.5 6.49 6.49 5.8 7.3 6.6 #DIV/0!	6.6 8.3 8.3 7.5 7.5 7.5 7.2 7.4 6.8 7.1	-14.57 -12.30 -12.30 -12.77 -12.77 -15.43 -13.30 -13.39 -13.30 -13.36 -13.80 -13.80 -14.00 -14.45 -14.39	-107.3 -93.0 -93.0 -97.4 -97.4 -97.4 -98.5 -99.6 -99.3 -99.3 -99.3 -99.3 -100.0 -110.5 -109.5 -100.5 -100.5 -100.5 -100.7 7 -007.7 -108.7	11.4 45.2 45.2 66.2 66.2 86.0 77.1 82.0 82.0	2.6 9.0 9.0 10.1 10.1 10.1 36.0 35.9 35.1 35.7 23.3 23.3	20.7 20.7 3.65 3.65 4.7 3.7 4.3 4.3 4.3 4.3 25.6 25.6	2.4 2.4 0.91 0.91 1.0 0.7 0.6 0.8	8.2 8.2 0.8 0.8 4.4 3.7 3.4 3.4 3.8 46.3	198.0 198.0 232 232 474.0 413.0 403.0 430.0 273.0 273.0	19.9 19.9 17.9 17.9 8.1 6.2 5.9 6.7 38.1 38.1	39.0 39.0 10.4 15.0 15.3 16.1 15.5 33.1 33.1	 0.12 0.12 0.1 0.1 0.5 0.5	211 211 65042 65042 65042 65042 60839 62408 254 255 256 251 257 252	1 1	WC-1 K9 K9 ER-16 ER-16 GS120 DRI-HR-1 PLC12 IT127 IT128 IT128 IT124 IT130 IT125	Spring Spring	309 109 109 287 287 433 433 163 163 163 163 163 163 163 122 122 122 122 122 122 122 122 122 12	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06 07/12/06 06/24/04 05/01/05 06/24/04 05/01/05
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch) Henry Spring High Springs High Springs Highland Spring Highland Spring Highland Spring Hiko Spring	38.36575 37.46028 37.46028 37.68990 39.130125 39.130125 39.130125 39.130125 37.92110 37.92180 37.9883 37.9883 37.9883 37.9883 36.84915 36.94139 36.941	-114.31935 -115.12472 -115.37391 -114.950408 -114.950408 -114.950408 -114.54923 -114.54923 -114.54923 -114.54923 -114.54923 -114.54923 -114.54923 -115.21444 -115.21444 -115.21444 -115.21444 -115.21444 -115.21444 -115.21444 -115.21444 -115.21444 -115.21444 -114.89566 -114.4639	9.4 13.0 13.0 - 7.4 7.4 10.0 11.6 10.2 10.6 10.2 10.6 26.5 26.5 26.5 26.5	6.5 6.49 6.49 5.8 7.3 6.6 #DIV/0! 7.9	6.6 8.3 8.3 7.5 7.5 7.5 7.2 7.4 6.8 7.1 7.7 7.7 6.6	-14.57 -12.30 -12.30 -12.77 -15.43 -15.43 -13.30 -13.49 -13.30 -13.49 -13.36 -13.80 -13.80 -14.00 -14.45 -14.39 -15.37 -15.37 -12.70	-107.3 -93.0 -97.4 -97.4 -113.4 -113.4 -113.4 -98.5 -99.3 -99.3 -99.3 -99.3 -99.3 -99.3 -100.5 -100.	11.4 45.2 45.2 66.2 66.2 86.0 77.1 82.9 82.0 82.0	2.6 9.0 9.0 10.1 10.1 10.1 35.9 35.1 35.7 23.3 23.3 23.3 11.0	20.7 20.7 3.65 3.65 4.7 3.7 4.3 4.3 4.3 4.3 25.6 25.6 25.6 25.6	2.4 2.4 0.91 0.91 1.0 0.7 0.6 0.8 6.6 6.6 6.6 2.95	8.2 8.2 0.8 0.8 4.4 3.7 3.4 3.8 46.3 46.3 5.1	198.0 198.0 232 232 474.0 403.0 403.0 403.0 430.0 273.0 273.0 273.0 195	19.9 19.9 19.9 17.9 17.9 8.1 6.2 5.9 6.7 38.1 38.1 38.1 38.1	39.0 39.0 10.4 15.0 15.3 16.1 15.5 33.1 33.1 33.1 50.6	 0.12 0.1 0.1 0.1 0.5 0.5 0.13	211 211 65042 65042 320 60839 62408 249 254 255 256 251 257 252 62977 62977 62977 167	1 1	WC-1 K9 K9 ER-16 ER-16 GS120 DRI-HR-1 T128 TT128 TT128 TT128 TT124 TT124 TT125 ER-8 ER-8 ER-8 ER-8	Spring Spring	309 109 109 287 287 433 433 163 163 163 163 163 163 163 163 163 1	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06 04/07/85 06/24/04 05/01/05 05/01/05 03/01/70 03/01/50 03/00 00/000000000000000000000000000
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch) Henry Spring Henry Spring Highland Spring Highland Spring Highland Spring Highland Spring Hiko Spring	38.36575 37.46028 37.46028 37.68990 39.130125 39.130125 39.130125 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.92110 37.92130 37.98833 37.59833 37.59833 37.59833 38.84915 38.84915	-114.31935 -115.12472 -115.12472 -115.37391 -114.950408 -114.950408 -114.54923 -114.54923 -114.54923 -114.54923 -114.54923 -115.21444 -115	9.4 13.0 13.0 - 7.4 7.4 10.0 11.6 10.2 10.6 10.2 10.6 26.5 26.5 26.5 26.5	6.5 6.49 6.49 5.8 7.3 6.6 #DIV/0! 7.9	6.6 8.3 8.3 7.5 7.5 7.5 7.2 7.4 6.8 7.1 7.7 7.7 6.6	-14.57 -12.30 -12.30 -12.77 -12.77 -15.43 -13.30 -13.30 -13.30 -13.36 -13.80 -13.80 -14.45 -14.39 -14.45 -14.39 -15.37	-107.3 -93.0 -93.0 -97.4 -97.4 -113.4 -113.4 -113.4 -98.5 -99.6 -99.3 -99.1 -109.0 -110.5 -109.5 -109.5 -109.5 -109.5 -109.0 -110.5 -109.0 -100.5 -10	11.4 45.2 45.2 66.2 66.2 86.0 77.1 82.9 82.0 82.0	2.6 9.0 9.0 10.1 10.1 10.1 35.9 35.1 35.7 23.3 23.3 23.3 11.0	20.7 20.7 3.65 3.65 4.7 3.7 4.3 4.3 4.3 4.3 25.6 25.6 25.6 25.6	2.4 2.4 0.91 0.91 1.0 0.7 0.6 0.8 6.6 6.6 6.6 2.95	8.2 8.2 0.8 0.8 4.4 3.7 3.4 3.8 46.3 46.3 5.1	198.0 198.0 232 232 474.0 403.0 403.0 403.0 430.0 273.0 273.0 273.0 195	19.9 19.9 19.9 17.9 17.9 8.1 6.2 5.9 6.7 38.1 38.1 38.1 38.1	39.0 39.0 10.4 15.0 15.3 16.1 15.5 33.1 33.1 33.1 33.1	 0.12 0.1 0.1 0.1 0.5 0.5 0.13	211 211 65042 65042 65042 320 60839 62408 254 254 255 256 255 255 255 255 255 255 257 252	1 1	WC-1 K9 K9 ER-16 ER-16 GS120 DRI-HR-1 PLC12 IT127 IT128 IT129 IT124 IT130 IT125 ER-8 ER-8 ER-8	Spring Sp	309 109 109 287 287 433 433 163 163 163 163 163 163 163 163 163 1	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06 07/12/06 06/24/04 05/01/05 06/24/04 05/01/05 01/14/85 01/01/89 01/80 01/01/89 00/01/89 00/01/89 00/00/80 00/000000000000000000000
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch) Henry Spring High Springs Highland Spring Highland Spring Highland Spring Hiko Spring Hole in the Bank Spring Hores Spring (Morman) Hores Spring (Morman)	38.36575 37.46028 37.46028 37.68990 39.130125 39.130125 39.130125 39.130125 37.92110 37.92100 37.92100 37.92100 37.92100 37.92100 37.92100 37.92100 37	-114.31935 -115.12472 -115.12472 -115.37391 -114.950408 -114.950408 -114.950408 -114.54923 -114.54923 -114.54923 -114.54923 -114.54923 -115.21444 -115.2155 -115.38580 -115	9.4 13.0 13.0 - 7.4 7.4 7.4 10.6 11.6 10.2 10.6 26.5 26.5 26.5 6.9 6.9 6.9	6.5 6.49 6.49 5.8 7.3 6.6 #DIV/01 7.9 7.9 7.2	6.6 8.3 8.3 7.5 7.5 7.5 7.5 7.4 6.8 7.1	-14.57 -12.30 -12.30 -12.77 -15.43 -15.43 -13.49 -13.49 -13.49 -13.30 -13.49 -13.30 -13.49 -13.49 -13.49 -13.49 -13.49 -13.49 -13.49 -13.49 -13.57 -14.57 -14.57 -15.57 -15.57 -15.57 -12.70 -12.70 -12.70 -12.70 -12.86	-107.3 -93.0 -97.4 -97.4 -113.4 -113.4 -113.4 -113.4 -98.6 -99.3 -99.1 -99.3 -99.1 -109.0 -110.5 -109.5 -109.5 -109.5 -109.0 -110.5 -109.0 -110.5 -109.5 -109.5 -114.9 -11	11.4 45.2 45.2 66.2 66.2 86.0 77.1 82.9 82.0 82.0	2.6 9.0 9.0 10.1 10.1 10.1 35.9 35.1 35.7 23.3 23.3 23.3 11.0	20.7 20.7 3.65 3.65 4.7 3.7 4.3 4.3 4.3 4.3 25.6 25.6 25.6 25.6	2.4 2.4 0.91 0.91 1.0 0.7 0.6 0.8 6.6 6.6 6.6 2.95	8.2 8.2 0.8 0.8 4.4 3.7 3.4 3.8 46.3 46.3 5.1	198.0 198.0 232 232 474.0 403.0 403.0 403.0 430.0 273.0 273.0 273.0 195	19.9 19.9 19.9 17.9 17.9 8.1 6.2 5.9 6.7 38.1 38.1 38.1 38.1	39.0 39.0 10.4 15.0 15.3 16.1 15.5 33.1 33.1 33.1 33.1	 0.12 0.1 0.1 0.1 0.5 0.5 0.13	211 211 65042 65042 320 60839 62408 249 254 255 256 255 255 255 255 255 255 255 255	1 1	WC-1 K9 ER-16 ER-16 GS120 DRI-HR-1 PLC12 IT127 IT128 IT129 IT129 IT129 IT125 ER-8 ER-8 ER-8 ER-8 GS59 GS59 GR-3	Spring Spring	309 109 287 287 433 163 163 163 163 163 163 163 163 122 122 122 122 122 122 122 122 122 12	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06 07/12/06 06/24/04 05/01/05 06/24/04 05/01/05 01/14/85 08/07/95 07/31/05 07/31/05 07/31/05 07/31/05 02/05/84 06/30/05
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch) Henry Spring High Springs Highland Spring Highland Spring Highland Spring Highland Spring Hiko Spring	38.36575 37.46028 37.46028 37.68990 39.130125 39.130125 39.130125 39.130125 37.92110 37.92110 37.92110 37.92110 37.92130 37.98833 37.598833 37.598833 37.598833 37.598833 36.844915 36.94139 36.94159 36.94139 36.9414	-114.31935 -115.12472 -115.12472 -115.37391 -114.950408 -114.950408 -114.950408 -114.54923 -114.54923 -114.54923 -114.54923 -114.54923 -115.21444 -115.21444 -115.21444 -115.21444 -115.21444 -115.21444 -115.21444 -114.89566 -114.44639 -114.44639 -114.44639	9.4 13.0 13.0 7.4 7.4 10.0 11.6 10.2 10.6 10.2 10.6 26.5 26.5 26.5 6.9 6.9	6.5 6.49 6.49 5.8 7.3 6.6 #DIV/0! 7.9 7.9	6.6 8.3 8.3 7.5 7.5 7.5 7.5 7.5 7.5 7.4 6.8 7.1	-14.57 -12.30 -12.30 -12.77 -15.43 -15.43 -13.30 -13.40 -13.40 -13.80 -13.80 -13.80 -14.00 -14.45 -14.39 -15.37 -15.37 -12.70 -12.70	-107.3 -93.0 -97.4 -97.4 -113.4 -113.4 -113.4 -99.6 -99.3 -99.3 -99.3 -99.3 -99.3 -99.3 -100.5 -100.	11.4 45.2 45.2 66.2 66.2 86.0 77.1 82.9 82.0 82.0	2.6 9.0 9.0 10.1 10.1 10.1 35.9 35.1 35.7 23.3 23.3 23.3 11.0	20.7 20.7 3.65 3.65 4.7 3.7 4.3 4.3 4.3 4.3 25.6 25.6 25.6 25.6	2.4 2.4 0.91 0.91 1.0 0.7 0.6 0.8 6.6 6.6 6.6 2.95	8.2 8.2 0.8 0.8 4.4 3.7 3.4 3.8 46.3 46.3 5.1	198.0 198.0 232 232 474.0 403.0 403.0 403.0 430.0 273.0 273.0 273.0 195	19.9 19.9 19.9 17.9 17.9 8.1 6.2 5.9 6.7 38.1 38.1 38.1 38.1	39.0 39.0 10.4 15.0 15.3 16.1 15.5 33.1 33.1 33.1 33.1	 0.12 0.1 0.1 0.1 0.5 0.5 0.13	211 211 65042 65042 320 60839 62408 249 254 255 256 255 255 256 251 257 252 62977 62977 62977 167 167	1 1	WC-1 K9 K9 ER-16 GS120 DRI-HR-1 FI27 IT128 IT129 IT124 IT129 IT124 IT125 ER-8 ER-8 ER-8 GS59 GS59	Spring Spring	309 109 287 287 287 287 287 433 433 163 163 163 163 163 163 163 163 163 1	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06 07/12/06 06/24/04 05/01/05 06/24/04 05/01/05 06/24/04 05/01/05 03/01/70 03/01/50 00/000000000000000000000000000000
Headwaters Spring WR5 Hells Acres Guich Spring (Unnamed Spring in Hells Acres Guich) Hells Acres Guich Spring(Unnamed Spring in Hells Acres Guich) Henry Spring High Springs High Springs Highland Spring Highland Spring Highland Spring Hiko Spring Hole in the Bank Spring Horse Spring (Morman) Horse Spring (Morman)	38.36575 37.46028 37.46028 37.68990 39.130125 39.130125 39.130125 39.130125 37.92110 37.92100 37.92100 37.92100 37.92100 37.92100 37.92100 37.92100 37	-114.31935 -115.12472 -115.12472 -115.37391 -114.950408 -114.950408 -114.950408 -114.54923 -114.54923 -114.54923 -114.54923 -114.54923 -115.21444 -115.2155 -115.38580 -115	9.4 13.0 13.0 - 7.4 7.4 7.4 10.6 11.6 10.2 10.6 26.5 26.5 26.5 6.9 6.9 6.9	6.5 6.49 6.49 5.8 7.3 6.6 #DIV/01 7.9 7.9 7.2	6.6 8.3 8.3 7.5 7.5 7.5 7.5 7.4 6.8 7.1	-14.57 -12.30 -12.30 -12.77 -15.43 -15.43 -13.49 -13.49 -13.49 -13.30 -13.49 -13.30 -13.49 -13.49 -13.49 -13.49 -13.49 -13.49 -13.49 -13.49 -13.57 -14.57 -14.57 -15.57 -15.57 -15.57 -12.70 -12.70 -12.70 -12.70 -12.86	-107.3 -93.0 -97.4 -97.4 -113.4 -113.4 -113.4 -113.4 -98.6 -99.3 -99.1 -99.3 -99.1 -109.0 -110.5 -109.5 -109.5 -109.5 -109.0 -110.5 -109.0 -110.5 -109.5 -109.5 -114.9 -11	11.4 45.2 45.2 66.2 66.2 86.0 77.1 82.9 82.0 82.0	2.6 9.0 9.0 10.1 10.1 10.1 35.9 35.1 35.7 23.3 23.3 23.3 11.0	20.7 20.7 3.65 3.65 4.7 3.7 4.3 4.3 4.3 4.3 25.6 25.6 25.6 25.6	2.4 2.4 0.91 0.91 1.0 0.7 0.6 0.8 6.6 6.6 6.6 2.95	8.2 8.2 0.8 0.8 4.4 3.7 3.4 3.8 46.3 46.3 5.1	198.0 198.0 232 232 474.0 403.0 403.0 403.0 430.0 273.0 273.0 273.0 195	19.9 19.9 19.9 17.9 17.9 8.1 6.2 5.9 6.7 38.1 38.1 38.1 38.1	39.0 39.0 10.4 15.0 15.3 16.1 15.5 33.1 33.1 33.1 33.1	 0.12 0.1 0.1 0.1 0.5 0.5 0.13	211 211 65042 65042 320 60839 62408 249 254 255 256 255 255 255 255 255 255 255 255	1 1	WC-1 K9 K9 ER-16 GS120 DRI-HR-1 FIC12 IT127 IT128 IT127 IT128 IT127 IT128 IT124 IT130 IT125 ER-8 ER-8 GS59 GS59 GS59 GR-3 GR-3 GR-3	Spring Spring	309 109 287 287 433 163 163 163 163 163 163 163 163 122 122 122 122 122 122 122 122 122 12	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06 07/12/06 06/24/04 05/01/05 06/24/04 05/01/05 01/14/85 08/07/95 07/31/05 07/31/05 07/31/05 07/31/05 02/05/84 06/30/05
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch) Henry Spring High Springs High Springs Highland Spring Highland Spring Highland Spring Highland Spring Hiko Spring Hole in the Bank Spring Horse Spring (Morman) Horse Spring (Morman) Horse Spring (Grant) Horsethief Spring	38.36575 37.46028 37.46028 37.66990 39.130125 39.130125 39.130125 39.130125 39.130125 37.59833 37.59833 37.59833 37.59833 37.59833 37.59833 38.84915 38.84915 38.84915 38.2951 38.32951 38.02649 38.02649	-114.31935 -115.12472 -115.12472 -115.37391 -114.950408 -114.990408 -114.990408 -114.54923 -114.54923 -114.54923 -114.54923 -115.21444 -114.89566 -114.44639 -114.24511 -114.24511	9.4 13.0 13.0 13.0 1.0 7.4 7.4 7.4 7.4 10.6 11.6 10.2 10.6 10.2 10.6 26.5 26.5 26.5 6.9 6.9 6.9 14.7 14.7 14.7 14.7 19.7	6.5 6.49 6.49 5.8 7.3 6.6 #DIV/0! 7.9 7.9 7.2 7.2 1.6 1.9	6.6 8.3 8.3 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.4 6.8 7.1 7.7 6.6 6.6 6.6	-14.57 -12.30 -12.30 -12.77 -12.77 -15.43 -13.43 -13.30 -13.49 -13.30 -13.49 -13.30 -13.49 -13.30 -13.40 -13.49 -13.80 -13.80 -13.80 -13.80 -13.80 -14.45 -14.39 -14.45 -14.39 -15.37 -15.37 -12.70 -12.70 -12.26 -12.26 -12.26 -12.26	-107.3 -93.0 -97.4 -97.4 -113.4 -113.4 -113.4 -113.4 -98.6 -99.3 -99.3 -99.3 -99.3 -109.0 -110.5 -109.5 -109.5 -109.5 -109.5 -110.0 -107.7 -108.7 -114.9 -114.9 -114.9 -114.9 -89.0 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5	11.4 45.2 45.2 66.2 66.2 66.2 66.2 86.0 77.1 82.9 82.0 46.4 46.4 46.4 46.4 43.7 43.7 56.6 76.5	2.6 9.0 9.0 10.1 10.1 10.1 35.9 35.1 35.7 23.3 23.3 11.0 11.0 11.0 8.0 10.6	20.7 20.7 20.7 3.65 3.65 3.65 3.65 3.65 25.6 25.6 25.6 12.4 12.4 12.4	2.4 2.4 0.91 1.0 0.7 0 0.8 6.6 6.6 6.6 2.95 2.95	8.2 8.2 0.8 0.8 4.4 3.7 3.4 3.4 3.8 46.3 46.3 5.1 5.1 5.1 18.6 19.5	198.0 198.0 232 232 474.0 413.0 403.0 430.0 430.0 430.0 273.	19.9 19.9 19.9 	39.0 39.0 10.4 15.0 15.3 16.1 15.5 33.1 33.1 50.6 50.6 50.6	 0.12 0.12 0.1 - - 0.1 0.5 0.5 0.13 0.13	211 211 65042 65042 320 60839 62408 249 254 255 256 251 257 252 62977 62977 62977 167 167 167 167 62829 62829	1 1	WC-1 K9 K9 ER-16 GS120 DRI-HR-1 PLC12 IT127 IT128 IT129 IT129 IT129 IT125 ER-8 ER-8 ER-8 GS59 GS59 GR-3	Spring Sp	309 109 109 287 433 163 163 163 163 163 163 163 1	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06 07/12/06 06/24/04 05/01/05 06/24/04 05/01/05 01/14/85 01/01/89 03/01/70 01/14/85 01/01/89 03/01/70 01/14/85 01/01/89 03/01/70 01/14/85 01/01/89 00/01/99 00/01/99 00/01/99 00/01/99 00/01/99 00/01/99 00/01/99 00/01/99 00/01/99 00/01/99 00/01/99 00/01/05 00/01/99 00/00/05 00/05
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch) Henry Spring High Springs High Springs Highland Spring Highland Spring Hiko Spring Hole in the Bank Spring Hole in the Bank Spring Horse Spring (Morman) Horse Spring (Grant) Horse Spring (Grant) Horsethief Spring	38.36575 37.46028 37.68990 39.130125 39.130125 39.130125 39.130125 37.92110 37.92110 37.92110 37.92110 37.92110 37.92130 37.59833 37.59833 37.59833 37.59833 38.84915 38.84915 36.94139 38.32951 38.32951 38.2251 38.2264	-114.31935 -115.12472 -115.12472 -115.37391 -114.950408 -114.950408 -114.54923 -114.54923 -114.54923 -114.54923 -114.54923 -114.54923 -114.54923 -115.21444 -115	9.4 13.0 13.0 - - 7.4 7.4 10.0 11.6 10.2 10.6 26.5 26.5 26.5 26.5 6.9 6.9 14.7 14.7 14.7 11.7	6.5 6.49 6.49 5.8 7.3 6.6 #DIV/01 7.9 7.9 7.2 7.2 1.6	6.6 8.3 8.3 7.5 7.5 7.5 7.2 6.8 7.1 7.7 6.6 6.6 6.6	-14.57 -12.30 -12.30 -12.77 -15.43 -15.43 -13.30 -13.49 -13.30 -13.49 -13.30 -13.49 -13.30 -13.40 -13.49 -13.30 -13.40 -13.49 -13.30 -13.40 -14.57 -13.40 -13.40 -14.57 -14.77 -13.40 -13.40 -14.57 -14.77 -15.43 -13.30 -13.40 -13.40 -14.57 -14.77 -14.77 -14.77 -14.77 -15.43 -13.40 -13.40 -14.45 -14.45 -14.45 -15.37 -15.37 -12.77 -12.77 -12.77 -12.77 -13.40 -13.40 -14.50 -14.45 -15.37 -12.77	-107.3 -93.0 -97.4 -97.4 -113.4 -113.4 -113.4 -98.6 -99.3 -99.1 -100.5 -	11.4 45.2 45.2 66.2 66.2 66.2 86.0 77.1 82.9 82.0 82.0 46.4 46.4 46.4 43.7 43.7	2.6 9.0 9.0 - - 10.1 10.1 10.1 36.0 35.9 35.1 35.7 23.3 23.3 23.3 11.0 11.0	20.7 20.7 3.655 3.65 4.7 3.7 4.3 4.3 4.3 4.3 25.6 25.6 12.4 12.4 12.4	2.4 2.4 - 0.91 1.0 0.7 0.6 0.8 6.6 6.6 6.6 2.95 2.95	8.2 8.2 0.8 0.8 4.4 3.7 3.4 3.4 3.8 46.3 5.1 5.1	198.0 198.0 232 232 474.0 413.0 403.0 403.0 403.0 403.0 403.0 273.0 273.0 273.0 273.0 273.0	19.9 19.9 19.9 17.9 17.9 8.1 6.2 5.9 6.7 8.1 38.1 38.1 38.1 10.5 10.5 10.5	39,0 39.0 10.4 10.4 15.0 15.3 16.1 15.5 33.1 33.1 33.1 33.1 50.6 50.6	 0.12 0.1 0.1 0.1 0.5 0.5 0.13	211 211 65042 6542 320 60839 62408 249 254 255 256 255 255 255 255 255 255 255 255	1 1	WC-1 K9 K9 ER-16 GS120 DRI-HR-1 FIC12 IT127 IT128 IT127 IT128 IT127 IT128 IT124 IT130 IT125 ER-8 ER-8 GS59 GS59 GS59 GR-3 GR-3 GR-3	Spring Spring	309 109 287 433 433 163 163 163 163 163 163 163 22 22 22 22 22 22 22 22 22 22 22 22 22	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06 07/12/06 06/24/04 05/01/05 06/24/04 05/01/05 03/01/70 01/14/85 03/01/70 01/14/85 03/07/95 07/31/05
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Henry Spring Henry Spring High Springs Highland Spring Highland Spring Hiko Spring Hores Spring (Morman) Horse Spring (Grant) Horsethief Spring Horsethief Spring	38.36575 37.46028 37.68990 39.130125 39.130125 39.130125 39.130125 37.92110 37.92110 37.92110 37.92110 37.92110 37.92130 37.98833 37.59833 37.59833 37.59833 37.59833 38.84915 38.84915 36.94139 38.92951 38.922951 38.02649 38.02659 39.02659 39.02659 39.02659 39.02659 39.02659 39.02659 3	-114.31935 -115.12472 -115.12472 -115.37391 -114.950408 -114.990408 -114.54923 -114.54923 -114.54923 -114.54923 -114.54923 -114.54923 -115.21444 -115.21444 -115.21444 -115.21444 -115.21444 -115.21444 -115.21444 -115.21444 -115.21444 -114.89566 -114.89566 -114.44639 -115.38580 -114.24511 -114.24511 -114.24511 -114.24511 -114.24511	9.4 13.0 13.0 - - 7.4 7.4 10.0 11.6 10.2 10.6 26.5 26.5 26.5 26.9 6.9 6.9 6.9 14.7 1	6.5 6.49 6.49 5.8 7.3 6.6 #DIV/0! 7.9 7.9 7.2 7.2 1.6 1.9	6.6 8.3 8.3 7.5 7.5 7.5 7.5 7.5 7.4 6.8 7.1 7.7 6.6 6.6 6.6	-14.57 -12.30 -12.30 -12.77 -15.43 -15.43 -13.30 -13.49 -13.30 -13.49 -13.30 -13.36 -13.80 -13.80 -13.80 -13.80 -13.80 -13.80 -13.80 -13.80 -13.80 -13.80 -13.80 -13.80 -14.00 -14.45 -14.45 -14.45 -15.37 -12.70 -12.70 -12.70 -12.70 -12.70 -12.70 -12.70 -12.70 -12.70 -12.70 -12.70 -12.77 -12.77 -13.80 -14.00 -14.45 -14.57 -12.77 -12.77 -12.77 -12.77 -13.90 -13.90 -13.90 -13.90 -13.90 -13.90 -13.90 -13.90 -13.90 -13.90 -14.00 -14.00 -14.20 -14.27 -15.37 -12.77 -12.77 -12.77 -12.77 -13.80 -13.80 -14.00 -14.45 -14.27 -15.37 -12.77 -12.77 -12.77 -12.77 -12.77 -12.77 -12.77 -12.77 -12.77 -12.77 -12.77 -12.77 -12.70 -12.76 -12.70 -12.76 -12.76 -12.70 -12.76 -12.76 -12.76 -12.70 -12.76 -12.76 -12.76 -12.70 -12.76 -12.76 -12.76 -12.76 -12.76 -12.76 -12.76 -12.76 -12.76 -12.76 -12.76 -12.76 -12.76 -12.76 -12.76 -12.76 -12.77 -12.76 -12.76 -12.76 -12.76 -12.77 -12.76 -12.77 -12.76 -12.77 -1	-107.3 -93.0 -97.4 -97.4 -113.4 -113.4 -113.4 -98.6 -99.3 -99.1 -109.0 -110.5 -109.5 -109.5 -109.5 -109.5 -109.5 -109.5 -114.9 -114.9 -89.0 -89.5 -99.	11.4 45.2 45.2 66.2 66.2 66.2 66.2 86.0 77.1 82.9 82.0 46.4 46.4 46.4 46.4 43.7 43.7 56.6 76.5	2.6 9.0 9.0 10.1 10.1 10.1 35.9 35.1 35.7 23.3 23.3 11.0 11.0 11.0 8.0 10.6	20.7 20.7 20.7 3.65 3.65 3.65 3.65 3.65 25.6 25.6 25.6 12.4 12.4 12.4	2.4 2.4 0.91 1.0 0.7 0 0.8 6.6 6.6 6.6 2.95 2.95	8.2 8.2 0.8 0.8 4.4 3.7 3.4 3.4 3.8 46.3 46.3 5.1 5.1 5.1 18.6 19.5	198.0 198.0 232 232 474.0 413.0 403.0 430.0 430.0 430.0 273.	19.9 19.9 19.9 	39.0 39.0 10.4 15.0 15.3 16.1 15.5 33.1 33.1 50.6 50.6 50.6	 0.12 0.12 0.1 - - 0.1 0.5 0.5 0.13 0.13	211 211 65042 65042 320 60839 62408 249 254 255 256 255 255 255 255 255 255 255 255	1 1	WC-1 K9 K9 ER-16 ER-16 GS120 DRI-HR-1 F127 IT128 IT129 IT124 IT124 IT124 IT124 IT124 IT125 ER-8 ER-8 ER-8 ER-8 GS59 GS59 GS59 GR-3 GR-3 DRI-WC-6 GS155	Spring Sp	309 109 287 287 287 433 163 163 163 163 163 163 163 222 122 222 222 222 222 222 222 386 386 85 85 85 85 85 85 85 85 85 85 85 85 85	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06 07/12/06 06/24/04 05/01/05 06/24/04 05/01/05 03/01/05 03/01/05 01/14/85 01/01/69 03/01/70 01/14/85 01/01/69 03/01/70 01/14/85 01/05/84 06/30/05 05/20/04 05/01/05 05/20/04
