

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

JASON KING, P.E.
STATE ENGINEER



INDIAN SPRINGS VALLEY
HYDROGRAPHIC BASIN 10-161

GROUNDWATER PUMPAGE INVENTORY

WATER YEAR 2015

Field Investigated by: Christi Cooper
Report Prepared by: Christi Cooper

TABLE OF CONTENTS

	Page
ABSTRACT	1
HYDROGRAPHIC BASIN SUMMARY	2
PURPOSE AND SCOPE	3
DESCRIPTION OF THE STUDY AREA	3
GROUNDWATER LEVELS	3
METHODS TO ESTIMATE PUMPAGE	3
PUMPAGE BY MANNER OF USE	5
TABLES	6
FIGURES	7
APPENDIX A. INDIAN SPRINGS VALLEY 2015 GROUNDWATER PUMPAGE BY APPLICATION NUMBER	10
APPENDIX B. INDIAN SPRINGS VALLEY 2015 GROUNDWATER PUMPAGE FIELD NOTES	17

LIST OF TABLES

	Page
Table 1. Indian Springs Valley historical pumpage (acre-feet) by water year.	6

LIST OF FIGURES

	Page
Figure 1. Location map for Indian Springs Valley (Hydrographic Basin 10-161).	7
Figure 2. Indian Springs Valley historical pumpage by manner of use.....	8
Figure 3. Percentage of 2015 groundwater pumpage by manner of use.....	8
Figure 4. 2015 groundwater pumpage appropriations versus actual pumpage.....	9

ABSTRACT

This inventory represents the status and pumpage of all permitted, certificated and claims of vested right groundwater rights located within Indian Springs Valley, Hydrographic Basin 10-161, 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 1,390 acre-feet, with estimated pumpage of approximately **622 acre-feet**. This figure includes an estimated 76 acre-feet pumped from exempt domestic wells.

Municipal and quasi-municipal is the largest manner of use within the basin. For water year 2015, appropriations for municipal and quasi-municipal totaled 1,272 acre-feet, with pumpage of 460 acre-feet. The second largest manner of use was irrigation with appropriations totaling 109 acre-feet and pumpage of 82 acre-feet.

HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER	161, REGION 10	
HYDROGRAPHIC BASIN NAME	INDIAN SPRINGS VALLEY	
COUNTIES	CLARK, LINCOLN, NYE	
MAJOR COMMUNITIES	INDIAN SPRINGS	
DESIGNATED	YES	
DENIALS BASED UPON WATER AVAILABILITY	IRRIGATION	
GROUNDWATER LEVEL MEASUREMENTS	USGS	
PUMPAGE INVENTORY, ACRE-FEET IN 2015	622 ¹	
STATE ENGINEER'S ORDERS		
NO. 728 – DESIGNATION	DATE: AUGUST 1, 1979	
COMMITTED GROUNDWATER RESOURCE: 1,390 ACRE-FEET	DATE: MARCH 2016	
COMMERCIAL.....8	DOMESTIC...1	IRRIGATION...109
MUNICIPAL..798	QUASI-MUNICIPAL..474	

NOTE: Committed groundwater resource data are accurate for March 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 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 75.

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 Indian Springs Valley, Hydrographic Basin 10-161, for the water year 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

Indian Springs Valley is located in southern Nevada, approximately 49 miles northwest of Las Vegas, within the Colorado River Hydrographic Region. The basin is located within Clark, Lincoln and Nye Counties (see Figure 1).

Indian Springs Valley is bounded on the east and north by the Pintwater Mountain Range. The Spring Mountains form the south boundary. The Spotted Mountain Range borders the basin to the west and north. The adjacent Nevada hydrographic basins are as follows: Pahrump Valley, 10-162, to the southwest; Amargosa Desert (14-230), to the west; Mercury Valley (14-225), to the west; Frenchman Flat (10-160), to the northwest; Emigrant Valley (Papoose Lake Valley, 10-158B), to the north; Emigrant Valley (Groom Lake Valley, 10-158A), to the north; Three Lakes Valley (Northern Part, 10-168), to the northeast; and Three Lakes Valley (Southern Part, 13-211), to the east. The exterior boundary of the Indian Springs Valley Hydrographic Basin is as described by Designation Order 728, issued by the Nevada State Engineer August 1, 1979. The basin covers approximately 655 square miles, and the approximate elevation of the valley floor is 3,200 feet.

GROUNDWATER LEVELS

Depths to groundwater in Indian Springs Valley were measured by the Nevada Division of Water Resources from 1947 until 1953. There are four inactive sites in the monitoring well network. Groundwater level data are also collected by the U.S. Geological Survey (USGS), and data 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 are 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 annually is estimated to be 1 acre-foot per well in Indian Springs Valley.

PUMPAGE BY MANNER OF USE

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

The total estimated groundwater pumpage for water year 2015 was 622 acre-feet. The annual duties of permitted, certificated and claims of vested groundwater rights within the Indian Springs Valley Hydrographic Basin total approximately 1,390 acre-feet. Table 1 shows historic pumpage by water year, Figure 2 shows historic pumpage by manner of use, Figure 3 shows percentage of groundwater pumped by manner of use in 2015, and Figure 4 shows compares the 2015 appropriations to actual pumpage. The permitted and pumped totals for water year 2015, categorized by manner of use, are as follows:

A. Commercial (COM)

Appropriations for commercial purposes totaled 8 acre-feet, with estimated pumpage of 4 acre-feet.

