

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES

JASON KING, P.E.
STATE ENGINEER



DRY VALLEY
(HYDROGRAPHIC BASIN 13-198)

GROUNDWATER PUMPAGE INVENTORY

WATER YEAR 2014

Field Investigated by: John Guillory, P.E. & Christi Cooper

Report Prepared by: Christi Cooper

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ABSTRACT

This inventory represents the status and usage of all permitted, certificated and claims of vested right groundwater rights located within Dry Valley, Hydrographic Basin 13-198, for water year 2014 (October 1, 2013 through September 30, 2014). Also included are data associated with depth to groundwater.

The data presented are valid for the time period of this report, and may vary from previously published data as water rights within the basin are subject to administrative action, such as certification, cancellation, forfeiture, or withdrawal on a continuing basis.

For water year 2014 the permitted, certificated and claims of vested right groundwater rights totaled **6,212 acre-feet**. Estimated pumpage for the water year was **5,429 acre-feet**. For water year 2014, appropriations for irrigation (the largest manner of use in the basin) totaled 6,195 acre-feet and pumpage was 5,388 acre-feet. The second largest manner of use was pumping by exempt domestic wells, at 31 acre-feet. Exempt domestic wells are defined by Nevada Revised Statutes 534.013 and do not require a permit issued by the State Engineer.

HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER..... 198, REGION 13

HYDROGRAPHIC BASIN NAME DRY VALLEY

COUNTIES..... LINCOLN

NEAREST COMMUNITIES PANACA, PIOCHE

DESIGNATED NO

DENIALS BASED UPON WATER AVAILABILITY IRRIGATION

GROUNDWATER LEVEL MEASUREMENTS NDWR

ESTIMATED PUMPAGE INVENTORY, ACRE-FEET IN 2014..... 5,429*

STATE ENGINEER'S ORDERS.....NONE

COMMITTED GROUNDWATER RESOURCE: 6,212 ACRE-FEET.... DATE: FEBRUARY 2015

IRRIGATION6,195 RECREATION 8 STOCKWATER..... 7

WILDLIFE.....2

NOTE: Committed groundwater resource data are accurate for February 2015. Manner of use category totals vary over time, as rights are not necessarily static. Rights may be subject to change applications, certification, withdrawals, forfeiture and cancellations; each of these circumstances could impact the duty, diversion rate and acreage associated with a given right.

*Includes pumpage by exempt domestic wells, as defined by NRS 534.013. The domestic use estimate is based upon a count of the total domestic wells in the basin multiplied by 1 acre-foot per annum. The number of domestic wells in the basin, obtained by a query of the [Nevada Division of Water Resources Well Log Database](#), is estimated to be 31.

PURPOSE AND SCOPE

The purpose of this report is to inventory all of the groundwater resources allocated and described by the Office of the State Engineer, Nevada Division of Water Resources (NDWR), and to estimate the amount of groundwater pumped within the Dry Valley Hydrographic Basin (13-198), for the time period beginning October 1, 2013 and ending September 30, 2014 (hereafter referred to as water year 2014). This report estimates the amount of groundwater pumped under the permits and certificates issued by the State Engineer, claims of vested right, and the amount pumped by exempt domestic wells within the basin. Associated information, such as groundwater level measurements, are also presented.

DESCRIPTION OF THE STUDY AREA

Dry Valley is a small basin located within Lincoln County, in central eastern Nevada (Figure 1). The valley is approximately 10 miles east of Pioche, Nevada, and is within the Colorado River Hydrographic Region.

Dry Valley is bounded on the east by the Needle Mountain Range and on the north by part of the Wilson Creek Range. Hamlight Canyon is on the west edge of Dry Valley. The northwest boundary is formed by intermittent hills separating Dry Valley from Patterson Valley. The south boundary is formed by intermittent hills separating Dry Valley from Panaca Valley. The adjacent Nevada hydrographic basins are as follows: Panaca Valley (13-203), to the south; Patterson Valley (13-202), to the west; Rose Valley (13-199) and Eagle Valley (13-200), to the north; and Escalante Desert (12-197), to the east.

GROUNDWATER LEVELS

Depths to groundwater in Dry Valley are measured by NDWR on a semi-annual basis. These include:

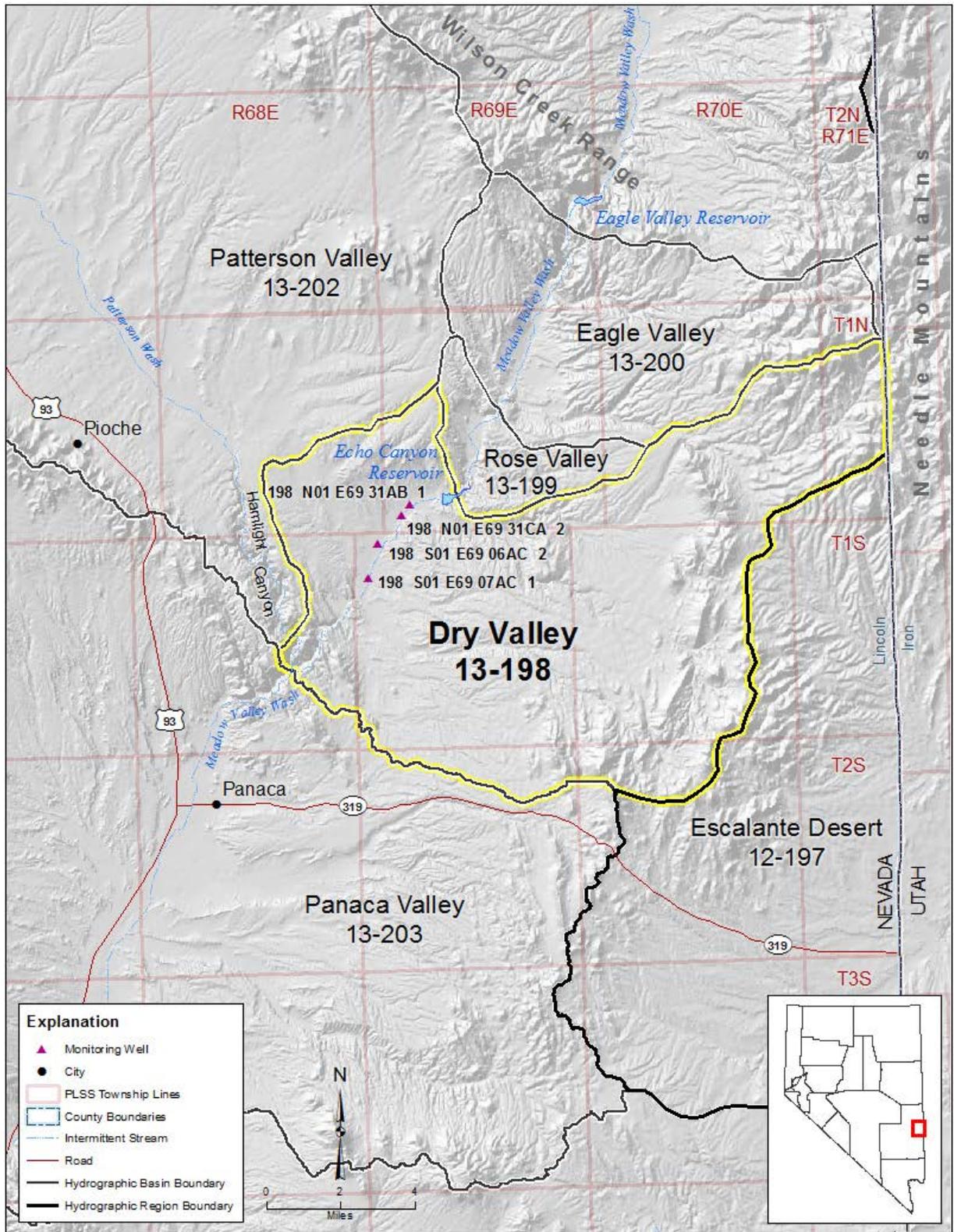
[198 N01 E69 31AB 1](#)
[198 N01 E69 31CA 2](#)

[198 S01 E69 06AC 2](#)

[198 S01 E69 07AC 1](#)

Groundwater level data have also been collected by the US Geological Survey (USGS), and may be accessed through their website (<http://nevada.usgs.gov/>).

FIGURE 1. PHYSIOGRAPHIC MAP OF DRY VALLEY, HYDROGRAPHIC BASIN 13-198.



METHODS TO ESTIMATE PUMPAGE

This report estimates the amount of groundwater pumped under the permits and certificates issued by the Nevada State Engineer as well as claims of vested right and exempt domestic wells in the Dry Valley Hydrographic Basin. The following methods were used to arrive at the estimated use:

- Where totalizing meters are in place, meter readings were taken and compared with previous data (if available).
- Where meters were not in place and the use was irrigation, pumpage was estimated by multiplying the number of hours the well was operated during the past year (determined from an hour meter reading or asking the water user) by the certificated diversion rate.
- Where there are no flow meters or other reliable options for estimating pumpage and the use was irrigation, pumpage was estimated by dividing the Net Irrigation Water Requirement (NIWR) for the crop grown by the efficiency of the irrigation method used, then multiplying by the number of acres irrigated. Irrigation efficiencies associated with three types of irrigation methods are as follows: pivot at 85%; wheel line or other hand moved sprinklers at 75%; and flood at 60%. The pumpage amount estimated by this method was limited by the duty of the permit. For places where the groundwater rights are supplemental to surface water, groundwater use is estimated using the NIWR method above, but is adjusted based on available surface water for the year. Evapotranspiration and NIWR data by basin can be found on the NDWR website at: http://water.nv.gov/mapping/et/et_general.cfm. This approach using the NIWR to estimate pumpage was not used in previous inventories, and pumpage estimates for 2014 may differ significantly from estimates for previous years.
- Where meters were not present, previous data were not available, and the manner of use was not irrigation, pumpage was estimated by applying the annual duty associated with the certificate (if the water right was perfected), permit or claim, if the use was as described in the certificate, permit or claim. If the use was not as described in the certificate, permit or claim, a value was estimated based upon the circumstances of use for the subject year.
- Exempt domestic wells may be drilled and utilized where water service from a purveyor is not available. These types of wells do not require a permit from the State Engineer if they do not pump more than 2 acre-feet per year as provided by Nevada Revised Statutes (NRS) [534.180](#). [NRS 534.013](#) defines this category of domestic use as follows: “*Domestic use or domestic purposes extends to culinary and household purposes directly related to a single family dwelling, including, without limitation, the watering of a family garden and lawn and the watering of livestock and any other domestic animals or household pets.*” The number of exempt domestic wells in the basin was determined by a query of the NDWR Well Log Database. The amount of water pumped by exempt domestic wells is estimated to be 1 acre-foot per well in Dry Valley.