Headwaters Spring WR5 Hells Acres Gulch Spring (Unnamed Spring in Hells Acres Gulch) Hells Acres Gulch Spring(Unnamed Spring in Hells Acres Gulch) Henry Spring High Springs High Springs Highland Spring Highland Spring Highland Spring Hiko Spring Hole in the Bank Spring Horse Spring (Morman) Horse Spring (Grant) Horsethief Spring Horsethief Spring Horsethief Spring	38.36575 37.46028 37.66930 37.66930 39.130125 39.130125 39.130125 39.130125 37.59833 37.59833 37.59833 37.59833 37.59833 37.59833 38.84915 38.84915 38.84915 38.32951 38.32951 38.02649 38.02649 38.02649 38.02649	-114.31935 -115.12472 -115.12472 -115.37391 -114.950408 -114.990408 -114.990408 -114.54923 -114.54923 -114.54923 -114.54923 -115.21444 -114.89566 -114.44639 -114.24511 -11	9.4 13.0 13.0 13.0 7.4 7.4 7.4 7.4 10.6 11.6 10.2 10.6 10.2 10.6 26.5 26.5 26.5 26.5 6.9 6.9 6.9 6.9	6.5 6.49 6.49 5.8 7.3 6.6 #DIV/0! 7.9 7.9 7.2 7.2 1.6 1.9	6.6 8.3 8.3 7.5 7.5 7.5 7.5 7.5 7.4 6.8 7.1 7.7 6.6 6.6 6.6	-14.57 -12.30 -12.30 -12.77 -15.43 -15.43 -13.30 -13.49 -13.30 -13.49 -13.30 -13.40 -13.40 -13.40 -13.80 -13.80 -13.80 -13.80 -13.80 -13.80 -14.45 -14.39 -14.45 -14.39 -15.37 -15.37 -12.70 -12.70 -12.86 -12.86 -12.86 -12.68	-107.3 -93.0 -97.4 -97.4 -113.4 -113.4 -113.4 -98.6 -99.3 -99.3 -99.3 -99.3 -109.0 -110.5 -109.5 -109.5 -109.5 -109.5 -109.5 -110.0 -114.9 -114.9 -114.9 -114.9 -88.0 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -99.5 -97.0	11.4 45.2 45.2 66.2 66.2 66.2 66.2 86.0 77.1 82.9 82.0 46.4 46.4 46.4 46.4 43.7 43.7 56.6 76.5	2.6 9.0 9.0 10.1 10.1 10.1 35.9 35.1 35.7 23.3 23.3 11.0 11.0 11.0 8.0 10.6	20.7 20.7 20.7 3.65 3.65 3.65 3.65 3.65 25.6 25.6 25.6 12.4 12.4 12.4	2.4 2.4 0.91 1.0 0.7 0 0.8 6.6 6.6 6.6 2.95 2.95	8.2 8.2 0.8 0.8 4.4 3.7 3.4 3.4 3.8 46.3 46.3 5.1 5.1 5.1 18.6 19.5	198.0 198.0 232 232 474.0 413.0 403.0 430.0 430.0 430.0 273.	19.9 19.9 19.9 	39.0 39.0 10.4 15.0 15.3 16.1 15.5 33.1 33.1 50.6 50.6 50.6	 0.12 0.12 0.1 - - 0.1 0.5 0.5 0.13 0.13	211 211 65042 65042 320 60839 62408 249 254 255 256 251 257 255 256 251 257 255 256 251 257 255 256 251 257 255 256 257 167 167 167 167 167 167 167 167 167 16	1 1	WC-1 K9 K9 ER-16 ER-16 GS120 DRI-HR-1 PLC12 IT127 IT128 IT129 IT129 IT129 IT129 IT129 IT129 IT129 GS59 GS59 GS59 GS59 GR-3 GR-3 GR-3 DRI-WC-6	Spring Spring	309 109 287 287 287 287 433 433 163 163 163 163 163 163 163 163 222 222 222 222 222 222 222 222 222 2	01/14/85 01/14/85 06/25/04 06/25/04 07/12/06 07/12/06 07/12/06 06/24/04 05/01/05 06/24/04 05/01/05 01/14/85 01/01/89 02/05/84 02/05/84 02/05/84 02/05/84 02/05/84 02/05/84 02/05/84 02/05/84 02/02/84 02/02/84 02/02/84 02/02/84 02/02/84 02/02/84 02/02/84 02/02/84 02/02/84 02/02/84 02/02/84 02/02/84 02/02/84 02/02/84 02/02/84 02/02/84 02/02/84 02/02/84

Hot Creek Springs Hot Creek Springs Hot Creek Springs Hot Creek Springs Hot Creek Springs Hot Creek Spring Hot Creek Springs Hot Creek Springs Hot Creek Springs Hot Creek Springs	38.382510	-115.154510 -115.154510	32.5 31.8 31.3 31.2 31.3 30.9 31.3 31.3 31.7 31.4 31.5	1.0 1.3 1.4 1.6 1.52 1.87 1.06 1.54 1.32 1.4	7.2 7.3 7.1 6.8 7.33 7.32 7.29 7.36 7.3 7.3 7.3 7.3 7.2	-15.50 -15.71 -15.66 -15.66 -15.70 -15.73 -15.77 -15.75 -15.67 -15.75 -15.69	-118.0 -120.5 -119.0 -118.6 -117.4 -119.1 -119.2 -118.4 -120.1 -119.0 -118.9	59.0 57.9 59.0 59.7 58.7 59.5 59.6 59.3 59.1	21.0 22.1 22.2 22.4 22.1 21.5 21.6 22.3 21.9	24.0 24.9 25.0 24.3 24.5 24.3 25.2 22.3 24.3	5.5 4.8 5.3 5.03 5.22 5.14 5.15 4.53 5.1	10.0 10.1 10.0 10.2 10.1 10.6 10.1 10.1	282.0 272.0 273 269 271 269 268 272.0	46.0 43.9 45.5 45.1 45.4 45.2 47.0 46.0 45.5	28.0 28.2 27.8 27.7 27.8 28.8 28.4 27.7 28.1	0.9 1.02 1.02 1.04 1.02 1.00 1.0	372 61484 61972 62624 63268 63564 65656 64234 64736 65367	2	GS153 DRI-WV-2 DRI-WV-2 WV-2 WV-2 WV-2 WV-2	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	197 197 197 197 197 197 197 197 197 197	07/19/81 09/25/04 01/24/05 05/18/05 08/14/05 11/6/05 10/28/06 02/17/06 05/22/06 08/29/06
Indian Spring (Butte) Indian Spring (Butte)	39.44040 39.44040	-115.31884 -115.31884	11.3 11.3	7.9 7.9	7.1 7.1	-15.31 -15.31	-119.1 -119.1									-	62709 62709		DRI-BT-8 DRI-BT-8	Spring Spring	334 334	06/05/05 06/05/05
Indian Springs Indian Springs	38.64160 38.64160	-114.44957 -114.44957				-14.16 -14.16	-106.3 -106.3	26.3 26.3	4.10 4.10	12.7 12.7	4.56 4.56	9.4 9.4	114.0 114.0	6.7 6.7	72.8 72.8	0.10 0.10	62974 62974		FO-1 FO-1	Spring Spring	375 375	07/29/05 07/29/05
Iverson's Spring Iverson's Spring	36.71028 36.71028	-114.71194 -114.71194					-97.0 -97.0										111 111		PLC18 PLC18	Spring Spring	65 65	-
Jenson Well Jenson Well	37.18417 37.18417	-114.46444 -114.46444	18.0 18.0		7.7 7.7	-11.60 -11.60	-88.5 -88.5	55.0 55.0	14.0 14.0	100.0 100.0	7.2 7.2	45.0 45.0	340.0 340.0	80.0 80.0	56.0 56.0	2.1 2.1	187 187		GS70 GS70	Well Well	95 95	04/10/85 04/10/85
John Wadsworth John Wadsworth	37.76861 37.76861	-114.40694 -114.40694	14.5 14.5		7.5 7.5	-12.90 -12.90	-101.0 -101.0	120.0 120.0	47.0 47.0	150.0 150.0	9.5 9.5	88.0 88.0	601.0 601.0	200.0 200.0	76.0 76.0	6.5 6.5	286 286		GS101 GS101	Well Well	140 140	06/04/85 06/04/85
Johnson Spring Johnson Spring	39.92319 39.92319	-114.98923 -114.98923	10.2 10.2	9.0 9.0	7.5 7.5	-15.94 -15.94	-123.4 -123.4									-	62625 62625		DRI-CC-1 DRI-CC-1	Spring Spring	335 335	05/24/05 05/24/05
Jones Spring Pumphouse Jones Spring Pumphouse Jones Spring Pumphouse Jones Spring Pumphouse Jones Spring Pumphouse Jones Spring Pumphouse Jones Spring Pumphouse	36.71116 36.71116 36.711160 36.711160 36.711160 36.711160 36.71116	-114.71694 -114.71694 -114.716940 -114.716940 -114.716940 -114.716940 -114.71694	27.2 32.00 31.7 32.2 32.20 31.7 31.2	5.3 3.90 3.67 4.36 4.05 3.14 4.1	7.4 7.00 7.36 7.27 7.30 7.35 7.3	-12.99 -12.99 -13.07 -13.07 -13.10 -13.09 -13.05	-98.9 -97.80 -97.7 -97.9 -97.3 -98.0 -97.9	63.4 63.70 63.8 62.6 63.7 64.6 63.6	27.4 27.30 27.4 27.1 27.8 27.2 27.4	95.7 96.00 96.3 93.1 84.5 95.0 93.4	11.1 11.20 10.9 11.2 9.32 11.1 10.8	63.1 61.90 61.8 62.6 62.2 60.7 62.1	252.0 256.00 254 254 269 252 252 256.2	178.0 174.00 178 181 179 176 177.7	29.5 31.40 29.4 29.7 29.3 29.2 29.8	2.18 2.20 2.19 2.13 2.2 2.2	62033 62034 64175 64902 65285 65661	1	DRI-MV-6 MV-5 MV-5 MV-5 MV-5	Spring Spring Spring Spring Spring Spring Spring	293 293 292 292 292 292 292 292	02/10/05 06/08/05 02/16/06 06/21/06 08/23/06 10/30/06
Juanita Spring Juanita Spring	36.63694 36.63694	-114.24750 -114.24750	26.0 26.0		7.3 7.3	-11.65 -11.65	-87.0 -87.0	130.0 130.0	43.0 43.0	25.0 25.0	5.3 5.3	15.0 15.0		370.0 370.0	29.0 29.0	1.0 1.0	90 90		GS30 GS30	Spring Spring	50 50	01/25/86 01/25/86
Kalamazoo Spring WR6 Kalamazoo Spring WR6	39.56648 39.56648 39.56648 39.56648 39.56648 39.566480 39.566480 39.566480 39.566480 39.566480 39.566480 39.566480 39.566480	-114.59594 -114.59594 -114.59594 -114.59594 -114.59594 -114.59594 -114.595940 -114.595940 -114.595940 -114.595940 -114.595940 -114.595940 -114.595940 -114.595940	12.1 12.3 11.9 11.7 9.8 - 11.9 12.0 11.3 11.7	6.8 6.7 6.9 7.33 7.14 8.1 - 7.3 6.50 NA 7.1	7.3 7.4 7.47 7.6 7.51 - 7.55 7.52 7.6 7.5	-16.22 -16.22 -16.28 -16.13 -16.13 -16.17 -16.22 -16.06 -16.16 -16.24 -16.11 -16.19 -16.18	-121.6 -118.5 -121.6 -118.6 -119.2 -121.0 -119.3 -118.0 -120.1 -120.1 -120.5 -120.4 -119.9	47.2 46.8 48.6 49.6 49.1 49.3 50.0 50.0 50.2 48.7 49.0	15.5 16.0 16.5 17.5 16.6 11.0 - 17.1 17.3 16.3 15.9	2.5 3.2 3.5 3.0 3.46 3.42 2.65 - 2.87 3.51 3.67 3.2	0.7 0.9 0.8 0.7 0.74 0.79 0.55 - 0.60 0.82 0.76 0.7	2.1 1.9 1.8 1.9 2.0 1.4 - 2.0 1.5 1.5 1.5 1.8	208.0 196.0 209.0 11.4 219 213 191 - 230 216 220 191.3	10.6 11.0 12.1 214.0 12.8 12.8 7.4 - 12.4 12.5 11.7 31.7	10.5 11.7 11.4 11.5 12.4 12.1 9.6 - 12.0 12.4 12.4 12.4 11.6	 - - - - - - - - - - - -	60962 61348A 61966 62636 63222A 63567 64236 64739 65368 65657 65657	3	SC-3 SC-3 SC-3 SC-3 SC-3 SC-3 SC-3	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	336 336 336 336 336 336 336 336 336 336	07/20/04 09/21/04 01/23/05 05/23/05 08/12/05 8-Nov-05 02/25/06 05/21/06 08/02/06 08/30/06 10/29/06 5/8/2007
Kane Springs (KSV-3) Kane Springs (KSV-3) Kane Springs (KSV-3) Kane Springs (KSV-3)	37.24611 37.24611 37.24611 37.24611	-114.70584 -114.70584 -114.70584 -114.70584	16.4 14.8 15.6	5.2 5.2	7.2 7.0 7.1	-12.60 -11.90 -11.88 -12.13	-87.0 -86.5 -87.0 -86.8	44.0 49.0 46.5	13.0 13.6 13.3	20.0 20.3 20.2	5.9 1.4 3.6	17.0 17.6 17.3	210.0 214.0 212.0	14.0 15.1 14.6	60.0 64.5 62.3	2.8 2.8	193 195 58490	1	Kirk1025 GS72	Spring Spring Spring Spring	97 97 97 97	 02/02/84 01/13/04
Kershaw-Ryan Spring #1 Kershaw-Ryan Spring #1	37.59028 37.59028	-114.52010 -114.52010	20.0 20.0	6.5 6.5	8.4 8.4	-13.11 -13.11	-95.1 -95.1	24.2 24.2	2.7 2.7	26.5 26.5	4.4 4.4	6.3 6.3	140.0 140.0	4.4 4.4	46.1 46.1	-	59701 59701	1 1		Spring Spring	250 250	03/27/04 03/27/04
Kiln Spring Kiln Spring			11.5 11.5	2.43 2.43	7.11 7.11	-12.34 -12.34	-91.9 -91.9	93.5 93.5	22.9 22.9	34.8 34.8	0.53 0.53	51.2 51.2	320 320	56.9 56.9	27.4 27.4	0.24 0.24	64904 64904		MG-1 MG-1	Spring Spring	418 418	06/21/06 06/21/06
Lake Mead Base Well #3 Lake Mead Base Well #3	36.23917 36.23917	-115.00444 -115.00444				-13.80 -13.80	-101.5 -101.5										19 19		PLC35 PLC35	Well Well	12 12	-
Lake Valley Well Lake Valley Well	38.35556 38.35556	-114.58917 -114.58917	18.0 18.0		8.1 8.1	-14.70 -14.70	-111.0 -111.0	61.0 61.0	9.7 9.7	22.0 22.0	2.1 2.1	68.0 68.0	121.0 121.0	25.0 25.0	25.0 25.0	0.2 0.2	365 365		GS147 GS147	Well Well	193 193	06/07/85 06/07/85
Lamb Spring Lamb Spring	36.94500 36.94500	-115.10583 -115.10583	13.5 13.5			-13.15 -13.15	-92.5 -92.5	37.0 37.0	41.0 41.0	8.7 8.7	0.6 0.6	8.6 8.6		24.0 24.0	12.0 12.0	0.2 0.2	168 168			Spring Spring	86 86	05/19/88 05/19/88
Lester Mathews Well Lester Mathews Well	37.79361 37.79361	-114.39972 -114.39972	20.0 20.0		8.1 8.1	-13.30 -13.30	-103.0 -103.0	73.0 73.0	21.0 21.0	140.0 140.0	10.0 10.0	44.0 44.0		170.0 170.0	64.0 64.0	3.1 3.1	289 289		GS104 GS104	Well Well	142 142	06/04/85 06/04/85
Lime Spring Lime Spring Lime Spring	37.91467 37.91467 37.91467	-114.54022 -114.54022 -114.54022	21.0 15.1 18.1	0.4 0.4	8.3 7.4 7.8	-12.90 -13.41 -13.16	-97.0 -99.9 -98.5	55.0 76.1 65.6	31.0 40.6 35.8	3.8 3.3 3.5	0.9 1.1 1.0	4.1 3.6 3.9	290.0 433.0 361.5	8.9 6.4 7.7	14.0 14.1 14.1	0.1 0.1	315 60840	1	GS118	Spring Spring Spring	160 160 160	04/07/85 06/24/04
Lion Spring Lion Spring	38.25863 38.25863	-114.13032 -114.13032	9.8 9.8	8.2 8.2	7.8 7.8	-14.11 -14.11	-103.4 -103.4	37.0 37.0	7.0 7.0	17.2 17.2	3.8 3.8	36.1 36.1	124.0 124.0	15.3 15.3	56.6 56.6	-	60317 60317	1 1		Spring Spring	318 318	05/21/04 05/21/04

Lion Spring (Egan Range) Lion Spring (Egan Range)	39.180372 -114.98444 39.180372 -114.98444	12.5 12.5	5.07 5.07	7.28 7.28	-15.34 -15.34	-114.8 -114.8	64.5 64.5	13.2 13.2	13.7 13.7	4.61 4.61	15.4 15.4	237 237	28.7 28.7	42.3 42.3	0.10 0.10	65039 65039		ER-13 ER-13	Spring Spring	430 430	07/12/06 07/12/06
Little Ash Spring (Ash Spring) Little Ash Spring (Ash Spring)	37.46389 -115.1916 37.46389 -115.1916	37.0 37.0		7.4 7.4	-14.20 -14.20	-107.2 -107.2	45.3 45.3	15.4 15.4	29.8 29.8	7.3 7.3	9.5 9.5	250.0 250.0	35.0 35.0	31.5 31.5	0.8 0.8	229 229		IT33 IT33	Spring Spring	111 111	08/08/95 08/08/95
Little Boulder Spring Little Boulder Spring	37.71330 -114.95217 37.71330 -114.95217	12.0 12.0	6.4 6.4	7.1 7.1	-13.06 -13.06	-97.2 -97.2	21.8 21.8	5.9 5.9	8.0 8.0	2.9 2.9	4.9 4.9	101.0 101.0	7.8 7.8	44.8 44.8	-	59690 59690	1 1		Spring Spring	301 301	03/24/04 03/24/04
Little Currant Creek Little Currant Creek	38.83444 -115.35800 38.83444 -115.35800	10.5 10.5			-15.00 -15.00	-113.0 -113.0													Surface Surface	217 217	08/23/83 08/23/83
Little Spring (Grant Range) Little Spring (Grant Range)	38.33197 -115.36050 38.33197 -115.36050	14.7 14.7	1.7 1.7	6.9 6.9	-12.48 -12.48	-99.4 -99.4										62828 62828	1 1		Spring Spring	369 369	06/30/05 06/30/05
Little Springs (Clover Mts) Little Springs (Clover Mts) Little Springs (Clover Mts)	37.53418 -114.35607 37.53418 -114.35607 37.53418 -114.35607 37.53418 -114.35607	18.5 17.1 17.8	5.3 6.7 6.0	7.6 6.8 7.2	-12.78 -12.84 -12.81	-93.0 -93.5 -93.3	30.2 29.6 29.9	5.1 4.7 4.9	11.2 10.8 11.0	2.8 2.5 2.6	9.7 8.6 9.2	137.0 112.0 124.5	4.8 5.0 4.9	56.5 46.6 51.6	 #DIV/0!	61096 62403	1	DRI-CR-7	Spring Spring Spring	254 254 254	07/31/04 04/30/05
Little Cut Spring Little Cut Spring Little Cut Spring	37.69653 -115.37810 37.69653 -115.37810 37.69653 -115.37810	10.4 10.4	4.8 4.8	6.8 6.8	-12.93 -12.76 -12.85	-98.4 -98.2 -98.3	68.8 75.0 71.9	19.7 21.0 20.4	21.1 22.8 22.0	2.6 2.3 2.4	22.2 21.1 21.7	295.0 302.0 298.5	30.6 33.1 31.9	55.9 52.2 54.1	 #DIV/0!	60844 62410	1	DRI-MI-1	Spring Spring Spring	286 286 286	06/25/04 05/02/05
Little Tom Plain Spring Little Tom Plain Spring (RS) Littl e Tom Plain Spring	39.08092 -115.37152 39.081026 -115.37171 39.08092 -115.3715 2	8.0 8.9 8.5	7.2 5.74 6.4	6.7 7.13 6.9	-15.87 -15.85 -15.86	-121.8 -120.1 -121.0	66.8 66.8	5.61 5.6	19.3 19.3	2.63 2.6	14.7 14.7	231 231.0	19.8 19.8	47.3 47.3	0.25 0.3	62712 65037 62712		DRI-WP-7 WP-12 DRI-WP-7	Spring Spring Spring	337 427 337	06/06/05 07/11/06 06/06/05
Littlefield Spring Littlefield Spring	38.23125 -114.70223 38.23125 -114.70223	14.9 14.9	5.0 5.0	7.0 7.0	-12.73 -12.73	-98.5 -98.5	67.1 67.1	13.3 13.3	16.3 16.3	2.8 2.8	22.5 22.5	254.0 254.0	20.9 20.9	47.5 47.5	-	60847 60847	1 1		Spring Spring	275 275	06/26/04 06/26/04
Lone Pine Spring Lone Pine Spring Lone Pine Spring Lone Pine Spring	38.89556 -114.89944 38.89556 -114.89944 38.89556 -114.89944 38.89556 -114.89944 38.89556 -114.89944 38.89556 -114.89944	8.0 7 7.5	 7.4 7.09 7.2	 7.5 7.44 7.5	-14.98 -14.95 -14.77 -14.90	-109.2 -111.5 -110.0 -110.2	 67.0 72.5 69.8	4.2 3.80 4.0	 3.5 4.35 3.9	 1.27 1.3	1.6 2.3 2.0	224.0 220 222.0	3.7 6.0 4.9	17.0 27.6 22.3	<.1 0.05 0.1	 434 65053	1	GS214 ER-27	Spring Spring Spring Spring	223 223 444 223	10/13/03 08/01/85 07/13/06
Lower Chokecherry Spring Lower Chokecherry Spring	37.53721 -114.69709 37.53721 -114.69709	6.4 6.4	7.3 7.3	7.7 7.7	-12.98 -12.98	-98.4 -98.4	73.2 73.2	15.2 15.2	26.7 26.7	1.6 1.6	19.4 19.4	296.0 296.0	25.0 25.0	53.4 53.4	-	59694 59694	1 1		Spring Spring	261 261	03/25/04 03/25/04
Lower Fairview Lower Fairview	38.17573 -114.6555 38.17573 -114.6555	-	-		-12.39 -12.39	-97.5 -97.5	-	-	-	-	-	-	2	-	-		1 1		Spring Spring	281 281	06/29/04 06/29/04
Lower Indian Spring Lower Indian Spring	37.45006 -114.65730 37.45006 -114.65730	21.4 21.4	3.6 3.6	8.3 8.3	-12.62 -12.62	-96.0 -96.0	1.9 1.9	0.2 0.2	95.1 95.1	0.8 0.8	12.1 12.1	221.0 221.0	10.4 10.4	56.2 56.2	-	58498 58498	1 1		Spring Spring	267 267	01/14/04 01/14/04
Lower Little Cherry Cr Spring Lower Little Cherry Cr Spring	38.16722 -115.6533 38.16722 -115.6533		8.0 8.0	7.6 7.6	-13.90 -13.90	-103.0 -103.0						268.0 268.0				346 346		GS135 GS135	Spring Spring	182 182	07/31/85 07/31/85
		20.0 14.0 17.0					45.0 45.0	2.0 2.0	36.0 36.0	1.1 1.1	10.0 10.0		8.2 8.2	47.0 47.0	0.1 0.1			GS135 GS135 GS142 GS143			
Lower Little Cherry Cr Spring Lower Pony Spring Lower Pony Spring	38.16722 - 115.6533 38.31972 -114.6072 38.31972 -114.6072	14.0	8.0	7.6 7.9	-13.90 -13.20 -13.30	-103.0 -101.0 -101.0						268.0 202.0				346 359		GS135 GS142	Spring Spring Spring	182 190 190	07/31/85 07/23/81
Lower Little Cherry Cr Spring Lower Pony Spring Lower Pony Spring Lower Pony Spring Unnamed Spring in Snow Creek	38.16722 -115.65333 38.31972 -114.60723 38.31972 -114.60723 38.31972 -114.60723 40.07837 -114.91138	14.0	8.0	7.6 7.9	-13.90 -13.20 -13.30 -13.25 -16.24	-103.0 -101.0 -101.0 -101.0 -120.9						268.0 202.0				346 359 360 62629B		GS135 GS142 GS143 DRI-CC-3	Spring Spring Spring Spring Spring	182 190 190 190 338	07/31/85 07/23/81 04/05/85 05/24/05
Lower Little Cherry Cr Spring Lower Pony Spring Lower Pony Spring Unamed Spring in Snow Creek Unnamed Spring in Snow Creek Lund Spring	38.16722 -115.6533: 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 40.07837 -114.9113; 40.07837 -114.9113; 38.85000 -115.00256;	14.0 17.0 19.0	8.0 #DIV/0! 5.7	7.6 7.9 7.9 7.5	-13.90 -13.20 -13.30 -13.25 -16.24 -16.24 -15.40	-103.0 -101.0 -101.0 -101.0 -120.9 -120.9 -120.9 -113.0	45.0	2.0 23.0	36.0 3.8	0.9	2.8	268.0 202.0 202.0 202.0	8.2	47.0 11.0	0.1 0.1	346 359 360 62629B 62629B		GS135 GS142 GS143 DRI-CC-3 DRI-CC-3	Spring Spring Spring Spring Spring Spring Spring	182 190 190 190 338 338 221	07/31/85 07/23/81 04/05/85 05/24/05 05/24/05
Lower Little Cherry Cr Spring Lower Pony Spring Lower Pony Spring Unnamed Spring in Snow Creek Unnamed Spring in Snow Creek Lund Spring M-8 Spring (Unnamed Spring)	38.16722 -115.6533: 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 40.07837 -114.9113; 40.07837 -114.9113; 38.5000 -115.0025; 38.85000 -115.0025; 38.65000 -115.0025; 36.72083 -114.7275(14.0 17.0 19.0	8.0 #DIV/0! 5.7	7.6 7.9 7.9 7.5	-13.90 -13.20 -13.30 -13.25 -16.24 -16.24 -15.40 -15.40 -15.40 -12.75	-103.0 -101.0 -101.0 -101.0 -120.9 -120.9 -113.0 -113.0 -99.0	45.0	2.0 23.0	36.0 3.8	0.9	2.8	268.0 202.0 202.0 202.0	8.2	47.0 11.0	0.1 0.1	346 359 360 62629B 62629B 429 429		GS135 GS142 GS143 DRI-CC-3 DRI-CC-3 GS210 PLC15	Spring Spring Spring Spring Spring Spring Spring Spring Spring	182 190 190 338 338 221 221 68	07/31/85 07/23/81 04/05/85 05/24/05 05/24/05 04/27/82 10/30/85
Lower Little Cherry Cr Spring Lower Pony Spring Lower Pony Spring Unnamed Spring in Snow Creek Unnamed Spring in Snow Creek Lund Spring Lund Spring M-8 Spring (Unnamed Spring) M-8 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring)	38.16722 -115.6533: 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.9113; 38.85000 -115.00250; 36.72083 -114.7275; 36.72083 -114.7275; 36.72583 -114.7272;	14.0 17.0 19.0	8.0 #DIV/0! 5.7	7.6 7.9 7.9 7.5	-13.90 -13.20 -13.30 -13.25 -16.24 -16.24 -15.40 -15.40 -12.75 -12.75 -12.45	-103.0 -101.0 -101.0 -101.0 -120.9 -120.9 -113.0 -113.0 -99.0 -99.0 -99.0 -99.5	45.0	2.0 23.0	36.0 3.8	0.9	2.8	268.0 202.0 202.0 202.0	8.2	47.0 11.0	0.1 0.1	346 359 360 62629B 62629B 429 119 119 126		GS135 GS142 GS143 DRI-CC-3 DRI-CC-3 GS210 PLC15 PLC15 PLC16	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	182 190 190 338 338 221 221 68 68 68 70	07/31/85 07/23/81 04/05/85 05/24/05 05/24/05 05/24/05 04/27/82 10/30/85 10/30/85