B. Domestic (DOM)

Appropriations for domestic purposes totaled 1 acre-foot in the basin. An estimated 1 acre-foot of groundwater was pumped under this appropriation during water year 2015. However, records of the State Engineer indicate an estimated 75 exempt domestic wells existed in the basin during water year 2015. The total amount of water pumped for domestic use as described under NRS 534.013 is estimated at 76 acre-feet.

C. Irrigation (IRR)

Appropriations for irrigation purposes totaled 109 acre-feet, with estimated groundwater pumpage of 82 acre-feet.

D. Municipal (MUN)

Appropriations for municipal totaled 798 acre-feet, with estimated groundwater pumpage of 285 acre-feet.

E. Quasi-Municipal (QM)

Appropriations for quasi-municipal totaled 474 acre-feet, with estimated groundwater pumpage of 175 acre-feet.

TABLES

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

YEAR	COM	DOM	IRR	MUN	QM	TOTAL
2009	1	76	69	290	161	597
2010	5	76	84	312	224	701
2011	4	76	97	294	246	717
2012	3	76	103	283	255	720
2013	4	76	89	292	212	673
2014	3	76	80	270	176	605
2015	4	76	82	285	175	622

All values are in acre-feet

FIGURES

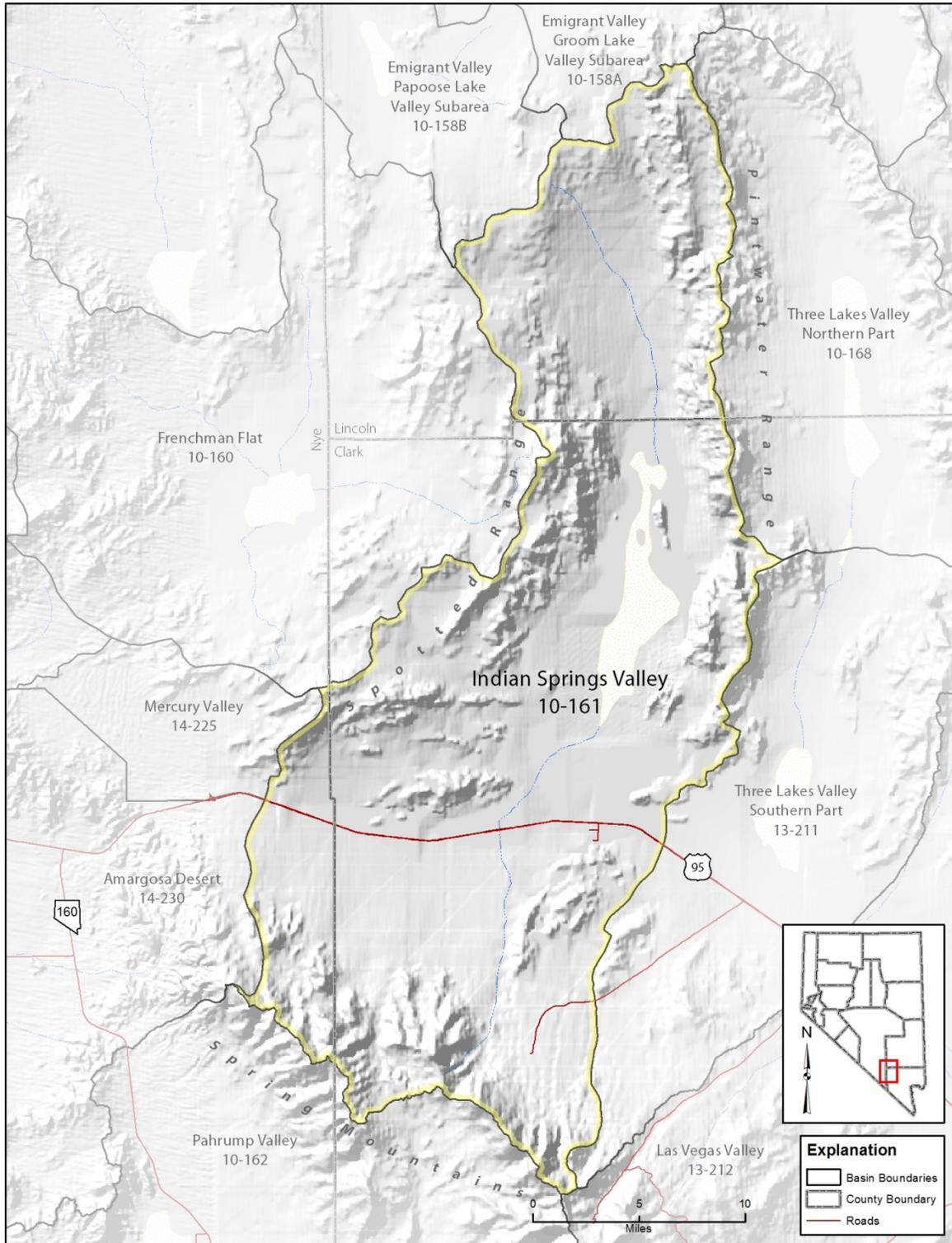


Figure 1. Location map for Indian Springs Valley (Hydrographic Basin 10-161).

