

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

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**LOWER REESE RIVER VALLEY, HYDROGRAPHIC BASIN 4-059**

**CROP INVENTORY**

**CALENDAR YEAR 2015**

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## ABSTRACT

This inventory represents the status and usage of all permitted, certificated, and claims of vested right groundwater rights for irrigation purposes located within Lower Reese River Valley, Hydrographic Basin 4-059, for the year 2015. **Only those groundwater rights associated with irrigation purposes are represented in this report.** For a listing and summary of all other manners of use within the basin please refer to the [Nevada Division of Water Resources Hydrographic Basin Summary](#).

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 continuing basis.

For the year 2015, the permitted and certificated groundwater rights for irrigation purposes totaled **4,020 acres** with a total duty of 15,665 acre-feet within the Lower Reese River Valley. An estimated **3,240 acres** were irrigated and 12,569 acre-feet were pumped during 2015.

## HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER	059, REGION 4
HYDROGRAPHIC BASIN NAME	LOWER REESE RIVER VALLEY
COUNTIES	LANDER
MAJOR COMMUNITIES	BATTLE MOUNTAIN
DESIGNATED BASIN	DESIGNATED
DENIALS BASED UPON WATER AVAILABILITY	<a href="#">2528</a> , IRD DEN, 4/8/1980 <a href="#">2759</a> , IRR DEN, 4/30/1982 <a href="#">3429</a> , IRD DEN, 4/8/1987
ESTIMATED IRRIGATION PUMPAGE 2015 (ACRE-FEET)	12,569*
STATE ENGINEER'S ORDERS	
<a href="#">NO. 739 – DESIGNATION</a>	MARCH 27, 1980
<a href="#">NO. 839 – PREFERRED USE</a>	MARCH 20, 1984
<a href="#">NO. 1251 – METER</a>	FEBRUARY 5, 2015

COMMITTED GROUNDWATER RESOURCE FOR IRRIGATION PURPOSES: 15,665 ACRE-FEET  
DATE: DECEMBER 2015

NOTE: Committed groundwater resource data are accurate for December 2015. 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. Be advised this report acknowledges that other manner of uses may be present in the basin; however, only those groundwater rights associated with irrigation purposes are represented in this report.

\* Acreage represented in this report may have surface water rights appurtenant. This report acknowledges those acres with surface water rights but is not intended to quantify, nor present any definitive use of those surface water rights. The data represent only the pumping of groundwater and the acreage to which it is applied.

## PURPOSE AND SCOPE

The purpose of this report is to inventory all of the groundwater resources allocated to irrigation and described by the Office of the State Engineer, Nevada Division of Water Resources (NDWR), and to estimate the amount of groundwater pumped for irrigation purposes within the Lower Reese River Valley Hydrographic Basin (4-059), for the year 2015.

## DESCRIPTION OF THE STUDY AREA

The Lower Reese River Valley Hydrographic Basin is located in north central Nevada (Figure 1). Lower Reese River Valley occupies approximately 588 square miles in Lander County. The adjacent hydrographic basins are Buffalo Valley (10-131) to the west, Clovers Area (4-064) and Bolder Flat (4-061) to the north, Whirlwind Valley (4-060), Crescent Valley (4-054) and Carico Lake Valley (4-055) to the east, and Middle Reese River (4-058) to the south.

Lower Reese River Valley Hydrographic Basin is bounded to the north by the Humboldt River. This basin is also bounded by the Fish Creek Mountains to the southwest and the Shoshone Mountains to the east. The Lower Reese River Valley is approximately 20 miles wide by 30 miles long with basin elevations ranging from approximately 4,500 feet above mean sea level on the valley floor to approximately 9,000 feet above mean sea level in the surrounding mountains. Irrigation occurs primarily in the southwest part of the basin (Figure 2).