Lower Little Cherry Cr Spring Lower Pony Spring Lower Pony Spring Unnamed Spring in Snow Creek Unnamed Spring in Snow Creek Lund Spring M-8 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring)	38.16722 -115.6533: 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 40.07837 -114.9113; 38.85000 -115.0025; 38.65000 -115.0025; 36.72083 -114.7275; 36.72083 -114.7275; 36.72683 -114.7272; 36.72683 -114.7272; 37.19167 -115.0338;	14.0 17.0 19.0 19.0 9.6	8.0 #DIV/0! 5.7	7.6 7.9 7.9 7.5 7.5 7.5	-13.90 -13.20 -13.30 -13.25 -16.24 -16.24 -16.24 -15.40 -15.40 -15.40 -12.75 -12.75 -12.45 -12.45 -12.30	-103.0 -101.0 -101.0 -101.0 -120.9 -120.9 -120.9 -113.0 -113.0 -99.0 -99.0 -99.0 -96.5 -96.5 -96.5 -94.0	45.0 56.0 56.0 43.0	23.0 23.0 23.0	36.0 3.8 3.8 3.8	1.1 0.9 0.9	2.8 2.8 2.8 30.0	268.0 202.0 202.0 270.0 270.0 270.0	8.2 11.0 11.0 88.0	47.0 11.0	0.1 0.1	346 359 360 626298 626298 429 119 119 126 126 186		G\$135 G\$142 G\$143 DRI-CC-3 DRI-CC-3 G\$210 PLC15 PLC15 PLC16 PLC16 IT136	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	182 190 190 338 338 221 221 68 68 68 68 70 70 70 94	07/31/85 07/23/81 04/05/85 05/24/05 05/24/05 04/27/82 10/30/85 10/30/85 10/30/85 10/30/85 01/14/85
Lower Little Cherry Cr Spring Lower Pony Spring Lower Pony Spring Unnamed Spring in Snow Creek Unnamed Spring in Snow Creek Lund Spring Lund Spring M-8 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) Maynard Lake Spring (Unnamed Spring) Maynard Lake Spring (Unnamed Spring) Maynard Lake Spring (Unnamed Spring) Maynard Lake Spring (Unnamed Spring) Machermit Spring	38.16722 -115.6533: 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 40.07837 -114.9113; 40.07837 -114.9113; 38.5000 -115.0025; 38.5000 -115.0025; 36.72083 -114.7275; 36.72083 -114.7275; 36.72583 -114.7272; 37.19167 -115.0338; 37.19167 -115.0338; 38.25914 -114.6316;	14.0 17.0 19.0 19.0 9.6	8.0 #DIV/0! 5.7	7.6 7.9 7.9 7.5 7.5 7.5	-13.90 -13.20 -13.30 -13.25 -16.24 -16.24 -15.40 -15.40 -15.40 -15.40 -15.40 -12.75 -12.75 -12.75 -12.45 -12.30 -12.30 -12.30 -11.21	-103.0 -101.0 -101.0 -120.9 -120.9 -120.9 -113.0 -113.0 -99.0 -99.0 -99.0 -99.5 -96.5 -94.0 -94.0 -94.3	45.0 56.0 56.0 43.0	23.0 23.0 23.0	36.0 3.8 3.8 3.8	1.1 0.9 0.9	2.8 2.8 2.8 30.0	268.0 202.0 202.0 270.0 270.0 270.0	8.2 11.0 11.0 88.0	47.0 11.0	0.1 0.1	346 359 360 626298 626298 429 119 119 126 126 186		G\$135 G\$142 G\$143 DRI-CC-3 DRI-CC-3 G\$210 PLC15 PLC15 PLC16 PLC16 IT136	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	182 190 190 338 338 221 221 68 68 68 70 70 94 94 94 323	07/31/85 07/23/81 04/05/85 05/24/05 05/24/05 04/27/82 10/30/85 10/30/85 10/30/85 10/30/85 01/14/85 01/14/85 06/26/04
Lower Little Cherry Cr Spring Lower Pony Spring Lower Pony Spring Unnamed Spring in Snow Creek Unnamed Spring in Snow Creek Lund Spring M-8 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) Maynard Lake Spring (Unnamed Spring) McDermitt Spring Medow Valley Wash, Cal.	38.16722 -115.6533: 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.9113; 38.85000 -115.0025; 36.72083 -114.7275; 36.72083 -114.7275; 36.72683 -114.7272; 36.72683 -114.7272; 37.19167 -115.0338; 37.19167 -115.0338; 38.25514 -114.6316; 38.25514 -114.6316; 37.63581 -114.5135;	14.0 17.0 19.0 19.0 9.6 9.6 9.6 5.0	8.0 #DIV/0! 5.7	7.6 7.9 7.9 7.5 7.5 7.5 7.9 7.9 7.9	-13.90 -13.20 -13.30 -13.25 -16.24 -16.24 -15.40 -15.40 -12.75 -12.75 -12.45 -12.45 -12.45 -12.30 -12.30 -11.21 -11.21 -13.10	-103.0 -101.0 -101.0 -120.9 -120.9 -120.9 -113.0 -99.0 -99.0 -99.0 -96.5 -96.5 -96.5 -96.5 -96.0 -94.0 -94.3 -94.3 -97.0	45.0 56.0 56.0 43.0 43.0 43.0	2.0 23.0 23.0 23.0 23.0 23.0 23.0	36.0 3.8 3.8 3.8 114.0 114.0 94.6	1.1 0.9 0.9 14.0 14.0 14.0	10.0 2.8 2.8 2.8 30.0 30.0 30.0	268.0 202.0 202.0 270.0 270.0 270.0 270.0 405.0 405.0 405.0 387.0	8.2 11.0 11.0 88.0 88.0 88.0	47.0 11.0 11.0 59.0	0.1 0.1 0.1 0.1	346 359 360 62629B 62629B 429 119 119 126 126 126 186 186 186	1 1	G\$135 G\$142 G\$143 DRI-CC-3 DRI-CC-3 G\$210 PLC15 PLC15 PLC16 PLC16 IT136 IT136 IT136	Spring Spring	182 190 190 338 338 221 68 70 94 94 323 323 130	07/31/85 07/23/81 04/05/85 05/24/05 05/24/05 04/27/82 10/30/85 10/30/85 10/30/85 01/14/85 01/14/85 01/14/85 06/26/04 06/26/04 06/26/04
Lower Little Cherry Cr Spring Lower Pony Spring Lower Pony Spring Unnamed Spring in Snow Creek Unnamed Spring in Snow Creek Lund Spring M-8 Spring (Unnamed Spring) M-8 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) Maynard Lake Spring (Unnamed Spring) Maynard Lake Spring (Unnamed Spring) Maynard Lake Spring (Unnamed Spring) MacDermitt Spring McDermitt Spring McDarmitt Spring	38.16722 -115.6533: 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 40.07837 -114.9113; 40.07837 -114.9113; 38.5000 -115.0025; 38.72083 -114.7275; 36.72083 -114.7275; 36.72083 -114.7275; 36.72583 -114.7272; 36.72583 -114.7272; 36.72583 -114.7272; 36.72583 -114.7272; 36.72583 -114.7272; 36.72583 -114.6316; 37.19167 -115.0338; 38.25914 -114.6316; 37.63581 -114.5135; 38.2581 -114.5135; 38.25181 -114.7049;	14.0 17.0 19.0 19.0 19.0 9.6 9.6 9.6 5.0 5.0 5.0 14.4	8.0 #DIV/0! 5.7 5.7	7.6 7.9 7.9 7.5 7.5 7.5 7.9 7.9 7.9 7.9 7.8 7.8 7.8 7.2	-13.90 -13.20 -13.25 -16.24 -16.24 -15.40 -15.40 -15.40 -12.75 -12.75 -12.75 -12.45 -12.45 -12.30 -12.30 -11.21 -13.10 -13.10	-103.0 -101.0 -101.0 -120.9 -120.9 -120.9 -13.0 -113.0 -99.0 -99.0 -99.0 -99.0 -96.5 -96.5 -94.0 -94.3 -94.3 -94.3 -97.0 -97.0 -99.8	45.0 56.0 56.0 43.0 43.0 43.0 58.0 58.0 58.0 68.1	2.0 23.0 23.0 23.0 23.0 25.0 25.0 25.0 12.2	36.0 3.8 3.8 3.8 114.0 114.0 94.6 94.6 94.6 16.4	1.1 0.9 0.9 14.0 14.0 14.0 15.4 15.4 15.4 4.4	10.0 2.8 2.8 30.0 30.0 59.1 59.1 24.9	268.0 202.0 202.0 270.0 270.0 270.0 270.0 405.0 405.0 405.0 387.0 387.0 387.0 248.0	8.2 11.0 11.0 88.0 88.0 88.0 66.2 66.2 18.1	47.0 11.0 11.0 59.0 59.0 59.0 59.0 54.2	0.1 0.1 0.1 0.1	346 359 360 62629B 62629B 429 119 119 126 126 126 186 186 186 271 271 271 271 60845	1 1 1 1	G\$135 G\$142 G\$143 DRI-CC-3 DRI-CC-3 G\$210 PLC15 PLC15 PLC16 PLC16 IT136 IT136 IT136	Spring Sp	182 190 190 338 338 221 221 68 68 68 70 70 94 94 94 323 323 130 130 276	07/31/85 07/23/81 04/05/85 05/24/05 05/24/05 04/27/82 10/30/85 10/30/85 10/30/85 01/14/85 01/14/85 06/26/04 06/26/04
Lower Little Cherry Cr Spring Lower Pony Spring Lower Pony Spring Lower Pony Spring in Snow Creek Unnamed Spring in Snow Creek Lund Spring Lund Spring M-8 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) Maynard Lake Spring (Unnamed Spring) Medow Valley Wash, Cal. Meloy Spring Merli Scamp #39	38.16722 -115.6533: 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6113; 40.07837 -114.9113; 38.85000 -115.0025; 36.72083 -114.7275; 36.72083 -114.7275; 36.72083 -114.7272; 36.72083 -114.7272; 37.79167 -115.0338; 37.19167 -115.0338; 37.19167 -115.0338; 32.5914 -114.6316; 37.63581 -114.5135; 37.63581 -114.5135; 38.25181 -114.7049; 38.18825 -113.86636;	14.0 17.0 19.0 19.0 19.0 9.6 9.6 9.6 5.0 5.0 5.0 14.4 14.4 14.4 14.4	8.0 #DIV/0! 5.7 5.7 5.7 6.9 6.9 6.27	7.6 7.9 7.9 7.5 7.5 7.5 7.5 7.9 7.9 7.9 7.9 7.9 7.8 7.8 7.2 7.2 7.21	-13.90 -13.20 -13.25 -14.24 -16.24 -15.40 -15.40 -12.75 -12.45 -12.45 -12.45 -12.30 -12.30 -11.21 -11.21 -13.10 -13.10 -12.75 -12.75 -12.43	-103.0 -101.0 -101.0 -120.9 -120.9 -120.9 -13.0 -113.0 -99.0 -99.0 -99.0 -99.0 -96.5 -96.5 -96.5 -96.5 -94.0 -94.3 -94.3 -97.0 -99.8 -99.8 -99.8 -99.8 -102.1	45.0 56.0 56.0 43.0 43.0 43.0 58.0 58.0 68.1 68.1 68.1 41.8	2.0 23.0 23.0 23.0 23.0 25.0 25.0 25.0 12.2 12.2 5.69	36.0 3.8 3.8 114.0 114.0 94.6 94.6 94.6 16.4 16.4 16.4 8.36	1.1 0.9 0.9 14.0 14.0 15.4 15.4 15.4 4.4 4.4 4.4 0.38	10.0 2.8 2.8 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30	268.0 202.0 202.0 270.0 270.0 270.0 270.0 387.0 387.0 387.0 387.0 248.0 248.0 248.0	8.2 11.0 11.0 88.0 88.0 88.0 88.0 88.0 88.0	47.0 11.0 11.0 59.0 59.0 59.0 54.2 54.2 54.2 15.5	0.1 0.1 0.1 0.1 2.0 2.0 - 0.09	346 359 360 62629B 62629B 429 119 119 126 126 126 186 186 186 271 271 271 271 60845 60845 60845	1 1 1 1	G\$135 G\$142 G\$143 DRI-CC-3 DRI-CC-3 G\$210 PLC15 PLC15 PLC16 PLC16 IT136 IT136 IT136	Spring Spring	182 190 190 190 338 338 221 221 68 68 68 70 70 94 94 323 323 130 130 130 276 276 410	07/31/85 07/23/81 04/05/85 05/24/05 05/24/05 05/24/05 04/27/82 10/30/85 10/30/85 10/30/85 10/30/85 10/30/85 01/14/85 06/26/04 06/26/04 12/00/79 12/00/79 12/00/79
Lower Little Cherry Cr Spring Lower Pony Spring Lower Pony Spring Unnamed Spring in Snow Creek Unnamed Spring in Snow Creek Lund Spring M-8 Spring (Unnamed Spring) M-8 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) M-9 Spring (Unnamed Spring) Maynard Lake Spring (Unnamed Spring) McDermit Spring McDermit Spring Medow Valley Wash, Cal. Medoy Spring Meloy Spring Merini's Camp #39 Merril's Camp #39 Mesquite Wtr Bunkerville 1	38.16722 -115.6533: 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.6072; 38.31972 -114.9113; 38.85000 -115.0025; 38.72083 -114.7275; 36.72083 -114.7275; 36.72083 -114.7275; 36.72583 -114.7275; 36.72583 -114.7275; 36.72683 -114.7275; 36.72583 -114.7275; 36.72683 -114.7275; 36.72683 -114.7275; 36.72684 -114.6316; 38.25914 -114.6316; 38.25914 -114.6316; 38.25914 -114.7049; 38.25181 -113.86636; 38.18252 -113.86636; 38.18252 -113.86636; 38.7526 -114.11600;	14.0 17.0 19.0 19.0 9.6 9.6 9.6 9.6 5.0 5.0 14.4 14.4 14.4 14.4 14.4 8.4 23.0	8.0 #DIV/0! 5.7 5.7 5.7 6.9 6.9 6.27	7.6 7.9 7.9 7.5 7.5 7.5 7.9 7.9 7.9 7.8 7.2 7.2 7.21 7.21 7.5	-13.90 -13.20 -13.20 -13.25 -16.24 -16.24 -16.24 -15.40 -15.40 -15.40 -12.75 -12.75 -12.75 -12.45 -12.45 -12.45 -12.30 -12.30 -12.30 -12.30 -12.30 -12.75 -12.75 -12.75 -12.75 -12.75 -12.75 -14.13 -14.13 -13.51	-103.0 -101.0 -101.0 -120.9 -120.9 -120.9 -113.0 -99.0 -99.0 -99.0 -99.0 -99.0 -96.5 -94.0 -94.3 -94.3 -94.3 -94.3 -97.0 -97.0 -99.8 -99.8 -99.8 -99.8 -192.0 -192.0 -192.0 -192.0 -193.0 -193.0 -193.0 -193.0 -193.0 -94.3 -94.3 -94.3 -94.3 -94.3 -97.0	45.0 56.0 56.0 43.0 43.0 43.0 58.0 58.0 58.0 68.1 68.1 68.1 41.8 41.8 54.0	2.0 23.0 23.0 23.0 23.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	36.0 3.8 3.8 114.0 114.0 94.6 94.6 94.6 16.4 16.4 16.4 16.4 16.4 3.8 3.8 39.0	1.1 0.9 0.9 14.0 14.0 15.4 15.4 15.4 4.4 0.38 0.38 0.38 8.1	10.0 2.8 2.8 2.8 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30	268.0 202.0 202.0 270.0	8.2 11.0 11.0 88.0 88.0 88.0 88.0 88.0 88.0	47.0 11.0 11.0 59.0 59.0 59.0 59.0 54.2 54.2 15.5 15.5 15.5 15.5 15.5	0.1 0.1 0.1 0.1 2.0 2.0 - 0.09 0.09 0.9	346 359 360 62629B 62629B 429 119 119 126 126 186 186 186 186 271 271 60845 60845 60845 60845 60845	1 1 1 1	GS135 GS142 GS143 DRI-CC-3 DRI-CC-3 GS210 PLC15 PLC15 PLC16 PLC16 PLC16 IT136 IT136 IT136 E27 E27 E27	Spring Sp	182 190 199 338 221 221 68 70 94	07/31/85 07/23/81 04/05/85 05/24/05 05/24/05 04/27/82 10/30/85 10/30/85 10/30/85 10/30/85 01/14/85 01/14/85 01/14/85 01/14/85 01/14/85 01/14/85 06/26/04 06/26/04 06/26/04 06/26/04 06/26/04 06/26/04 06/26/04

Mesquite Wtr Virgin Vly 25 Mesquite Wtr Virgin Vly 25	36.80833 -114.072 36.80833 -114.072			7.6 7.6	-12.85 -12.85	-98.9 -98.9	55.0 55.0	34.0 34.0	210.0 210.0	9.3 9.3	160.0 160.0	210.0 210.0	300.0 300.0	28.0 28.0	1.2 1.2	152 152		GS54 GS54	Well Well	79 79	08/18/94 08/18/94
Moapa Well Moapa Well	36.53139 -114.796 36.53139 -114.796				-13.40 -13.40	-99.0 -99.0										999 999		TH-1 TH-1	Well Well	41 41	04/07/00 04/07/00
Mike's Spring Mike's Spring	39.643701 -114.204 39.643701 -114.204		6.4 6.4	6.77 6.77	-15.89 -15.89	-121.1 -121.1	61.9 61.9	18.9 18.9	31.8 31.8	1.81 1.81	29.2 29.2	246 246	34.8 34.8	27.5 27.5	0.35 0.35	63272 63272			Spring Spring	390 390	23-Aug-05 23-Aug-05
Mirant Mirant	36.418611 -114.957 36.418611 -114.957				-13.23 -13.23	-96.8 -96.8										USGS USGS		618 618	Well Well	622 622	6/4/2003 6/4/2003
Monitoring Spring WR1 Monitoring Spring WR1	$\begin{array}{rrrr} 38,94903 & -115,410\\ 38,94903 & -115,410\\ 38,94903 & -115,410\\ 38,94903 & -115,410\\ 38,94903 & -115,410\\ 38,94903 & -115,410\\ 38,94903 & -115,410\\ 38,949510 & -115,408\\ 38,949510 & -115,408\\ 38,949510 & -115,408\\ 38,949510 & -115,408\\ 38,949510 & -115,408\\ 38,949510 & -115,408\\ 38,949510 & -115,408\\ 38,949510 & -115,408\\ 38,949510 & -115,408\\ 38,949510 & -115,408\\ 38,949510 & -115,408\\ 38,949510 & -115,408\\ 38,949510 & -115,408\\ 38,949510 & -115,408\\ 38,949510 & -115,408\\ 38,949510 & -115,408\\ 38,949510 & -15,408\\ 38,949510 & -15,408\\ 38,949510 & -15,408\\ 38,949510 & -15,408\\ 38,949510 & -15,408\\ 38,949510 & -15,408\\ 38,949510 & -15,408\\ 38,949510 & -15,408\\ 38,949510 & -15,408\\ 38,949510 & -15,408\\ 38,949510 & -15,408\\ 38,945$	8 6.0 8 6.7 8 7.3 8 5.0 8 6.4 8 5.9 8 5.7 30 5.7 30 5.7 30 - 30 - 30 5.6 30 5.9	8.7 8.5 9.7 10.1 8.6 9.4 9.79 8.11 9.22 - 8.36 8.31 NA 9.0	7.5 7.5 8.0 7.4 8.1 6.6 6.8 7.2 7.51 7.38 - 7.51 7.38 - 7.20 7.24 7.4	-15.58 -15.32 -15.62 -15.51 -15.55 -15.63 -15.63 -15.69 -15.38 -15.63 -15.64 -15.67 -15.61 -15.58	-111.2 -113.3 -114.0 -115.7 -115.1 -115.1 -113.8 -113.8 -113.8 -113.8 -113.8 -113.8 -114.1 -114.7 -114.5 -114.6 -113.7	56.7 76.0 60.5 60.8 62.0 59.1 57.2 55.7 59.1 - 56.2 56.0 64.9 60.4	10.0 7.7 9.9 10.9 10.7 9.81 10.1 9.83 6.32 - 10.1 10.2 8.57 9.5	2.5 2.7 2.1 3.2 2.8 2.38 2.34 2.45 1.89 - 2.41 2.48 2.36 2.5	0.6 0.7 0.5 1.0 0.8 0.63 0.64 0.64 0.64 0.62 0.61 0.6	1.1 1.1 1.0 1.2 1.3 1.1 1.2 1.2 1.2 1.0 - 1.3 1.2 0.9 1.2	229.0 259.0 219.0 231.0 227.0 224.0 211 208 199 - 217 209 244 223.1	4.3 3.3 4.2 4.5 4.3 4.5 4.7 2.4 - 4.8 4.6 3.6 4.1	7.4 9.0 7.8 7.5 7.4 7.6 7.4 7.3 7.3 7.39 7.28 7.1 7.6	 0.52 0.11 <.1 0.05 - 0.05 0.06 0.06 0.1	57694 59578 60784 61478 62632A 63218 64235 64733 65365 65743 65743	5	DRI-WP-1 DRI-WP-1 WP-1 WP-1 WP-1 WP-1 WP-1 WP-1	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	320 320 320 320 320 320 320 320 320 320	10/12/03 03/23/04 06/21/04 09/22/04 01/21/05 05/21/05 05/21/05 05/21/05 05/24/06 05/22/06 05/22/06 05/22/06 05/20/06 11/15/06 5/6/2007
Moon River Spring Moon River Spring	38.35167 -115.180 38.35167 -115.180		2.3 2.3	7.4 7.4	-15.80 -15.80	-120.0 -120.0	55.0 55.0	22.0 22.0	22.0 22.0	4.4 4.4	9.3 9.3	260.0 260.0	44.0 44.0	25.0 25.0	1.2 1.2	362 362		GS145 GS145	Spring Spring	192 192	04/27/82 04/27/82
Moorman Spring Moorman Spring	38.59472 -115.138 38.59472 -115.138		1.7 1.7	7.0 7.0	-15.70 -15.70	-119.0 -119.0	58.0 58.0	19.0 19.0	24.0 24.0	5.9 5.9	9.9 9.9		47.0 47.0	27.0 27.0	1.3 1.3	405 405		GS185 GS185	Spring Spring	205 205	07/18/81 07/18/81
Mormon Well Spring Mormon Well Spring Mormon Well Spring Mormon Well Spring	36.64389 -115.097 36.64389 -115.097 36.64389 -115.097 36.64389 -115.097 36.64389 -115.097	8 10.0 8 12.0	5.1 5.1	7.3 7.6 7.4 7.4	-12.90 -12.50 -12.60 -12.67	-92.5 -91.0 -92.0 -91.8	81.0 65.0 84.0 76.7	40.0 41.0 44.0 41.7	11.0 12.0 13.0 12.0	0.4 1.0 0.5 0.6	24.0 12.0 12.0 16.0	395.0 395.0	21.0 23.0 22.0	16.0 16.0 17.0 16.3	0.1 0.1 0.2 0.1	94 95 96		GS32 GS33 GS34	Spring Spring Spring Spring	53 53 53 53	10/27/81 05/09/83 10/07/87
Mud Spring (Buck Mts) Mud Spring (Buck Mts)	39.73587 -115.570 39.73587 -115.570		9.4 9.4	6.9 6.9	-15.21 -15.21	-117.6 -117.6									-	62705 62705		DRI-BK-1 DRI-BK-1	Spring Spring	339 339	06/05/05 06/05/05
Mud Sp Barcass 34 (Snake Range) Mud Sp Barcass 34 (Snake Range)	39.325706 -114.267 39.325706 -114.267		7.51 7.51	7.13 7.13	-15.43 -15.43	-117.1 -117.1	73.4 73.4	14.5 14.5	3.02 3.02	0.64 0.64	2.5 2.5	287 287	5.4 5.4	10.0 10.0	<.05 <.05	63528 63528	1 1		Spring Spring	404 404	25-Oct-05 25-Oct-05
Mud Spring Mud Spring	39.081603 -114.9724 39.081603 -114.9724		5.02 5.02	7.31 7.31	-14.53 -14.53	-111.0 -111.0	62.4 62.4	11.2 11.2	14.1 14.1	0.57 0.57	8.6 8.6	235 235	18.4 18.4	15.2 15.2	0.11 0.11	65055 65055		ER-29 ER-29	Spring Spring	446 446	07/13/06 07/13/06
Murphy Spring Murphy Spring	38.33973 -115.449 38.33973 -115.449		8.7 8.7	6.7 6.7	-15.40 -15.40	-114.5 -114.5										62833 62833			Spring Spring	373 373	07/02/05 07/02/05
Mustang Spring Mustang Spring Mustang Spring	37.73553 -114.921) 37.73553 -114.921) 37.73553 -114.921)	6 13.4	3.4 6.2 4.8	7.0 6.8 6.9	-12.60 -12.37 -12.49	-91.0 -90.0 -90.5	111.0 105.0 108.0	8.0 7.8 7.9	17.3 18.4 17.9	6.5 6.8 6.6	11.4 9.9 10.7	346.0 319.0 332.5	58.0 61.6 59.8	58.0 62.1 60.1	 #DIV/0!	277 59691	1	K6	Spring Spring Spring	135 135 135	01/14/85 03/24/04
Mustang Spring (Snake) Mustang Spring (Snake)	38.86257 -114.271 38.86257 -114.271		8.4 8.4	7.1 7.1	-15.30 -15.30	-111.0 -111.0	68.0 68.0	4.6 4.6	1.3 1.3	0.4 0.4	0.8 0.8	5.5 5.5	218.0 218.0	5.7 5.7	2.18 2.18	62915 62915		SN-6 SN-6	Spring Spring	382 382	07/14/05 07/14/05
MVW above Eagle Canyon MVW above Eagle Canyon	38.02778 -114.185 38.02778 -114.185			8.2 8.2	-12.00 -12.00	-93.0 -93.0										328 328		E6 E6	Surface Surface	168 168	04/09/85 04/09/85
Narrow Canyon Spring Narrow Canyon Spring	37.36729 -114.678 37.36729 -114.678		5.8 5.8	7.2 7.2	-12.47 -12.47	-92.5 -92.5	61.9 61.9	12.7 12.7	17.7 17.7	1.9 1.9	17.9 17.9	228.0 228.0	20.8 20.8	47.2 47.2	-	59683 59683	1 1		Spring Spring	257 257	03/22/04 03/22/04
Nellis AFB #4 Nellis AFB #4	36.24889 -115.004 36.24889 -115.004	-			-13.20 -13.20	-95.0 -95.0										20 20		PLC36 PLC36	Well Well	13 13	-
Nellis AFB Well #13 Nellis AFB Well #13	36.21222 -115.050 36.21222 -115.050				-13.80 - 13.80	-98.0 -98.0										18 18		PLC34 PLC34	Well Well	11 11	-
Newels Spring Newels Spring	37.902479 -114.0320 37.902479 -114.0320		7.17 7.17	7.74 7.74	-12.48 -12.48	-96.0 -96.0	88.0 88.0	16.9 16.9	22.6 22.6	2.39 2.39	39 39	289 289	36.5 36.5	36.1 36.1	0.46 0.46	64909 64909		MG-6 MG-6	Spring Spring	423 423	06/22/06 06/22/06
Nicholas Spring Nicholas Spring	38.91062 -115.061 38.91062 -115.061		3.4 3.4	7.8 7.8	-16.10 -16.10	-124.0 -124.0	42.0 42.0	19.0 19.0	13.0 13.0	3.3 3.3	24.0 24.0	180.0 180.0	40.0 40.0	20.0 20.0	0.6 0.6	440 440		GS219 GS219	Spring Spring	227 227	04/27/82 04/27/82
North Creek Spring North Creek Spring	38.71056 -114.730 38.71056 -114.730			6.9 6.9	-14.60 -14.60	-105.0 -105.0	9.1 9.1	1.6 1.6	2.2 2.2	0.9 0.9	1.3 1.3	25.0 25.0	3.8 3.8	12.0 12.0	0.4 0.4	420 420		GS198 GS198	Spring Spring	214 214	04/03/85 04/03/85
North Lee Well North Lee Well	37.82444 -114.384 37.82444 -114.384			8.0 8.0	-13.30 -13.30	-101.0 -101.0	59.0 59.0	12.0 12.0	44.0 44.0	9.9 9.9	48.0 48.0	220.0 220.0	33.0 33.0	54.0 54.0	1.0 1.0	299 299		GS109 GS109	Well Well	147 147	06/04/85 06/04/85
North Spring North Springs North Spring	39.15611 -114.963 39.154903 -114.9627 39.15551 -114.9625	77 6.3	7.14 7.14000	7.42 7.42000	-15.00 -15.21 -15.11	-113.0 -111.7 -112.4	54.3 54.30000	9.63 9.63000	3.44 3.44000	0.52 0.52000	4.2 1.4 2.80000	201 201.00000	10.7 10.70000	9.3 9.30000	0.10 0.10000	459 65041 459		GS245 ER-15 GS245	Spring Spring Spring	237 432 237	06/17/83 07/12/06 06/17/83

