

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 2015

Field Investigated by: Christi Cooper & John Guillory, P.E.
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 2015 (October 1, 2014 through September 30, 2015). Also included for summary purposes are graphs and data associated with this use, and yearly totals of historical groundwater use from 2009 through 2015 by manner of use.

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

For water year 2015, the permitted, certificated and claims of vested right groundwater rights totaled 6,210 acre-feet, with estimated pumpage of approximately **5,284 acre-feet**. This figure includes an estimated 31 acre-feet pumped from exempt domestic wells.

Irrigation is the largest manner of use within the basin. For water year 2015, appropriations for irrigation totaled 6,195 acre-feet and pumpage was 5,241 acre-feet. The second largest manner of use was pumping by exempt domestic wells, at 31 acre-feet.

HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER	198, REGION 13	
HYDROGRAPHIC BASIN NAME	DRY VALLEY	
COUNTIES	LINCOLN	
MAJOR COMMUNITIES	PANACA, PIOCHE	
DESIGNATED	NO	
DENIALS BASED UPON WATER AVAILABILITY	IRRIGATION	
GROUNDWATER LEVEL MEASUREMENTS	NDWR	
PUMPAGE INVENTORY, ACRE-FEET IN 2015	5,284 ¹	
STATE ENGINEER'S ORDERS	NONE	
COMMITTED GROUNDWATER RESOURCE: 6,210 ACRE-FEET	DATE: APRIL 2016	
IRRIGATION..... 6,195	RECREATION..... 8	STOCKWATER..... 7

NOTE: Committed groundwater resource data are accurate for April 2016. 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. The value associated with each manner of use category does not include those portions that have been relinquished in support of domestic wells.

¹ 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 1.0 acre-foot per annum. The number of domestic wells in the basin, estimated by a query of the Nevada Division of Water Resources Well Log Database, is approximately 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 Dry Valley Hydrographic Basin (13-198), for the time period beginning October 1, 2014 and ending September 30, 2015 (hereafter referred to as water year 2015). 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.

DESCRIPTION OF THE STUDY AREA

Dry Valley is a small basin located in central eastern Nevada, approximately 10 miles east of Pioche, within Lincoln County (see Figure 1). The basin lies 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 the Panaca Hills. The adjacent Nevada hydrographic basins are: 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 have been measured by the Nevada Division of Water Resources consistently since the late 1960's. There are four active sites and seven inactive sites in the monitoring well network. The following are the active site names and links to their data (refer to Figure 2):

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

[198 S01 E69 06AC 2](#)

[198 S01 E69 07AC 1](#)

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

METHODS TO ESTIMATE PUMPAGE

One of the purposes of this report is to estimate the amount of groundwater pumped under vested claims, permits and certificates issued by the State Engineer, as well as the amount pumped by the exempt domestic wells in the valley. The following methods were used to arrive at the estimated use:

- Where totalizing meters were 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 were 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: 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 were supplemental to surface water, groundwater use was estimated using the NIWR method above, but 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.
- 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 1.0 acre-foot per well in Dry Valley.

PUMPAGE BY MANNER OF USE

Note that all data herein are estimates and subject to revision.

The total estimated groundwater pumpage for the water year 2015 was 5,284 acre-feet. The annual duties of permitted, certificated and claims of vested groundwater rights within the Dry Valley Hydrographic Basin total approximately 6,210 acre-feet. Table 1 and Figure 3 show historical pumpage by manner of use; Figure 4 shows the percentage of water pumped by manner of use; and Figure 5 compares groundwater appropriations to actual pumpage. The permitted and pumped totals for water year 2015, categorized by manner of use, are as follows:

A. 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 during water year 2015. The amount of water pumped for domestic use as described under NRS 534.013 is estimated at 31 acre-feet.

B. Irrigation (IRR)

Appropriations for irrigation purposes totaled 6,195 acre-feet, with estimated groundwater pumpage of 5,241 acre-feet.

C. Recreation (REC)

Appropriations for recreation purposes totaled 8 acre-feet in the basin; groundwater pumpage was estimated to be 5 acre-feet.

D. Stockwater (STK)

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

TABLES

Table 1. Dry Valley historical pumpage (acre-feet) by water year.