PUMPAGE BY MANNER OF USE

Note that all data herein are estimates and are subject to revision. The total estimated groundwater pumpage for water year 2014 was **5,429 acre-feet**. The annual duties of the certificates, permits and claims of vested right within the Dry Valley Hydrographic Basin totaled **6,212 acre-feet**. For water year 2014, the appropriated and actual pumped totals are categorized by manner of use, as follows:

A. Irrigation (IRR)

Appropriations for irrigation purposes totaled 6,195 acre-feet, with estimated groundwater pumpage of 5,388 acre-feet.

B. Recreation (REC)

Appropriations for recreation purposes totaled 8 acre-feet, with estimated pumpage of 5 acre-feet.

C. Stockwater (STK)

Appropriations for stockwater purposes totaled 7 acre-feet, with estimated groundwater pumpage of 4 acre-feet.

D. Wildlife (WLD)

Appropriations for wildlife totaled 2 acre-feet in the basin, with estimated groundwater pumpage of 1 acre-foot.

E. Domestic (DOM)

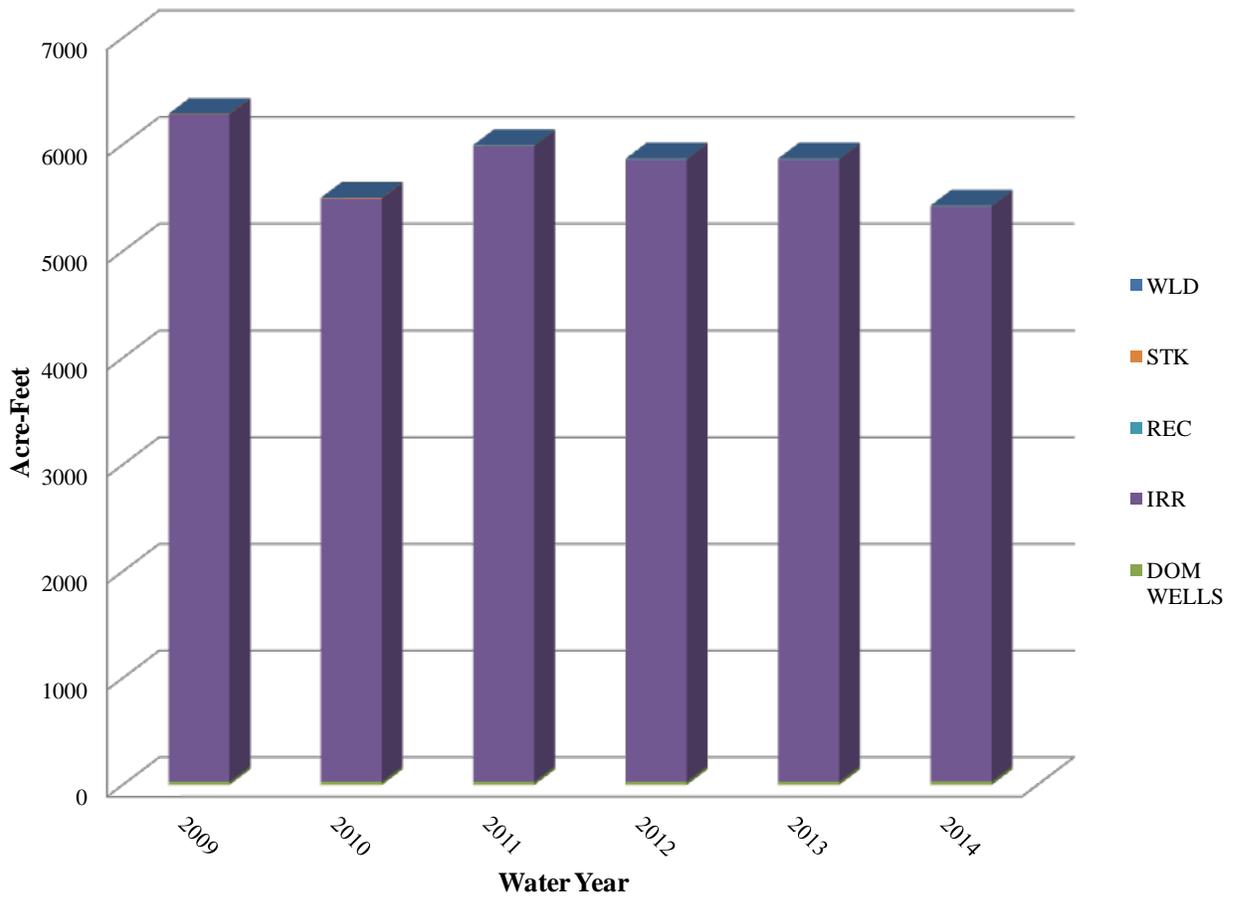
Appropriations for domestic purposes totaled 0 acre-feet in the basin. However, records of the State Engineer indicate an estimated 31 exempt domestic wells existed in the basin. The amount of water pumped for domestic use as described under NRS 534.013 is estimated at 31 acre-feet.