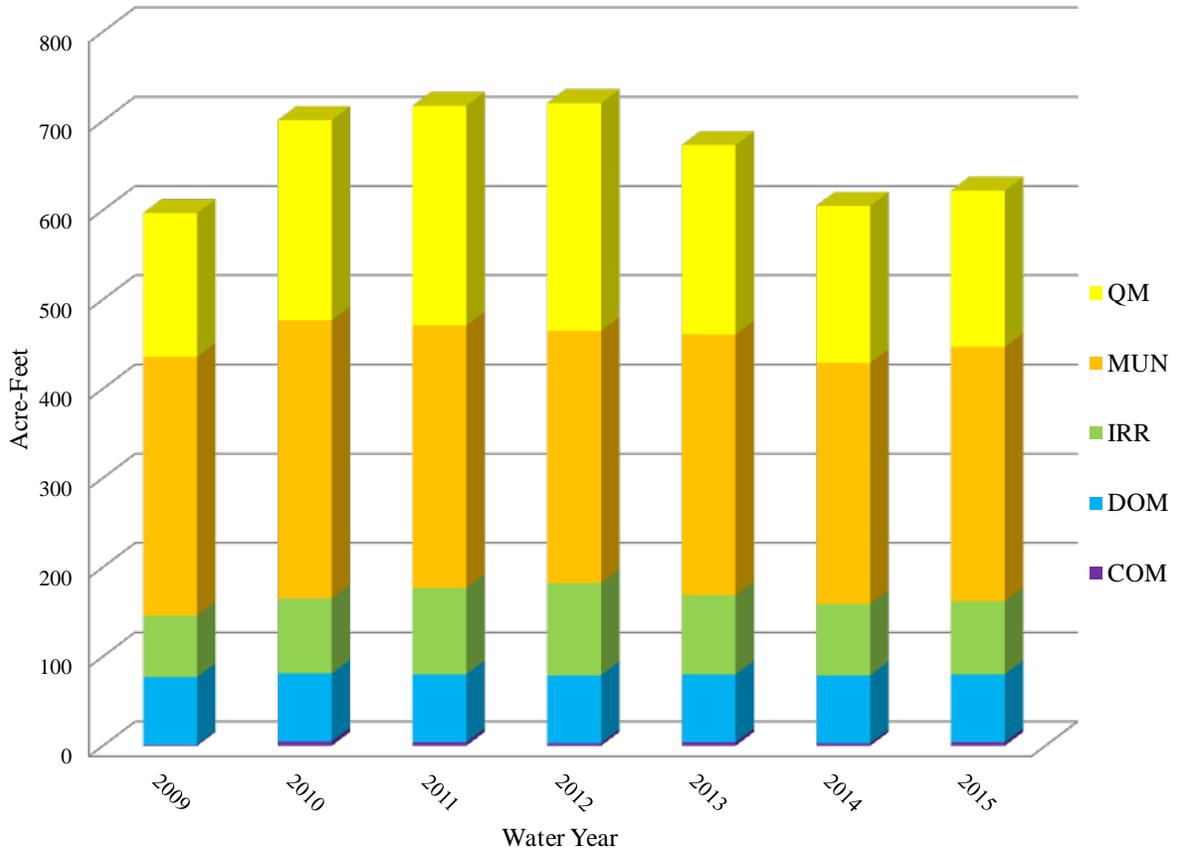


Figure 2. Indian Springs Valley historical pumpage by manner of use.

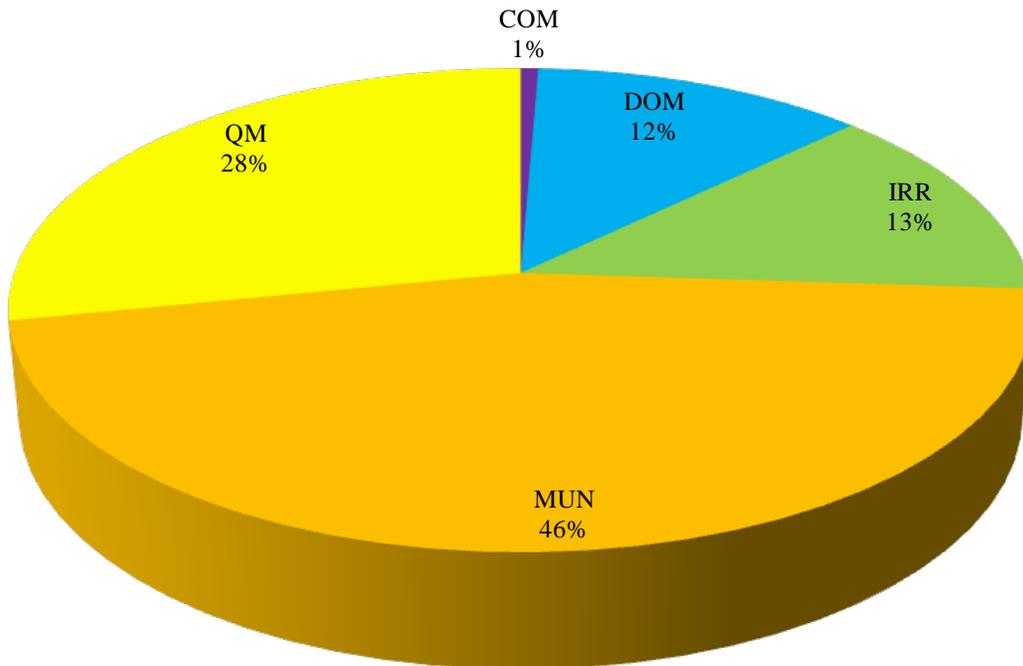


Figure 3. Percentage of 2015 groundwater pumpage by manner of use.