YEAR	DOM WELLS	IRR	REC	STK	WLD	TOTAL
2009	28	6,252	1	7	0	6,288
2010	30	5,463	1	7	1	5,502
2011	30	5,955	7	4	1	5,997
2012	30	5,828	7	4	1	5,870
2013	30	5,828	7	4	1	5,870
2014	31	5,388	5	4	1	5,429
2015	31	5,241	5	7	0	5,284

All pumpage values are in acre-feet

FIGURES

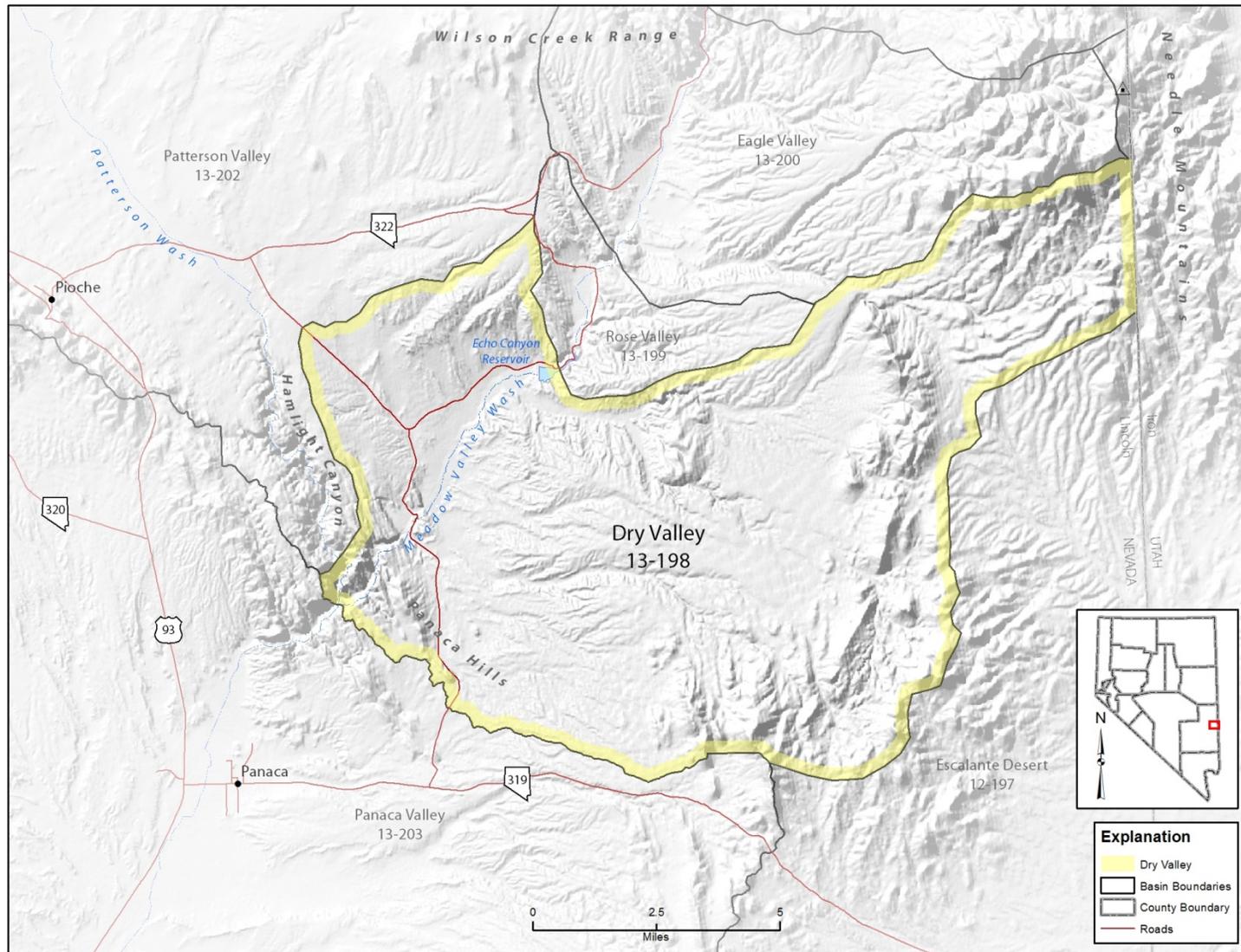


Figure 1. Location map for Dry Valley (Hydrographic Basin 13-198).