APPENDIX A. DRY VALLEY HISTORICAL PUMPAGE.

HISTORICAL GROUNDWATER PUMPAGE BY MANNER OF USE

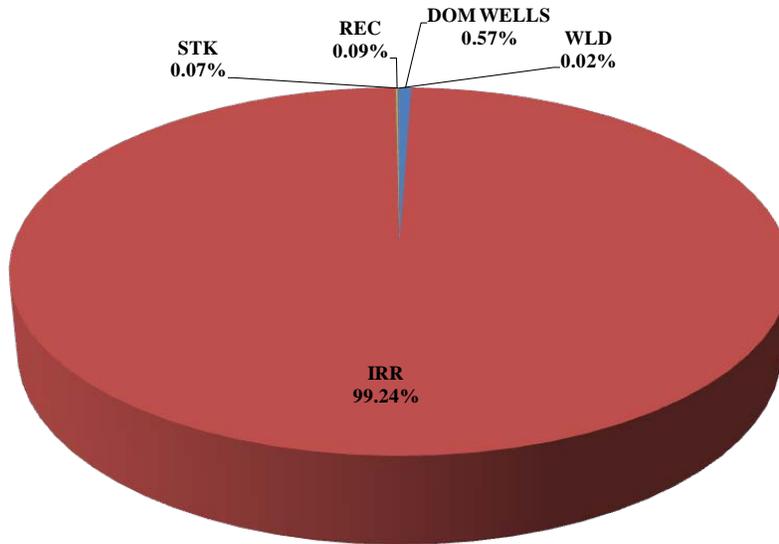
YEAR	DOM WELLS	IRR	REC	STK	WLD	TOTAL
2009	28	6252	1	7	0	6288
2010	30	5463	1	7	1	5502
2011	30	5955	7	4	1	5997
2012	30	5828	7	4	1	5870
2013	30	5828	7	4	1	5870
2014	31	5388	5	4	1	5429