Oak Spring Oak Spring	37.60547 -114.71015 37.60547 -114.71015	10.5 10.5	7.1 7.1	7.1 7.1	-11.87 -11.87	-90.0 -90.0	84.9 84.9	16.5 16.5	64.1 64.1	2.0 2.0	41.1 41.1	355.0 355.0	34.2 34.2	56.5 56.5	-	58502 58502	1 1		Spring Spring	269 269	01/16/04 01/16/04
Ox Valley Spring Ox Valley Spring	37.970526 -114.059658 37.970526 -114.059658	8.8 8.8	6.03 6.03	7.02 7.02	-13.95 -13.95	-100.0 -100.0	37.5 37.5	6.97 6.97	5.23 5.23	0.50 0.50	4.6 4.6	118 118	25.0 25.0	12.4 12.4	0.63 0.63	64908 64908		MG-5 MG-5	Spring Spring	422 422	06/22/06 06/22/06
Oxborrow Well Oxborrow Well	37.88611 -114.30472 37.88611 -114.30472	11.5 11.5		7.9 7.9	-11.80 -11.80	-92.0 -92.0	130.0 130.0	22.0 22.0	65.0 65.0	11.0 11.0	140.0 140.0	351.0 351.0	63.0 63.0	58.0 58.0	0.8 0.8	303 303		GS112 GS112	Well Well	150 150	06/05/85 06/05/85
Pahroc Spring Pahroc Spring	37.66466 -114.98065 37.66466 -114.98065 37.66466 -114.98065	16.0 14.4 16.0	0.8 5.7	7.6 7.4	-12.50 -12.65 -12.79	-89.0 -94.0 -93.5	30.9 25.6	8.3 6.7	12.3 40.1 12.7	5.6 5.7	11.7 13.1	135.0 169.0 134.0	11.4 12.9 12.8	59.0 66.8 62.1		272 58494 61106C	1	K5 DRI-PR-1	Spring Spring	131 131 131	01/14/85 01/16/04 04/30/05
Pahroc Spring Pahroc Spring	37.66466 -114.98065	15.5	7.3 4.6	6.6 7.2	-12.65	-92.2	31.3 29.3	8.3 7.8	21.7	5.2 5.5	12.6 12.5	134.0 146.0	12.4	62.6	#DIV/0!				Spring Spring	131	
Panaca Spring Panaca Spring Panaca Spring	37.80754 -114.38086 37.80754 -114.38086 37.80754 -114.38086	29.0 29.5 28.5	5.6 6.2	7.8 7.9 7.8	-13.90 -14.00 -14.20	-106.0 -108.0 -106.5	32.0 34.0 33.0	9.8 10.0 10.0	36.0 38.0 37.0	6.8 7.1 6.7	15.0 16.0 17.0		29.0 25.0 27.0	45.0 50.0 48.0	1.6 1.5 1.4	294 292 293		GS107 GS105 GS106	Spring Spring Spring	144 144 144	04/26/84 04/08/85 11/11/86
Panaca Spring Panaca Spring	37.80754 -114.38086 37.80754 -114.38086	28.4	4.0	7.8	-14.11	-107.0 -107.4	32.4	10.4	38.0	7.4	17.8	176.0	30.4	52.4		293 61619		DRI	Spring	144 144	11/11/86 10/20/04
Panaca Spring	37.80754 -114.38086	28.6	5.4	7.7	-14.25	-107.9	32.6	10.4	37.9	7.2	17.3	177.0	29.3	49.7	-	61969	2		Spring	144	01/24/05
Panaca Spring Panaca Spring	37.80754 -114.38086 37.80754 -114.38086	28.3 28.9	4.7 4.4	7.0 7.0	-14.15 -14.17	-107.1 -106.4										62626 63231		DRI-MW-1 DRI-MW-1	Spring Spring	144 144	05/20/05 08/16/05
Panaca Spring	37.80754 -114.38086	28.7	4.6	7.6	-14.18	-106.8	30.0	10.3	37.6	7.00	17.4	179	29.1	49.0	1.42	63571			Spring	144	9-Nov-05
Panaca Spring	37.80754 -114.38086	28.8	4.15	7.71	-14.20	-105.8	34.2	10.2	37.9	6.97	17.9	178	29.7	48.8	1.50	64169		MW-1	Spring	144	02/17/06
Panaca Spring Panaca Spring	37.80754 -114.38086 37.80754 -114.38086	28.8 29.10	5.9 5.85	7.8 7.67	-14.17 -14.24	-107.1 -107.0	32.6 32.6	9.97 10.2	37.0 34.6	9.66 6.06	18.2 17.8	180 184	30.7 30.5	50.2 49.8	1.48 1.51	64743 65289		MW-1 MW-1	Spring Spring	144 144	05/22/06 08/23/06
Panaca Spring	37.80754 -114.38086	28.9	4.43	7.62	-14.14	-106.9	32.7	10.0	37.0	1.74	17.3	175	29.8	49.9	1.52	65654		MW-1	Spring	144	10/28/06
Panaca Spring	37.80754 -114.38086	28.8	5.0	7.6	-14.14	-106.9	32.6	10.1	37.1	6.7	17.2	178.4	29.1	49.3	1.5				Spring	144	
Panaca Town Well Panaca Town Well	37.79722 -114.39917 37.79722 -114.39917	29.5 29.5		7.9 7.9	-14.00 -14.00	-106.0 -106.0	45.0 45.0	1.0 1.0	47.0 47.0	8.3 8.3	19.0 19.0	203.0 203.0	68.0 68.0	58.0 58.0	1.8 1.8	291 291		E16 E16	Well Well	143 143	06/04/85 06/04/85
Parsnip Spring Parsnip Spring	38.14944 -114.26250 38.14944 -114.26250	19.0 19.0		7.7 7.7	-12.80 -12.80	-93.5 -93.5	16.0 16.0	3.0 3.0	12.0 12.0	2.2 2.2	7.5 7.5	70.0 70.0	9.1 9.1	41.0 41.0	0.1 0.1	344 344		GS134 GS134	Spring Spring	180 180	06/05/85 06/05/85
Patterson Pass Spring WR3	38.60280 -114.71481	12.0	6.0	6.6	-14.91	-106.5	58.4	9.0	22.4	0.3	10.6	230.0	23.2	17.5		57755			Spring	305	10/30/03
Patterson Pass Spring WR3 (duplicate sample) Patterson Pass Spring WR3	38.60280 -114.71481 38.60280 -114.71481	11.8	3.6	6.1	-14.94 -16.25	-109.2 -114.4	19.5	3.8	2.0		0.9	68.6	9.6	10.8	-	57755 59579	5	DRI-SC-2	Spring Spring	305 305	10/30/03 03/24/04
Patterson Pass Spring WR3	38.60280 -114.71481	11.5	6.2	7.1	-14.84	-109.1	19.5	4.6	3.0	1.4	1.2	67.0	9.8	11.1	-	60786		DRI-SC-2	Spring	305	06/23/04
Patterson Pass Spring WR3	38.60280 -114.71481	12.0	5.9	7.5	-14.79	-107.9	18.5	3.9	1.9	1.4	0.9	66.5	9.4	10.2		61480		DRI-SC-2	Spring	305	09/23/04
Patterson Pass Spring WR3 Patterson Pass Spring WR3	38.60280 -114.71481 38.60280 -114.71481	11.7 11.4	5.5 6.0	6.8 6.7	-14.77 -14.71	-108.3 -106.8	20.5	4.1	2.2	1.5	1.2	71.6	9.8	10.5		61967 61481		DRI-SC-2 DRI-SC-2	Spring Spring	305 305	01/23/05 05/20/05
Patterson Pass Spring WR3	38.60280 -114.71481	11.4	0.0	0.7	-14.83	-107.6	18.8	3.66	1.89	1.41	1.0	65.5	8.7	10.1	0.73	63220		DRI-SC-2	Spring	305	08/15/05
Patterson Pass Spring WR3	38.60280 -114.71481	12.1	6.08	6.97	-14.87	-107.5	19.3	3.74	1.90	1.35	1.1	63.8	8.7	10.0	0.44	63566			Spring		11/07/05
Patterson Pass Spring WR3 Patterson Pass Spring WR3	38.602800 -114.714880 38.602800 -114.714880	11.8 12.2	7.09 6.80	6.78 6.87	-14.91 -14.89	-108.1 -108.4	19.6 19.2	3.82 3.81	1.86 2.07	1.23 1.43	1.1 1.0	65.9 66.3	9.1 8.8	10.2 10.1	0.46 0.47	65371 65653		SC-2 SC-2	Spring Spring	305 305	08/31/06 10/28/06
Patterson Pass Spring WR3	38.602800 -114.714880	11.9	6.38	6.52	-14.89	-106.9	19.2	3.68	1.86	1.43	1.2	65.0	8.8	10.1	0.46	64239		SC-2	Spring	305	02/26/06
Patterson Pass Spring WR3	38.602800 -114.714880	11.7	7.47	6.95	-14.86	-108.5	19.2	3.80	2.2	1.20	1.2	67.2	9.1	10.2	0.47	64738		SC-2	Spring	305	05/23/06
Patterson Pass Spring WR3	38.602800 -114.714880 38.602800 -114.714880	-	-	-	-14.86 -14.96	-107.9 -108.5	-	-	-	-	-	- 69.0	- 8.4	- 9.59	-			SC-2	Spring	305 305	07/14/06
Patterson Pass Spring WR3 Patterson Pass Spring WR3	38.60280 -114.71480	11.7 11.8	NA 6.1	6.6 6.8	-14.90	-108.5	19.9 22.7	3.82 4.3	1.99 3.8	1.40 1.3	1.0 1.9	66.9	0.4 10.3	9.59	0.47 0.5	65653		SC-2	Spring Spring	305	5/7/2007
	00.05444 444.00070				40.40	70.5										170		0000			00/00/04
Peach Spring Peach Spring	36.95444 -114.28972 36.95444 -114.28972	15.1 15.1			-10.40 -10.40	-76.5 -76.5										173 173		GS62 GS62	Spring Spring	88 88	02/06/84 02/06/84
Pederson's East Pederson's East	36.70933 -114.71556 36.70933 -114.71556	32.0 31.9	2.4 2.7	7.3 7.4	-12.92 -12.92	-97.0 -97.0	64.3 64.6	28.5 27.6	96.4 94.2	11.6 11.1	66.1 61.4	255.0 264.0	178.0 181.0	30.3 29.1		58497 60307		DRI-MV-2 DRI-MV-2	Spring Spring	290 290	01/12/04 05/18/04
Pederson's East	36.70933 -114.71556	31.5	2.1	7.4	-12.92	-98.4	68.2	28.3	94.0	11.3	61.5	257.0	178.0	31.2		61613		DRI-MV-2	Spring	290	10/19/04
Pederson's East	36.70933 -114.71556	31.2	3.2	7.4	-12.89	-98.3	64.4	27.7	95.6	11.2	62.0	253.0	181.0	29.5		62032	4	DRI-MV-2	Spring	290	02/10/05
Pederson's East Pederson East	36.70933 -114.71556 36.709330 -114.715560	32.0 31.6	3.0 2.7	6.8 7.32	-12.96 -13.00	-98.3 -97.5	64.8	27.7	95.7	10.1	61.0	254	180	29.1	 2.19	62033 64173		DRI-MV-2 MV-2	Spring Spring	290 290	06/08/05 02/16/06
Pederson East	36.709330 -114.715560	31.7	2.65	7.28	-13.02	-97.7	63.4	27.3	92.7	11.1	61.7	253	182	29.4	2.19	64901		MV-2	Spring	290	06/21/06
Pederson East	36.709330 -114.715560	32.00	2.76	7.25	-13.06	-97.4	64.8	28.1	86.0	9.64	61.8	257	183	29.1	2.16	65287		MV-2	Spring	290	08/23/06
Pederson East Pederson's East	36.709330 -114.715560 36.70933 -114.71556	31.9 31.8	2.63 2.8	7.30 7.3	-13.03 - 12.98	-98.7 -97.8	63.9 64.8	27.8 27.9	93.3 93.5	11.0 10.9	59.3 61.9	253 255.8	179 180.3	29.0 29.6	2.20 2.2	65663		MV-2	Spring Spring	290 290	10/30/06
Pederson's Warm Spring (M-13) Pederson's Warm Spring (M-13)	36.70958 -114.71594 36.70958 -114.71594					-98.0 -97.0										113.2 113.2		jim iim	Spring Spring	67 67	1/00/69 3/00/70
Pederson's Warm Spring (M-13)	36.70958 -114.71594	32.5		7.2	-12.90	-96.5	66.0	26.0	96.0	10.0	61.0	270.0	190.0	62.1	2.1	113		IT249	Spring	67	07/22/81
Pederson's Warm Spring (M-13)	36.70958 -114.71594				-12.75	-97.0										118		PLC17	Spring	67	10/30/85
Pederson's Warm Spring (M-13) Pederson's Warm Spring (M-13)	36.70958 -114.71594 36.70958 -114.71594				-13.05 -12.85	-99.0 -96.9										115 USGS		IT251	Spring spring	67	01/07/88 7/30/2003
Pederson's Warm Spring (M-13)	36.70958 -114.71594	31.6	2.2	7.3	-12.00	-97.2	65.3	28.4	99.2	11.4	67.7	261.0	189.0	28.4		58488		DRI-MV-1	Spring	67	01/12/04
Pederson's Warm Spring (M-13)	36.70958 -114.71594	31.1	3.8	7.4	-12.85	-97.5	65.4	27.8	97.2	10.9	65.9	265.0	184.0	29.2		60306		DRI-MV-1	Spring	67	05/18/04
Pederson's Warm Spring (M-13)	36.70958 -114.71594 36.70958 -114.71594	31.2	3.0	7.3	-12.92 -12.91	-97.4 -98.0	64.5 64.8	27.8 27.4	97.2 98.8	11.0 10.9	63.0 63.2	257.0 256.0	183.0 186.0	30.6 29.8		61617 62031	4	DRI-MV-1 DRI-MV-1	Spring Spring	67 67	10/19/04 02/10/05
Pederson's Warm Spring (M-13)		31.9	3.6	7.0	-12.91	-97.6	01.0			.5.5		200.0		20.0		62032	-	DRI-MV-1	Spring	67	06/08/05
Pederson's Warm Spring (M-13) Pederson's Warm Spring (M-13)	36.70958 -114.71594		2.65	7.34	-13.02	-97.2 -98.1	66.6 64.1	27.7	99.2	10.6	62.4	255	185 186	29.4	2.20	64172 64900		MV-1	Spring	67	02/16/06
Pederson's Warm Spring (M-13) Pederson's Warm Spring (M-13)	36.709580 -114.715940	31.3		7 00																	
Pederson's Warm Spring (M-13) Pederson's Warm Spring (M-13) Pederson's Warm Spring (M-13)		31.3 31.6 31.80	4.3 2.92	7.39 7.24	-12.98 -13.01		65.3	27.2 28.2	95.2 90.0	10.9 9.3	62.9 63.7	255 251	186	29.1 29.2	2.18 2.15	65286		MV-1 MV-1	Spring Spring	67 67	06/21/06 08/23/06
Pederson's Warm Spring (M-13) Pederson's Warm Spring (M-13) Pederson's Warm Spring (M-13) Pederson's Warm Spring (M-13) Pederson's Warm Spring (M-13)	36.709580-114.71594036.709580-114.71594036.709580-114.71594036.709580-114.715940	31.6 31.80 31.5	4.3 2.92 2.33	7.24 7.35	-13.01 -13.04	-97.7 -97.3	65.3 64.8	28.2 27.8	90.0 97.0	9.3 10.9	63.7 61.3	251 254	187 184	29.2 28.8	2.15 2.23	01000			Spring Spring	67 67	
Pederson's Warm Spring (M-13) Pederson's Warm Spring (M-13) Pederson's Warm Spring (M-13) Pederson's Warm Spring (M-13)	36.709580 -114.715940 36.709580 -114.715940 36.709580 -114.715940	31.6 31.80	4.3 2.92	7.24	-13.01	-97.7	65.3	28.2	90.0	9.3	63.7	251	187	29.2	2.15	65286	9	MV-1	Spring	67	08/23/06
Pederson's Warm Spring (M-13) Pederson's Warm Spring (M-13) Pederson's Warm Spring (M-13) Pederson's Warm Spring (M-13) Pederson's Warm Spring (M-13)	36.709580-114.71594036.709580-114.71594036.709580-114.71594036.709580-114.715940	31.6 31.80 31.5	4.3 2.92 2.33	7.24 7.35	-13.01 -13.04	-97.7 -97.3	65.3 64.8	28.2 27.8	90.0 97.0	9.3 10.9	63.7 61.3	251 254	187 184	29.2 28.8	2.15 2.23	65286	9 1 1	MV-1	Spring Spring	67 67	08/23/06

Pine Spring Pine Spring Pine Spring	37.90800 -114.55132 37.90800 -114.55132 37.90800 -114.55132	4.5 4.5	 #DIV/0!	 #DIV/0!	-13.40 -13.33 -13.37	-99.0 -99.0 -99.0	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	312 	1 1 2	GS116	Spring Spring Spring	157 157 157	04/07/85 06/24/04
Pine Springs (Egan Range) Pine Springs (Egan Range)	39.117546 -114.944249 39.117546 -114.944249	8.7 8.7	7.9 7.9	7.9 7.9	-15.71 -15.71	-116.0 -116.0	71.1 71.1	9.58 9.58	3.69 3.69	0.46 0.46	0.7 0.7	246 246	13.9 13.9	10.9 10.9	0.10 0.10	65043 65043		ER-17 ER-17	Spring Spring	434 434	07/12/06 07/12/06
Preston Big Spring Preston Big Spring	38.9331 -115.08222 38.9331 -115.08222 38.9331 -115.08222 38.9331 -115.08222 38.9331 -115.08222 38.9331 -115.08222 38.9331 -115.08222 38.9331 -115.08222 38.93310 -115.08220 38.93310 -115.08220 38.93310 -115.08220 38.93311 -115.08222 38.93311 -115.08222	21.0 22.0 21.2 20.8 21.1 21.1 20.9 21.3 - 21 21.0 21.1	3.1 3.1 2.6 3.1 3.0 2.6 3.79 - 2.7 3.04 3.0	7.7 7.3 7.6 7.5 7.0 7.77 7.66 - 7.54 7.66 7.6	-15.60 -15.90 -15.87 -15.89 -15.86 -15.88 -15.88 -15.95 -15.98 -15.98 -15.88 -15.88 -15.88	-126.0 -123.0 -122.6 -122.4 -120.0 -121.2 -120.4 -121.8 -121.7 -121.6 -120.9 -122.0	44.0 45.0 40.7 41.9 41.6 	20.0 20.0 19.4 19.8 19.6 19.2 - 19.7 19.6 19.7	13.0 13.0 13.6 13.0 12.6 13.2 - 12.5 12.7 13.0	2.9 3.0 3.1 3.2 3.08 3.16 - 2.94 3.16 3.1	14.0 15.0 15.9 16.0 15.8 16.5 - 16.1 15.6 15.6	185.0 182.0 176.0 174 175 - 183 174 178.4	36.0 38.0 37.7 38.1 38.1 39.9 - 39.6 39.0 38.3	20.0 19.0 19.9 19.9 20.0 20.4 - 19.9 19.8 19.9	0.4 0.34 0.36 - 0.35 0.36 0.4	450 452 61483 61968 62627 63267 63563 64735 65366 65652	2	GS224 GS226 DRI-WV-1 DRI-WV-1 DRI-WV-1 DRI-WV-1 WV-1 WV-1 WV-1	Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	231 231 231 231 231 231 231 231 231 231	06/16/83 06/26/84 09/25/04 01/24/05 05/21/05 05/21/05 05/20/06 05/20/06 07/12/06 08/29/06 10/27/06
Quaking Aspen Spring Quaking Aspen Spring	37.37563 -114.24255 37.37563 -114.24255	9.6 9.6	3.2 3.2	6.2 6.2	-12.98 -12.98	-93.6 -93.6	13.8 13.8	3.7 3.7	11.4 11.4	1.5 1.5	4.1 4.1	83.3 83.3	2.1 2.1	49.6 49.6		61100 61100	1 1		Spring Spring	255 255	07/31/04 07/31/04
Rabbit Brush Rabbit Brush	39.18383 -114.27363 39.18383 -114.27363	-	-		-15.50 -15.50	-117.1 -117.1											1.00 1.00		Spring Spring	412 412	26-Oct-05 26-Oct-05
Railroad Well Railroad Well	37.35111 -114.53389 37.35111 -114.53389	16.0 16.0		7.6 7.6	-11.60 -11.60	-86.0 -86.0	42.0 42.0	14.0 14.0	98.0 98.0	8.8 8.8	42.0 42.0	300.0 300.0	60.0 60.0	51.0 51.0	2.3 2.3	204 204		GS77 GS77	Well Well	103 103	01/31/84 01/31/84
Railroad Well (Farrier, NV) Railroad Well (Farrier, NV)	36.81361 -114.65389 36.81361 -114.65389	22.8 22.8		8.0 8.0	-12.50 -12.50	-97.5 -97.5	84.0 84.0	31.0 31.0	150.0 150.0	19.0 19.0	52.0 52.0	64.0 64.0	550.0 550.0	23.0 23.0	1.6 1.6	154 154		USGS USGS	Well Well	80 80	02/04/84 02/04/84
Raised Sp Barcass 36 Raised Sp Barcass 36	38.972591 -114.370414 38.972591 -114.370414	10.8 10.8	7.62 7.62	6.07 6.07	-13.54 -13.54	-103.7 -103.7	7.01 7.01	1.77 1.77	2.38 2.38	0.66 0.66	1.0 1.0	31.2 31.2	2.4 2.4	11.4 11.4	0.05 0.05	63532 63532	1 1		Spring Spring	407 407	27-Oct-05 27-Oct-05
Ram. Res. Wtr Supply Well Ram. Res. Wtr Supply Well	39.74333 -115.45111 39.74333 -115.45111	11.9 11.9	50.0 50.0	8.0 8.0	-16.75 -16.75	-129.5 -129.5						155.0 155.0				470 470		GS261 GS261	Well Well	244 244	07/19/85 07/19/85
Ramone Mathews Well Ramone Mathews Well	37.52667 -114.24417 37.52667 -114.24417	18.5 18.5		7.8 7.8	-12.30 -12.30	-92.0 -92.0	42.0 42.0	6.3 6.3	20.0 20.0	5.9 5.9	15.0 15.0	171.0 171.0	12.0 12.0	61.0 61.0	0.3 0.3	233 233		GS86 GS86	Well Well	115 115	06/03/85 06/03/85
Randono Well Randono Well	37.32389 -114.50222 37.32389 -114.50222	17.2 17.2		7.6 7.6	-11.70 -11.70	-87.5 -87.5	46.0 46.0	14.0 14.0	100.0 100.0	8.4 8.4	44.0 44.0	350.0 350.0	63.0 63.0	54.0 54.0	2.3 2.3	200 200		GS75 GS75	Well Well	100 100	02/03/84 02/03/84
Rattlesnake Spring Rattlesnake Spring	37.82624 -114.93012 37.82624 -114.93012	14.1 14.1	7.4 7.4	7.8 7.8	-12.65 -12.65	-97.3 -97.3	47.6 47.6	7.5 7.5	27.6 27.6	5.2 5.2	16.5 16.5	199.0 199.0	19.3 19.3	52.5 52.5	-	59692 59692	1 1		Spring Spring	302 302	03/24/04 03/24/04
Red Rock Spring Red Rock Spring	37.56698 -114.75320 37.56698 -114.75320	10.0 10.0	-	7.3 7.3	-12.30 -12.30	-95.0 -95.0	85.4 85.4	13.3 13.3	28.4 28.4	2.4 2.4	15.7 15.7	332.0 332.0	16.3 16.3	41.1 41.1	-	58495 58495	1 1		Spring Spring	256 256	01/10/04 01/10/04
Reed Spring Reed Spring	37.55731 -115.41800 37.55731 -115.41800	-	-		-14.24 -14.24	-98.4 -98.4	49.6 49.6	14.2 14.2	13.7 13.7	2.8 2.8	17.3 17.3	199.0 199.0	18.9 18.9	43.9 43.9	-	60843 60843	1 1		Spring Spring	289 289	06/25/04 06/25/04
Ripgut Sp #40 Ripgut Sp #40	38.248018 -114.039204 38.248018 -114.039204	18.7 18.7	5.67 5.67	6.95 6.95	-14.38 -14.38	-106.4 -106.4	25.2 25.2	4.58 4.58	18.2 18.2	8.17 8.17	17.0 17.0	116 116	6.4 6.4	63.5 63.5	0.15 0.15	63598 63598	1 1		Spring Spring	411 411	19-Nov-05 19-Nov-05
Robison Spring Robison Spring	38.21273 -114.70636 38.21273 -114.70636	-	-		-12.34 -12.34	-97.9 -97.9	-				-	-			-		1 1		Spring Spring	279 279	06/29/04 06/29/04
Robbers Roost #2 Spring (Butte) Robbers Roost #2 Spring (Butte)	39.49596 -115.28046 39.49596 -115.28046	12.7 12.7	1.3 1.3	6.2 6.2	-14.39 -14.39	-112.0 -112.0									-	62703 62703		DRI-BT-5 DRI-BT-5	Spring Spring	340 340	06/04/05 06/04/05
Robbers Roost Spring (Schell Ck) Robbers Roost Spring (Schell Ck)	38.77051 -114.78331 38.77051 -114.78331				-14.75 -14.75	-109.7 -109.7	58.8 58.8	27.9 27.9	11.2 11.2	0.56 0.56	7.2 7.2	304.0 304.0	21.7 21.7	14.3 14.3	0.10 0.10	62978 62978		SC-5 SC-5	Spring Spring	389 389	07/31/01 07/31/01
Rock Springs Rock Springs	39.859787 -114.472767 39.859787 -114.472767	9.4 9.4	5.1 5.1	6.05 6.05	-15.17 -15.17	-118.4 -118.4	50.0 50.0	8.01 8.01	12.5 12.5	0.91 0.91	5.8 5.8	188 188	15.7 15.7	38.2 38.2	0.05 0.05	63281 63281	1 1		Spring Spring	399 399	25-Aug-05 25-Aug-05
Rogers Spring Rogers Spring Rogers Spring Rogers Spring	36.37750 -114.44389 36.37750 -114.44389 36.37750 -114.44389 36.37750 -114.44389 36.37750 -114.44389	30.5 30.0 30.0 30.2	2.3 2.6 2.5	7.0 7.5 7.0 7.2	-12.20 -12.40 -12.33	-92.0 -92.0 -91.0 -91.7	410.0 423.0 416.5	140.0 143.0 141.5	280.0 291.0 285.5	21.0 22.7 21.9	330.0 327.0 328.5	161.0 161.0	1600.0 1620.0 1610.0	18.0 16.8 17.4	1.3 1.4 1.4	35 33 32	2	GS10 PL11 PL11	Spring Spring Spring Spring	21 21 21 21	07/21/81 03/19/92 02/08/96
Ryans Spring D 38 Ryans Spring D 38	38.331207 -113.928551 38.331207 -113.928551	8 8	2.2 2.2	7.07 7.07	-13.68 -13.68	-103.5 -103.5	80.8 80.8	8.31 8.31	24.9 24.9	0.91 0.91	41.5 41.5	264 264	22.8 22.8	33.3 33.3	0.09 0.09	63596 63596			Spring Spring	409 409	19-Nov-05 19-Nov-05
Rye Patch Spring Rye Patch Spring	36.57967 -115.30586 36.57967 -115.30586	9.7 9.7	8.1 8.1	7.5 7.5	-12.31 -12.31	-89.3 -89.3	49.5 49.5	24.2 24.2	16.0 16.0	2.0 2.0	17.5 17.5	218.0 218.0	22.0 22.0	13.7 13.7	-	62397 62397		DRI-SR-5 DRI-SR-5	Spring Spring	341 341	04/28/05 04/28/05
Saddle Spring (White Pine) Saddle Spring (White Pine) Saddle Spring (White Pine) Saddle Spring (White Pine)	38.97541 -115.40023 38.97541 -115.40023 38.97541 -115.40023 38.97541 -115.40023	7.6 7.6	6.9 6.9	6.2 6.2	-15.00 -15.66 -15.70 -15.45	-116.0 -118.6 -115.7 -116.8	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	3.1 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	438 62820	1 1 3	GS217 WP-2 WP-2	Spring Spring Spring Spring	225 357 357 357	06/15/83 06/28/05 10/12/03

Sage Hen Spring Sage Hen Spring	39.11533 -115.39212 39.11533 -115.39212	7.7 7.7	7.0 7.0	6.2 6.2	-14.76 -14.76	-112.4 -112.4									-	62714 62714		DRI-WP-9 DRI-WP-9	Spring Spring	342 342	06/06/05 06/06/05
Sand Spring Sand Spring	39.33056 -115.45500 39.33056 -115.45500	13.0 13.0			-16.20 -16.20	-123.0 -123.0										465 465		GS250 GS250	Spring Spring	239 239	07/14/81 07/14/81
Sammy Spring Sammy Spring	39.43597 -115.32453 39.43597 -115.32453	11.6 11.6	6.9 6.9	6.9 6.9	-15.30 -15.30	-117.6 -117.6									-	62628 62628		DRI-BT-2 DRI-BT-2	Spring Spring	343 343	05/24/05 05/24/05