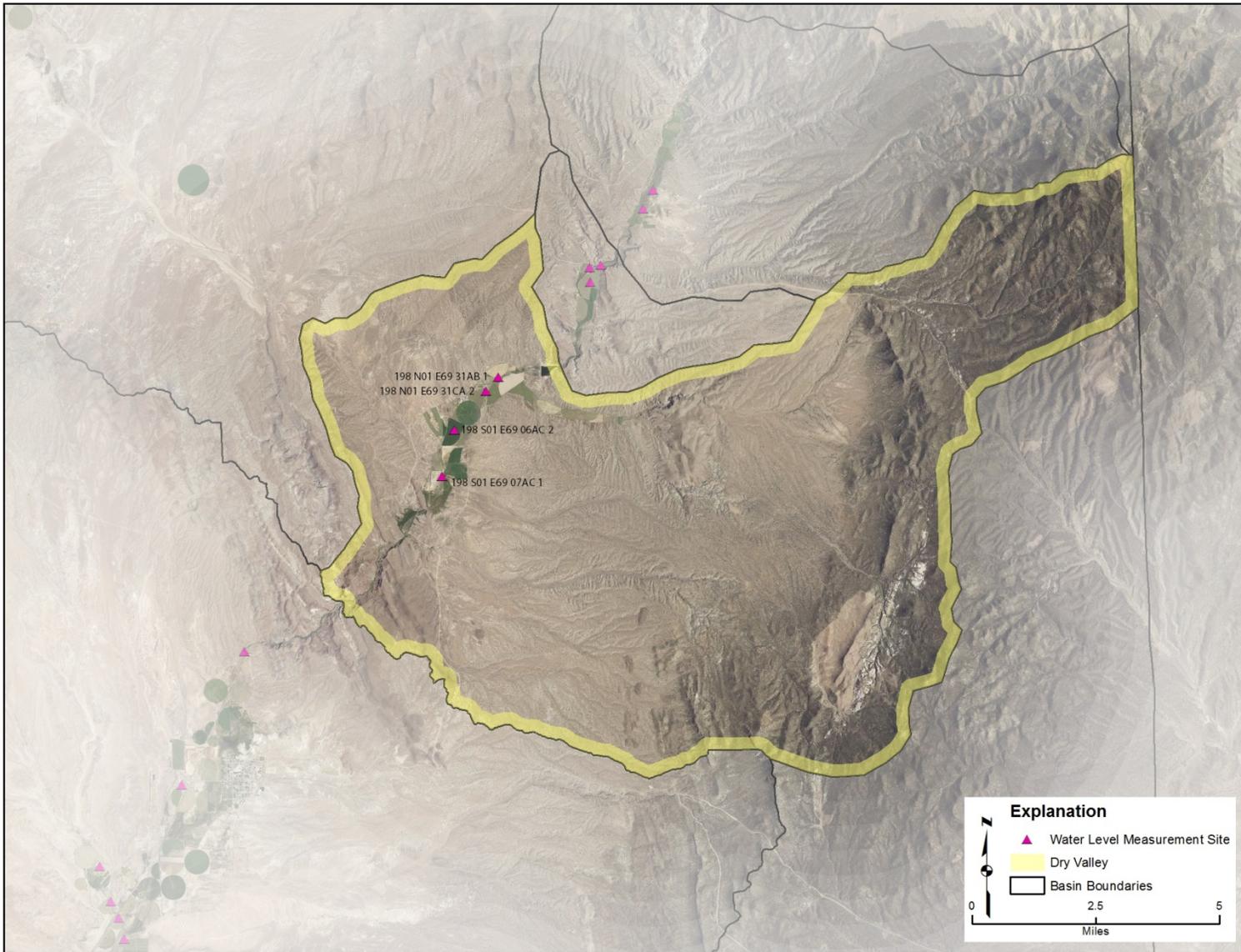


Figure 2. Map showing Dry Valley irrigated acreage and water level measurement sites.