All values are in acre-feet

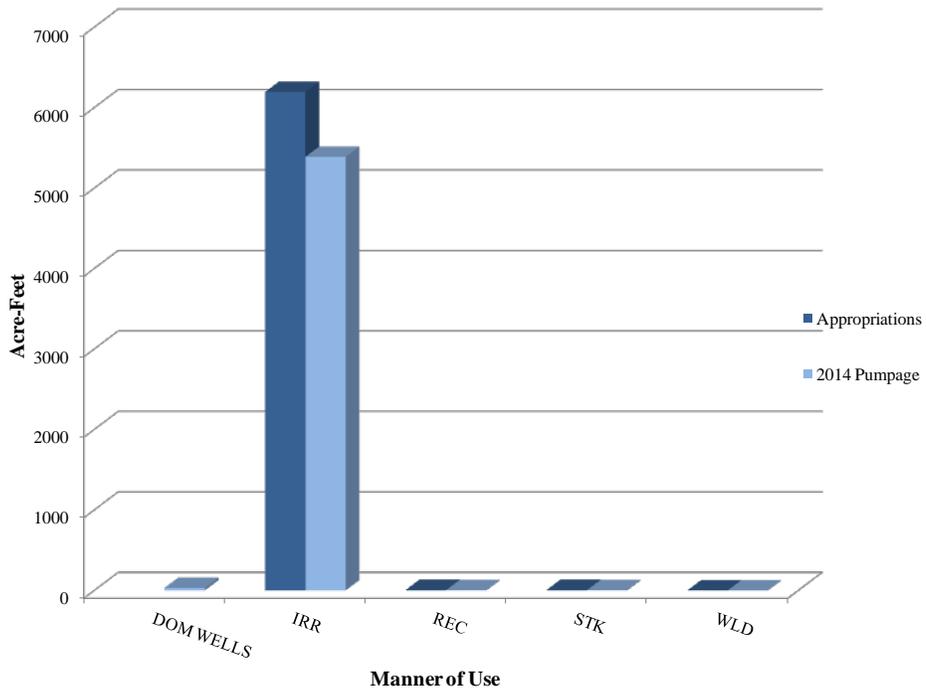


**APPENDIX B. DRY VALLEY GROUNDWATER PUMPAGE FOR WATER
YEAR 2014 BY MANNER OF USE.**

PERCENTAGE OF GROUNDWATER PUMPAGE FOR WATER YEAR 2014 BY MANNER OF USE



GROUNDWATER PUMPAGE FOR WATER YEAR 2014 APPROPRIATIONS vs. ACTUAL PUMPAGE



**APPENDIX C. DRY VALLEY GROUNDWATER PUMPAGE FOR WATER
YEAR 2014.**

EXPLANATION OF COLUMN HEADINGS FOR GROUNDWATER PUMPAGE INVENTORY

APP NUMBER	The file number of the Application or the Vested Claim of Right.																
STATUS	Indicates if the application is a Vested Claim of Right (VST), a Permit (Permit), or a Certificate (Cert).																
OWNER OF RECORD	The owner of the water right as recorded in the files of the State Engineer. A water right may have more than one owner of record.																
PLACE OF USE																	
QQ	The quarter quarter of the Section in which the point of diversion is located.																
Qtr	The quarter of the Section in which the point of diversion is located.																
Sec	The Section in which the point of diversion is located.																
T	The Township in which the point of diversion is located.																
R	The Range in which the point of diversion is located.																
ACRES OR DUTY	The number of acres that are permitted to be irrigated or the duty if the manner of use is anything other than irrigation.																
ACRES IRR OR USE	<p>The number of acres irrigated or the manner of use of the appropriated water. The types of manner of use may include:</p> <table border="0" style="width: 100%;"> <tr> <td>COM - Commercial</td> <td>CON - Construction</td> </tr> <tr> <td>DOM - Domestic</td> <td>ENV - Environmental</td> </tr> <tr> <td>IND - Industrial</td> <td>IRR - Irrigation</td> </tr> <tr> <td>MM - Mining & Milling</td> <td>MUN - Municipal</td> </tr> <tr> <td>OTH - Other</td> <td>PWR - Power</td> </tr> <tr> <td>QM - Quasi-Municipal</td> <td>REC - Recreation</td> </tr> <tr> <td>STK - Stockwater</td> <td>STO - Storage</td> </tr> <tr> <td>WLD - Wildlife</td> <td></td> </tr> </table>	COM - Commercial	CON - Construction	DOM - Domestic	ENV - Environmental	IND - Industrial	IRR - Irrigation	MM - Mining & Milling	MUN - Municipal	OTH - Other	PWR - Power	QM - Quasi-Municipal	REC - Recreation	STK - Stockwater	STO - Storage	WLD - Wildlife	
COM - Commercial	CON - Construction																
DOM - Domestic	ENV - Environmental																
IND - Industrial	IRR - Irrigation																
MM - Mining & Milling	MUN - Municipal																
OTH - Other	PWR - Power																
QM - Quasi-Municipal	REC - Recreation																
STK - Stockwater	STO - Storage																
WLD - Wildlife																	
USED (AF)	The amount of water used during the water year, in acre-feet, as determined by review of records and/or field investigation.																
REMARKS	Notes pertaining to field investigation and/or review of records.																

GROUNDWATER PUMPAGE INVENTORY
DRY VALLEY, NO. 198
2014

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE					ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T	R				
13803	Cert.	Delmue, Frank	NW	NE	13	1S	68	27.14	27.14		Pasture grass, NIWR = 3.3
14600	Cert.		NE	NE	13			23.48	23.48		Pasture grass, NIWR = 3.3
21497	Cert.		SW	NE	13			25.27	25.27		Pasture grass, NIWR = 3.3
			SE	NE	13			3.17	3.17		Pasture grass, NIWR = 3.3
			SW	SE	6	1S	69	22.00	22.00		Alfalfa, NIWR = 3.5
			SE	SE	6			17.50	17.50		Alfalfa, NIWR = 3.5
			NW	NE	7			23.50	23.50		Alfalfa, NIWR = 3.5
			NE	NE	7			15.00	15.00		Alfalfa, NIWR = 3.5
			SW	NE	7			37.90	37.90		Alfalfa, NIWR = 3.5
			SW	SW	7			17.01	17.01		Alfalfa, NIWR = 3.5
			SE	SW	7			31.07	31.07		Alfalfa, NIWR = 3.5
			NW	SE	7			29.60	29.60		Alfalfa, NIWR = 3.5
			SW	SE	7			12.90	12.90		Alfalfa, NIWR = 3.5
			NW	NW	18			3.34	3.34		Alfalfa, NIWR = 3.5
			NE	NW	18			<u>23.47</u>	<u>23.47</u>		Alfalfa, NIWR = 3.5
								312.35	312.35	1596.84	
16493	Cert.	Mathews	NE	SW	31	1N	69	33.50	33.50		
18352	Cert.		LT	3	31	1N	69	12.60	12.60		
20829	Cert.		LT	4	31	1N	69	27.70	27.70		
24217	Cert.		SE	SW	31	1N	69	18.10	18.10		
24218	Cert.		SE	SE	36	1N	68	17.50	17.50		
24219	Cert.		LT	4	5	1S	69	19.80	19.80		
			SW	NW	5	1S	69	12.30	12.30		
			LT	1	6	1S	69	18.10	18.10		
			LT	2	6	1S	69	1.70	1.70		
			SW	NE	6	1S	69	20.60	20.60		
			SE	NE	6	1S	69	<u>35.40</u>	<u>35.40</u>		
							217.30	217.30	894.76	Alfalfa, NIWR = 3.5	