Sandstone Spring Sandstone Spring	36.21111 -114.55667 36.21111 -114.55667	11.0 11.0	2.0 2.0	7.0 7.0	-10.50 -10.50	-79.0 -79.0	209.0 209.0	79.2 79.2	21.9 21.9	5.0 5.0	16.9 16.9	249.0 249.0	725.0 725.0	13.8 13.8		17 17		PL16 PL16	Spring Spring	10 10	02/07/96 02/07/96
Sawmill Spring (Sheep) Sawmill Spring (Sheep)	36.68056 -115.17611 36.68056 -115.17611				-12.85 -12.85	-92.0 -92.0	12.0 12.0	29.0 29.0	1.8 1.8	0.6 0.6	2.1 2.1		5.9 5.9	6.1 6.1	0.2 0.2	101 101		GS36 GS36	Spring Spring	58 58	05/19/88 05/19/88
Sawmill Spring (Delamar Range) Sawmill Spring (Delamar Range)	37.36762 -114.69708 37.36762 -114.69708	10.3 10.3	10.3 10.3	6.9 6.9	-12.58 -12.58	-88.7 -88.7	56.2 56.2	10.4 10.4	18.9 18.9	2.2 2.2	16.6 16.6	220.0 220.0	19.0 19.0	41.7 41.7	-	59685 59685	1 1		Spring Spring	259 259	03/22/04 03/22/04
Sawmill Spring West Sawmill Spring West	37.36734 -114.69749 37.36734 -114.69749	9.7 9.7	6.6 6.6	6.5 6.5	-12.86 -12.86	-91.8 -91.8	33.9 33.9	4.6 4.6	12.1 12.1	2.0 2.0	7.4 7.4	146.0 146.0	7.0 7.0	36.8 36.8	-	59684 59684	1 1		Spring Spring	258 258	03/22/04 03/22/04
Scirpus Spring (No spring on Map) Scirpus Spring (No spring on Map)	36.37694 -114.44917 36.37694 -114.44917	17.0 17.0	0.7 0.7	7.1 7.1	-12.00 -12.00	-90.0 -90.0	513.0 513.0	186.0 186.0	350.0 350.0	25.3 25.3	386.0 386.0	266.0 266.0	2040.0 2040.0	20.4 20.4		30 30		PL12 PL12	Spring Spring	20 20	02/07/96 02/07/96
Scotty Spring Scotty Spring	38.16479 -114.68374 38.16479 -114.68374	14.2 14.2	1.9 1.9	7.1 7.1	-12.73 -12.73	-98.9 -98.9	67.3 67.3	12.6 12.6	23.0 23.0	1.4 1.4	30.7 30.7	254.0 254.0	21.1 21.1	44.6 44.6	-	60846 60846	1 1		Spring Spring	272 272	06/26/04 06/26/04
Seaman Spring Seaman Spring	37.86120 -115.19877 37.86120 -115.19877	-			-13.13 -13.13	-99.0 -99.0	-		-		-	-		-	-		1 1		Spring Spring	306 306	06/25/04 06/25/04
Second Sawmill Spring Second Sawmill Spring	38.87583 -114.89861 38.87583 -114.89861	6.5 6.5			-14.70 -14.70	-110.0 -110.0										431 431		GS212 GS212	Spring Spring	222 222	08/01/85 08/01/85
Secret Spring Secret Spring	38.83889 -115.28972 38.83889 -115.28972				-14.00 -14.00	-110.0 -110.0					11.0 11.0					427 427		GS208 GS208	Spring Spring	220 220	06/16/83 06/16/83
Sheep Spring (Clover) Sheep Spring (Clover) Sheep Spring (Clover)	37.40063 -114.27779 37.40063 -114.27779 37.40063 -114.27779	10.0 18.5 14.3	1.1 1.1	6.8 6.9 6.9	-12.00 -12.06 -12.03	-87.0 -90.5 -88.8	24.0 32.7 28.4	5.0 6.5 5.7	9.8 11.8 10.8	1.3 2.0 1.7	7.9 9.8 8.9	96.0 143.0 119.5	7.0 5.1 6.1	33.0 45.5 39.3	0.7 0.7	209.5 61097 209.5	1	Jim DRI-CR-9	Spring Spring Spring	108 108 108	06/03/85 07/31/04
Sheep Spring (Schell Ck) Sheep Spring (Schell Ck)	38.67611 -114.77667 38.67611 -114.77667	14.0 14.0	6.7 6.7	6.6 6.6	-13.70 -13.70	-99.5 -99.5	8.0 8.0	2.1 2.1	2.8 2.8		1.5 1.5	46.0 46.0	4.1 4.1	14.0 14.0	<.1 <.1	418 418		GS194 GS194	Spring Spring	212 212	08/02/85 08/02/85
Sheep Spring (Sheep Range) Sheep Spring (Sheep Range)	36.89500 -115.11472 36.89500 -115.11472	15.0 15.0	6.5 6.5	7.8 7.8	-13.35 -13.35	-96.0 -96.0	31.0 31.0	40.0 40.0	7.9 7.9	1.1 1.1	7.1 7.1		13.0 13.0	13.0 13.0	0.2 0.2	159		GS57 GS57	Spring Spring	83 83	05/19/88 05/19/88
Shellback Spring Shellback Spring	39.13197 -115.38436 39.13197 -115.38436	7.7 7.7	8.8 8.8	6.5 6.5	-16.54 -16.54	-123.6 -123.6									-	62719		DRI-WP-14 DRI-WP-14	Spring Spring	344 344	06/07/05 06/07/05
Shingle Spring Shingle Spring Shingle Spring	38.53972 -114.93472 38.539585 -114.935526 38.53972 -114.93472	15.0 15.2 15.1	4.34 4.3	7.15 7.2	-13.25 -13.41 -13.33	-103.5 -103.8 -103.7	61.7 61.7	18.8 18.8	15.6 15.6	2.51 2.5	16.2 16.2	260 260.0	23.3 23.3	44.8 44.8	0.17 0.2	388 65048		GS168 ER-22 GS168	Spring Spring Spring	203 439 203	08/03/85 07/13/06 08/03/85
Sidehill Spring Sidehill Spring Sidehill Spring	38.41596 -114.79613 38.41596 -114.79613 38.41596 -114.79613 38.41596 -114.79613	13.0 12.6 12.8	6.3 6.3	6.8 6.8	-13.05 -13.37 -13.21	-100.0 -100.8 -100.4	50.9 50.9	16.6 16.6	12.5 12.5	1.14 1.1	6.9 6.9	242.0 242.0	11.9 11.9	51.4 51.4	0.08 0.1	377 62981		GS160 GS160	Spring Spring Spring	200 200 200	08/02/85 08/01/05
Silver Spring Silver Spring (RS) Silver Spring	38.81085 -114.88121 38.810613 -114.881175 38.81085 -114.88121	9.3 9 9.15	7.84 8.25 8.045	6.72 7.43 7.075	-14.74 -14.68 -14.71	-111.9 -110.8 -111.4	80.6 79.9 80.25	5.42 5.50 5.46	5.40 5.45 5.425	0.66 0.59 0.625	3.5 3.1 3.3	261 255 258	10.3 10.7 10.5	12.5 12.6 12.55	0.09 0.07 0.08	62975 65051 62975		ER-7 ER-25 ER-7	Spring Spring Spring	385 442 385	07/29/05 07/13/06 07/29/05
Sixmile Spring Sixmile Spring	37.49222 -115.08806 37.49222 -115.08806	22.0 22.0		7.9 7.9	-13.06 -13.06	-93.4 -93.4	45.2 45.2	10.6 10.6	16.9 16.9	1.3 1.3	3.2 3.2	207.0 207.0	11.7 11.7	49.6 49.6	0.1 0.1	230		IT151 IT151	Spring Spring	112 112	08/08/95 08/08/95
SK-10 SK-10	38.75000 -115.17000 38.75000 -115.17000					-119.0 -119.0					16.3 16.3					423 423		Kirk110 Kirk110	Well Well	218 218	-
SK-18 SK-18	37.71000 -114.80000 37.71000 -114.80000					-95.0 -95.0					11.3 11.3					276 276		Kirk130 Kirk130	Well Well	134 134	-
Snow Creek Spring (Unnamed Spring in Snow Creek) Snow Creek Spring (Unnamed Spring in Snow Creek)	40.07837 -114.91138 40.07837 -114.91138	7.9 7.9	9.3 9.3	7.2 7.2	-16.22 -16.22	-120.7 -120.7									-	62629A 62629A		DRI-CC-2 DRI-CC-2	Spring Spring	345 345	05/24/05 05/24/05
Snowmelt Below Duckwater Peak Snowmelt Below Duckwater Peak	38.90056 -115.38250 38.90056 -115.38250	10.0 10.0			-14.10 -14.10	-105.0 -105.0					0.6 0.6					437 437		GS216 GS216	Surface Surface	224 224	06/15/83 06/15/83
South Monument Spring South Monument Spring	38.25586 -114.11651 38.25586 -114.11651	9.1 9.1	5.8 5.8	7.1 7.1	-14.23 -14.23	-102.3 -102.3	25.5 25.5	5.6 5.6	12.6 12.6	5.8 5.8	22.5 22.5	101.0 101.0	8.6 8.6	55.5 55.5	-	60318 60318	1 1		Spring Spring	319 319	05/21/04 05/21/04
South Spring (Egan) South Springs South Spring (Egan)	39.14556 -114.97000 39.145258 -114.972867 39.14556 -114.97000	7.0 6.8 6.9	8.83 8.8	7.8 7.8	-15.00 -15.23 -15.12	-111.0 -111.9 -111.5	46.6 46.6	10.9 10.9	5.15 5.2	0.53 0.5	3.0 2.3 2.7	190 190.0	11.2 11.2	9.5 9.5	0.11 0.1	458 65040 458		GS244 ER-14 GS244	Spring Spring Spring	236 431 236	06/17/83 07/12/06 06/17/83
South Spring (Snake) South Spring (Snake)	38.80405 -114.17588 38.80405 -114.17588	9.7 9.7	5.7 5.7	6.9 6.9	-14.70 -14.70	-108.0 -108.0	66.3 66.3	28.8 28.8	2.2 2.2	0.5 0.5	2.6 2.6	3.4 3.4	343.0 343.0	7.6 7.6	0.18 0.18	62917 62917		SN-7 SN-7	Spring Spring	383 383	07/14/05 07/14/05

Spencer Well Spencer Well	37.39500 -115.18028 37.39500 -115.18028	19.0 19.0	7.7 7.7	-13.68	-104.1 -104.1	53.8 53.8	44.0 44.0	119.4 119.4	14.5 14.5	45.9 45.9	466.0 466.0	158.0 158.0	59.8 59.8	1.6 1.6	206 206		IT155	Well Well	106 106	08/06/95 08/06/95
Spring Creek Spring	38.90935 -114.11295	12.9 8.	.1 7.3	-15.40	-113.0	64.2	7.9	6.9	1.2	6.7	12.5	227.0	11.5	1.51	62916		SN-8	Spring	384	07/16/05
Spring Creek Spring Unnamed Spring below Currant Mtn	38.89417 -115.38278	12.9 8. 18.0	.1 7.3	-15.40 -14.00	-113.0 -107.0	64.2	7.9	6.9	1.2	6.7 11.0	12.5	227.0	11.5	1.51	62916 439		SN-8 GS213	Spring Spring	384 226	07/16/05 06/15/83
Unnamed Spring below Currant Mtn Unnamed Spring nr Redd's Cabin Summit	38.89417 -115.38278 38.12512 -114.06920	18.0 8.0	7.9	-14.00	-107.0	92.0	19.0	26.0	2.4	11.0 23.0		25.0	23.0	0.3	439 334		GS213 GS128	Spring Spring	226	06/15/83
Unnamed Spring nr Redd's Cabin Summit Unnamed Spring nr Redd's Cabin Summit	38.12512 -114.06920 38.12512 -114.06920	15.9 7. 12.0 7.	7 7.9	-12.37 -12.44	-93.7 -94.4	93.1 92.6	21.3 20.2	30.9 28.5	1.3 1.9	26.9 25.0	374.0 374.0	31.6 28.3	25.5 24.3	0.3	60315	1	WM-3	Spring Spring	173 173	05/21/04
Unnamed Spring in Schell Creek Range Unnamed Spring in Schell Creek Range Unnamed Spring in Schell Creek Range Unnamed Spring in Schell Creek Range	38.51851 -114.74229 38.51851 -114.74229 38.51851 -114.74229 38.51851 -114.74229	 10.7 6.4 11 3.7		-14.40 -14.46 -14.61 -14.45	-108.1 -105.8 -106.9 -108.3	17.6 56.0 55.6	3.8 8.70 8.58	1.9 23.2 21.4	1.2 0.34 <.1	0.9 11.8 11.5	67.9 210 210	9.5 26.2 25.0	10.8 16.2 15.4	 0.15 0.13	57756 57756 62976 65058	2 1	SC-4 SC-9	Spring Spring Spring Spring	304 304 374 449	10/29/03 10/29/03 07/30/05 07/14/06
Unnamed Spring in Schell Creek Range	38.51851 -114.74229	10.9 5.	.1 7.3	-14.48	-107.3	43.1	7.0	15.5	0.8	8.1	162.6	20.2	14.1	0.1				Spring	304	
Indian Spring near Steward Ranch Indian Spring near Steward Ranch	38.31056 -114.65028 38.31056 -114.65028	8.0 8.0	7.0 7.0	-13.60 -13.60	-102.0 -102.0	38.0 38.0	5.9 5.9	17.0 17.0	0.6 0.6	7.9 7.9	161.0 161.0	12.0 12.0	46.0 46.0	0.2 0.2	357 357		GS141 GS141	Spring Spring	188 188	04/05/85 04/05/85
Stock Well (Delamar Wash) Stock Well (Delamar Wash)	37.34944 -114.75833 37.34944 -114.75833				-88.0 -88.0										1000 1000		GS999 GS999	Well Well	101 101	-
Stove Spring Stove Spring	39.09486 -115.36359 39.09486 -115.36359	9.1 7. 9.1 7.		-15.71 -15.71	-114.5 -114.5									-	62711 62711		DRI-WP-6 DRI-WP-6	Spring Spring	347 347	06/06/05 06/06/05
Summit Spring Summit Spring	39.55109 -115.23000 39.55109 -115.23000	7.7 6. 7.7 6.		-15.94 -15.94	-120.8 -120.8									-	62702 62702		DRI-BT-4 DRI-BT-4	Spring Spring	348 348	06/04/05 06/04/05
Summit Spring (Mahogany Mts.) Summit Spring (Mahogany Mts.)	37.749840 -114.153585 37.749840 -114.153585	13.2 2.0 13.2 2.0		-12.04 -12.04	-92.1 -92.1	107 107	24.4 24.4	57.1 57.1	2.74 2.74	59.4 59.4	422 422	40.8 40.8	55.0 55.0	0.38 0.38	64905 64905		MG-2 MG-2	Spring Spring	419 419	06/21/06 06/21/06
Teaspoon Spring Teaspoon Spring	38.34509 -115.41189 38.34509 -115.41189	11.9 4. 11.9 4.		-13.26 -13.26	-100.0 -100.0										62830 62830			Spring Spring	371 371	06/30/05 06/30/05
The Seeps (Spring) The Seeps (Spring)	37.73944 -115.57556 37.73944 -115.57556	9.0 9.0	7.5 7.5	-13.30 -13.30	-98.0 -98.0	110.0 110.0	25.9 25.9	53.0 53.0	3.9 3.9	41.7 41.7	455.0 455.0	53.4 53.4	55.0 55.0		281 281		K10 K10	Spring Spring	136 136	01/15/85 01/15/85
Thirty Mile Spring Thirty Mile Spring	39.55556 -115.21806 39.55556 -115.21806	8.5 8.5	8.0 8.0	-16.40 -16.40	-126.0 -126.0	29.0 29.0	4.6 4.6	13.0 13.0	2.8 2.8	5.5 5.5	140.0 140.0	7.9 7.9	43.0 43.0	0.2 0.2	468 468		GS256 GS256	Spring Spring	242 242	08/23/83 08/23/83
Tippet Spring Tippet Spring	39.876915 -114.37348 39.876915 -114.37348	21.4 2.7 21.4 2.7		-16.24 -16.24	-121.9 -121.9	54.8 54.8	30.2 30.2	7.65 7.65	1.08 1.08	7.1 7.1	279 279	26.0 26.0	12.0 12.0	0.05 0.05	63276 63276	1 1		Spring Spring	394 394	24-Aug-05 24-Aug-05
Tobe Spring Tobe Spring	38.00609 -114.08980 38.00609 -114.08980	19.8 8. 19.8 8.		-13.04 -13.04	-100.0 -100.0	49.6 49.6	7.8 7.8	25.3 25.3	3.2 3.2	20.9 20.9	89.1 89.1	20.5 20.5	45.6 45.6	-	60312 60312	1 1		Spring Spring	315 315	05/20/04 05/20/04
Tobe Spring 2 Tobe Spring 2	38.00675 -114.08969 38.00675 -114.08969	13.7 4. 13.7 4.		-12.09 -12.09	-93.6 -93.6	38.2 38.2	5.7 5.7	17.1 17.1	3.4 3.4	14.8 14.8	157.0 157.0	7.0 7.0	47.0 47.0	-	60313 60313	1 1		Spring Spring	316 316	05/20/04 05/20/04
Trough Spring Trough Spring	38.36971 -114.96316 38.36971 -114.96316			-13.56 -13.56	-103.6 -103.6											1 1		Spring Spring	413 413	28-Oct_05 28-Oct_05
Tunnel Spring Tunnel Spring	39.35142 -115.44964 39.35142 -115.44964	10.4 5. 10.4 5.		-15.02 -15.02	-118.3 -118.3										62832 62832			Spring Spring	366 366	07/01/05 07/01/05
Twin Spring Twin Spring	37.46996 -115.02371 37.46996 -115.02371	16.9 7. 16.9 7.		-13.24 -13.24	-97.4 -97.4	40.9 40.9	9.5 9.5	17.2 17.2	2.2 2.2	10.4 10.4	190.0 190.0	8.8 8.8	48.6 48.6	-	61104 61104	1 1		Spring Spring	294 294	07/30/04 07/30/04
Unnamed Chokecherry Spring Unnamed Chokecherry Spring	37.53905 -114.70312 37.53905 -114.70312	11.8 6. 11.8 6.		-12.54 -12.54	-98.1 -98.1	23.9 23.9	5.9 5.9	9.3 9.3	1.4 1.4	3.5 3.5	109.0 109.0	7.9 7.9	48.6 48.6	-	59696 59696	1 1		Spring Spring	263 263	03/25/04 03/25/04
Unnamed Hayden Canyon Spring Unnamed Hayden Canyon Spring	39.15147 -115.39264 39.15147 -115.39264	6.9 6. 6.9 6.		-15.69 -15.69	-120.9 -120.9									-	62718 62718		DRI-WP-13 DRI-WP-13	Spring Spring	350 350	06/07/05 06/07/05
Unnamed Near Little Willow Spring Unnamed Near Little Willow Spring	39.72235 -115.60986 39.72235 -115.60986	9.4 8. 9.4 8.		-17.04 -17.04	-125.9 -125.9									-	62707 62707		DRI-BK-3 DRI-BK-3	Spring Spring	351 351	06/05/05 06/05/05
Unnamed Shellback Ridge Spring Unnamed Shellback Ridge Spring	39.14038 -115.38952 39.14038 -115.38952	7.0 0. 7.0 0.		-16.18 -16.18	-123.6 -123.6									-	62720 62720		DRI-WP-15 DRI-WP-15	Spring Spring	352 352	06/07/05 06/07/05
Unnamed Spring (Unnamed Combs Creek Spring) Unnamed Spring (Unnamed Combs Creek Spring)	39.50919 -114.99298 39.50919 -114.99298			-15.63 -15.63	-118.9 -118.9									-	62630 62630		DRI-ER-6 DRI-ER-6	Spring Spring	353 353	05/24/05 05/24/05
Unnamed Spring #3 (Snake) Unnamed Spring #3 (Snake)	38.73321 -114.33335 38.73321 -114.33335	11.7 6. 11.7 6.		-14.10 -14.10	-109.0 -109.0	104.0 104.0	21.4 21.4	44.7 44.7	1.7 1.7	90.1 90.1	70.0 70.0	283.0 283.0	114.0 114.0	0.16 0.16	62920 62920		SN-3 SN-3	Spring Spring	379 379	07/13/05 07/13/05
Unnamed Spring #4 (Snake) Unnamed Spring #4 (Snake)	38.83515 -114.19643 38.83515 -114.19643	6.1 4.9 6.1 4.9		-14.65 -14.65	-107.2 -107.2	131 131	22.3 22.3	6.06 6.06	1.02 1.02	6.6 6.6	474 474	17.9 17.9	11.0 11.0	0.05 0.05	62972 62972		SN-1 SN-1	Spring Spring	376 376	07/28/05 07/28/05
Unnamed Spring #5 (Snake) Unnamed Spring #5 (Snake)	38.85148 -114.17036 38.85148 -114.17036	11.9 5.8 11.9 5. 8		-14.04 -14.04	-106.7 -106.7	58.4 58.4	30.8 30.8	9.34 9.34	1.22 1.22	9.2 9.2	322 322	9.2 9.2	10.9 10.9	0.08 0.08	62973 62973		SN-2 SN-2	Spring Spring	377 377	07/28/05 07/28/05
Unnamed Spring #1 (White Pine)	38.96778 -115.39900	8.3 8.		-15.36	-114.8										62818	1		Spring	359	06/28/05

Unnamed Spring #1 (White Pine)	38.96778 -115.39900	8.3 8.9	6.5	-15.36	-114.8										62818	1		Spring	359	06/28/05
Unnamed Spring #2 (Mahogany Mts)	37.943211 -114.068416	13.4 6.2		-13.47	-100.7	64.1	8.94	12.1	0.89	10.2	210	23.6	21.6	0.67	64907	•	MG-4	Spring	421	06/22/06
Unnamed Spring #2 (Mahogany Mts)	37.943211 -114.068416	13.4 6.2		-13.47	-100.7	64.1	8.94	12.1	0.89	10.2	210	23.6	21.6	0.67	64907		MG-4	Spring	421	06/22/06
Unnamed Spring #1(White Rock Mts) Unnamed Spring #1(White Rock Mts)	38.303410 -114.160379 38.303410 -114.160379	10.4 8.0 ⁻ 10.4 8.0 ⁻		-15.05 -15.05	-109.6 -109.6	47.2 47.2	8.85 8.85	15.9 15.9	0.98 0.98	45.5 45.5	128 128	14.0 14.0	35.5 35.5	0.08 0.08	64897 64897		WM-8 WM-8	Spring Spring	415 415	06/19/06 06/19/06
Unnamed Spring #2 (White Rock Mts) Unnamed Spring #2 (White RockMts)	38.195394 -114.105820 38.195394 -114.105820	11.1 2.82 11.1 2.82		-13.00 -13.00	-97.0 -97.0	29.1 29.1	7.85 7.85	10.4 10.4	0.52 0.52	3.3 3.3	130 130	8.3 8.3	40.7 40.7	0.15 0.15	64899 64899		WM-10 WM-10	Spring Spring	417 417	06/19/06 06/19/06
Unnamed Spring #1(Egan) Unnamed Spring #1(Egan)	39.068946 -114.918846 39.068946 -114.918846	7 6.9 7 6.9	7.11 7.11	-15.14 -15.14	-112.2 -112.2	82.6 82.6	9.14 9.14	4.46 4.46	0.94 0.94	1.6 1.6	277 277	20.9 20.9	11.2 11.2	0.12 0.12	65044 65044		ER-18 ER-18	Spring Spring	435 435	07/12/06 07/12/06
Unnamed Spring #2 (White Pine) Unnamed Spring #2 (White Pine)	38.97696 -115.40065 38.97696 -115.40065	8.7 5.9 8.7 5.9	5.7 5.7	-15.66 -15.66	-114.9 -114.9										62819 62819	1 1		Spring Spring	360 360	06/28/05 06/28/05
Unnamed Spring #2 (Egan Range) Unnamed Spring #2 (Egan Range)	39.045766 -114.924576 39.045766 -114.924576	4.1 7.62 4.1 7.62		-15.14 -15.14	-110.0 -110.0	50.7 50.7	5.87 5.87	3.95 3.95	0.68 0.68	1.0 1.0	182 182	5.8 5.8	9.2 9.2	0.08 0.08	65045 65045		ER-19 ER-19	Spring Spring	436 436	07/12/06 07/12/06
Unnamed Spring #3 (White Pine) Unnamed Spring #3 (White Pine)	38.98418 -115.39037 38.98418 -115.39037	9.8 2.9 9.8 2.9	6.1 6.1	-14.96 -14.96	-113.1 -113.1										62821 62821	1 1		Spring Spring	361 361	06/28/05 06/28/05
Unnamed Spring #3 (Egan Range) Unnamed Spring #3 (Egan Range)	39.056771 -114.926784 39.056771 -114.926784	4.8 8.75 4.8 8.75		-15.07 -15.07	-110.2 -110.2	66.9 66.9	4.69 4.69	3.98 3.98	0.69 0.69	0.9 0.9	221 221	5.5 5.5	10.2 10.2	0.10 0.10	65046 65046		ER-20 ER-20	Spring Spring	437 437	07/12/06 07/12/06
Unnamed Spring #4 (White Pine) Unnamed Spring #4 (White Pine)	39.03633 -115.39347 39.03633 -115.39347	8.1 3.7 8.1 3.7	6.9 6.9	-15.01 -15.01	-116.3 -116.3										62824 62824	1 1		Spring Spring	362 362	06/29/05 06/29/05
Unnamed Spring #4 (Egan Range) Unnamed Spring #4 (Egan Range)	39.085308 -114.921879 39.085308 -114.921879	6.7 8.65 6.7 8.65		-15.37 - 15.37	-114.0 -114.0	65.1 65.1	10.1 10.1	3.38 3.38	0.78 0.78	1.3 1.3	229 229	11.9 11.9	11.5 11.5	0.11 0.11	65047 65047		ER-21 ER-21	Spring Spring	438 438	07/12/06 07/12/06
Unnamed Spring #5 (White Pine)	39.00631 -115.39043	9.0 7.0		-16.01	-120.4										62825	1	WP-13	Spring	363	06/29/05
Unnamed Spring #5 (White Pine) Unnamed Spring #5(RS, White Pine) Unnamed Spring #5 (White Pine)	39.00631 -115.39043 39.006300 -115.390430 39.00631 -115.39043	8.9 6.8 9.0 6.9		-14.04 -16.02 -15.36	-106.7 -120.8 -116.0	62.5 62.5	5.30 5.3	14.8 14.8	1.16 1.2	6.9 6.9	224 224.0	10.6 10.6	30.5 30.5	0.16 0.2	62973 65038	3	WP-13 WP-13 WP-13	Spring Spring Spring	363 428 363	07/28/01 07/11/06
Unnamed Spring #5 (Egan Range) Unnamed Spring #5 (Egan Range)	38.903097 -114.923433 38.903097 -114.923433	7.3 7.13 7.3 7.13		-14.72 -14.72	-109.6 -109.6	93.1 93.1	18.3 18.3	4.39 4.39	0.92 0.92	3.3 3.3	331 331	32.4 32.4	14.0 14.0	0.06 0.06	65054 65054		ER-28 ER-28	Spring Spring	445 445	07/13/06 07/13/06
Unnamed Spring #6 (White Pine)	38.99300 -115.37519	9.1 0.5	6.8	-14.98	-115.1										62826	1		Spring	364	06/29/05
Unnamed Spring #6 (White Pine)	38.99300 -115.37519	9.1 0.5		-14.98	-115.1										62826	1		Spring	364 364	06/29/05
Unnamed Spring #7 (Quinn) Unnamed Spring #7 (Quinn)	38.16152 -115.64159 38.16152 -115.64159	7.4 6.1 7.4 6.1	6.7 6.7	-14.23 -14.23	-105.9 -105.9										62834 62834	1 1		Spring Spring	367 367	07/02/05 07/02/05
Unnamed Spring #8 (Quinn) Unnamed Spring #8 (Quinn)	38.05659 -115.66484 38.05659 -115.66484	11.5 0.3 11.5 0.3		-14.18 -14.18	-104.4 -104.4										62835 62835	1 1		Spring Spring	368 368	07/02/05 07/02/05
Unnamed Spring #7(Kern MTS) Unnamed Spring #7(Kern MTS)	39.680719 -114.190886 39.680719 -114.190886	10.2 0.00 10.2 0.00		-15.80 -15.80	-116.3 -116.3	51.5 51.5	11.0 11.0	25.7 25.7	0.82 0.82	14.9 14.9	232 232	14.1 14.1	36.0 36.0	0.40 0.40	63273 63273			Spring Spring	391 391	23-Aug-05 23-Aug-05
Unnamed Spring #8 (Antelope Range) Unnamed Spring #8 (Antelope Range)	39.987784 -114.433412 39.987784 -114.433412	9.2 2.9 9.2 2.9	6.13 6.13	-15.85 -15.85	-121.4 -121.4	35.9 35.9	6.98 6.98	12.8 12.8	1.89 1.89	11.1 11.1	130 130	22.1 22.1	44.9 44.9	0.13 0.13	63277 63277	1 1		Spring Spring	395 395	24-Aug-05 24-Aug-05