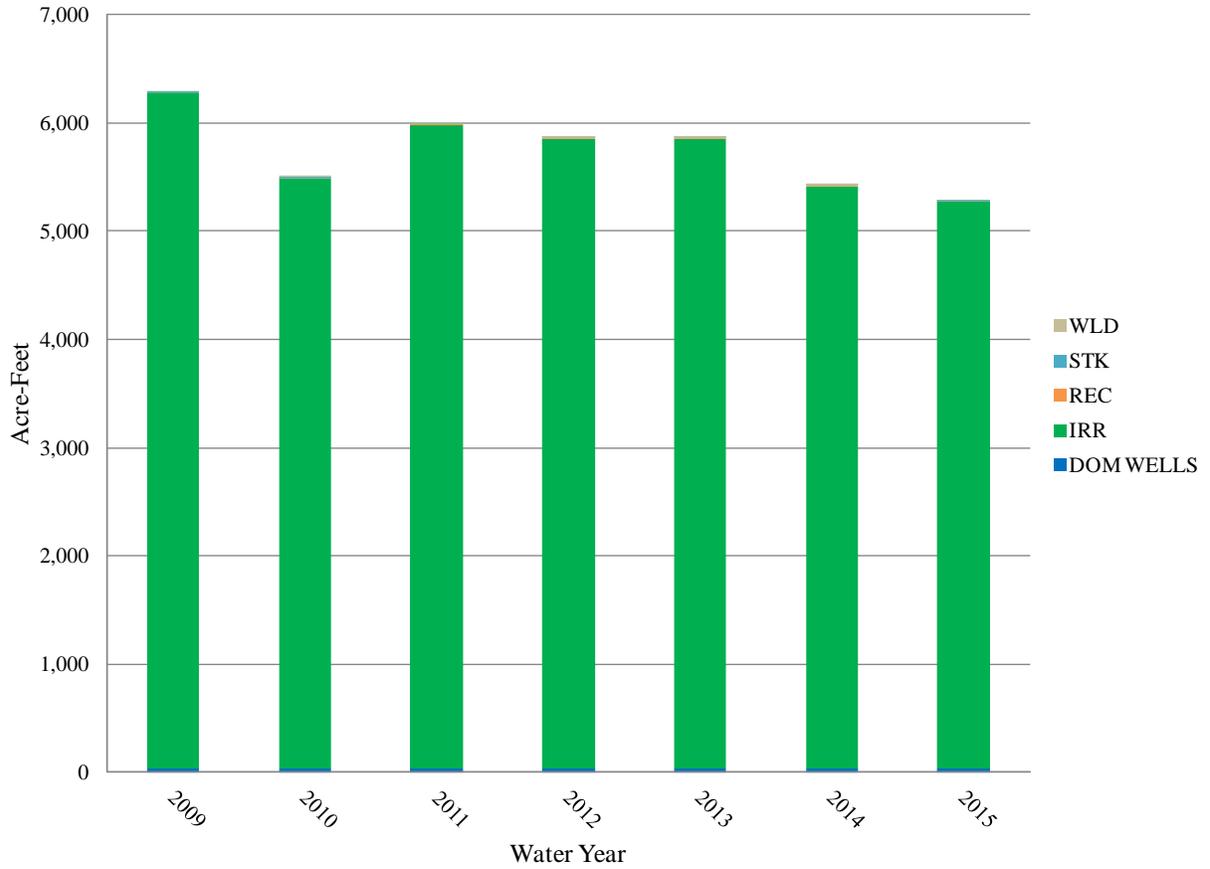


Figure 3. Dry Valley historical pumpage by manner of use.