GROUNDWATER PUMPAGE INVENTORY
DRY VALLEY, NO. 198
2014

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE					ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T	R				
22469	Cert.	Crawford Farms	NE	NE	31	1N	69	5.10	5.10		
24509	Cert.		SW	NE	31	1N	69	15.20	15.20		
37560	Cert.		SE	NE	31	1N	69	38.40	38.40		
37561	Cert.		NE	SW	31	1N	69	1.30	1.30		
43770	Cert.		SE	SW	31	1N	69	12.30	12.30		
43771	Cert.		NW	SE	31	1N	69	34.80	34.80		
			NE	SE	31	1N	69	17.00	17.00		
			SW	SE	31	1N	69	8.40	8.40		
			NW	NW	32	1N	69	15.10	15.10		
			SW	NW	32	1N	69	40.00	40.00		
			SE	NW	32	1N	69	0.80	0.80		
			NW	SW	32	1N	69	18.50	15.30		
			NE	SW	32	1N	69	30.50	28.50		
			SW	SW	32	1N	69	3.70	0.00		
			SE	SW	32	1N	69	13.70	6.20		
			SW	SE	32	1N	69	27.50	27.50		
			SE	SE	32	1N	69	26.90	26.90		
			SW	SW	33	1N	69	14.60	14.60		
			LT	8	34	1N	69	0.60	0.00		
			LT	2	2	1S	69	8.00	0.00		
		LT	3	2	1S	69	9.90	0.00			
		LT	4	2	1S	69	7.90	0.00			
		SE	NW	2	1S	69	22.40	0.00			
		SW	NW	2	1S	69	15.50	0.00			
		SW	NE	2	1S	69	3.90	0.00			
		LT	1	3	1S	69	18.30	0.00			
		LT	2	3	1S	69	16.80	10.80			
		LT	3	3	1S	69	19.20	14.20			

GROUNDWATER PUMPAGE INVENTORY
DRY VALLEY, NO. 198
2014

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE					ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T	R				
22469	Cert.	Crawford Farms cont'd.	LT	4	3	1S	69	16.80	16.80	181.5 Acre-feet is used from a spring which is co-mingled with groundwater for irrigation of 36.3 acres in Sections 2 & 34 under vested right V01795.	
24509	Cert.		SE	NW	3	1S	69	13.30	3.30		
37560	Cert.		SW	NE	3	1S	69	9.30	3.00		
37561	Cert.		SE	NE	3	1S	69	18.30	0.00		
43770	Cert.		LT	1	4	1S	69	11.00	11.00		
43771	Cert.		LT	2	4	1S	69	<u>0.90</u>	<u>0.90</u>		
							515.90	367.40	1512.82	Alfalfa, NIWR = 3.5	
34094	Cert.	NDCR - State Parks	NW	NE	32	1N	69	8.00	REC	4.66	1 AH, office, barn. S/N 7053765 RD - 58654300 - 10-10-11 Wellhouse locked 10-08-13 RD - 63234000 - 10-14-14
57149	Permit										
39270	Cert.	Bulloch	SE	SE	36	1N	68	12.80	0.00	749.03	Alfalfa, NIWR = 3.5
48184	Cert.		SW	SE	36			25.71	1.34		
48410	Cert.	SW	SW	36			0.69	0.89			
52000	Cert.	SE	SW	36			12.62	12.62			
77589	Permit	Frehner	Lot	1	6	1S	69	0.52	0.52		
77590	Den.	Bulloch	Lot	2	6			7.40	3.72		
77591	Den.		SW	NE	6			29.44	32.08		
77592	Den.		SE	NE	6			28.01	22.10		
77593	Den.		Lot	3	6			9.47	8.24		
			Lot	4	6			7.52	6.50		
			Lot	5	6			3.33	6.92		
			SE	NW	6			20.83	24.15		
			NW	SE	6			40.00	38.09		
			NE	SE	6			17.85	11.87		
			NE	SW	6			<u>4.78</u>	<u>4.78</u>		
							182.46	173.82	749.03	Alfalfa, NIWR = 3.5	
39271	Cert.	Gemmill	NW	NW	32	1N	69	18.00	18.00	331.06	Alfalfa, NIWR = 3.5
			NW	NE	31			32.00	30.00		
			NE	NE	31			<u>33.00</u>	<u>30.00</u>		
							83.00	78.00	331.06	Alfalfa, NIWR = 3.5	