Unnamed Spring #9 (Antelope Range) Unnamed Spring #9 (Antelope Range)	39.993636 -114.420708 39.993636 -114.420708	8.3 5.6 8.3 5.6		-16.41 -16.41	-123.0 -123.0	32.8 32.8	6.25 6.25	8.86 8.86	3.03 3.03	14.8 14.8	109 109	14.9 14.9	44.4 44.4	0.10 0.10	63278 63278	1 1		Spring Spring	396 396	25-Aug-05 25-Aug-05
Unnamed Spring #10 (Antelope Range) Unnamed Spring #10 (Antelope Range)	39.937971 -114.360742 39.937971 -114.360742	12.9 1.29 12.9 1.2 9		-15.95 -15.95	-122.0 -122.0	92.0 92.0	49.2 49.2	34.1 34.1	1.19 1.19	35.5 35.5	329 329	175 175	19.3 19.3	0.16 0.16	63279 63279	1 1		Spring Spring	397 397	25-Aug-05 25-Aug-05
Unnamed Springs #11(Snake Range) Unnamed Springs #11(Snake Range)	39.484774 -114.310317 39.484774 -114.310317	8.9 7.8 8.9 7.8		-15.65 -15.65	-117.1 -117.1	60.1 60.1	11.4 11.4	11.4 11.4	1.56 1.56	8.3 8.3	231 231	11.1 11.1	19.1 19.1	0.06 0.06	63283 63283	1 1		Spring Spring	401 401	26-Aug-05 26-Aug-05
Unnamed Spring #12 (Snake Range) Unnamed Spring #12 (Snake Range)	39.307465 -114.216096 39.307465 -114.216096	7.6 6.54 7.6 6.54		-15.89 -15.89	-116.6 -116.6	39.1 39.1	3.53 3.53	4.78 4.78	0.64 0.64	2.4 2.4	130 130	4.2 4.2	11.9 11.9	0.07 0.07	63527 63527	1 1		Spring Spring	403 403	25-Oct-05 25-Oct-05
Unnamed Sp Silver Cr Canyon Unnamed Sp Silver Cr Canyon	39.22899 -114.26075 39.22899 -114.26075	9.2 3.12 9.2 3.12		-15.38 -15.38	-115.7 -115.7	71.3 71.3	30.4 30.4	8.93 8.93	0.75 0.75	6.6 6.6	322 322	35.4 35.4	12.6 12.6	0.08 0.08	63529 63529	1 1		Spring Spring	405 405	26-Oct-05 26-Oct-05
Unnamed Spring 13 (Snake Range) Unnamed Spring 13 (Snake Range)	39.177792 -114.286862 39.177792 -114.286862	9.9 6.1 9.9 6.1		-14.76 -14.76	-114.3 -114.3	79.1 79.1	94.7 94.7	67.8 67.8	1.14 1.14	83.6 83.6	437 437	234 234	19.6 19.6	0.15 0.15	63530 63530	1 1		Spring Spring	406 406	26-Oct-05 26-Oct-05
Unnamed Stone Cabin Spring Unnamed Stone Cabin Spring	39.15911 -115.39892 39.15911 -115.39892	8.5 8.2 9.2 7.2		-15.31 -15.47	-114.2 -118.2	66.7	11.7	14.3	0.92	7.9	248	13.0	16.8	 0.23	62717 65036		DRI-WP-12 WP-11	Spring Spring	354 426	06/07/05 07/11/06
Unnamed Stone Cabin Spring	39.15911 -115.39892 39.15911 -115.39892	9.2 7.2 8.9 7.7		-15.47 -15.39	-116.2	66.7 66.7	11.7	14.3 14.3	0.92 0.9	7.9 7.9	246 248.0	13.0 13.0	16.8	0.23	00000		DRI-WP-12	Spring Spring	426 354	06/07/05
Unnamed Spring (Clover) Unnamed Spring (Clover)	37.27654 -114.30744 37.27654 -114.30744	3.3 4.9 3.3 4.9		-12.20 -12.20	-88.0 -88.0	126.0 126.0	22.6 22.6	56.6 56.6	1.5 1.5	14.8 14.8	401.0 401.0	157.0 157.0	35.4 35.4	-	58501 58501	1 1		Spring Spring	249 249	01/15/04 01/15/04
Unnamed Spring Unnamed Spring	37.49917 -114.45250 37.49917 -114.45250	10.0 10.0		-11.60 -11.60	-86.5 -86.5										231 231		GS85 GS85	Spring Spring	113 113	06/03/85 06/03/85
Unnamed Spring in dry creek bed (White Pine Range) Unnamed Spring in dry creek bed (White Pine Range)	38.89546 -115.38372 38.89546 -115.38372		-	-15.31 -15.31	-113.6 -113.6		-	-			-	-		-		1 1		Spring Spring	321 321	10/12/03 10/12/03

Unnamed Spring in Miller Canyon Unnamed Spring in Miller Canyon		-114.24383 - 114.24383	-	-		-14.27 -14.27	-103.7 -103.7	-	-			-	-	-		2	-	1 1		Spring Spring	313 313	05/19/04 05/19/04
Unnamed Spring in Road (South Pahroc Range) Unnamed Spring in Road(South Pahroc Range)		-115.10651 -115.10651	28.4 28.4	4.5 4.5	6.4 6.4	-13.07	-96.7	42.6 42.6	10.0 10.0	16.1 16.1	1.5 1.5	8.8 8.8	193.0 193.0	8.7 8.7	49.7 49.7	-	61098 61098	1		Spring Spring	303 303	07/30/04 07/30/04
Unnamed Spring nr Clover Creek Unnamed Spring nr Clover Creek		-114.45061 -114.45061	16.2 16.2	0.9 0.9	7.0 7.0	-11.96 -11.96	-89.7	67.4 67.4	9.1 9.1	29.9 29.9	6.8 6.8	20.3 20.3	299.0 299.0	11.1 11.1	55.6	-	61102 61102	1		Spring Spring	252 252	07/31/04 07/31/04
Unnamed Spring nr Six Mile seep	37.49680 -	-115.09102				-12.62	-94.5									-	61106A	1		Spring	296	07/30/04
Unnamed Spring nr Six Mile seep		-115.09102	- 92	- 71		-12.62	-94.5	 45 9	- 9.3			- 23.7		- 23.1		-	61106A	1		Spring	296 299	07/30/04
Unnamed Springnr Blackrock Unnamed Springnr Blackrock	01.01000	-114.91859 -114.91859	9.2 9.2	7.1	7.4 7.4	-11.90 -11.90	-94.3 -94.3	45.9 45.9	9.3 9.3	25.8 25.8	6.1 6.1	23.7 23.7	184.0 184.0	23.1 23.1	69.2 69.2	-	59688 59688	1		Spring Spring	299 299	03/23/04 03/23/04
Unnamed Well (Longdale) Unnamed Well (Longdale)		-114.48000 -114.48000			7.8 7.8	-13.20 -13.20	-103.0 -103.0	29.0 29.0	2.2 2.2	35.0 35.0	5.2 5.2	6.0 6.0	135.0 135.0	26.0 26.0	132.7 132.7	1.0 1.0	78 78		IT174 IT174	Well Well	48 48	03/04/74 03/04/74
Unnamed Well (Near Dry Lake Range) Unnamed Well (Near Dry Lake Range)		-114.91667 - 114.91667	26.5 26.5	0.5 0.5	7.3 7.3	-13.70 -13.70	-96.0 -96.0	123.0 123.0	46.0 46.0	140.0 140.0	16.0 16.0	190.0 190.0	230.0 230.0	360.0 360.0	21.0 21.0	1.6 1.6	41 41		GS12 GS12	Well Well	24 24	04/26/82 04/26/82
South Fox Well South Fox Well		-114.52667 - 114.52667	12.0 12.0	3.3 3.3	7.8 7.8	-15.00 -15.00	-113.0 -113.0	34.0 34.0	21.0 21.0	7.1 7.1	1.6 1.6	6.0 6.0		8.0 8.0	15.0 15.0	0.3 0.3	422 422		GS201 GS201	Well Well	216 216	07/06/83 07/06/83
Unnamed, Kaolin Wash Unnamed, Kaolin Wash		-114.46667 - 114.46667	14.1 14.1	6.0 6.0	8.5 8.5	-11.30 -11.30	-88.0 -88.0	48.9 48.9	25.9 25.9	77.6 77.6	21.3 21.3	46.5 46.5	213.0 213.0	168.0 168.0	19.1 19.1		67 67		PL3 PL3	Spring Spring	35 35	02/09/96 02/09/96
Upper Burnt Canyon Spring Upper Burnt Canyon Spring	38.287295 -1 38.287295 -1	114.200492 114.200492	14.8 14.8	3.00 3.00	6.80 6.80	-12.83 -12.83	-97.6 -97.6	65.9 65.9	15.3 15.3	11.5 11.5	0.57 0.57	17.3 17.3	251 251	6.7 6.7	50.4 50.4	0.18 0.18	64898 64898		WM-9 WM-9	Spring Spring	416 416	06/19/06 06/19/06
Upper Burnt Canyon Spring #2 Upper Burnt Canyon Spring #2	38.287295 -1 38.287295 -1	114.200492 114.200492	:	-	:	-13.66 -13.66	-103.6 -103.6	:	-	:	:	:	:	:	:	:			WM-9b WM-9b	Spring Spring	416 416	06/19/06 06/19/06
Upper Chokecherry Spring Upper Chokecherry Spring		-114.69833 - 114.69833	9.3 9.3	7.3 7.3	8.0 8.0	-12.96 -12.96	-98.9 -98.9	53.0 53.0	10.6 10.6	23.2 23.2	1.2 1.2	13.6 13.6	219.0 219.0	16.7 16.7	50.0 50.0	-	59695 59695	1 1		Spring Spring	262 262	03/25/04 03/25/04
Upper Conner Spring Upper Conner Spring		-114.56056	8.0 9.2	8.2 8.1	7.4 7.7	-13.85 -13.88	-100.0	73.0 76.9	26.0 27.6	2.2	0.5	2.1 1.9	351.0 368.0	5.4 3.6	8.5 8.5	<.1	310 60836	1	GS115	Spring Spring	156 156	11/11/86
Upper Conner Spring	37.90278 -	-114.56056	8.6	8.2	7.6	-13.87	-101.2	75.0	26.8	1.9	0.5	2.0	359.5	4.5	8.5	<.1	310	-	GS115	Spring	156	11/11/86
Upper Fairview Upper Fairview		-114.66620 -114.66620	18.0 18.0	1.8 1.8	7.2 7.2	-12.66 - 12.66	-97.7 -97.7	60.2 60.2	10.6 10.6	28.1 28.1	2.6 2.6	23.6 23.6	259.0 259.0	14.5 14.5	48.4 48.4		60850 60850	1 1		Spring Spring	280 280	06/29/04 06/29/04
Upper Illipah Crk Upper Illipah Crk Upper Illipah Crk	39.28167 -	-115.39000 -115.39000 - 115.39000	#DIV/0!	#DIV/0!	#DIV/0!	-16.00 -16.20 -16.10	-124.0 -123.0 -123.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			GS999 GS999	Surface Surface Surface	238 238 238	06/13/83 08/23/83
Upper Illipah Crk	39.28167 - 39.28167 - 37.45202 -	-115.39000	#DIV/0! 11.7 11.7	#DIV/0! 3.6 3.6	#DIV/0! 7.3 7.3	-16.20	-123.0	#DIV/0! 68.0 68.0	#DIV/0! 19.3 19.3	#DIV/0! 23.9 23.9	#DIV/0! 0.3 0.3	#DIV/0! 9.1 9.1	#DIV/0! 319.0 319.0	#DIV/0! 13.0 13.0	#DIV/0! 53.4 53.4	#DIV/0! 	58499 58499	1 1		Surface	238	
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring	39.28167 - 39.28167 - 37.45202 - 37.45202 - 38.32139 -	-115.39000 - 115.39000 -114.65831	11.7	3.6	7.3	-16.20 -16.10 -11.46	-123.0 -123.5 -88.0	68.0	19.3	23.9	0.3	9.1	319.0	13.0	53.4			1 1		Surface Surface Spring	238 238 268	08/23/83
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring Upper Indian Spring Unnamed Spring near Pony Spring Unnamed Spring near Pony Spring Upper Riggs Spring WR4	39.28167 - 39.28167 - 37.45202 - 37.45202 - 38.32139 - 38.32139 - 38.32139 - 37.36833 -	-115.39000 -115.39000 -114.65831 -114.65831 -114.64222 -114.64222 -114.64222	11.7 11.7 11.5 11.5	3.6	7.3	-16.20 -16.10 -11.46 -11.46 -12.90 -12.90	-123.0 -123.5 -88.0 -88.0 -99.0 -99.0	68.0	19.3	23.9	0.3	9.1	319.0	13.0	53.4		58499 361 361 477	1 1	GS999 GS144 GS144	Surface Surface Spring Spring Spring Spring Spring	238 238 268 268 191 191 191	08/23/83 01/14/04 01/14/04 07/23/81 07/23/81
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring Upper Indian Spring Unnamed Spring near Pony Spring Unnamed Spring near Pony Spring Upper Riggs Spring WR4 Upper Riggs Spring WR4	39.28167 - 39.28167 - 37.45202 - 37.45202 - 38.32139 - 38.32139 - 37.36833 - 37.36833 -	-115.39000 -115.39000 -114.65831 -114.65831 -114.64222 -114.64222	11.7 11.7 11.5	3.6	7.3	-16.20 -16.10 -11.46 -11.46 -12.90	-123.0 -123.5 -88.0 -88.0 -99.0	68.0	19.3	23.9	0.3	9.1	319.0	13.0	53.4		58499 361 361	1 1	GS999 GS144	Surface Surface Spring Spring Spring Spring	238 238 268 268 191 191	08/23/83 01/14/04 01/14/04 07/23/81
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring Upper Indian Spring Unnamed Spring near Pony Spring Unper Riggs Spring WR4 Upper Riggs Spring WR4 Upper Riggs Spring WR4	39.28167 - 39.28167 - 37.45202 - 38.32139 - 38.32139 - 37.36833 - 37.36833 - 37.36833 - 37.36833 -	-115.39000 -115.39000 -114.65831 -114.65831 -114.64222 -114.64222 -114.64778 -114.64778 -114.64778 -114.64778	11.7 11.7 11.5 11.5 10.8 10.1 16.9	3.6 3.6 4.4 10.9	7.3 7.3 7.3 8.0	-16.20 -16.10 -11.46 -11.46 -12.90 -12.90 -12.90 -11.90 -11.90 -11.95	-123.0 -123.5 -88.0 -99.0 -99.0 -99.0 -99.0 -88.0 -87.0 -87.3	68.0 68.0 64.7 57.6	19.3 19.3 15.9 15.9	23.9 23.9 19.4 17.6	0.3 0.3 0.0 3.4	9.1 9.1 17.5 16.5	319.0 319.0 274.0 256.0	13.0 13.0 12.0 12.7	53.4 53.4 53.4 57.8 48.8	-	58499 361 361 477 207 58492 60082	1 1	GS999 GS144 GS144	Surface Surface Spring Spring Spring Spring Spring Spring Spring	238 238 268 268 191 191 105 105 105 105	08/23/83 01/14/04 01/14/04 07/23/81 07/23/81 02/02/84 01/13/04 04/29/04
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring Upper Indian Spring Unnamed Spring near Pony Spring Unnamed Spring near Pony Spring Upper Riggs Spring WR4 Upper Riggs Spring WR4 Upper Riggs Spring WR4 Upper Riggs Spring WR4	39.28167 - 39.28167 - 37.45202 - 37.45202 - 38.32139 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 -	-115.39000 -115.39000 -114.65831 -114.65831 -114.64222 -114.64728 -114.64778 -114.64778 -114.64778 -114.64778 -114.64778 -114.64778	11.7 11.7 11.5 11.5 10.8 10.1 16.9 13.2	3.6 3.6 4.4 10.9 0.7	7.3 7.3 7.3 8.0 7.4	-16.20 -16.10 -11.46 -11.46 -12.90 -12.90 -12.90 -11.90 -11.90 -11.95 -11.55	-123.0 -123.5 -88.0 -99.0 -99.0 -99.0 -99.0 -88.0 -87.0 -87.3 -86.2	68.0 68.0 64.7 57.6 63.4	19.3 19.3 15.9 15.9 16.6	23.9 23.9 19.4 17.6 18.8	0.3 0.3 0.0 3.4 4.2	9.1 9.1 17.5 16.5 16.4	319.0 319.0 274.0 256.0 277.0	13.0 13.0 12.0 12.7 8.7	53.4 53.4 57.8 48.8 57.2	-	58499 361 361 477 207 58492 60082 61614	·	GS999 GS144 GS144	Surface Surface Spring Spring Spring Spring Spring Spring Spring Spring	238 238 268 268 191 191 195 105 105 105 105	08/23/83 01/14/04 01/14/04 07/23/81 07/23/81 07/23/81 02/02/84 01/13/04 04/29/04 10/19/04
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring Upper Indian Spring Unnamed Spring near Pony Spring Unper Riggs Spring WR4 Upper Riggs Spring WR4 Upper Riggs Spring WR4	39.28167 - 39.28167 - 37.45202 - 37.45202 - 38.32139 - 38.32139 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 -	-115.39000 -115.39000 -114.65831 -114.65831 -114.64222 -114.64222 -114.64778 -114.64778 -114.64778 -114.64778	11.7 11.7 11.5 11.5 10.8 10.1 16.9	3.6 3.6 4.4 10.9	7.3 7.3 7.3 8.0	-16.20 -16.10 -11.46 -11.46 -12.90 -12.90 -12.90 -11.90 -11.90 -11.95	-123.0 -123.5 -88.0 -99.0 -99.0 -99.0 -99.0 -88.0 -87.0 -87.3	68.0 68.0 64.7 57.6	19.3 19.3 15.9 15.9	23.9 23.9 19.4 17.6	0.3 0.3 0.0 3.4	9.1 9.1 17.5 16.5	319.0 319.0 274.0 256.0	13.0 13.0 12.0 12.7	53.4 53.4 53.4 57.8 48.8	-	58499 361 361 477 207 58492 60082	1 1 4 5	GS999 GS144 GS144	Surface Surface Spring Spring Spring Spring Spring Spring Spring	238 238 268 268 191 191 105 105 105 105	08/23/83 01/14/04 01/14/04 07/23/81 07/23/81
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring Upper Indian Spring Unnamed Spring near Pony Spring Unnamed Spring near Pony Spring Upper Riggs Spring WR4 Upper Riggs Spring WR4	39.28167 - 39.28167 - 37.45202 - 37.45202 - 38.32139 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 -	-115.39000 -115.39000 -114.65831 -114.65831 -114.64222 -114.64222 -114.64778 -114.64778 -114.64778 -114.64778 -114.64778 -114.64778	11.7 11.7 11.5 11.5 10.8 10.1 16.9 13.2 6.0	3.6 3.6 4.4 10.9 0.7 6.8	7.3 7.3 7.3 8.0 7.4 7.1	-16.20 -16.10 -11.46 -11.46 -12.90 -12.90 -12.90 -11.90 -11.90 -11.95 -11.55 -12.46	-123.0 -123.5 -88.0 -99.0 -99.0 -99.0 -99.0 -88.0 -87.0 -87.3 -86.2 -87.0	68.0 68.0 64.7 57.6 63.4 35.5	19.3 19.3 15.9 15.9 16.6 8.8	23.9 23.9 19.4 17.6 18.8 11.6	0.3 0.3 0.0 3.4 4.2 2.0	9.1 9.1 17.5 16.5 16.4 7.2	319.0 319.0 274.0 256.0 277.0 153.0	13.0 13.0 12.0 12.7 8.7 8.1	53.4 53.4 57.8 48.8 57.2 42.0	-	58499 361 361 477 207 58492 60082 61614	4	GS999 GS144 GS144	Surface Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	238 238 268 268 191 191 105 105 105 105 105 105	08/23/83 01/14/04 01/14/04 07/23/81 07/23/81 07/23/81 02/02/84 01/13/04 04/29/04 10/19/04
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring Upper Indian Spring Unnamed Spring near Pony Spring Unnamed Spring near Pony Spring Upper Riggs Spring WR4 Upper Tarrace Spring WR2	39.28167 - 39.28167 - 37.45202 - 37.45202 - 38.32139 - 38.32139 - 37.36833 -	-115.39000 -115.39000 -114.65831 -114.65831 -114.64222 -114.64222 -114.64778 -114.64778 -114.64778 -114.64778 -114.64778 -114.64778 -114.64778 -114.64778 -114.64778 -114.92565 -114.92565	11.7 11.7 11.5 11.5 10.8 10.1 16.9 13.2 6.0 11.4 8.2	3.6 3.6 4.4 10.9 0.7 6.8	7.3 7.3 7.3 8.0 7.4 7.1 7.4 7.1	-16.20 -16.10 -11.46 -11.46 -12.90 -12.90 -12.90 -11.90 -11.95 -11.55 -12.46 -11.95 -11.55 -12.46 -11.543 -15.43	-123.0 -123.5 -88.0 -99.0 -99.0 -99.0 -99.0 -87.3 -87.0 -87.3 -86.2 -87.0 -87.1 -111.3 -111.3	68.0 68.0 64.7 57.6 63.4 35.5 55.3 39.7 39.8	19.3 19.3 15.9 15.9 16.6 8.8 14.3 10.9 11.0	23.9 23.9 19.4 17.6 18.8 11.6 16.9 4.1 4.1	0.3 0.3 0.0 3.4 4.2 2.0 2.4 0.7 0.7	9.1 9.1 9.1 17.5 16.5 16.4 7.2 14.4 2.1 2.1	319.0 319.0 274.0 256.0 277.0 153.0 240.0 173.0 172.0	13.0 13.0 12.0 12.7 8.7 8.1 10.4 7.3 7.3	53.4 53.4 53.4 57.8 48.8 57.2 42.0 51.5 11.9 12.1	-	58499 361 361 477 207 58492 60082 61614 62035 57696 57696	4	GS999 GS144 GS144	Surface Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	238 238 268 268 191 191 105 105 105 105 105 105 270 270	08/23/83 01/14/04 01/14/04 07/23/81 07/23/81 07/23/81 01/13/04 04/29/04 10/19/04 02/10/05
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring Upper Indian Spring Unnamed Spring near Pony Spring Unnamed Spring near Pony Spring Upper Riggs Spring WR4 Upper Terrace Spring WR2 Upper Terrace Spring WR2	39.28167 - 39.28167 - 37.45202 - 37.45202 - 38.32139 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 39.08664 - 39.08664 - 39.08664 - 39.08664 -	-115.39000 -115.39000 -114.65831 -114.65831 -114.65831 -114.64222 -114.64222 -114.64778 -114.64778 -114.64778 -114.64778 -114.64778 -114.64778 -114.92565 -114.92565	11.7 11.7 11.5 11.5 10.8 10.1 16.9 13.2 6.0 11.4 8.2 7.6	3.6 3.6 3.6 4.4 10.9 0.7 6.8 5.7 5.1 	7.3 7.3 8.0 7.4 7.1 7.4 7.1 7.9	-16.20 -16.10 -11.46 -11.46 -12.90 -12.90 -11.90 -11.95 -11.55 -12.46 -11.95 -15.43 -15.43	-123.0 -123.5 -88.0 -99.0 -99.0 -87.0 -87.0 -87.3 -86.2 -87.0 -87.1 -111.3 -111.3 -111.3	68.0 68.0 64.7 57.6 63.4 35.5 55.3 39.7 39.8 40.5	19.3 19.3 15.9 16.6 8.8 14.3 10.9 11.0 10.8	23.9 23.9 19.4 17.6 18.8 11.6 16.9 4.1 4.1 4.3	0.3 0.3 0.0 3.4 4.2 2.0 2.4 0.7 0.7 0.8	9.1 9.1 9.1 17.5 16.5 16.4 7.2 14.4 2.1 2.1 2.1	319.0 319.0 274.0 256.0 277.0 153.0 240.0 173.0 172.0 172.0	13.0 13.0 12.0 12.7 8.7 8.1 10.4 7.3 7.3 7.1	53.4 53.4 53.4 57.8 48.8 57.2 42.0 51.5 11.9 12.1 9.2	 #DIV/0! 	58499 361 361 477 207 58492 60082 61614 62035 57696 57697 60080	4	GS999 GS144 GS144	Surface Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	238 238 268 268 191 191 105 105 105 105 105 105 270 270 270	08/23/83 01/14/04 01/14/04 07/23/81 07/23/81 07/23/81 07/23/81 02/02/84 01/13/04 04/29/04 10/19/04 02/10/05
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring Upper Indian Spring Unnamed Spring near Pony Spring Unnamed Spring near Pony Spring Upper Riggs Spring WR4 Upper Tarrace Spring WR2	39.28167 - 39.28167 - 37.45202 - 37.45202 - 38.32139 - 37.36833 - 39.0864 - 39.08664 -	-115.39000 -115.39000 -114.65831 -114.65831 -114.64222 -114.64222 -114.64778 -114.64778 -114.64778 -114.64778 -114.64778 -114.64778 -114.64778 -114.64778 -114.64778 -114.92565 -114.92565	11.7 11.7 11.5 11.5 10.8 10.1 16.9 13.2 6.0 11.4 8.2	3.6 3.6 3.6 10.9 0.7 6.8 5.7	7.3 7.3 7.3 8.0 7.4 7.1 7.4 7.1	-16.20 -16.10 -11.46 -11.46 -12.90 -12.90 -12.90 -11.90 -11.95 -11.55 -12.46 -11.95 -11.55 -12.46 -11.543 -15.43	-123.0 -123.5 -88.0 -99.0 -99.0 -99.0 -99.0 -87.3 -87.0 -87.3 -86.2 -87.0 -87.1 -111.3 -111.3	68.0 68.0 64.7 57.6 63.4 35.5 55.3 39.7 39.8	19.3 19.3 15.9 15.9 16.6 8.8 14.3 10.9 11.0	23.9 23.9 19.4 17.6 18.8 11.6 16.9 4.1 4.1	0.3 0.3 0.0 3.4 4.2 2.0 2.4 0.7 0.7	9.1 9.1 9.1 17.5 16.5 16.4 7.2 14.4 2.1 2.1	319.0 319.0 274.0 256.0 277.0 153.0 240.0 173.0 172.0	13.0 13.0 12.0 12.7 8.7 8.1 10.4 7.3 7.3	53.4 53.4 53.4 57.8 48.8 57.2 42.0 51.5 11.9 12.1	 #DIV/0! 	58499 361 361 477 207 58492 60082 61614 62035 57696 57696	4	GS999 GS144 GS144	Surface Surface Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring Spring	238 238 268 268 191 191 105 105 105 105 105 105 270 270	08/23/83 01/14/04 01/14/04 07/23/81 07/23/81 07/23/81 07/23/81 01/13/04 04/28/04 10/19/04 02/10/05
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring Upper Indian Spring Unnamed Spring near Pony Spring Unpar Riggs Spring WR4 Upper Terrace Spring WR2 Upper Terrace Spring WR2	39.28167 - 39.28167 - 37.45202 - 37.45202 - 38.32139 - 37.36833 - 39.08664 - 39.08664 - 39.08664 - 39.08664 - 39.08664 -	115.39000 115.39000 114.65831 114.65831 114.65831 114.64222 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64556 114.92565 114.92565	11.7 11.7 11.5 11.5 10.8 10.1 16.9 13.2 6.0 11.4 8.2 7.6 8.0	3.6 3.6 3.6 10.9 0.7 6.8 5.7 5.1 8.0	7.3 7.3 8.0 7.4 7.1 7.4 7.1 7.4 7.5	-16.20 -16.10 -11.46 -12.90 -12.90 -11.90 -11.95 -11.55 -12.46 -11.95 -12.46 -11.95 -12.46 -11.95 -15.43 -15.44 -15.40 -15.51	-123.0 -123.5 -88.0 -88.0 -99.0 -99.0 -87.0 -87.0 -87.3 -87.0 -87.3 -87.0 -87.1 -111.3 -111.4 -111.5 -111.4 -111.4 -114.4	68.0 68.0 64.7 57.6 63.4 35.5 55.3 39.7 39.8 40.5	19.3 19.3 15.9 15.9 16.6 8.8 14.3 10.9 11.0 10.8 10.7	23.9 23.9 19.4 17.6 18.8 11.6 16.9 4.1 4.1 4.3 3.6	0.3 0.3 0.3 0.4 4.2 2.0 2.4 0.7 0.7 0.7 0.8 0.7	9.1 9.1 17.5 16.5 16.4 7.2 14.4 2.1 2.1 2.1 2.4	319.0 319.0 319.0 274.0 256.0 277.0 153.0 240.0 173.0 172.0 172.0 172.0 168.0	13.0 13.0 12.0 12.7 8.7 8.1 10.4 7.3 7.1 7.4	53.4 53.4 53.4 57.8 48.8 57.2 42.0 51.5 11.9 12.1 9.2 11.8	 #DIV/0! 	58499 361 361 477 207 58492 60082 61614 62035 57696 57697 60080 60785 61479 62030	4	GS999 GS144 GS144 GS78	Surface Surface Spring	238 238 268 268 191 191 105 105 105 105 105 105 270 270 270 270 270 270 270	08/23/83 01/14/04 07/23/81 07/23/81 07/23/81 07/23/81 01/13/04 04/28/04 10/19/04 02/10/05