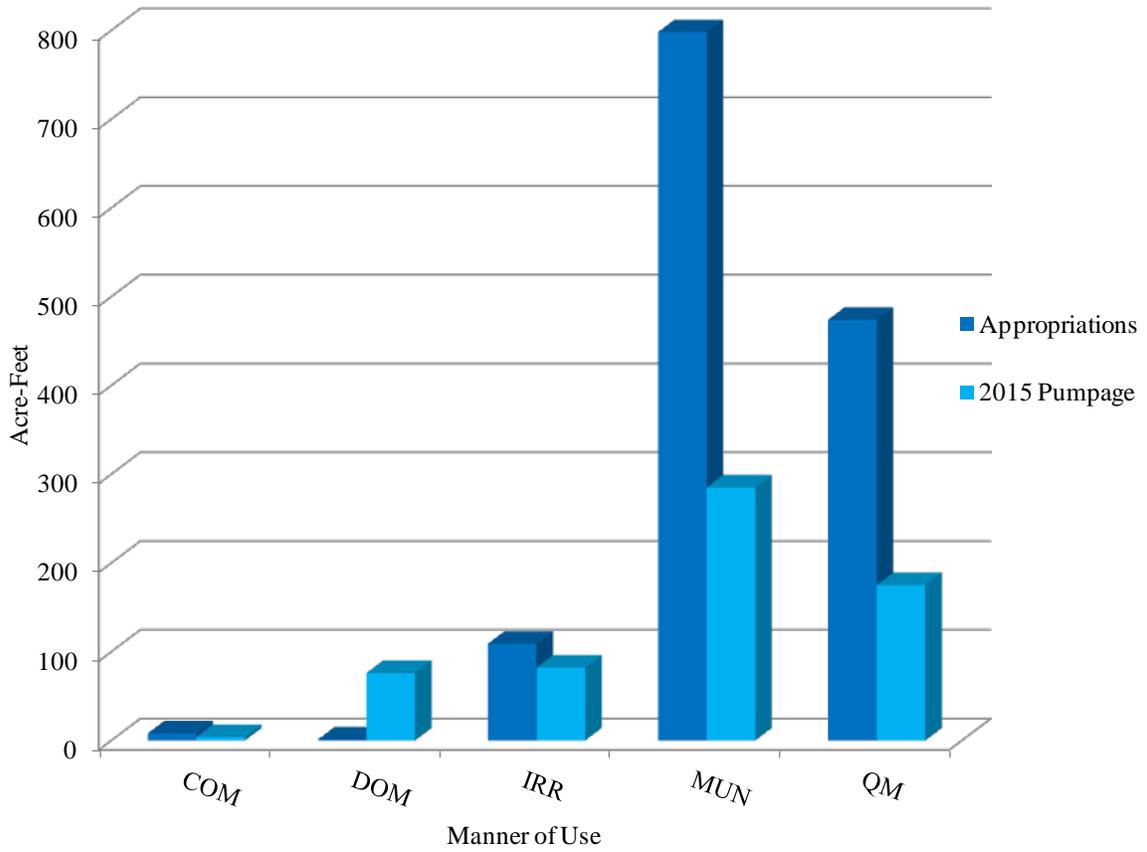


Figure 4. 2015 groundwater pumpage appropriations versus actual pumpage.

**APPENDIX A. INDIAN SPRINGS 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
INDIAN SPRINGS VALLEY, NO. 161
2015**

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				
20628	Cert.	Indian Springs Water Co.	NW	9	16	56	798.00	MUN	285.30	<i>POD 20628: S/N 2012110006 (Well 1)</i> installed 10-07-12	
34725	Cert.										
38859	Cert.										
49045	Permit										
63469	Permit										
74693	Permit										
74694	Permit	<i>POD 38859: S/N 02066136 (Well 2)</i> RD - (1)53137100 - 08-02-12 RD - (1)82587700 - 09-13-13 RD - (1)85019900 - 09-16-14 RD - (1)98594900 - 09-29-15									
74695	Permit										
74696	Permit										
74905	Permit										
77228	Permit										
21767	Cert.		Madeline Gartland	NW SW	9	16	56	7.64	COM	0.00	WV, not in use. 09-29-15 17 Trailers on city water.
22190	Cert.	Sandstone Land & Cattle	NE NE	11	16	55	4.83	QM	0.00	WNV. 09-29-15	
28412	Cert.	Galen & Judith Albright	SW SW	9	16	56	1.00	1.00	2.50	S/N 63440586 RD - 03279100 - 08-02-12 RD - 04321000 - 09-13-13 RD - 05370100 - 09-16-14 RD - 05370100 - 09-29-15, mtr broken	
28656	Cert.	Ellen Sargent	NW SW	9	16	56	5.76	5.76	14.94	Domestic, trees, lawn, garden and Pasture Grass. Hersey Meter S/N unknown RD - 45580800 - 08-02-12 RD - 51411400 - 09-13-13 RD - 53340900 - 06-06-14, mtr brkn RD - 00688900 - 09-16-14, new mtr installed 8/16/14 RD - 05731000 - 09-29-15	