**GROUNDWATER PUMPAGE INVENTORY
 DRY VALLEY, NO. 198
 2014**

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE					ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T	R				
65386	Cert.	F. Delmue	SE	SW	16	1S	70	2.24	STK	0.00	WV, not in use.
66106	Permit	BLM						1.45	WLD	0.00	
65388	Cert.	F. Delmue	NW	NE	29	1S	69	2.24	STK	2.24	WV, windmill. 10-5-09
65563	Cert.	Bulloch						2.24	STK	2.24	
66104	Permit	BLM						0.87	WLD	0.87	
71261	Can	J. Mathews	SW	NW	5	1S	69	4.70	4.70		Alfalfa, NIWR = 3.5
			SE	NE	6			<u>0.80</u>	<u>0.80</u>		
								5.50	5.50	25.67	
									TOTAL	5120.20	Permitted rights
			SW	SE	30	1N	69	0.00	0.90	3.71	No permit for POU
			SE	SE	30	1N	69	0.00	5.30	21.82	No permit for POU
			NE	NW	32	1N	69	0.00	1.50	7.00	No permit for POU
			SE	NW	32	1N	69	0.00	3.40	14.00	No permit for POU
			NW	SE	32	1N	69	0.00	3.10	12.76	No permit for POU
			SE	SW	33	1N	69	0.00	7.80	32.12	No permit for POU
			NE	NE	7	1S	69	0.00	10.20	42.00	No permit for POU
			SE	NE	7	1S	69	0.00	35.00	144.12	No permit for POU
									TOTAL	277.53	Non-permitted rights

Verified with field notes: Christi Cooper

**APPENDIX D. DRY VALLEY GROUNDWATER PUMPAGE INVENTORY
FIELD NOTES FOR WATER YEAR 2014.**

2014

DRY VALLEY

No. 198

Inventory Field Notes

compiled by
John Guillory, P.E. and Christi Cooper

State of Nevada
Division of Water Resources
Southern Nevada Branch Office

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 198 PERMIT NO: 13803, 14600 & 21497

WELL: YES NO METER SER NO: _____

PUMP: YES NO PUMP TYPE: See remarks

MOTOR: YES NO MOTOR TYPE: _____

METER: YES NO METER READ: _____

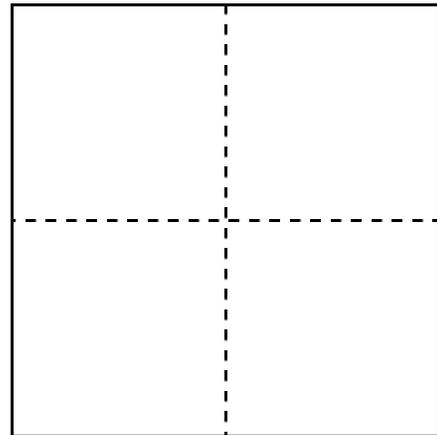
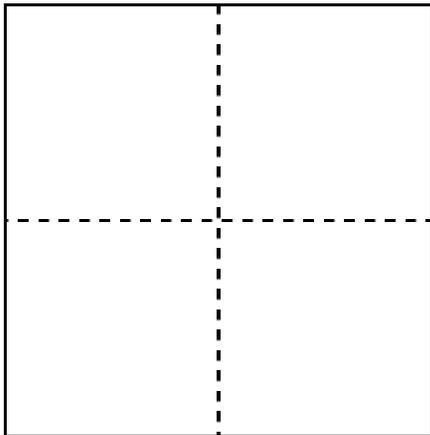
PHOTO: YES NO ACRES IRR: 312.35

BENEFICIAL USE: YES NO PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: POD 13803: No meter, Submersible pump

POD 14600: No meter, Turbine

POD 21497: Flowing well

Alfalfa and some pasture grass.

SIGNATURE: Christi Cooper DATE: 10/14/2014

PUMPAGE INVENTORY FIELD REPORT

16493, 18352,
20829, 24217
24218 & 24219

BASIN NO: 198

PERMIT NO: _____

WELL: YES NO _____

METER SER NO: _____

PUMP: YES NO _____

PUMP TYPE: See remarks

MOTOR: YES NO _____

MOTOR TYPE: _____

METER: YES _____ NO

METER READ: _____

PHOTO: YES _____ NO

ACRES IRR: 217.3

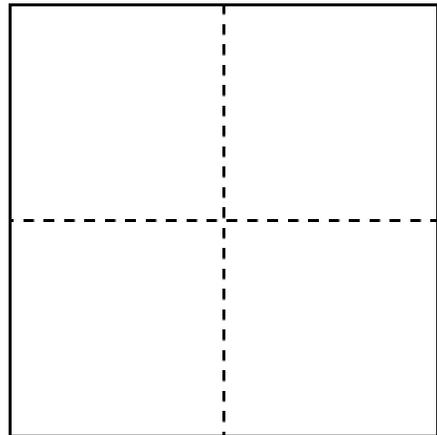
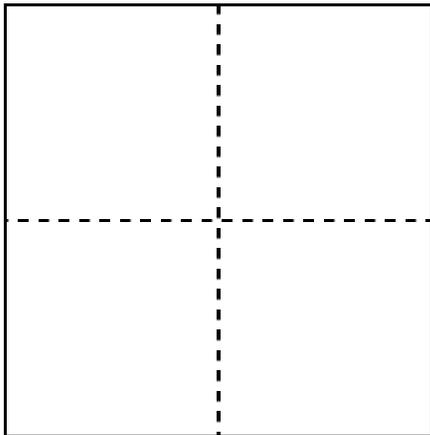
BENEFICIAL USE: YES NO _____