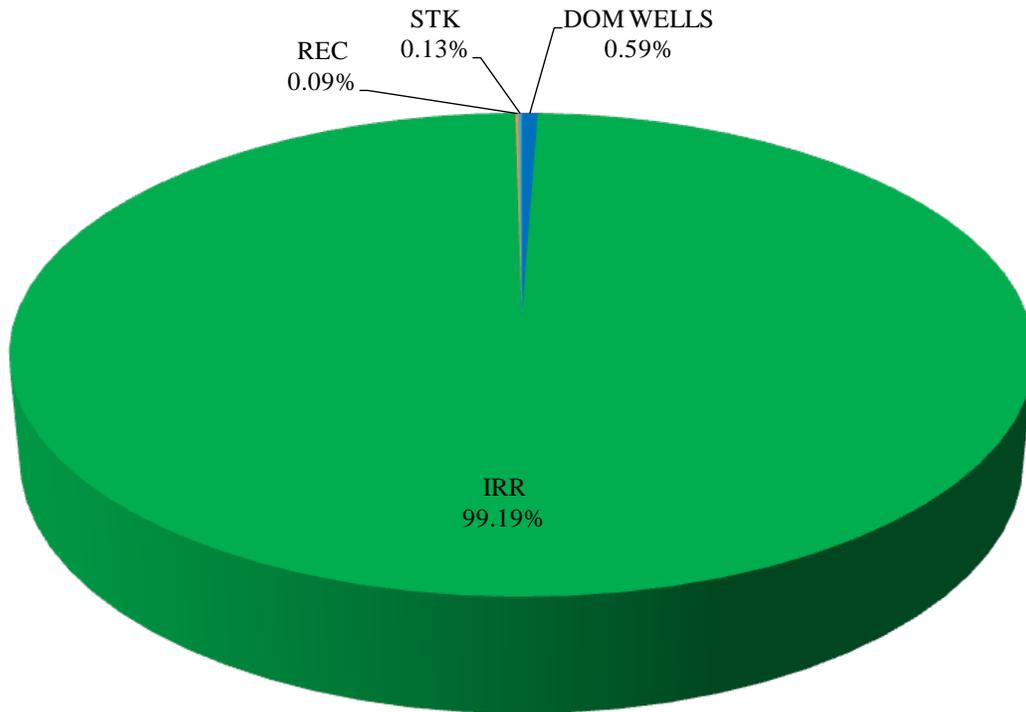


Figure 4. Percentage of 2015 groundwater pumpage by manner of use.

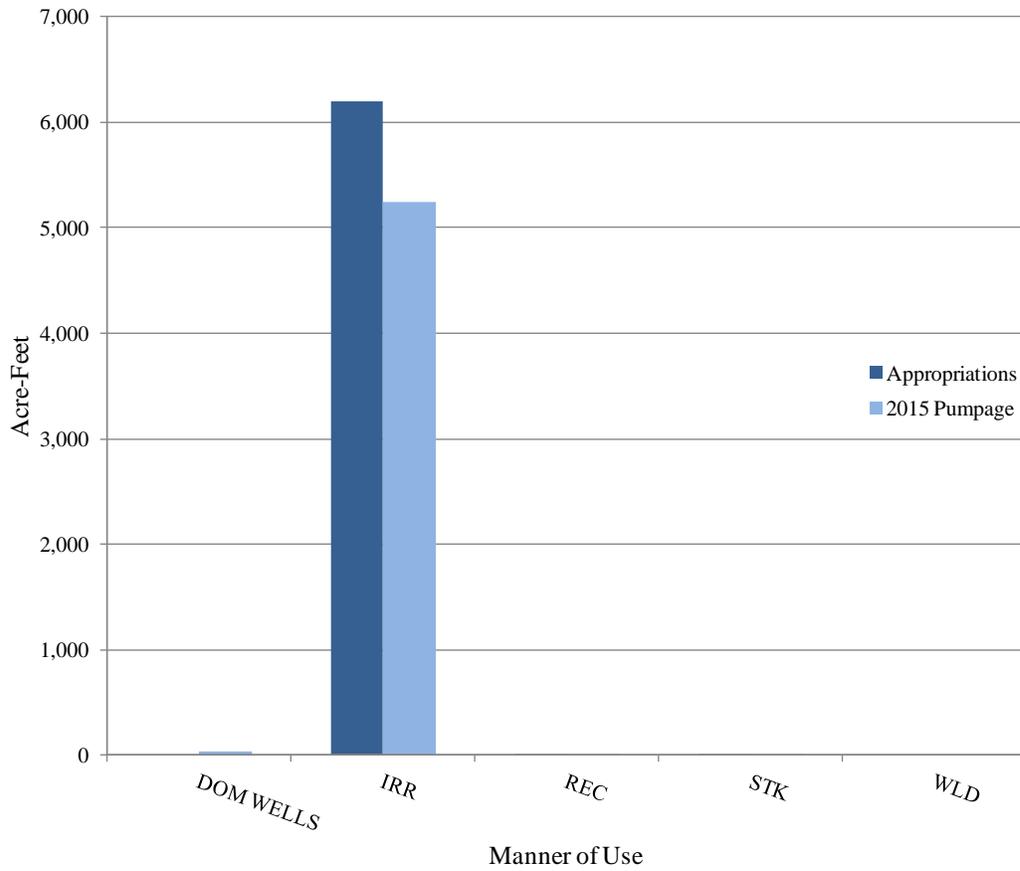


Figure 5. 2015 groundwater pumpage appropriations versus actual pumpage.