## GROUNDWATER LEVELS

Depths to groundwater in Lower Reese River Valley are measured by NDWR on a semi-annual basis. Sites at which water level measurements are made:

<a href="#"><u>059 N27 E43 02ADDB1</u></a>	<a href="#"><u>059 N29 E43 17DCCC1</u></a>	<a href="#"><u>059 N30 E44 18ACDD1</u></a>
<a href="#"><u>059 N27 E43 02DDDC1</u></a>	<a href="#"><u>059 N29 E43 28ACCC4</u></a>	<a href="#"><u>059 N30 E44 21DDA 1</u></a>
<a href="#"><u>059 N29 E43 13AD 1</u></a>	<a href="#"><u>059 N29 E43 28BCCC2</u></a>	<a href="#"><u>059 N31 E46 04ADBB1</u></a>
<a href="#"><u>059 N29 E43 14AB 1</u></a>	<a href="#"><u>059 N29 E44 06AADD1</u></a>	<a href="#"><u>059 N31 E46 04DACB1</u></a>
<a href="#"><u>059 N29 E43 16CCCC1</u></a>	<a href="#"><u>059 N29 E44 06BADD2</u></a>	<a href="#"><u>059 N31 E46 30CCAA1</u></a>
<a href="#"><u>059 N29 E43 17ABCC1</u></a>	<a href="#"><u>059 N29 E44 09CCCC1</u></a>	<a href="#"><u>059 N32 E45 35ABBD1</u></a>

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

## **METHODS TO ESTIMATE IRRIGATED ACREAGE**

This report estimates the number of acres irrigated by the groundwater pumped under permits, certificates, and claims of vested right issued by the State Engineer. Table 1 and Figure 3 present the current and historic irrigated acreage and pumpage; Appendix A presents estimates detailed by certificate, permit, or vested claim number. The following methods were used to arrive at the estimated acreage:

- Field inspection of the place of use was conducted to estimate the number of acres under cultivation.
- In cases where field inspection of the place of use is not practical, aerial and/or satellite imagery were analyzed to determine acreages.

## **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 Lower Reese River 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 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 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](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 and 2015 may differ significantly from estimates of previous years.
- Where lands are irrigated by both surface water and groundwater, the surface water supply for the irrigation season was considered in estimating groundwater pumpage.

## TABLES

Table 1. Lower Reese River Valley historical irrigated acreage and pumpage data.

Year	2011	2012	2013	2014	2015
Acres Irrigated	3,218	3,359	3,360	3,210	3,240
Acre-Feet Pumped*	11,910	12,303	12,266	12,381	12,569

\* The NIWR method to estimate pumpage was used starting in 2014; estimates may differ significantly from previous years.