PORTION _____ ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

____ 1/4 ____ 1/4 SEC ____

____ 1/4 ____ 1/4 SEC ____



REMARKS: POD 16493 & 24217: No meter, Turbine

POD 18352 & 24218: No meter, Turbine

POD 20829 & 24219: No meter, Turbine

Alfalfa.

SIGNATURE: Christi Cooper

DATE: 10/14/2014

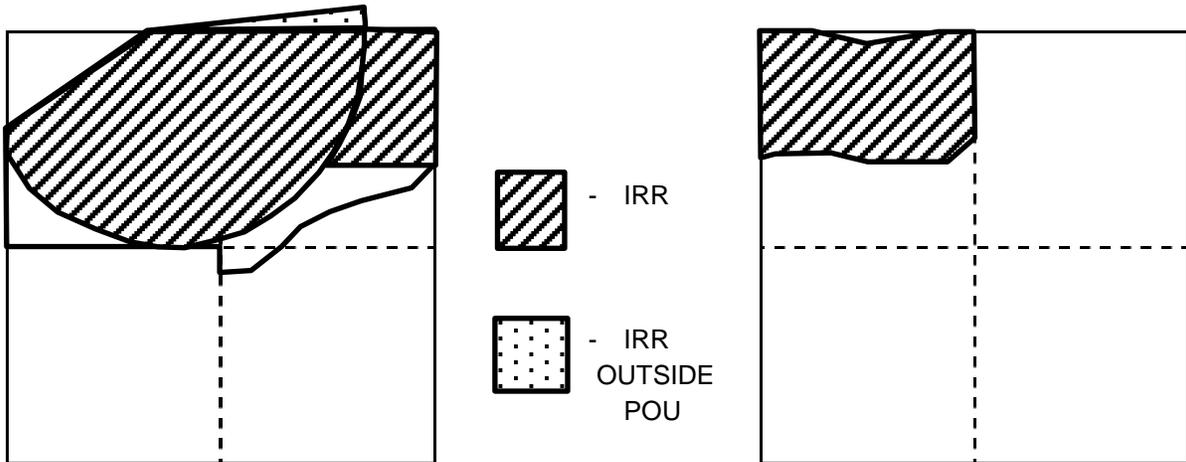
PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 198 PERMIT NO: 39271
 WELL: YES X NO METER SER NO:
 PUMP: YES X NO PUMP TYPE:
 MOTOR: YES NO X MOTOR TYPE:
 METER: YES NO X METER READ:
 PHOTO: YES NO X ACRES IRR: 78.0
 BENEFICIAL USE: YES X NO PORTION X ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 **NE** 1/4 SEC **31**

 1/4 **NW** 1/4 SEC **32**



REMARKS: Approximately 2 acres irrigated outside POU in Section 30.

Alfalfa.

SIGNATURE: Christi Cooper DATE: 10/14/2014

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 198

PERMIT NO: 71261

WELL: YES NO

METER SER NO: _____

PUMP: YES NO

PUMP TYPE: Turbine

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: _____

PHOTO: YES NO

ACRES IRR: 5.5

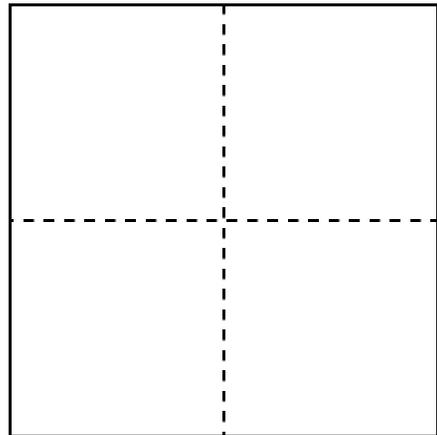
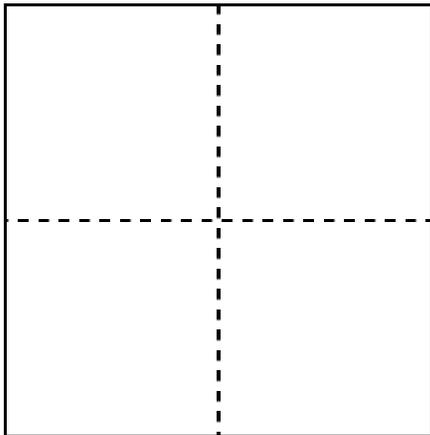
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: Permit Cancelled 07-18-08

Alfalfa.

SIGNATURE: Christi Cooper

DATE: 10/14/2014