**GROUNDWATER PUMPAGE INVENTORY
INDIAN SPRINGS VALLEY, NO. 161
2015**

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				
28657	Cert.	Ann Brauer	NW	SW	9	16	56	7.27	7.27	31.08	Domestic, Trees, Lawn, Horses & Pasture Grass. S.N 60362019 RD - 87085000 - 08-02-12 RD - 98985400 - 09-13-13 RD - (1)08745700 - 09-16-14 RD - (1)19235000 - 09-29-15
28658	Cert.	Cloude Albright	TR	46	9	16	56	0.60	0.00	1.00	credited for domestic use
29731 36526	Cert. Permit	Cold Creek Canyon Home Owners Assoc.	NE	SE	1	18	55	227.40	QM	79.34	S/N 95-46-90-3 South well (#1) RD - (5)3449140 - 08-02-12 RD - (7)5417340 - 09-13-13 RD - (9)7726270 - 09-16-14 RD - (11)1523850 - 09-30-15 S/N 95-46-91-3 North well (#2) RD - (6)9161490 - 08-02-12 RD - (8)1224700 - 09-13-13, meter removed, well out of service RD - (8)1222600 - 07-10-14, well in service, using old mtr RD - (8)3315150 - 09-16-14 RD - (9)6432020 - 09-30-15
31126	For.	Weisse - Theurer	SW	47B		16	56	0.19	0.00	0.00	S/N 78384518 Locked 09-13-13 RD - 2238690 - 07-28-09 Property vacant 9-29-15 Forfeited 8-28-15
38283	Cert.	James Ray Cozby Trustee of the Cozby Trust	TR	43C		16	56	1.38	DOM	0.54	S/N 673381 1 MH RD - 0522250 - 07-28-09 Locked 09-13-13 RD - 0017500 - 09-16-14, S/N 71036744 RD - 0200480 - 09-29-15

**GROUNDWATER PUMPAGE INVENTORY
INDIAN SPRINGS VALLEY, NO. 161
2015**

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				
39555	Cert.	Galen Albright	SW	SW	9	16	56	0.82	0.82	8.93	S/N 60481840 RD - 16635400 - 08-02-12 RD - 20088400 - 09-13-13 RD - 22990000 - 09-16-14 RD - 26003500 - 09-29-15
			SE	SW				<u>1.32</u>	<u>1.32</u>		
			TOTAL					2.14	2.14		
39660	Cert.	George Thomas	NW	NW	16	16	56	1.01	QM	1.01	1 AH, lawn & trees. No meter. 09-29-15
50967	Abr.	Flanders	SW	SE	8	16	56	1.20	0.00	0.00	well not in use. Rights moved to Permit 74693
51572	Cert.	Air Force - US		N2	8	16	56	186.62	QM	94.18	<i>POD 51573 & 66652: Well 1</i> S/N 20072440-04 RD - 89582800 - 08-02-12 RD - (1)03695100 - 09-13-13 RD - (1)16809200 - 09-16-14 RD - (1)27288000 - 09-29-15 <i>POD 51572 & 66651: Well 2</i> S/N 20070829-04 RD - 91355300 - 08-02-12 RD - (1)06870300 - 09-13-13 RD - (1)15997300 - 09-16-14 RD - (1)27607000 - 09-29-15 <i>POD 84836: Well 3</i> S/N 20070261-04 RD - 65704400 - 08-02-12 RD - 78831100 - 09-13-13 RD - 89702300 - 09-16-14 RD - 99396000 - 09-29-15
51573	Cert.										
66651	Permit										
66652	Permit										
84836	Permit										
54508	Cert.	Jerry & Carrie Weisse	TR	48B	9	16	56	1.00	1.00	1.51	S/N 14013164 RD - 8880320 - 08-02-12 RD - 9713280 - 09-13-13 RD - (1)0101590 - 09-16-14 RD - (1)0613900 - 09-29-15

**GROUNDWATER PUMPAGE INVENTORY
INDIAN SPRINGS VALLEY, NO. 161
2015**

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					
54509	Cert.	Gene Ray	TR	48B	9	16	56	1.00	1.00	1.29	S/N 37913261 RD - 20721500 - 08-02-12 RD - 21445700 - 09-13-13 RD - 21924700 - 09-16-14 RD - 22360300 - 09-29-15	
61082	Permit	Cactus Springs 50 LLC	NE	NE	11	16	55	36.20	QM	0.00	Cactus Springs Bar closed S/N 33693205 RD - 9599720 - 08-02-12 RD - 9599720 - 09-13-13 RD - 9599720 - 09-16-14 RD - 9599720 - 09-29-15	
64603	Abr.	Indian Springs Holdings, LLC	NE	43A	9	16	56	14.48	0.00	0.00	Gas Station, RV-Park & Casino S/N 97533632 RD - 21660600 - 08-02-12 RD - 21660600 - 09-13-13 RD - 21660600 - 09-16-14 Rights moved to Per. 84836, 9-01-15	
67458	Cert.	Phillip Benjamin	TR	45	9	16	56	0.70				S/N 57302708 North well RD - 29236500 - 08-02-12 RD - 32373800 - 09-13-13 RD - 35509400 - 09-16-14 RD - 39347000 - 09-29-15 S/N 65520802 South well RD - 7262640 - 08-02-12 RD - 8480070 - 09-13-13 RD - 9253430 - 09-16-14 RD - 9811600 - 09-29-15
71743	Cert.							1.02				
76875	Cert.							<u>0.70</u>				
TOTAL								2.42	2.42	12.99		

**GROUNDWATER PUMPAGE INVENTORY
INDIAN SPRINGS VALLEY, NO. 161
2015**

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				
69358	Permit	John H. Koot	SE	SE	36	17	55	4.81	COM	4.32	S/N 05001124 Cold Creek RD - 08627300 - 08-02-12 RD - 09978500 - 09-13-13 RD - 10915000 - 09-16-14 RD - 12378900 - 09-30-15 <i>no mtr on POD 80384 9-30-15</i>
80384	Permit							13.43	COM		
74127	Cert.	James Fisher	TR	48C	16	16	56	1.40	1.40	8.22	S/N 150859 RD - 12903400 - 08-02-12 RD - 16594100 - 09-13-13 RD - 19862300 - 09-16-14 RD - 22644400 - 09-29-15
TOTAL:									547.15		