# FIGURES

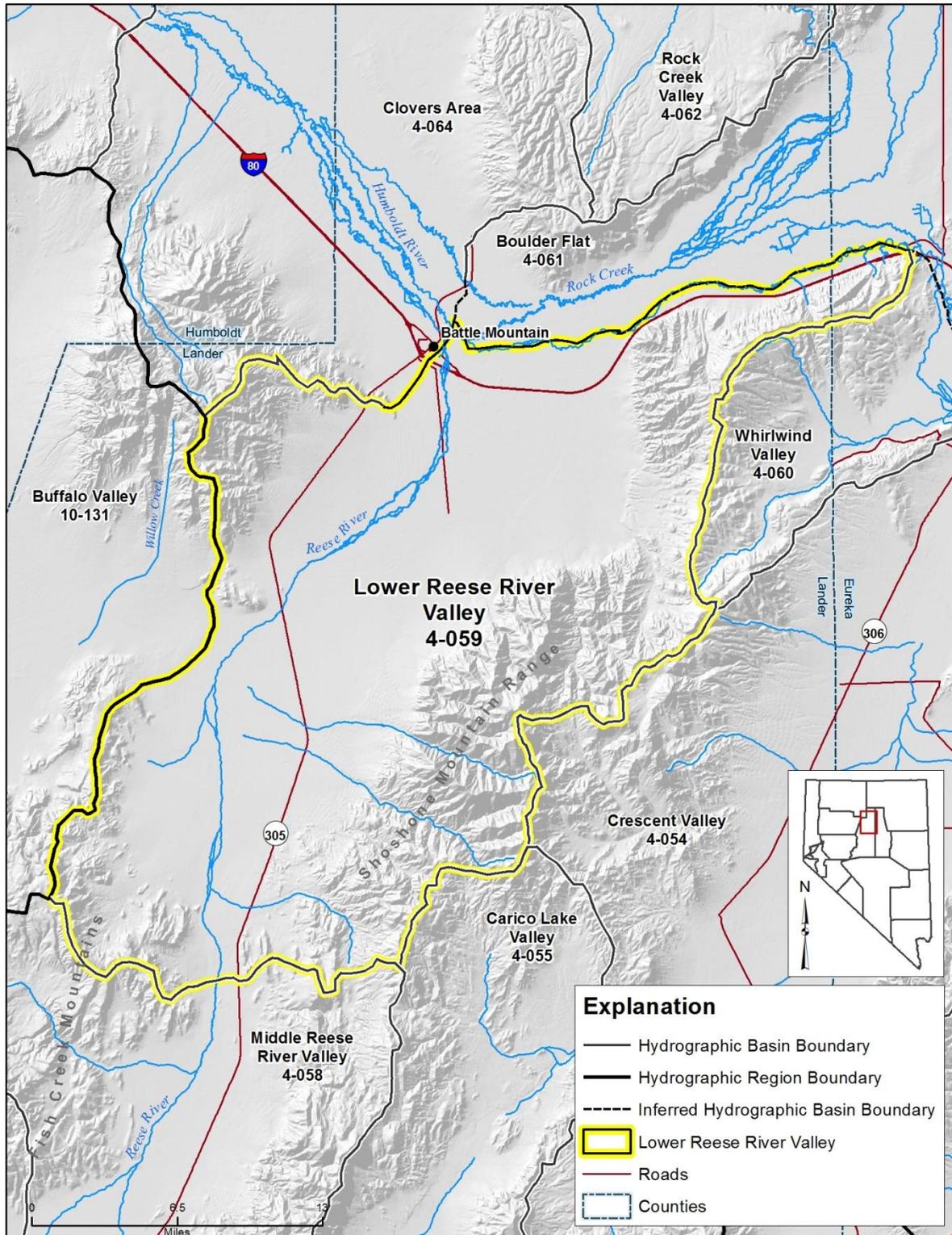


Figure 1. Physiographic map of Lower Reese River Valley (Hydrographic Basin 4-059).