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring Upper Indian Spring Unnamed Spring near Pony Spring Unnamed Spring near Pony Spring Unper Riggs Spring WR4 Upper Terrace Spring WR2 Upper Terrace Spring WR2	39.28167 - 39.28167 - 37.45202 - 37.45202 - 38.32139 - 38.32139 - 37.36833 - 39.08664 - 39.08664 - 39.08664 - 39.08664 - 39.08664 -	115.39000 115.39000 114.65831 114.65831 114.65831 114.64222 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.92565 114.92565 114.92565 114.92565	11.7 11.7 11.5 11.5 11.5 10.8 10.1 13.2 6.0 11.4 	3.6 3.6 3.6 10.9 0.7 6.8 5.7 5.1 8.0 7.1	7.3 7.3 8.0 7.4 7.1 7.4 7.1 7.9 7.5 6.9	-16.20 -16.10 -11.46 -11.46 -12.90 -12.90 -11.90 -11.90 -11.90 -11.95 -11.55 -12.46 -11.95 -15.43 -15.43 -15.44 -15.35 -15.44 -15.35 -15.44	-123.0 -123.5 -88.0 -88.0 -99.0 -99.0 -99.0 -87.0 -87.0 -87.0 -87.0 -87.0 -87.0 -87.0 -87.1 -111.3 -111.4 -111.3 -111.4 -111.3 -114.4 -111.3, -	68.0 68.0 64.7 57.6 63.4 35.5 55.3 39.7 39.8 40.5 40.4 41.6 40.3	19.3 19.3 15.9 16.6 8.8 14.3 10.9 11.0 10.8 10.7	23.9 23.9 19.4 17.6 18.8 11.6 16.9 4.1 4.1 4.1 4.3 3.6 4.3 4.2	0.3 0.3 0.3 0.4 4.2 2.0 2.4 0.7 0.7 0.8 0.7 0.8 0.7 0.8 0.8	9.1 9.1 9.1 17.5 16.5 16.4 7.2 14.4 2.1 2.1 2.1 2.4 2.4 2.3	319.0 319.0 256.0 277.0 153.0 240.0 173.0 172.0 172.0 172.0 176.0 177.0 168.0	13.0 13.0 12.0 12.7 8.7 8.1 10.4 7.3 7.1 7.4 7.3 7.7	53.4 53.4 53.4 57.8 48.8 57.2 42.0 51.5 11.9 12.1 9.2 11.8 11.8 11.1	 #DIV/0! 	58499 361 361 477 207 58492 60082 61614 62035 57696 57697 60080 60785 61479 62030	4 5	GS999 GS144 GS144 GS78 DRI-ER-1	Surface Surface Spring	238 238 268 268 191 191 105 105 105 105 105 105 270 270 270 270 270 270 270 270	08/23/83 01/14/04 07/23/81 07/23/81 07/23/81 07/23/81 07/23/81 07/23/81 07/23/81 01/13/03 10/15/03 10/13/03 10/15/03 10/26/04 06/23/04 06/23/04 06/23/04
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring Upper Indian Spring Unnamed Spring near Pony Spring Unpar Riggs Spring WR4 Upper Terrace Spring WR2 Upper Terrace Spring WR2	39.28167 - 39.28167 - 37.45202 - 37.45202 - 38.32139 - 37.36833 - 39.08664 - 39.08664 - 39.08664 - 39.08664 - 39.08664 - 39.08664 - 39.08664 -	115.39000 115.39000 114.65831 114.65831 114.65831 114.64222 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64556 114.92565 114.92565	11.7 11.7 11.5 11.5 11.5 10.8 10.1 13.2 6.0 11.4 	3.6 3.6 3.6 10.9 0.7 6.8 5.7 5.1 8.0 7.1	7.3 7.3 8.0 7.4 7.1 7.4 7.1 7.9 7.5 6.9	-16.20 -16.10 -11.46 -12.90 -12.90 -11.90 -11.95 -11.55 -12.46 -11.95 -12.46 -11.95 -12.46 -11.95 -15.43 -15.44 -15.40 -15.51	-123.0 -123.5 -88.0 -88.0 -99.0 -99.0 -87.0 -87.0 -87.3 -87.0 -87.3 -87.0 -87.1 -111.3 -111.4 -111.5 -111.4 -111.4 -114.4	68.0 68.0 64.7 57.6 63.4 35.5 55.3 39.7 39.8 40.5 40.4 41.6	19.3 19.3 15.9 15.9 16.6 8.8 14.3 10.9 11.0 10.8 10.7 11.3	23.9 23.9 19.4 17.6 18.8 11.6 16.9 4.1 4.1 4.3 3.6 4.3	0.3 0.3 0.3 0.0 3.4 4.2 2.0 2.4 0.7 0.7 0.8 0.7 0.8	9.1 9.1 9.1 17.5 16.5 16.5 16.5 16.5 16.5 16.5 16.4 2.1 2.1 2.1 2.1 2.1 2.4 2.4	319.0 319.0 274.0 256.0 277.0 153.0 173.0 172.0 172.0 172.0 177.0	13.0 13.0 12.0 12.7 8.7 8.1 10.4 7.3 7.3 7.1 7.4 7.3	53.4 53.4 53.4 57.8 48.8 57.2 42.0 51.5 11.9 12.1 9.2 11.8	 #DIV/0! 	58499 361 361 477 207 58492 60082 61614 62035 57696 57697 60080 60785 61479 62030	4 5	GS999 GS144 GS144 GS78	Surface Surface Spring	238 238 268 268 191 191 105 105 105 105 105 105 270 270 270 270 270 270 270	08/23/83 01/14/04 07/23/81 07/23/81 07/23/81 07/23/81 01/13/04 04/28/04 10/19/04 02/10/05
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring Upper Indian Spring Unnamed Spring near Pony Spring Unamed Spring near Pony Spring Unper Riggs Spring WR4 Upper Terrace Spring WR2 Upper Terrace Spring	39.28167 - 39.28167 - 37.45202 - 37.45202 - 38.32139 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 39.08664 - 39.08664 - 39.08664 - 39.08664 -	115.39000 115.39000 115.39000 114.65831 114.65831 114.64222 114.64222 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.92665 114.92656 114.92656 114.92656 114.92656 114.92656 114.92656	11.7 11.7 11.5 11.5 10.8 10.1 13.2 6.0 11.4 8.0 8.2 7.2	3.6 3.6 3.6 4.4 10.9 0.7 6.8 5.7 5.1 8.3	7.3 7.3 7.3 8.0 7.4 7.1 7.4 	-16.20 -11.46 -11.46 -12.90 -12.90 -11.90 -11.90 -11.95 -11.55 -12.46 -11.95 -15.43 -15.43 -15.44 -15.43 -15.24 -15.24 -15.243 -15.241 -15.241	-123.0 -123.5 -88.0 -99.0 -99.0 -88.0 -87.0 -87.0 -87.3 -87.3 -87.3 -87.3 -87.4 -111.3 -111.8 -111.5 -111.6 -111.4 -111.4 -111.4 -113.7 -114.5	68.0 68.0 64.7 57.6 63.4 35.5 55.3 39.7 39.8 40.5 40.5 40.5 40.5 41.6 40.3	19.3 19.3 15.9 15.9 16.6 8.8 14.3 10.9 11.0 10.8 10.7 11.3 10.7 11.5	23.9 23.9 19.4 17.6 18.8 11.6 16.9 4.1 4.1 4.3 3.6 4.3 4.2 4.14	0.3 0.3 0.3 0.3 4.2 2.0 2.4 0.7 0.7 0.8 0.7 0.8 0.8 0.8 0.8	9.1 9.1 9.1 17.5 16.5 16.4 7.2 14.4 2.1 2.1 2.1 2.4 2.3 2.3	319.0 319.0 274.0 256.0 277.0 153.0 240.0 172.0 172.0 172.0 168.0 177.0 168.0	13.0 13.0 12.0 12.7 8.7 8.1 10.4 7.3 7.3 7.1 7.4 7.3 7.7 7.9	53.4 53.4 53.4 57.8 48.8 57.2 42.0 51.5 11.9 12.1 9.2 11.8 11.1 11.2	 #DIV/0! 	58499 361 361 477 207 58492 60082 61614 62035 57697 60080 60785 61479 62030 62633A 63219	4 5	GS999 GS144 GS144 GS78 DRI-ER-1 DRI-ER-1	Surface Surface Spring	238 238 268 268 191 191 105 105 105 105 105 105 270 270 270 270 270 270 270 270 270 270	08/23/83 01/14/04 07/23/81 07/23/81 07/23/81 07/23/81 07/23/81 07/23/81 01/13/04 02/02/84 01/13/04 02/10/05 10/13/03 10/15/03 04/28/04 06/23/04 09/22/04 02/09/05 05/21/05 05/21/05
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring Upper Indian Spring Unnamed Spring near Pony Spring Unnamed Spring near Pony Spring Unper Riggs Spring WR4 Upper Riggs Spring WR2 Upper Terrace Spring WR2 Uppe	39.28167 - 39.28167 - 37.45202 - 37.45202 - 38.32139 - 38.32139 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 39.0864 - 39.08664 - 39.08664 - 39.08664 - 39.08664 -	115.39000 115.39000 114.65831 114.65831 114.65831 114.64222 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.92565 114.92565 114.92565 114.92565 114.92565 114.92565 114.92565 114.92565 114.92565	11.7 11.7 11.5 11.5 11.5 10.8 10.8 10.8 10.8 10.9 13.2 6.0 11.4 	3.6 3.6 3.6 4.4 10.9 0.7 6.8 5.7 5.1 8.0 7.1 8.3 8.05 8.26 -	7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.5 6.9 7.8 7.77 7.87	-16.20 -16.10 -11.46 -11.46 -12.90 -12.90 -12.90 -11.90 -11.95 -11.55 -12.46 -11.95 -11.55 -12.46 -11.95 -15.43 -15.43 -15.44 -15.24 -15.24 -15.43 -15.43	-123.0 -123.5 -88.0 -99.0 -99.0 -99.0 -88.0 -87.0 -87.0 -87.3 -87.2 -87.0 -87.3 -87.2 -87.0 -87.1 -111.3 -111.4 -111.3 -111.4 -111.3 -111.4 -113.7 -113.7 -114.5	68.0 68.0 64.7 57.6 63.4 35.5 55.3 39.7 39.8 40.4 41.6 40.3 41.8 41.3 41.3	19.3 19.3 15.9 16.6 8.8 14.3 10.9 11.0 10.8 11.0 10.7 11.3 10.7 10.5 10.8 10.7	23.9 23.9 19.4 17.6 18.8 11.6 16.9 4.1 4.1 4.3 3.6 4.3 3.6 4.2 4.14 4.06 4.23	0.3 0.3 0.3 0.3 4 4.2 2.0 2.4 0.7 0.7 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.7 0.8 0.7 0.7	9.1 9.1 9.1 17.5 16.5 16.5 16.5 16.5 16.5 16.5 16.7 2.1 2.1 2.1 2.1 2.1 2.2 2.3 2.2 2.3 2.2 2.3	319.0 319.0 274.0 256.0 277.0 153.0 173.0 172.0 177.0 169.0 177.0 169.0 177.0 169.0 177.0 169.0 177.0	13.0 13.0 12.0 12.7 8.7 10.4 7.3 7.3 7.1 7.4 7.3 7.7 7.9 7.5 7.7 7.9	53.4 53.4 53.4 57.8 48.8 57.2 48.8 57.2 51.5 11.9 12.1 9.2 11.8 11.1 11.2 11.3 11.5		56499 361 361 477 207 58492 60082 61614 62035 57696 57697 60080 60785 61479 62030 62633A 63219 63562 64734	4 5	GS999 GS144 GS144 GS78 DRI-ER-1 DRI-ER-1 ER-1 ER-1	Surface Surface Spring	238 238 268 268 268 191 191 105 105 105 105 105 105 270 270 270 270 270 270 270 270 270 270	08/23/83 01/14/04 07/23/81 07/23/81 07/23/81 07/23/81 02/02/84 01/13/04 04/28/04 10/19/04 04/28/04 04/28/04 04/28/04 06/23/04 06/23/04 06/23/04 06/23/04 06/23/04 06/23/04 06/22/04 06/21/05 08/44/05
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring Upper Indian Spring Unnamed Spring near Pony Spring Unamed Spring near Pony Spring Unper Riggs Spring WR4 Upper Terrace Spring WR2 Upper Terrace Spring	39.28167 - 39.28167 - 37.45202 - 37.45202 - 38.32139 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 39.08664 -	115.39000 115.39000 115.39000 114.65831 114.65831 114.64222 114.64222 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.92665 114.92656 114.92656 114.92656 114.92656 114.92656 114.92656	11.7 11.7 11.5 11.5 10.8 10.1 16.9 13.2 6.0 11.4 8.2 7.6 8.2 7.2 7.7	3.6 3.6 3.6 4.4 10.9 0.7 6.8 5.7 - 5.1 - 5.1 - 8.0 7.1 8.3 8.05	7.3 7.3 7.3 8.0 7.4 7.1 7.4 7.1 7.9 7.5 6.9 7.8 7.77	-16.20 -11.46 -11.46 -12.90 -12.90 -11.90 -11.90 -11.95 -11.55 -12.46 -11.95 -12.46 -11.95 -15.43 -15.43 -15.41 -15.24 -15.43 -15.41 -15.41	-123.0 -123.5 -88.0 -99.0 -99.0 -88.0 -87.0 -87.0 -87.3 -87.3 -87.3 -87.3 -87.4 -111.3 -111.8 -111.5 -111.6 -111.4 -111.4 -111.4 -113.7 -114.5	68.0 68.0 64.7 57.6 63.4 35.5 55.3 39.7 39.8 40.5 40.4 41.6 40.3 41.8	19.3 19.3 15.9 16.6 8.8 14.3 10.9 11.0 10.8 10.7 11.3 10.7 11.3 10.7	23.9 23.9 19.4 17.6 18.8 11.6 16.9 4.1 4.1 4.3 3.6 4.3 4.2 4.14 4.06	0.3 0.3 0.3 0.3 4.2 2.0 2.4 0.7 0.7 0.8 0.7 0.8 0.8 0.8 0.76 0.74	9.1 9.1 9.1 17.5 16.5 16.5 16.4 7.2 14.4 2.1 2.1 2.1 2.4 2.3 2.3 2.2	319.0 319.0 256.0 277.0 153.0 172.0 172.0 172.0 172.0 177.0 168.0 177.0 168.0 177.0 168.0 177.0 169.0 173.0	13.0 13.0 12.0 12.7 8.7 8.1 10.4 7.3 7.1 7.4 7.3 7.7 7.9 7.5	53.4 53.4 53.4 57.8 48.8 57.2 42.0 51.5 11.9 12.1 9.2 11.8 11.8 11.1 11.1 11.2		56499 361 361 477 207 58492 60082 61614 62035 57696 57697 60080 60785 61479 62030 61479 62030 62633A 63219 63562	4 5	GS999 GS144 GS144 GS78 DRI-ER-1 DRI-ER-1	Surface Surface Spring	238 238 268 268 191 191 105 105 105 105 105 105 270 270 270 270 270 270 270 270 270 270	08/23/83 01/14/04 07/23/81 07/23/81 07/23/81 07/23/81 07/23/81 07/23/81 01/13/04 02/02/84 01/13/04 02/10/05 10/13/03 10/15/03 04/28/04 06/23/04 09/22/04 02/09/05 05/21/05 05/21/05
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring Upper Indian Spring Unnamed Spring near Pony Spring Unnamed Spring near Pony Spring Upper Riggs Spring WR4 Upper Terrace Spring WR2 Upper Terrace Sp	39.28167 - 39.28167 - 37.45202 - 37.45202 - 38.32139 - 38.32139 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 39.08664 -	115.39000 115.39000 114.65331 114.65331 114.64222 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.92565 <td< td=""><td>11.7 11.5 11.5 11.5 10.8 10.1 10.8 10.1 10.8 10.9 13.2 6.0 11.4 8.2 7.6 8.0 7.2 7.5 7.9 7.7 7.5</td><td>3.6 3.6 3.6 10.9 0.7 6.8 5.7 5.1 8.3 8.05 8.26 - 7.5</td><td>7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.5 6.9 7.8 7.8 7.87 7.68 7.80 7.87</td><td>-16.20 -16.10 -11.46 -11.46 -12.90 -12.90 -11.90 -11.90 -11.95 -11.55 -12.46 -11.95 -15.43 -15.43 -15.41 -15.43 -15.41 -15.43 -15.41 -15.48 -15.46</td><td>-123.0 -123.5 -88.0 -99.0 -99.0 -99.0 -88.0 -87.0 -87.0 -87.3 -87.0 -87.3 -87.0 -87.1 -111.3 -111.4 -115.6 -111.4 -111.5 -114.4 -113.4 -113.4 -113.4 -114.5 -114.1 -114.5 -114.1 -114.2</td><td>64.7 64.7 57.6 63.4 35.5 55.3 39.7 39.8 40.5 40.4 41.6 40.3 41.8 41.3 41.3 40.5 - 1.4 41.3 40.5</td><td>19.3 19.3 15.9 15.9 16.6 8.8 14.3 10.9 11.0 10.8 10.7 11.3 10.7 10.5 10.8 10.7</td><td>23.9 23.9 23.9 19.4 17.6 18.8 11.6 16.9 4.1 4.1 4.3 3.6 4.3 4.2 4.14 4.06 4.23 - 3.65</td><td>0.3 0.3 0.3 0.3 0.3 4 4.2 2.0 2.4 0.7 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.7 1.10 0.76 0.76</td><td>9.1 9.1 9.1 9.1 17.5 16.5 16.4 7.2 14.4 2.1 2.1 2.1 2.4 2.4 2.3 2.2 2.3 2.2 2.3 - 2.1 1.4 1.9</td><td>319.0 319.0 319.0 256.0 277.0 153.0 173.0 172.0 177.0 168.0 177.0 168.0 177.0 168.0 177.0 166.0 167.0 167.0 167.0 167.0 167.0 167.0 177.0 168.0 177.0 168.0 177.0 168.0 177.0</td><td>13.0 13.0 12.0 12.7 8.7 8.1 10.4 7.3 7.3 7.1 7.3 7.7 7.9 7.5 7.7 - 7.6</td><td>53.4 53.4 53.4 57.8 48.8 57.2 42.0 51.5 11.9 12.1 9.2 11.8 11.1 11.2 11.3 11.5 - 11.2</td><td></td><td>58499 361 361 477 207 58492 60082 61614 62035 57697 60080 60785 61479 62030 62833A 63219 63562 64734 </td><td>4 5</td><td>GS999 GS144 GS144 GS78 DRI-ER-1 ER-1 ER-1 ER-1 ER-1</td><td>Surface Surface Spring</td><td>238 238 268 268 191 191 105 105 105 105 105 105 105 105 270 270 270 270 270 270 270 270 270 270</td><td>08/23/83 01/14/04 07/23/81 07/23/81 07/23/81 07/23/81 02/02/84 01/13/03 10/13/03 10/13/03 10/15/03 04/28/04 06/23/04 09/22/04 09/22/04 09/22/04 09/22/04</td></td<>	11.7 11.5 11.5 11.5 10.8 10.1 10.8 10.1 10.8 10.9 13.2 6.0 11.4 8.2 7.6 8.0 7.2 7.5 7.9 7.7 7.5	3.6 3.6 3.6 10.9 0.7 6.8 5.7 5.1 8.3 8.05 8.26 - 7.5	7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.5 6.9 7.8 7.8 7.87 7.68 7.80 7.87	-16.20 -16.10 -11.46 -11.46 -12.90 -12.90 -11.90 -11.90 -11.95 -11.55 -12.46 -11.95 -15.43 -15.43 -15.41 -15.43 -15.41 -15.43 -15.41 -15.48 -15.46	-123.0 -123.5 -88.0 -99.0 -99.0 -99.0 -88.0 -87.0 -87.0 -87.3 -87.0 -87.3 -87.0 -87.1 -111.3 -111.4 -115.6 -111.4 -111.5 -114.4 -113.4 -113.4 -113.4 -114.5 -114.1 -114.5 -114.1 -114.2	64.7 64.7 57.6 63.4 35.5 55.3 39.7 39.8 40.5 40.4 41.6 40.3 41.8 41.3 41.3 40.5 - 1.4 41.3 40.5	19.3 19.3 15.9 15.9 16.6 8.8 14.3 10.9 11.0 10.8 10.7 11.3 10.7 10.5 10.8 10.7	23.9 23.9 23.9 19.4 17.6 18.8 11.6 16.9 4.1 4.1 4.3 3.6 4.3 4.2 4.14 4.06 4.23 - 3.65	0.3 0.3 0.3 0.3 0.3 4 4.2 2.0 2.4 0.7 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.7 1.10 0.76 0.76	9.1 9.1 9.1 9.1 17.5 16.5 16.4 7.2 14.4 2.1 2.1 2.1 2.4 2.4 2.3 2.2 2.3 2.2 2.3 - 2.1 1.4 1.9	319.0 319.0 319.0 256.0 277.0 153.0 173.0 172.0 177.0 168.0 177.0 168.0 177.0 168.0 177.0 166.0 167.0 167.0 167.0 167.0 167.0 167.0 177.0 168.0 177.0 168.0 177.0 168.0 177.0	13.0 13.0 12.0 12.7 8.7 8.1 10.4 7.3 7.3 7.1 7.3 7.7 7.9 7.5 7.7 - 7.6	53.4 53.4 53.4 57.8 48.8 57.2 42.0 51.5 11.9 12.1 9.2 11.8 11.1 11.2 11.3 11.5 - 11.2		58499 361 361 477 207 58492 60082 61614 62035 57697 60080 60785 61479 62030 62833A 63219 63562 64734 	4 5	GS999 GS144 GS144 GS78 DRI-ER-1 ER-1 ER-1 ER-1 ER-1	Surface Surface Spring	238 238 268 268 191 191 105 105 105 105 105 105 105 105 270 270 270 270 270 270 270 270 270 270	08/23/83 01/14/04 07/23/81 07/23/81 07/23/81 07/23/81 02/02/84 01/13/03 10/13/03 10/13/03 10/15/03 04/28/04 06/23/04 09/22/04 09/22/04 09/22/04 09/22/04
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring Unnamed Spring near Pony Spring Unnamed Spring near Pony Spring Unper Riggs Spring WR4 Upper Riggs Spring WR2 Upper Terrace Spring WR2 U	39.28167 - 39.28167 - 37.45202 - 37.45202 - 38.32139 - 38.32139 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 39.08664 -	115.39000 115.39000 114.65831 114.65831 114.64222 114.64222 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.92565 <td< th=""><th>11.7 11.5 11.5 11.5 10.8 10.1 10.8 10.1 10.8 10.1 10.9 13.2 6.0 11.4 - - - - - - - - - 7.7 7.7</th><th>3.6 3.6 3.6 4.4 10.9 0.7 5.7 5.1 5.1 8.0 8.05 8.26 7.55 7.09</th><th>7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.5 6.9 7.5 6.9 7.87 7.87 7.87 7.87 7.80</th><th>-16.20 -16.10 -11.46 -12.90 -12.90 -11.90 -11.90 -11.90 -11.95 -11.55 -12.46 -11.95 -11.55 -12.46 -11.95 -15.43 -15.43 -15.44 -15.43 -15.44 -15.43 -15.44 -15.43 -15.44 -15.43 -15.44 -15.43 -15.44 -15.45 -15.44 -15.45 -1</th><th>-123.0 -123.5 -88.0 -99.0 -99.0 -99.0 -88.0 -87.0 -87.0 -87.3 -87.0 -87.1 -111.3 -111.4 -111.8 -111.6 -113.4 -114.4 -114.4 -113.7 -114.4 -113.7 -114.1 -115.2</th><th>64.7 64.7 57.6 63.4 35.5 55.3 39.7 39.8 40.5 40.4 41.6 40.3 41.8 41.3 41.3 41.3 41.1</th><th>19.3 19.3 15.9 15.9 16.6 8.8 10.9 11.0 10.8 10.7 11.3 10.7 10.5 10.8 10.7 10.9 10.9</th><th>23.9 23.9 23.9 19.4 17.6 18.8 11.6 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.2 4.14 4.06 4.23 4.24</th><th>0.3 0.3 0.3 0.3 0.3 0.3 2.0 2.4 0.7 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.6 1.0 0.2</th><th>9.1 9.1 9.1 17.5 16.5 16.4 7.2 14.4 2.1 2.1 2.1 2.1 2.3 2.3 2.2 2.3 - 2.1 1.4</th><th>319.0 319.0 274.0 256.0 277.0 153.0 240.0 172.0 172.0 172.0 172.0 172.0 172.0 173.0 173.0 169.0 173.0 167 164 - - 166 169</th><th>13.0 13.0 13.0 12.0 12.7 8.7 8.1 10.4 7.3 7.3 7.1 7.4 7.3 7.7 7.7 7.5 7.7 7.7 7.5 7.7</th><th>53.4 53.4 57.8 48.8 57.2 42.0 51.5 11.9 12.1 9.2 11.8 11.8 11.1 11.2 11.3 11.5 11.2 11.2</th><th></th><th>56499 361 361 477 207 58492 60062 61614 62035 57696 57697 60080 60785 61479 62030 62633A 63219 63562 64734 63564 65651</th><th>4 5</th><th>GS999 GS144 GS144 GS78 GS78 DRI-ER-1 ER-1 ER-1 ER-1 ER-1</th><th>Surface Surface Spring</th><th>238 238 268 268 191 191 105 105 105 105 105 105 270 270 270 270 270 270 270 270 270 270</th><th>08/23/83 01/14/04 07/23/81 07/23/81 07/23/81 07/23/81 02/02/84 01/13/04 04/29/04 04/29/04 04/29/04 04/29/04 04/29/04 04/29/04 02/01/05 04/22/04 09/22/04 09/22/04 09/22/04 05/21/05 05/21/05 05/21/05 05/21/05</th></td<>	11.7 11.5 11.5 11.5 10.8 10.1 10.8 10.1 10.8 10.1 10.9 13.2 6.0 11.4 - - - - - - - - - 7.7 7.7	3.6 3.6 3.6 4.4 10.9 0.7 5.7 5.1 5.1 8.0 8.05 8.26 7.55 7.09	7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.5 6.9 7.5 6.9 7.87 7.87 7.87 7.87 7.80	-16.20 -16.10 -11.46 -12.90 -12.90 -11.90 -11.90 -11.90 -11.95 -11.55 -12.46 -11.95 -11.55 -12.46 -11.95 -15.43 -15.43 -15.44 -15.43 -15.44 -15.43 -15.44 -15.43 -15.44 -15.43 -15.44 -15.43 -15.44 -15.45 -15.44 -15.45 -1	-123.0 -123.5 -88.0 -99.0 -99.0 -99.0 -88.0 -87.0 -87.0 -87.3 -87.0 -87.1 -111.3 -111.4 -111.8 -111.6 -113.4 -114.4 -114.4 -113.7 -114.4 -113.7 -114.1 -115.2	64.7 64.7 57.6 63.4 35.5 55.3 39.7 39.8 40.5 40.4 41.6 40.3 41.8 41.3 41.3 41.3 41.1	19.3 19.3 15.9 15.9 16.6 8.8 10 .9 11.0 10.8 10.7 11.3 10.7 10.5 10.8 10.7 10.9 10.9	23.9 23.9 23.9 19.4 17.6 18.8 11.6 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.2 4.14 4.06 4.23 4.24	0.3 0.3 0.3 0.3 0.3 0.3 2.0 2.4 0.7 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.6 1.0 0.2	9.1 9.1 9.1 17.5 16.5 16.4 7.2 14.4 2.1 2.1 2.1 2.1 2.3 2.3 2.2 2.3 - 2.1 1.4	319.0 319.0 274.0 256.0 277.0 153.0 240.0 172.0 172.0 172.0 172.0 172.0 172.0 173.0 173.0 169.0 173.0 167 164 - - 166 169	13.0 13.0 13.0 12.0 12.7 8.7 8.1 10.4 7.3 7.3 7.1 7.4 7.3 7.7 7.7 7.5 7.7 7.7 7.5 7.7	53.4 53.4 57.8 48.8 57.2 42.0 51.5 11.9 12.1 9.2 11.8 11.8 11.1 11.2 11.3 11.5 11.2 11.2		56499 361 361 477 207 58492 60062 61614 62035 57696 57697 60080 60785 61479 62030 62633A 63219 63562 64734 63564 65651	4 5	GS999 GS144 GS144 GS78 GS78 DRI-ER-1 ER-1 ER-1 ER-1 ER-1	Surface Surface Spring	238 238 268 268 191 191 105 105 105 105 105 105 270 270 270 270 270 270 270 270 270 270	08/23/83 01/14/04 07/23/81 07/23/81 07/23/81 07/23/81 02/02/84 01/13/04 04/29/04 04/29/04 04/29/04 04/29/04 04/29/04 04/29/04 02/01/05 04/22/04 09/22/04 09/22/04 09/22/04 05/21/05 05/21/05 05/21/05 05/21/05