Verified with field notes: Christi Cooper

**APPENDIX B. INDIAN SPRINGS VALLEY 2015 GROUNDWATER PUMPAGE FIELD
NOTES.**

2015

Indian Springs Valley
No. 161

Inventory Field Notes

compiled by
Christi Cooper

State of Nevada
Division of Water Resources
Southern Nevada Branch Office

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 161

PERMIT NO: 28412

WELL: YES NO

METER SER NO: 63440586

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: 05370100

PHOTO: YES NO

ACRES IRR: 1.0

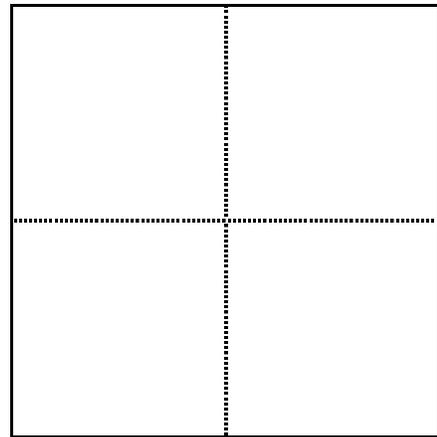
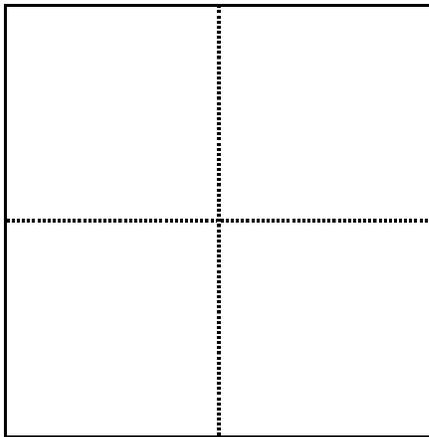
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: Meter Broken.

SIGNATURE: Christi Cooper

DATE: 9/29/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 161

PERMIT NO: 28656

WELL: YES NO

METER SER NO: Hersey Meter

PUMP: YES NO

PUMP TYPE: _____

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: 05731000

PHOTO: YES NO

ACRES IRR: 5.76

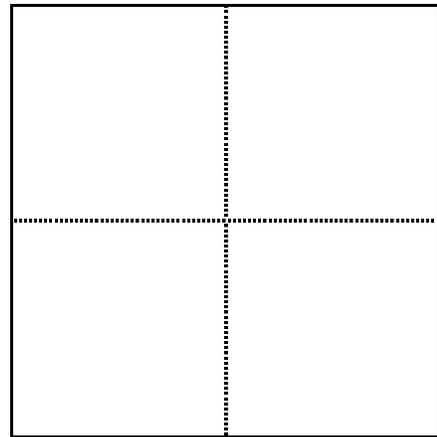
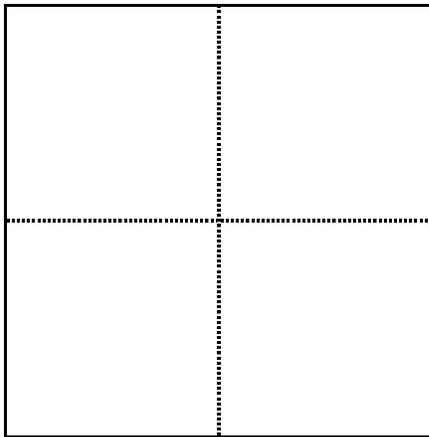
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: RD - 00688900 - 9/16/14

SIGNATURE: Christi Cooper

DATE: 9/29/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 161

PERMIT NO: 28657

WELL: YES NO

METER SER NO: 60362019

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: (1)19235000

PHOTO: YES NO

ACRES IRR: 7.27

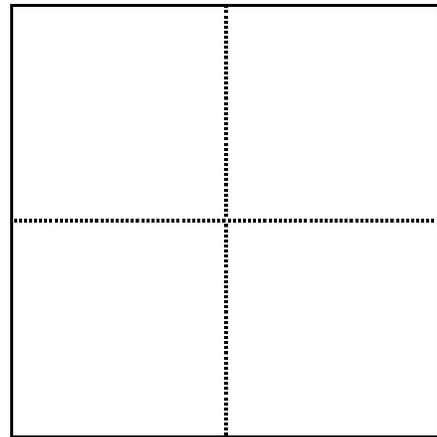
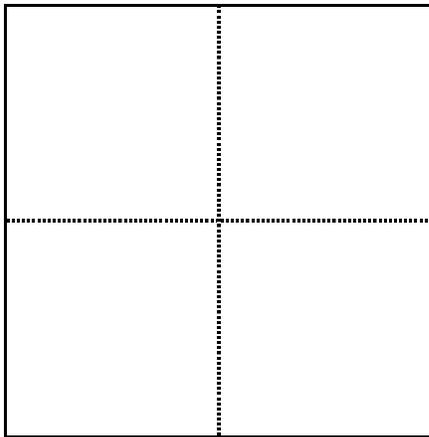
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: Domestic Use, Trees, Horses & Pasture Grass.