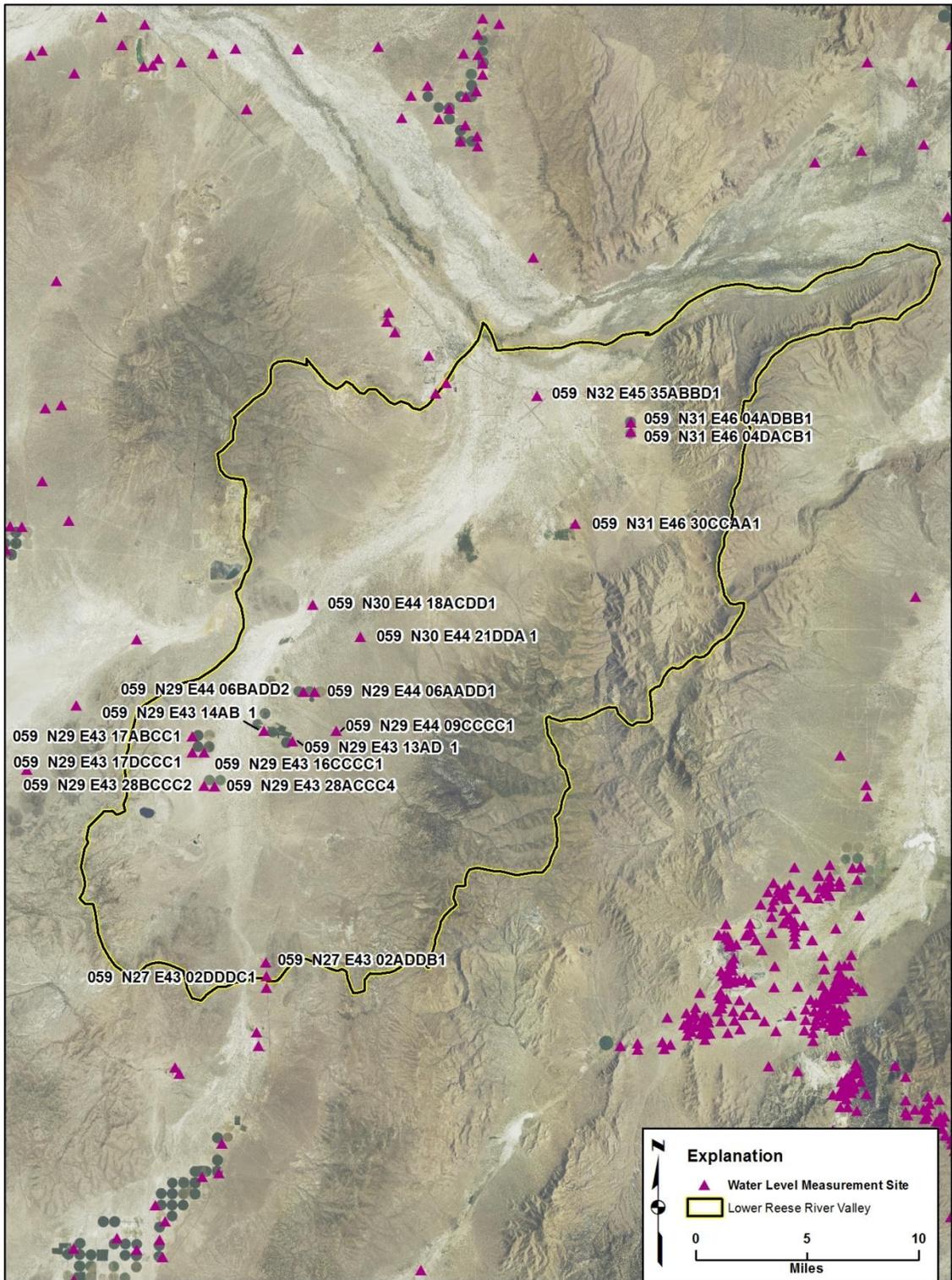


Figure 2. Map showing Lower Reese River Valley irrigated acreage and water level monitoring sites.