APPENDIX A. DRY VALLEY 2015 GROUNDWATER PUMPAGE BY APPLICATION NUMBER.

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 - 2015
DRY VALLEY, NO. 198**

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		Limited to duty
14600	Cert.		NE	NE	13			23.48	23.48		Limited to duty
21497	Cert.		SW	NE	13			25.27	25.27		Limited to duty
			SE	NE	13			3.17	3.17		Limited to duty
			SW	SE	6	1S	69	22.00	22.00		Limited to duty
			SE	SE	6			17.50	17.50		Limited to duty
			NW	NE	7			23.50	23.50		Limited to duty
			NE	NE	7			15.00	15.00		Limited to duty
			SW	NE	7			37.90	37.90		Limited to duty
			SW	SW	7			17.01	17.01		Limited to duty
			SE	SW	7			31.07	31.07		Limited to duty
			NW	SE	7			29.60	29.60		Limited to duty
			SW	SE	7			12.90	12.90		Limited to duty
			NW	NW	18			3.34	3.34		Limited to duty
			NE	NW	18			<u>23.47</u>	<u>23.47</u>		Limited to duty
							312.35	312.35	1497.52		
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 - 2015
DRY VALLEY, NO. 198**

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 - 2015
DRY VALLEY, NO. 198**

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	5.10	1 AH, office, barn. S/N 7053765 RD - 58654300 - 10-10-11 Wellhouse locked 10-08-13 RD - 63234000 - 10-14-14 RD - 65067200 - 11-20-15
57149	Permit										
39270	Cert.	Bulloch	SE	SE	36	1N	68	12.80	0.00	728.80	Alfalfa, NIWR = 3.5
48184	Cert.		SW	SE	36			25.71	0.00		
48410	Cert.	SW	SW	36			0.69	0.69			
52000	Cert.	SE	SW	36			12.62	12.62			
77590	Den.	Bulloch	Lot	1	6	1S	69	0.52	0.52		
77591	Den.		Lot	2	6			7.40	3.72		
77592	Den.		SW	NE	6			29.44	29.44		
77593	Den.		SE	NE	6			28.01	28.01		
			Lot	3	6			9.47	9.47		
			Lot	4	6			7.52	6.50		
			Lot	5	6			3.33	3.33		
			SE	NW	6			20.83	20.83		
		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	169.87			
77589	Cert.	Frehner	NE	SW	6	1S	69	1.00	1.00	5.03	S/N 3091961 RD - 01450000 - 10-14-14 RD - 03090100 - 10-13-15
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		

**GROUNDWATER PUMPAGE INVENTORY - 2015
DRY VALLEY, NO. 198**

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	2.24	WV, hard to determine use.
66106	Can.	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	Can.	BLM						0.87	WLD	0.00	
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	5007.49	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	2.60	10.71	No permit for POU
			NW	SE	32	1N	69	0.00	2.57	10.58	No permit for POU
			NE	NE	7	1S	69	0.00	11.24	46.28	No permit for POU
			SE	NE	7	1S	69	0.00	35.35	145.56	No permit for POU
									TOTAL	245.66	Non-permitted rights

Verified with field notes: Christi Cooper

APPENDIX B. DRY VALLEY 2015 GROUNDWATER PUMPAGE FIELD NOTES.