RD - (1)08745700 - 9/16/14

SIGNATURE: Christi Cooper

DATE: 9/29/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 161

PERMIT NO: 28658

WELL: YES NO

METER SER NO: _____

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: _____

PHOTO: YES NO

ACRES IRR: 0

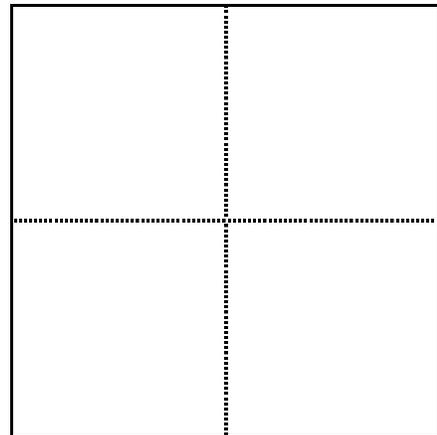
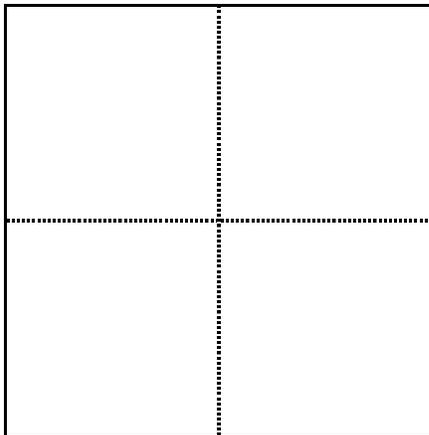
BENEFICIAL USE: YES NO

PORTION ALL TYPE _____

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: 1 Home, Lawn and Trees; credited for domestic use.

SIGNATURE: Christi Cooper

DATE: 9/29/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 161

PERMIT NO: 31126

WELL: YES NO

METER SER NO: 78384518

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: _____

PHOTO: YES NO

ACRES IRR: 0

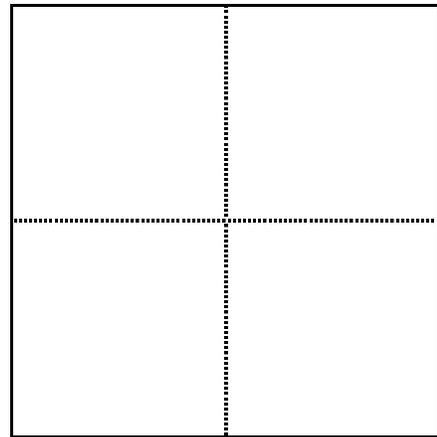
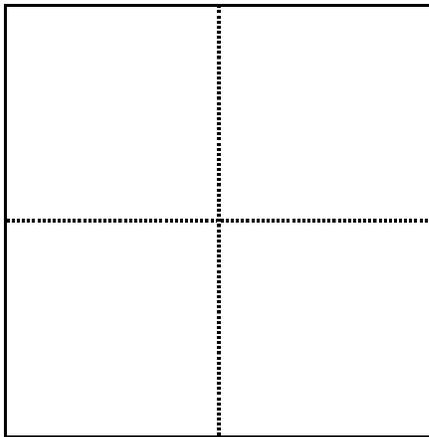
BENEFICIAL USE: YES NO

PORTION ALL TYPE _____

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: Trailer abandoned. Locked.

Forfeited 8/28/15.

SIGNATURE: Christi Cooper

DATE: 9/29/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 161

PERMIT NO: 39555

WELL: YES NO

METER SER NO: 60481840

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: 26003500

PHOTO: YES NO

ACRES IRR: 2.14

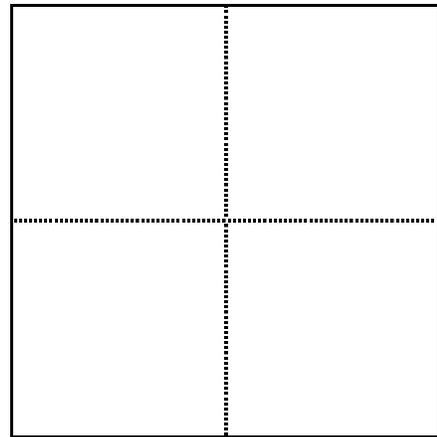
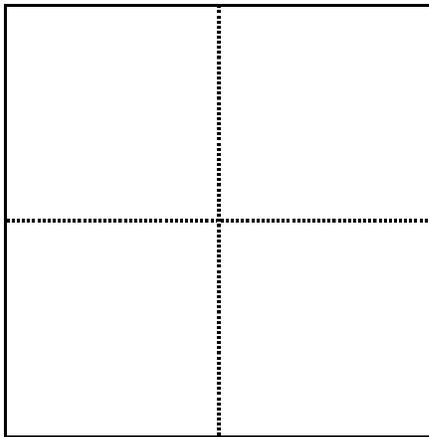
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: RD-22990000 - 9/16/14

SIGNATURE: Christi Cooper

DATE: 9/29/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 161

PERMIT NO: 54508

WELL: YES NO

METER SER NO: 14013164

PUMP: YES NO

PUMP TYPE: _____

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: (1)0613900

PHOTO: YES NO

ACRES IRR: 1.0

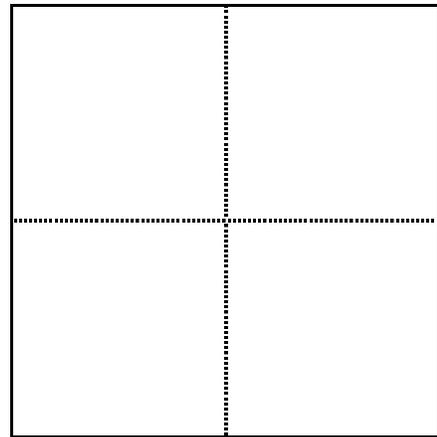
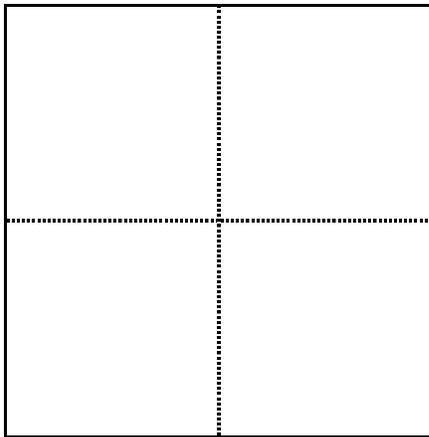
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: Well in small shed. RD (1)0101590 - 9/16/14