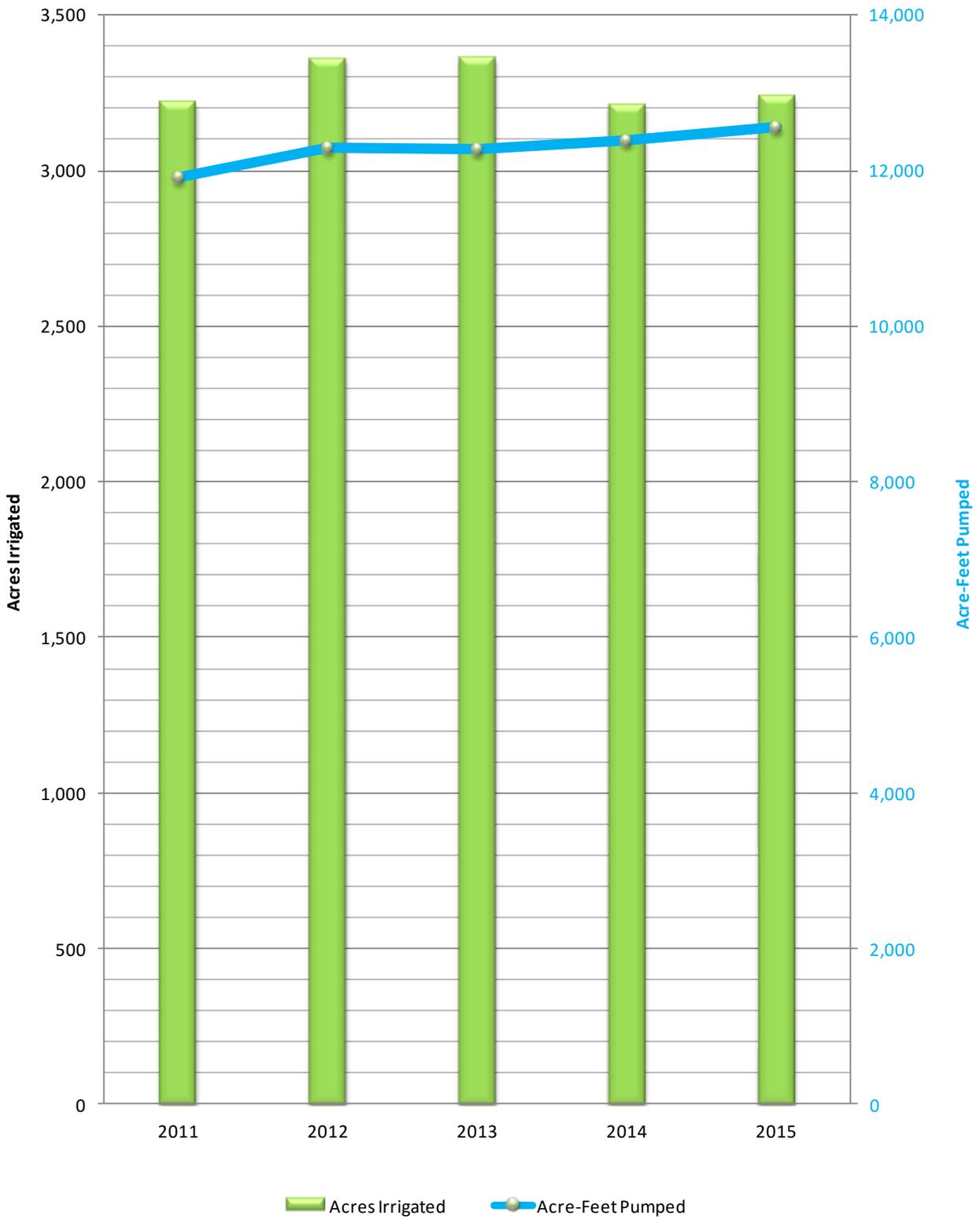


Figure 3. Graph showing Lower Reese River Valley historical irrigated acreage and pumpage. The NIWR method to estimate pumpage was used starting in 2014; estimates may differ significantly from previous years.

**APPENDIX A. 2015 LOWER REESE RIVER VALLEY CROP INVENTORY.**

## EXPLANATION OF COLUMN HEADINGS

App No	The file number of the Application to Appropriate/Change Water or the Claim of Vested Right.
Status	Indicates the status of an application: Permit (PER), Certificated (CER), or a Claim of Vested Right (VST).
QQ	The quarter-quarter of the Section in which the point of diversion is located.
Q	The quarter of the Section in which the point of diversion is located.
Sec	The Section in which the point of diversion is located.
Twn	The Township in which the point of diversion is located.
Rng	The Range in which the point of diversion is located.
Sup	Indicates whether the groundwater right is part of a group of groundwater rights used to irrigate all or a portion of the same acreage (supplemental). A “Y” in this column signifies the groundwater right is supplemental to other groundwater rights.
Supplemental Application Number	The application number(s) of the water right(s) that are supplemental to one another.
Permitted Acres	The number of acres defined by the permit or certificate that is eligible to be irrigated.
Supplementally Adjusted Permitted Acres	The supplementally adjusted, total number of acres that is eligible to be irrigated under a supplemental group of water rights.
Permitted Duty Acre-Feet	The amount of water that may be pumped in a given year, or season, as defined by the permit, certificate, or claim of vested right. If there is a supplemental group, the total combined duty is listed as a supplementally adjusted duty.
Supplementally Adjusted Duty Acre-Feet	The supplementally adjusted, total combined duty that may be pumped in a given year, or season, for a supplemental group of water rights, expressed in acre-feet. The supplementally adjusted, total combined duty is listed at the end of a supplemental group in <b>bold</b> .
Owner of Record	The owner of the water right as recorded in the records of the State Engineer. A water right may have more than one owner of record. Only the first, alphabetically, is listed in this table.
Crop Type	Indicates whether or not a crop was in production during the water year. If a crop was in production, the common name description of the plants under cultivation if given (e.g. alfalfa).

NIWR (ft)	Net Irrigation Water Requirement, defined to be equal to the annual crop evapotranspiration less the effective precipitation entering the root zone that is available for evaporation or transpiration.
Irrigation Method	The method by which the water is applied to the crop and ground (e.g. pivot).
Irrigation Efficiency	The estimated efficiency of the desired irrigation method used.
Irrigated Acreage	The estimate of the number of acres irrigated associated with a particular water right. A “-“ in this field indicates that pumpage was attributed to a senior supplemental permit or certificated water right.
Acreage Estimation Method	The method by which the number of acres irrigated was determined. F – Field inspection. I – Aerial or satellite imagery.
Acre-Feet Pumped	The estimate of the amount of water pumped under a particular water right, expressed in acre-feet. One acre-foot equals 325,851 gallons. A “-“ in this field indicates that pumpage was attributed to a senior supplemental permit or certificated water right.
Pumpage Estimation	The method used to estimate the amount of water pumped. M – Totalizing meter readings. N – NIWR Method.
Remarks	The numbers in this column correspond to footnotes at the end of the table.