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring Upper Indian Spring Unnamed Spring near Pony Spring Unnamed Spring near Pony Spring Upper Riggs Spring WR4 Upper Terrace Spring WR2 Upper Terrace Sp	39.28167 - 39.28167 - 37.45202 - 37.45202 - 38.22139 - 38.32139 - 37.36833 - 37.36834 - 39.08664 - 39.08664 - 30.08664 - 30.086	115.39000 115.39000 114.65331 114.65331 114.64222 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.92565 <td< td=""><td>11.7 11.5 11.5 11.5 10.8 10.1 10.8 10.1 10.8 10.9 13.2 6.0 11.4 8.2 7.6 8.0 7.2 7.5 7.9 7.7 7.5</td><td>3.6 3.6 3.6 4.4 10.9 0.7 6.8 5.7 8.0 7.1 8.3 8.26 8.26 - 7.55 7.09 NA</td><td>7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.5 6.9 7.8 7.8 7.87 7.68 7.80 7.87</td><td>-16.20 -16.10 -11.46 -11.46 -12.90 -12.90 -11.90 -11.90 -11.95 -11.55 -12.46 -11.95 -15.43 -15.43 -15.41 -15.43 -15.41 -15.43 -15.41 -15.48 -15.46</td><td>-123.0 -123.5 -88.0 -99.0 -99.0 -99.0 -88.0 -87.0 -87.0 -87.3 -87.0 -87.3 -87.0 -87.1 -111.3 -111.4 -115.6 -111.4 -111.5 -114.4 -113.4 -113.4 -113.4 -114.5 -114.1 -114.5 -114.1 -114.2</td><td>64.7 64.7 57.6 63.4 35.5 55.3 39.7 39.8 40.5 40.4 41.6 40.3 41.8 41.3 41.3 40.5 - 1.4 41.3 40.5</td><td>19.3 19.3 15.9 16.6 8.8 14.3 10.9 11.0 10.8 10.7 10.5 10.5 10.5 10.7 10.5 10.7 10.9 10.7 10.9 10.9 10.9</td><td>23.9 23.9 23.9 23.9 19.4 17.6 18.8 11.6 16.9 4.1 4.1 4.1 4.3 4.3 4.2 4.14 4.06 4.23 - 3.65 4.34 4.07</td><td>0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3</td><td>9.1 9.1 9.1 9.1 17.5 16.5 16.4 7.2 14.4 2.1 2.1 2.1 2.4 2.4 2.3 2.2 2.3 2.2 2.3 - 2.1 1.4 1.9</td><td>319.0 319.0 319.0 256.0 277.0 153.0 173.0 172.0 177.0 168.0 177.0 168.0 177.0 168.0 177.0 166.0 167.0 167.0 167.0 167.0 167.0 167.0 177.0 168.0 177.0 168.0 177.0 168.0 177.0</td><td>13.0 13.0 13.0 12.7 8.7 8.1 10.4 7.3 7.3 7.7 7.9 7.5 7.7 6.5</td><td>53.4 53.4 53.4 57.8 48.8 57.2 42.0 51.5 11.9 12.1 9.2 11.8 11.8 11.1 11.2 11.3 11.5 - 11.2 11.2 10.6</td><td></td><td>56499 361 361 477 207 58492 60062 61614 62035 57696 57697 60080 60785 61479 62030 62633A 63219 63562 64734 63564 65651</td><td>4 5</td><td>GS999 GS144 GS144 GS78 GS78 DRI-ER-1 ER-1 ER-1 ER-1 ER-1</td><td>Surface Surface Spring</td><td>238 238 268 268 191 191 105 105 105 105 105 105 105 105 270 270 270 270 270 270 270 270 270 270</td><td>08/23/83 01/14/04 07/23/81 07/23/81 07/23/81 07/23/81 02/02/84 01/13/04 04/29/04 04/29/04 04/29/04 04/29/04 04/29/04 04/29/04 02/01/05 04/22/04 09/20/04 09/22/04 09/20/04 09/20/04 09/20/04 09/20/04 09/20/04 09/20/04 09/20/04 00/040</td></td<>	11.7 11.5 11.5 11.5 10.8 10.1 10.8 10.1 10.8 10.9 13.2 6.0 11.4 8.2 7.6 8.0 7.2 7.5 7.9 7.7 7.5	3.6 3.6 3.6 4.4 10.9 0.7 6.8 5.7 8.0 7.1 8.3 8.26 8.26 - 7.55 7.09 NA	7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.5 6.9 7.8 7.8 7.87 7.68 7.80 7.87	-16.20 -16.10 -11.46 -11.46 -12.90 -12.90 -11.90 -11.90 -11.95 -11.55 -12.46 -11.95 -15.43 -15.43 -15.41 -15.43 -15.41 -15.43 -15.41 -15.48 -15.46	-123.0 -123.5 -88.0 -99.0 -99.0 -99.0 -88.0 -87.0 -87.0 -87.3 -87.0 -87.3 -87.0 -87.1 -111.3 -111.4 -115.6 -111.4 -111.5 -114.4 -113.4 -113.4 -113.4 -114.5 -114.1 -114.5 -114.1 -114.2	64.7 64.7 57.6 63.4 35.5 55.3 39.7 39.8 40.5 40.4 41.6 40.3 41.8 41.3 41.3 40.5 - 1.4 41.3 40.5	19.3 19.3 15.9 16.6 8.8 14.3 10.9 11.0 10.8 10.7 10.5 10.5 10.5 10.7 10.5 10.7 10.9 10.7 10.9 10.9 10.9	23.9 23.9 23.9 23.9 19.4 17.6 18.8 11.6 16.9 4.1 4.1 4.1 4.3 4.3 4.2 4.14 4.06 4.23 - 3.65 4.34 4.07	0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	9.1 9.1 9.1 9.1 17.5 16.5 16.4 7.2 14.4 2.1 2.1 2.1 2.4 2.4 2.3 2.2 2.3 2.2 2.3 - 2.1 1.4 1.9	319.0 319.0 319.0 256.0 277.0 153.0 173.0 172.0 177.0 168.0 177.0 168.0 177.0 168.0 177.0 166.0 167.0 167.0 167.0 167.0 167.0 167.0 177.0 168.0 177.0 168.0 177.0 168.0 177.0	13.0 13.0 13.0 12.7 8.7 8.1 10.4 7.3 7.3 7.7 7.9 7.5 7.7 6.5	53.4 53.4 53.4 57.8 48.8 57.2 42.0 51.5 11.9 12.1 9.2 11.8 11.8 11.1 11.2 11.3 11.5 - 11.2 11.2 10.6		56499 361 361 477 207 58492 60062 61614 62035 57696 57697 60080 60785 61479 62030 62633A 63219 63562 64734 63564 65651	4 5	GS999 GS144 GS144 GS78 GS78 DRI-ER-1 ER-1 ER-1 ER-1 ER-1	Surface Surface Spring	238 238 268 268 191 191 105 105 105 105 105 105 105 105 270 270 270 270 270 270 270 270 270 270	08/23/83 01/14/04 07/23/81 07/23/81 07/23/81 07/23/81 02/02/84 01/13/04 04/29/04 04/29/04 04/29/04 04/29/04 04/29/04 04/29/04 02/01/05 04/22/04 09/20/04 09/22/04 09/20/04 09/20/04 09/20/04 09/20/04 09/20/04 09/20/04 09/20/04 00/040
Upper Illipah Crk Upper Illipah Crk Upper Indian Spring Unnamed Spring near Pony Spring Unnamed Spring near Pony Spring Unper Riggs Spring WR4 Upper Riggs Spring WR2 Upper Terrace Spring WR2 Upper	39.28167 - 39.28167 - 37.45202 - 37.45202 - 38.32139 - 38.32139 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 37.36833 - 39.08664 - 39.086	115.3000 115.3000 114.65831 114.65831 114.6422 114.64738 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.64778 114.92565 114.32565 114.32565 114.32565 114.32565 114.92565 114.92565 114.92565 114.92565 114.92565 114.925650 114.925650 114.925650 114.925650 114.925650 114.925650 114.925650 114.925650 114.925650 114.925650 114.925650 114.925650 114.925650 114.925650 114.925650 114.925650 114.925650 114.925650 114.925650	11.7 11.5 11.5 11.5 10.8 10.1 10.8 10.1 10.8 10.9 13.2 6.0 11.4 8.2 7.6 8.0 7.2 7.5 7.9 7.7 7.5	3.6 3.6 3.6 4.4 10.9 0.7 6.8 5.7 5.1 5.1 7.5 8.26 8.26 8.26 7.09 NA 7.4 	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.4 7.1 7.4 7.1 7.5 6.9 7.6 7.6 7.6 7.6 7.6 7.6	-16.20 -16.20 -11.46 -11.46 -12.90 -12.90 -11.90 -11.90 -11.95 -11.55 -12.46 -11.95 -15.43 -15.43 -15.43 -15.44 -15.44 -15.44 -15.44 -15.41 -15.41 -15.41 -15.41 -15.41 -15.41 -15.41 -15.41 -15.41 -15.41 -15.41 -15.42 -15.42 -15.46 -15.42 -15.46 -1	-123.0 -123.5 -88.0 -99.0 -99.0 -99.0 -88.0 -87.0 -87.0 -87.0 -87.0 -87.1 -111.3 -1114.9 -111.8 -1114.6 -113.7 -1114.4 -113.7 -114.4 -113.7 -114.1 -114.1 -114.1 -114.1 -114.1 -114.1 -114.1 -114.2 -1	64.7 57.6 63.4 35.5 55.3 39.7 39.8 40.5 40.4 41.6 40.3 41.8 41.3 40.5 - 41.4 41.1 40.5 - 41.4 41.1 40.7 20.2	19.3 19.3 15.9 16.6 8.8 14.3 10.9 11.0 10.8 10.7 11.3 10.7 10.5 10.8 10.7 10.9 10.9 10.9 10.9 10.7 10.9 3.3	23.9 23.9 23.9 19.4 17.6 18.8 11.6 16.9 4.1 4.1 4.1 4.3 4.2 4.14 4.06 4.23 	0.3 0.3 0.3 0.3 0.3 4 4.2 2.0 0.7 0.7 0.7 0.8 0.7 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	9.1 9.1 9.1 9.1 17.5 16.5 16.4 7.2 16.4 7.2 14.4 2.1 2.1 2.1 2.3 2.3 2.3 2.3 2.3 2.1 1.4 1.9 2.1 7.6	274.0 256.0 277.0 153.0 173.0 172.0 172.0 172.0 172.0 1680 177.0 1681 169 173.0 177.0 164 - 165 169 173.0 170.0 104.0	13.0 13.0 12.7 8.7 10.4 7.3 7.1 7.8 7.7 7.5 7.7 7.7 7.5 7.7 7.6 7.2 6.5 7.4 7.2	53.4 53.4 53.4 57.8 48.8 57.2 42.0 51.5 11.9 12.1 9.2 11.8 11.1 11.2 11.3 11.5 - 1.2 11.2 11.2 11.2 11.2 11.2 11.2 11.		56499 361 361 477 207 58492 60082 61614 62035 57696 57697 60080 60785 61479 62633A 63262 64734 63562 64734 65561 65651 65651 60081	4 5 6	GS999 GS144 GS144 GS78 GS78 DRI-ER-1 ER-1 ER-1 ER-1 ER-1	Surface Surface Spring	238 238 268 269 191 191 105 105 105 105 105 105 105 105 105 270 270 270 270 270 270 270 270 270 270	08/23/83 01/14/04 07/23/81 07/23/81 07/23/81 07/23/81 07/23/81 07/23/81 02/02/84 01/13/03 04/28/04 02/03/05 05/24/06 05/24/06 05/24/06 08/14/05 5/8/2007 04/28/04

USGS-MX C.V. Well (CV-DT-1) USGS-MX C.V. Well (CV-DT-1)	38.13778 -115.33861 38.13778 -115.33861	23.0	3.4 7.2	-14.60 -14.52	-110.0 -108.0	37.0	19.0	20.0	4.6	5.7	253.0	26.0	36.0	0.4	338 USGS		GS130	Well Well	176	10/15/81 6/25/2003
USGS-MX C.V. Well (CV-DT-1) USGS-MX CE, VF-1	38.13778 -115.33861 36.87528 -114.94528	23.0 28.0	3.4 7.2 7.0	-14.56 -12.65	-109.0 -94.0	37.0 41.0	19.0 7.5	20.0 34.0	4.6 1.2	5.7 42.0	253.0 156.0	26.0 20.0	36.0 14.0	0.4 0.5	338 157		GS130 GS56	Well Well	176 82	10/15/81 01/06/88
USGS-MX CE, VF-1 Valley of Fire Well	36.87528 -114.94528 36.42250 -114.54778	28.0 28.0	7.0 7.4	- 12.65 -10.60	-94.0 -82.0	41.0 118.0	7.5 53.0	34.0 39.0	1.2 8.2	42.0 21.0	156.0 164.0	20.0 449.0	14.0 8.3	0.5 0.2	1 57 58		GS56 PLC33	Well Well	82 31	01/06/88 06/24/85
Valley of Fire Well VF Spring 1	36.42250 -114.54778 36.40139 -114.40194	28.0 23.0	7.4 5.0 7.1	-10.60 -11.20	-82.0	118.0	53.0	39.0	8.2	21.0	164.0	449.0	8.3	0.2	58 53		PLC33 PL7	Well Spring	31 28	06/24/85 02/09/96
VF Spring 1 VF Spring 2	36.40139 -114.40194 36.40528 -114.43056	23.0 13.5	5.0 7.1 3.9 7.8	-11.20 -11.80	-88.0										53 55		PL7 PL6	Spring Spring	28 29	02/09/96
VF Spring 2	36.40583 -114.44389	13.5	3.9 7.8	-11.80	-92.0	537.0	208.0	295.0	54.4	278.0	169.0	2290.0	40.4		55 57		PL6	Spring	29	03/07/96
VF Spring 3 VF Spring 3	36.40583 -114.44389	15.0 15.0	5.3 7.6 5.3 7.6	-12.20	-93.0	537.0	208.0	295.0	51.1 51.1	278.0	169.0	2290.0	12.4 12.4		57		PL5	Spring Spring	30 30	03/07/96
Wamp Spring Wamp Spring	36.64167 -115.07000 36.64167 -115.07000	7.0 7.0	8.2 8.2	-10.60 -10.60	-81.0 -81.0	71.0 71.0	13.0 13.0	10.0 10.0	2.1 2.1	4.9 4.9	585.0 585.0	8.4 8.4	24.0 24.0	0.2 0.2	91 91		GS31 GS31	Spring Spring	52 52	03/20/87 03/20/87
Water Canyon Water Canyon Water Canyon	38.98816 -114.96032 38.98816 -114.96032 38.98816 -114.96032 38.98816 -114.96032	11.0 9.0 10.0	#DIV/0! #DIV/0!	-15.00 -15.50 -15.25	-115.0 -117.0 -116.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1033 1033		GS999 GS999	Surface Surface Surface	233 233 233	06/14/83 08/23/83
Water Canyon at USGS gage Water Canyon at USGS gage (duplicate sample) Water Canyon at USGS gage	38.98700-114.9550038.98700-114.9550038.98700-114.95500	 #DIV/0! #	 #DIV/0! #DIV/0!	-15.41 -15.43 -15.42	-109.5 -112.7 -111.1	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!	 #DIV/0!		2		Spring Spring Spring	271 271 271	10/24/03 10/24/03
Water Canyon Spring Water Canyon Spring	39.00691 -114.91063 39.00691 -114.91063	8.9 8.9	7.9 7.3 7.9 7.3	-15.60 -15.60	-114.4 -114.4	40.1 40.1	11.0 11.0	4.0 4.0	0.7 0.7	7.3 7.3	180.0 180.0	1.6 1.6	12.0 12.0	-	57695 57695	1 1		Spring Spring	358 358	10/14/03 10/14/03
Water Canyon Spring (Mahogany) Water Canyon Spring (Mahogany)	37.956621 -114.064936 37.956621 -114.064936	11.1 11.1	2.21 7.11 2.21 7.11	-13.68 -13.68	-100.4 -100.4	81.9 81.9	11.8 11.8	9.44 9.44	1.12 1.12	5.1 5.1	210 210	84.1 84.1	17.2 17.2	1.58 1.58	64906 64906		MG-3 MG-3	Spring Spring	420 420	06/22/06 06/22/06
Water Tank 0.4mi West of Sixmile Water Tank 0.4mi West of Sixmile	37.49119 -115.09605 37.49119 -115.09605	-		-12.44 -12.44	-93.8 -93.8	2	-				-	-		-	61106C 61106C	1 1		Spring Spring	297 297	07/30/04 07/30/04
Weaver Well Weaver Well	37.74472 -114.43070 37.74472 -114.43070	17.0 17.0	7.7 7.7	-13.10 -13.10	-101.0 -101.0	100.0 100.0	42.0 42.0	110.0 110.0	14.0 14.0	110.0 110.0	430.0 430.0	180.0 180.0	73.0 73.0	2.9 2.9	283 283		GS100 GS100	Well Well	137 137	06/04/85 06/04/85
Well at Alligator Ridge Well at Alligator Ridge	39.73735 -115.51432 39.73735 -115.51432	34.0 34.0	4.1 7.2 4.1 7.2	-16.60 -16.60	-127.0 -127.0	60.0 60.0	23.0 23.0	19.0 19.0	6.5 6.5	6.7 6.7		52.0 52.0	26.0 26.0	1.0 1.0	469 469		GS260 GS260	Well Well	243 243	04/24/84 04/24/84
White Rock Spring (Sheep) White Rock Spring (Sheep) White Rock Spring (Sheep)	36.70791-115.2394236.70791-115.2394236.70791-115.23942	19.9 10.2 15.1	1.7 7.0 3.8 6.5 2.7 6.8	-9.96 -10.38 -10.17	-84.8 -86.1 -85.5	41.8 39.8 40.8	35.1 35.2 35.2	18.2 16.8 17.5	11.9 10.5 11.2	10.8 10.3 10.6	326.0 303.0 314.5	12.7 12.5 12.6	57.7 46.5 52.1	 #DIV/0!	61095 62398	1	DRI-SR-3	Spring Spring Spring	64 64 64	07/27/04 04/28/05
White Rock Spring (Butte) White Rock Spring (Butte)	40.06079 -115.16385 40.06079 -115.16385	9.4 9.4	6.0 6.4 6.0 6.4	-15.36 -15.36	-119.2 -119.2									-	62631 62631		DRI-BT-3 DRI-BT-3	Spring Spring	355 355	05/24/05 05/24/05
White Rock Well White Rock Well	38.12557 -114.17027 38.12557 -114.17027	14.5 14.5	7.9 7.9	-13.10 -13.10	-101.0 -101.0	68.0 68.0	10.0 10.0	11.0 11.0	4.0 4.0	51.0 51.0	168.0 168.0	20.0 20.0	61.0 61.0	0.6 0.6	336 336		E4 E4	Well Well	175 175	07/24/75 07/24/75
White Rock Spring (Seaman Range) White Rock Spring (Seaman Range)	37.89630 -115.01970 37.89630 -115.01970			-12.10 -12.10	-90.0 -90.0										308 308		Kirk1019 Kirk1019	Spring Spring	154 154	01/13/85 01/13/85
Wildhorse Spring (Fairview) Wildhorse Spring (Fairview)	38.19722 -114.60861 38.19722 -114.60861	8.0 8.0	7.6 7.6	-11.70 -11.70	-92.5 -92.5										348 348		GS136 GS136	Spring Spring	183 183	04/06/85 04/06/85
Wild Horse Spring (White Pine) Wild Horse Spring (White Pine)	39.33361 -115.44333 39.33361 -115.44333	17.5 17.5		-16.80 -16.80	-129.0 -129.0										466 466		GS251 GS251	Spring Spring	240 240	07/14/81 07/14/81
Warm Spring (White Pine Range) Warm Spring (White Pine Range)	38.94778 -115.22806 38.94778 -115.22806	53.0 53.0	1.0 9.3 1.0 9.3	-15.80 -15.80	-118.0 -118.0	1.6 1.6	<.12 <.12	61.0 61.0	0.6 0.6	9.4 9.4		16.0 16.0	56.0 56.0	13.0 13.0	453 453		GS204 GS204	Spring Spring	232 232	04/29/82 04/29/82
Willow Spring (KSV-1) Willow Spring (KSV-1) Willow Spring (KSV-1) Willow Spring (KSV-1) Willow Spring (KSV-1) Willow Spring (KSV-1)	37.09483 -114.83096 37.09483 -114.83096 37.09483 -114.83096 37.09483 -114.83096 37.09483 -114.83096 37.09483 -114.83096 37.09483 -114.83096 37.09483 -114.83096 37.09483 -114.83096	17.4 9.3 16.7 14.5	7.5 8.3 7.5 1.6 7.4 5.0 7.5	-11.90 -11.60 -11.57 -11.63 -11.60	-86.5 -88.0 -88.0 -89.1 -88.4	20.0 18.2 19.9 19.4	2.7 3.2 4.3 3.4	56.0 55.9 9.9 40.6	4.6 2.2 1.7 2.9	22.0 21.3 6.5 16.6	140.0 131.0 84.9 118.6	34.0 33.5 6.3 24.6	65.0 67.3 37.2 56.5	1.1 1.1	180 476 182 58489 62395	1	Kirk1026 GS67 DRI-DR-2	Spring Spring Spring Spring Spring Spring	92 92 92 92 92 92 92	 02/03/84 01/12/04 04/27/05
Willow Spring 2 (So.of Oak Sps.summit) Willow Spring 2 (So.of Oak Sps.summit)	37.55653 -114.69773 37.55653 -114.69773	13.7 13.7	2.5 7.4 2.5 7.4	-11.69 -11.69	-91.2 -91.2	59.4 59.4	14.7 14.7	25.5 25.5	1.8 1.8	13.6 13.6	274.0 274.0	15.2 15.2	55.7 55.7	-	59693 59693	1 1		Spring Spring	260 260	03/25/04 03/25/04
Wilson Creek Wilson Creek	38.31806 -114.40333 38.31806 -114.40333	17.0 17.0	8.0 8.0	-13.20 -13.20	-97.5 -97.5	21.0 21.0	3.3 3.3	11.0 11.0	2.9 2.9	7.0 7.0	77.0 77.0	11.0 11.0	39.0 39.0	0.3 0.3	358 358		E2 E2	Surface Surface	189 189	04/05/85 04/05/85
Wiregrass Spring (Sheep) Wiregrass Spring (Sheep) Wiregrass Spring (Sheep) Wiregrass Spring (Sheep) Wiregrass Spring (Sheep)	36.63325 -115.20842 36.63325 -115.20842 36.63325 -115.20842 36.63325 -115.20842 36.63325 -115.20842 36.63325 -115.20842	9.5 6.5 4.0 13.0	7.3 6.1 7.3 7.3	-12.80 -12.70 -12.85 -12.80 -12.55	-94.0 -96.0 -94.0 -91.5 -92.0	69.0 68.0 71.0 70.0	32.0 32.0 34.0 33.0	2.7 3.2 2.8 2.8	1.1 1.1 1.1 1.5	3.0 3.2 3.4 2.9	374.0	5.0 9.0 6.9 7.1	12.0 12.0 12.0 12.0	0.1 0.1 0.2	82 83 83.5 84 85		GS22 GS23 JIM GS24 GS25	Spring Spring Spring Spring Spring	49 49 49 49 49	10/28/81 05/11/83 10/09/86 03/20/87 06/17/87

Wiregrass Spring (Sheep) Wiregrass Spring (Sheep)	36.63325 -115.20842 36.63325 -115.20842 36.63325 -115.20842 36.63325 -115.20842 36.63325 -115.20842 36.63325 -115.20842 36.63325 -115.20842 36.63325 -115.20842 36.63325 -115.20842 36.63325 -115.20842 36.63325 -115.20842	14.0 5.4 4.0 5.0 8.0 5.0 7.0 8.2 2.3 9.9 2.5 8.3 4.0 8.4 4.3	7.3 -12.75 7.3 -12.85 7.4 -12.95 7.3 -12.87 6.9 -13.12 6.6 -13.76 - -13.19 7.2 -12.93	-94.0 -97.0 -95.5 -94.5 -94.0 -96.8 -101.2 -95.6 -95.1	72.0 3 72.0 3 69.0 3 67.8 3 74.4 4	33.0 3.1 34.0 3.1 34.0 2.8 36.0 3.1 33.2 2.5 40.6 3.9 34.2 3.0	1.0 5.7 1.0 1.1 1.0 1.3 1.6	3.8 2.6 2.7 3.7 3 3.9 4	372.0 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7 12.0 3 12.0 3 12.0 0 14.4 4 14.8 -	0.2 0.2 0.1 0.2	86 87 88 89 58487 60851 62400 	GS26 GS27 GS28 GS29 2 DRI-SR-2 SH-2	Spring Spring Spring Spring Spring Spring Spring Spring	49 49 49 49 49 49 49 49 49 49	08/04/87 01/05/88 04/06/88 12/12/88 01/17/04 06/30/04 06/30/04 04/29/05 04/29/06
Wiregrass Spring (Grant) Wiregrass Spring (Grant)	38.35211 -115.42693 38.35211 -115.42693	14.3 4.3 14.3 4.3	7.5 -13.29 7.5 -13.29	-101.4 -101.4								62831 62831		Spring Spring	372 372	06/30/05 06/30/05
Woodchuck Spring Woodchuck Spring	39.72453 -115.57297 39.72453 -115.57297	7.5 6.9 7.5 6.9	6.8 -15.55 6.8 -15.55	-119.6 -119.6							-	62706 62706	DRI-BK-2 DRI-BK-2		356 356	06/05/05 06/05/05
180W501 180W501	38.592009 -114.840798 38.592009 -114.840798		-14.12 -14.12	-105.6 -105.6								SNWA SNWA		Deep Well Deep Well	600 600	5/17/2006 5/17/2006
180W902 180W902	38.363315 -114.827504 38.363315 -114.827504		-14.12 -14.12	-104.7 -104.7								SNWA SNWA		Deep Well Deep Well	601 601	5/18/2006 5/18/2006
181M1 181M1 181W909M 181W909M	37.911628 -114.855283 37.911628 -114.855283 37.695999 -114.746389 37.695999 -114.746389		-13.67 -13.67 -13.50 -13.50	-105.0 -105.0 -104.6 -104.6								SNWA SNWA SNWA SNWA		Deep Well Deep Well Deep Well Deep Well	603 603 604 604	5/31/2006 5/31/2006 6/5/2006 6/5/2006
182M-1 182M-1	37.34683 -114.957963 37.34683 -114.957963		-14.07 -14.07	-109.6 -109.6								SNWA SNWA		Deep Well Deep Well	606 606	5/23/2006 5/23/2006
182W906M 182W906M	37.326909 -114.854631 37.326909 -114.854631		-13.33 -13.33	-100.3 -100.3								SNWA SNWA		Deep Well Deep Well	607 607	9/2/2005 9/2/2005
209M-1 209M-1	37.643513 -114.989498 37.643513 -114.989498		-13.53 -13.53	-104.7 -104.7								SNWA SNWA		Deep Well Deep Well	608 608	6/14/2006 6/14/2006
CSI-1 CSI-1	36.797679 -114.914709 36.797679 -114.914709		-13.08 -13.08	-102.6 -102.6								SNWA SNWA		Well Well	609 609	5/31/2005 5/31/2005
CSI-2 CSI-2	36.797681 -114.914709 36.797681 -114.914709		-12.90 -12.90	-100.2 -100.2								SNWA SNWA		Well Well	610 610	9/30/2005 9/30/2005
CSI-3 CSI-3	36.825539 -114.916667 36.825539 -114.916667		-13.03 -13.03	-99.6 -99.6								SNWA SNWA		Well Well	611 611	9/13/2006 9/13/2006
CSVM-2 CSVM-2	36.661822 -114.923053 36.661822 -114.923053		-13.14 -13.14	-97.7 -97.7								SNWA SNWA		Well Well	612 612	1/10/2006 1/10/2006
CSVM-3 CSVM-3	37.052496 -114.983361 37.052496 -114.983361		-13.10 -13.10	-98.0 -98.0								SNWA SNWA		Well Well	613 613	1/6/2006 1/6/2006
CSVM-4 CSVM-4	36.991061 -114.886481 36.991061 -114.886481		-13.41 -13.41	-102.5 -102.5								SNWA SNWA		Well Well	614 614	1/16/2006 1/16/2006
CSVM-5 CSVM-5	36.747576 -114.980445 36.747576 -114.980445		-12.67 -12.67	-95.0 -95.0								SNWA SNWA		Well Well	615 615	1/8/2006 1/8/2006
CSVM-6 CSVM-6	36.832502 -114.909164 36.832502 -114.909164		-12.97 -12.97	-100.7 -100.7								SNWA SNWA		Well Well	616 616	1/11/2006 1/11/2006
CSVM-7 CSVM-7	37.047013 -114.995714 37.047013 -114.995714		-12.51 -12.51	-93.6 -93.6								SNWA SNWA		Well Well	617 617	1/23/2006 1/23/2006
KPW-1 K PW-1			-14.00 -14.00	-104.0 -104.0								SNWA SNWA		Well Well	618 618	12/15/05 12/15/05