SIGNATURE: Christi Cooper

DATE: 9/29/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 161

PERMIT NO: 54509

WELL: YES NO

METER SER NO: 379113261

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: 22360300

PHOTO: YES NO

ACRES IRR: 1.0

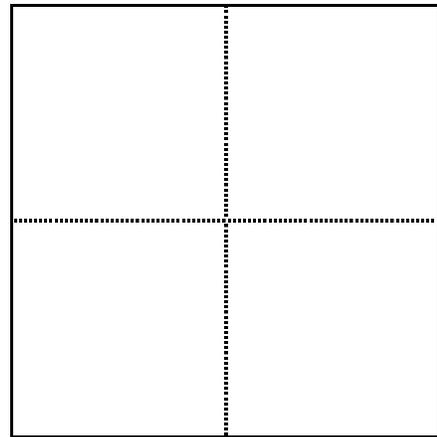
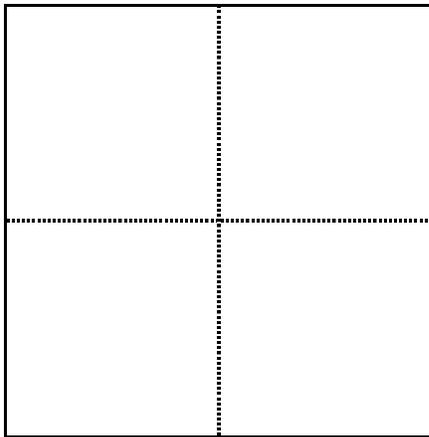
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: German Shepard Dogs. Irrigation of trees.

RD - 21924700 - 9/16/14

SIGNATURE: Christi Cooper

DATE: 9/29/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 161 PERMIT NO: 67458, 71743, & 76875

WELL: YES NO METER SER NO: _____

PUMP: YES NO PUMP TYPE: Submersible

MOTOR: YES NO MOTOR TYPE: _____

METER: YES NO METER READ: _____

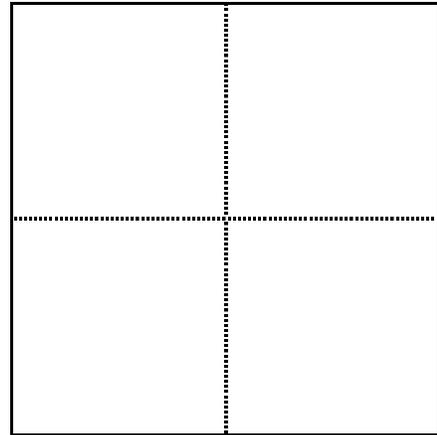
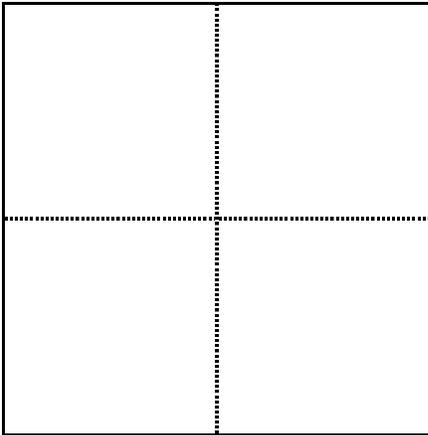
PHOTO: YES NO ACRES IRR: 2.42

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 67458 (South well): S/N 65520802; Reading - 9811600

POD 71743 & 76875 (North well): S/N 57302708; Reading - 39347000

SIGNATURE: Christi Cooper

DATE: 9/29/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 161

PERMIT NO: 74127

WELL: YES NO

METER SER NO: 150859

PUMP: YES NO

PUMP TYPE: _____

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: 22644400

PHOTO: YES NO

ACRES IRR: 1.4

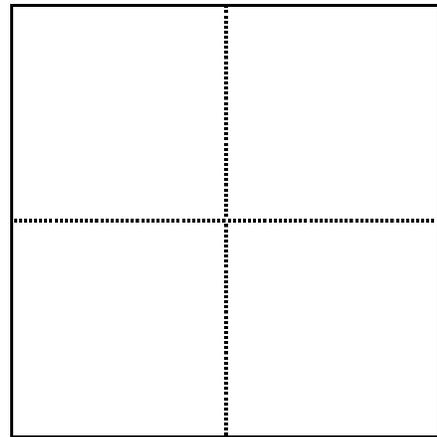
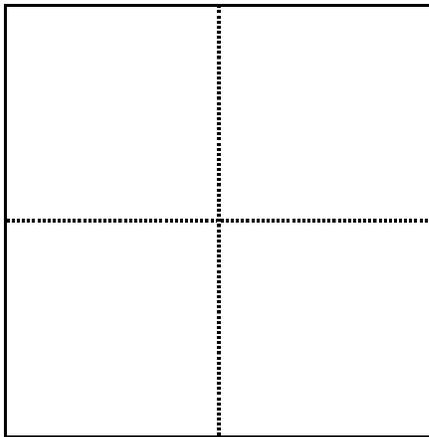
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: RD - 19862300 - 9/16/14

SIGNATURE: Christi Cooper

DATE: 9/29/2015