**Crop Inventory and Groundwater Pumpage Inventory from Irrigation - Lower Reese River Valley, Basin 059 2015**

App	Status	QQ	Q	Sec	Twn	Rng	Sup	Supplemental Application Number	Permitted Acres	Supplementally Adjusted Permitted Acres	Permitted Duty Acre-Feet	Supplementally Adjusted Duty Acre-Feet	Owner of Record	Crop Type	Crop NIWR (ft)	Irrigation Method	Irrigation Efficiency (%)	Irrigated Acres	Acre-Feet Pumped	Remarks
82099	PER	NE	NW	13	29N	43E	Y	20146 20147 33139 80507	129.12	<b>971.75</b>	516.48	<b>3887.04</b>	HANK & MARIAN FILIPPINI FAMILY TRUST	alfalfa	3.2	pivot	85%	126.00	474.35	AFA
20146	CER	NW	NE	14	29N	43E	Y	20147 33139 35215 80507	398.00		655.47		HANK & MARIAN FILIPPINI FAMILY TRUST	alfalfa	3.2	pivot	85%	90.00	338.82	AFS
20147	CER	NE	NE	13	29N	43E	Y	20146 33139 35215 80507	492.50		1545.79		HANK & MARIAN FILIPPINI FAMILY TRUST	pasture	3.2	w. lines	75%	6.30	26.88	AFS
														alfalfa	3.2	w. lines	75%	123.20	525.65	AFS
														alfalfa	3.2	pivot	85%	170.60	642.26	AFS
33139	CER	SE	NE	13	29N	43E	Y	20146 20147 35215 80507	398.10		1592.40		FILIPPINI, HENRY JR.	alfalfa	3.2	w. lines	75%	22.20	94.72	AFS
80507	PER	SE	SW	12	29N	43E	Y	20146 20147 35215 33139	222.42		830.34		HANK & MARIAN FILIPPINI FAMILY TRUST	alfalfa	3.2	pivot	85%	96.10	361.79	AFS
																<b>Total</b>		<b>634.40</b>	<b>2464.48</b>	<b>AFS</b>
25039	CER	SW	SW	16	29N	43E			153.40	<b>153.40</b>	613.60	<b>613.60</b>	HANK & MARIAN FILIPPINI FAMILY TRUST	alfalfa	3.2	pivot	85%	126.00	474.35	AFA
																<b>Total</b>		<b>126.00</b>	<b>474.35</b>	<b>AFA</b>
77789	CER	NW	NW	16	29N	43E	Y	74392 74393 74924 77790	127.64	<b>127.64</b>	510.56	<b>510.56</b>	HANK & MARIAN FILIPPINI FAMILY TRUST	alfalfa	3.2	pivot	85%	0.00	0.00	AFA
77790	CER	SW	SW	16	29N	43E	Y	74392 74393 77789 74924	127.64		510.56		HANK & MARIAN FILIPPINI FAMILY TRUST	alfalfa	3.2	pivot	85%	0.00	0.00	AFA
74924	CER	NW	NW	16	29N	43E	Y	74392 74393 77789 77790	127.64		510.56		HANK & MARIAN FILIPPINI FAMILY TRUST	alfalfa	3.2	pivot	85%	0.00	0.00	AFA
74392	CER	NW	NW	16	29N	43E	Y	74393 74924 77789 77790	127.64		510.56		HANK & MARIAN FILIPPINI FAMILY TRUST	alfalfa	3.2	pivot	85%	0.00	0.00	AFA
74393	CER	NW	NW	16	29N	43E	Y	74392 74924 77789 77790	127.64		510.56		HANK & MARIAN FILIPPINI FAMILY TRUST	alfalfa	3.2	pivot	85%	127.64	480.53	AFA
																<b>Total</b>		<b>127.64</b>	<b>480.53</b>	<b>AFA</b>
48899	CER	NW	NW	16	29N	43E			127.08	<b>127.08</b>	508.32	<b>508.32</b>	HANK & MARIAN FILIPPINI FAMILY TRUST	alfalfa	3.2	pivot	85%	127.08	478.42	AFA
																<b>Total</b>		<b>127.08</b>	<b>478.42</b>	<b>AFA</b>