2015

DRY VALLEY

No. 198

Inventory Field Notes

Compiled by:
Christi Cooper

State of Nevada
Division of Water Resources
Southern Nevada Branch Office

PUMPAGE INVENTORY FIELD REPORT

16493, 18352,
20829, 24217
24218 & 24219

BASIN NO: 198 PERMIT NO: 16493, 18352, 20829, 24217 24218 & 24219

WELL: YES NO METER SER NO: _____

PUMP: YES NO PUMP TYPE: See remarks

MOTOR: YES NO MOTOR TYPE: _____

METER: YES NO METER READ: _____

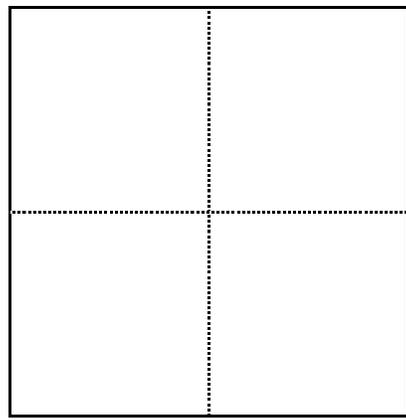
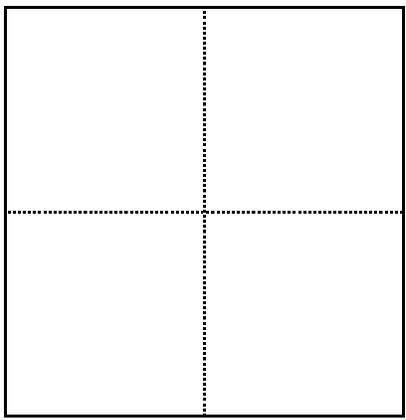
PHOTO: YES NO ACRES IRR: 217.3

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: 10/13/2015

PUMPAGE INVENTORY FIELD REPORT

**22469, 24509
37560, 37561
43770 & 43771**

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: 367.40

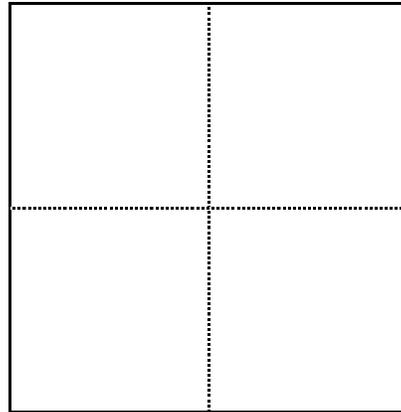
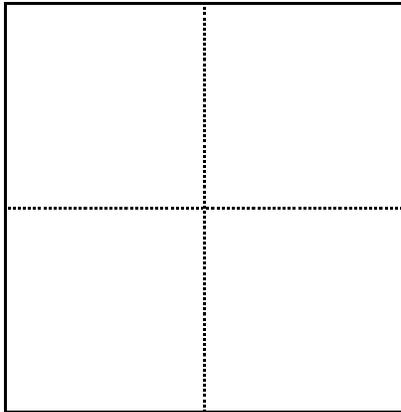
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: POD 22469 & 43770: No meter, Turbine. Alfalfa.

POD 24509 & 43771: No meter, Turbine. POD 37560: No meter, Sub. Pump, not in use

POD 37561: No meter, Sub. Pump., not in use 181.5 Acre-feet is used from a spring

for irrigation of 36.3 acres in Sections 2 & 34 under vested right V01795.

SIGNATURE: Christi Cooper

DATE: 10/13/2015

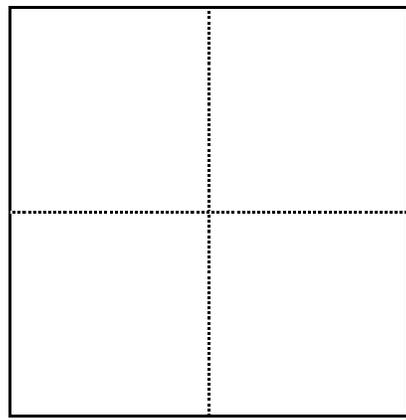
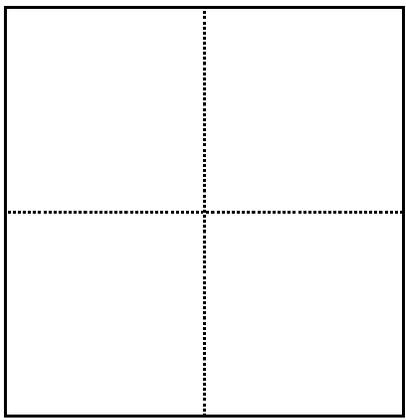
PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 198 PERMIT NO: 39270, 48184, 48410, 52000 & 77589
 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: 169.87
 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 39270: No meter, Turbine

POD 48184 & 52000: No meter, Turbine

POD 48410: No meter, Turbine

POD 77589: Well visible, S/N 3091961; RD - 03090100. Alfalfa.