77970	PER	SW	SW	16	29N	43E	Y	77971 77972	53.32	<b>135.00</b>	213.26	<b>540.00</b>	HANK & MARIAN FILIPPINI FAMILY TRUST	alfalfa	3.2	pivot	85%	0.00	0.00	AFA
77971	PER	SW	SW	16	29N	43E	Y	77970 77972	53.32		213.26		HANK & MARIAN FILIPPINI FAMILY TRUST	alfalfa	3.2	pivot	85%	0.00	0.00	AFA
77972	PER	SW	SW	16	29N	43E	Y	77970 77971	81.68		326.74		HANK & MARIAN FILIPPINI FAMILY TRUST	alfalfa	3.2	pivot	85%	126.00	474.35	AFA
																<b>Total</b>		<b>126.00</b>	<b>474.35</b>	<b>AFA</b>
57580	CER	SW	NW	28	29N	43E	Y	57581	251.04	<b>251.04</b>	502.07	<b>1004.14</b>	HANK & MARIAN FILIPPINI FAMILY TRUST	past grass	3.2	pivot	85%	125.50	472.47	AFA
57581	CER	SW	NW	28	29N	43E	Y	57580	251.04		502.07		HANK & MARIAN FILIPPINI FAMILY TRUST	past grass	3.2	pivot	85%	125.50	472.47	AFA
																<b>Total</b>		<b>251.00</b>	<b>944.94</b>	<b>AFA</b>
84052	PER	NW	SW	36	30N	43E	Y	84050, 84051	0.00	<b>510.50</b>	451.00	<b>1891.00</b>	FILIPPINI, DANIEL E. & EDDYANN U	past grass	3.2	pivot	85%	41.00	154.35	AFA
														alfalfa	3.2	pivot	85%	126.00	474.35	AFA
84050	PER		LT2	6	29N	44E	Y	84052, 84051	0.00		1220.80		FILIPPINI, DANIEL E. & EDDYANN U.	grain	2.1	pivot	85%	126.00	311.29	AFA
														alfalfa	3.2	pivot	85%	126.00	474.35	AFA
84051	PER		LT01	6	29N	44E	Y	84052, 84050	0.00		1440.00		FILIPPINI, DANIEL E. & EDDYANN U	alfalfa	3.2	pivot	85%	126.00	474.35	AFA
														grass	3.1	pivot	85%	23.10	84.25	AFA
																<b>Total</b>		<b>568.10</b>	<b>1891.00</b>	<b>AFA</b>
23448	CER	SE	SE	24	30N	43E			89.37	<b>89.37</b>	357.48	<b>357.48</b>	FILIPPINI, DANIEL AND EDDYANN	pasture grass	3.2	flood	60%	31.60	168.53	AFA
																<b>Total</b>		<b>31.60</b>	<b>168.53</b>	<b>AFA</b>
19091	CER	SW	NW	4	30N	45E		25834, 78213, 80889	265.50	<b>285.25</b>	425.72	<b>1141.28</b>	JULIAN TOMERA RANCHES, INC.	grass hay	3.1	flood	60%	132.50	684.58	AFA
25834	CER	SE	NE	5	30N	45E		19091, 78213, 80889	240.00		508.00		JULIAN TOMERA RANCHES, INC.	pasture grass	3.2	flood	60%	55.00	293.33	AFA
78213	PER	SW	NW	4	30N	45E		19091, 25834, 80889	265.50		636.28		JULIAN TOMERA RANCHES, INC.	alfalfa	3.2	flood	60%	94.00	501.33	AFA
80889	PER	SE	NE	5	30N	45E		19091, 25834, 78213	240.00		452.00		JULIAN TOMERA RANCHES, INC.	alfalfa	3.2	w. line	75%	11.50	49.07	AFA
																<b>Total</b>		<b>293.00</b>	<b>1141.28</b>	<b>AFA</b>
V05817	VST	NE	SW	18	30N	45E			100.00	<b>100.00</b>	400.00	<b>400.00</b>	JULIAN TOMERA RANCHES, INC.	alfalfa	3.2	pivot	85%	53.00	199.53	AFA
																<b>Total</b>		<b>53.00</b>	<b>199.53</b>	<b>AFA</b>

Crop Inventory and Groundwater Pumpage Inventory from Irrigation - Lower Reese River Valley, Basin 059 2015																						
App	Status	QQ	Q	Sec	Twn	Rng	Sup	Supplemental Application Number	Permitted Acres	Supplementally Adjusted Permitted Acres	Permitted Duty Acre-Feet	Supplementally Adjusted Duty Acre-Feet	Owner of Record	Crop Type	Crop NIWR (ft)	Irrigation Method	Irrigation Efficiency (%)	Irrigated Acres	Acre-Feet Pumped	Remarks		
V05818	VST	SE	SW	18	30N	45E			100.00	100.00	400.00	400.00	JULIAN TOMERA RANCHES, INC.	alfalfa	3.2	pivot	85%	53.00	199.53	AFA		
																<b>Total</b>		53.00	199.53	AFA		
28668	CER	SW	SW	9	31N	45E			18.02	18.02	72.08	72.08	BEEBE, THOMAS R.	pasture grass	3.2	h. lines	75%	4.00	17.07	AFA		
																<b>Total</b>		4.00	17.07	AFA		
78249	PER	LOT	0	6	31N	45E			420.00	420.00	533.56	1517.50	JULIAN TOMERA RANCHES,BATTLE MT DIV	pasture grass	3.2	flood	60%	27.50	146.67	AFA		
78252	PER	NE	SE	36	31N	45E			420.00		184.04		JULIAN TOMERA RANCHES,BATTLE MT DIV	pasture grass	3.2	flood	60%	27.50	146.67	AFA		
78253	PER	SW	NW	31	31N	45E			420.00		239.88		JULIAN TOMERA RANCHES,BATTLE MT DIV	alfalfa	3.2	pivot	85%	167.00	628.71	AFA		
78254	PER	SW	NE	36	31N	45E			420.00		560.00		JULIAN TOMERA RANCHES,BATTLE MT DIV	alfalfa	3.2	flood	60%	184.00	981.33	AFA		
																<b>Total</b>		406.00	1517.50	AFA		
45558	CER	NE	SE	4	31N	46E	Y	45560	126.66	126.66	506.64	506.64	BENGOA, SONNY C. & MARY C.	grain	2.1	pivot	85%	63.00	155.65	AFA		
45560	CER	NE	SE	4	31N	46E	Y	45558	126.66		506.64		BENGOA, SONNY C. & MARY C.	grain	2.1	pivot	85%	63.00	155.65	AFA		
																<b>Total</b>		126.00	311.29	AFA		
45559	CER	SE	NE	4	31N	46E	Y	45561	126.66	126.66	506.64	506.64	BENGOA, SONNY C. & MARY C.	alfalfa	3.2	pivot	85%	63.00	237.18	AFA		
45561	CER	SE	NE	4	31N	46E	Y	45559	126.66		506.64		BENGOA, SONNY C. & MARY C.	alfalfa	3.2	pivot	85%	63.00	237.18	AFA		
																<b>Total</b>		126.00	237.18	AFA		
45092	CER		LT04	30	31N	46E			74.50	74.50	298.00	298.00	MITCHEL, MICHAEL C.	pasture grass	3.2	w. lines	75%	20.00	85.33	AFA		
																grass hay	3.1	pivot	85%	41.00	149.53	AFA
																<b>Total</b>		61.00	234.86	AFA		
25246	CER		LT02	31	31N	46E			3.03	3.03	12.12	12.12	JULIAN TOMERA RANCHES, INC.	alfalfa	3.2	flood	60%	3.00	16.00	AFA		
																<b>Total</b>		3.00	12.12	AFA		
26483	CER	NE	SE	17	32N	45E	Y	Humboldt Proof 00173	33.94	33.94	135.76	135.76	WELCH, ADAM W & GENEVA	meadow hay	2.3		N/A	0.00	0.00	AFA		
																	N/A	0.00	0.00	AFA		
30633	CER	NW	SE	30	32N	45E			137.20	137.20	548.80	548.80	NEGRO, BART E., DONALD R.	alfalfa	3.2	pivot	85%	123.00	463.06	AFA		
																<b>Total</b>		123.00	463.06	AFA		
30634	CER	SW	SW	30	32N	45E			128.50	128.50	514.00	514.00	NEGRO, BART E., DONALD R.	no crop	n/a	n/a	n/a	0.00	0.00	AFA		
																<b>Total</b>		0.00	0.00	AFA		
V05778	VST	SW	NW	16	32N	45E		Proofs 164,165,164	100.00	100.00	300.00	300.00	JULIAN TOMERA RANCHES, INC.	pasture	N/A	not pumped,	N/A	0.00	0.00	AFA		
																<b>Total</b>		0.00	0.00	AFA		
									<b>GRAND TOTAL:</b>	4019.54		15664.96				<b>GRAND TOTAL:</b>		3239.82	11710.02	AFA		