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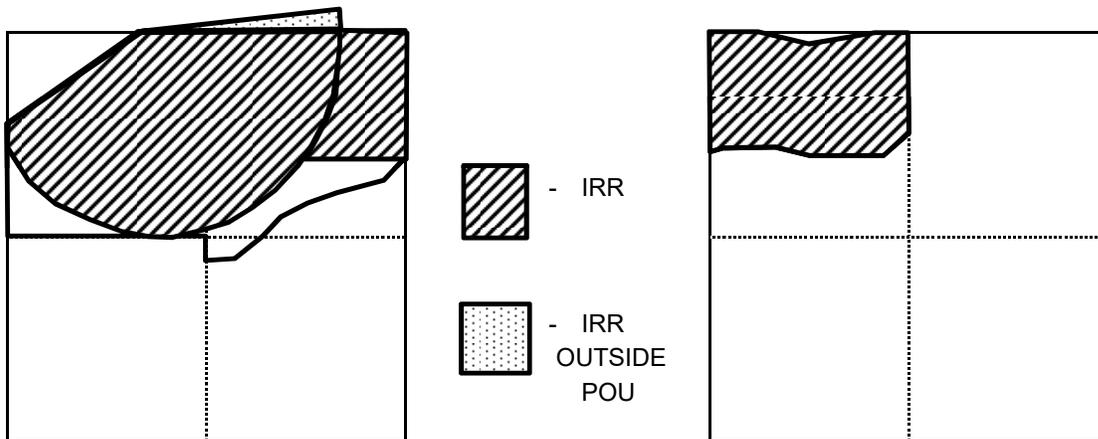
PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 198 PERMIT NO: 39271
 WELL: YES NO METER SER NO: _____
 PUMP: YES NO PUMP TYPE: _____
 MOTOR: YES NO MOTOR TYPE: _____
 METER: YES NO METER READ: _____
 PHOTO: YES NO ACRES IRR: 78.0
 BENEFICIAL USE: YES NO PORTION 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. Pivot in Section 31, wheel line in section 32.

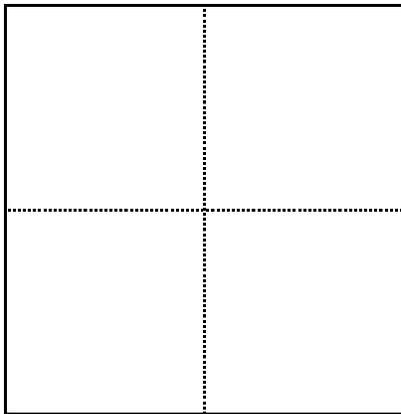
SIGNATURE: Christi Cooper DATE: 10/13/2015

PUMPAGE INVENTORY FIELD REPORT

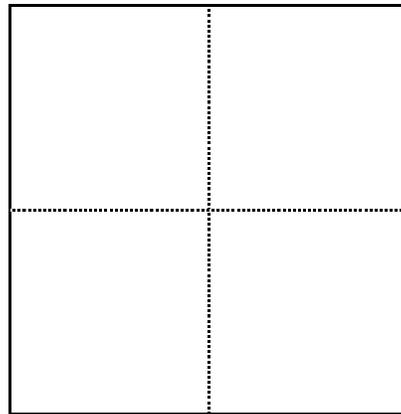
BASIN NO: 198 PERMIT NO: 71261
WELL: YES NO METER SER NO: _____
PUMP: YES NO PUMP TYPE: Turbine
MOTOR: YES NO MOTOR TYPE: _____
METER: YES NO METER READ: _____
PHOTO: YES NO ACRES IRR: 5.5
BENEFICIAL USE: YES NO PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC



 1/4 1/4 SEC



REMARKS: Permit Cancelled 07-18-08

Alfalfa.

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