

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

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STATE ENGINEER



LOWER REESE RIVER VALLEY
HYDROGRAPHIC BASIN 4-059

CROP INVENTORY

2013

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ABSTRACT

This inventory represents the status and usage of all permitted and certificated groundwater rights for irrigation purposes located within Lower Reese River Valley, Hydrographic Basin 4-059, for the year 2013. **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 2013, the permitted and certificated groundwater rights for irrigation purposes totaled **3,827 acres** with a total duty of 15,794 acre-feet within Lower Reese River Valley. An estimated **3,361 acres** were irrigated and 12,266 acre-feet were pumped during 2013.

HYDROGRAPHIC BASIN SUMMARY

| | |
|---|--------------------------|
| HYDROGRAPHIC BASIN NUMBER | 059, REGION 4 |
| HYDROGRAPHIC BASIN NAME | LOWER REESE RIVER VALLEY |
| COUNTIES | LANDER |
| MAJOR COMMUNITIES | BATTLE MOUNTAIN |
| DESIGNATED BASIN | YES |
| DENIALS BASED UPON WATER AVAILABILITY | YES |
| ESTIMATED IRRIGATION PUMPAGE 2013 (ACRE-FEET) | 12,266* |

STATE ENGINEER'S ORDERS

[NO.739-DESIGNATION OF BASIN \(REMAINING PORTION\)](#) March 27, 1980

[NO.839-DESIGNATION OF BASIN \(PERFERRED USE\)](#) March 20, 1984

COMMITTED GROUNDWATER RESOURCE FOR IRRIGATION PURPOSES: 15,794 ACRE-FEET
DATE: FEBRUARY 2014

NOTE: Committed groundwater resource data are accurate for February 2014. 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, and to estimate the amount of groundwater pumped for irrigation purposes within the Lower Reese River Valley Hydrographic Basin (4-059), for the year 2013.

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).

FIGURE 1. LOCATION MAP OF LOWER REESE RIVER VALLEY, BASIN 4-059.

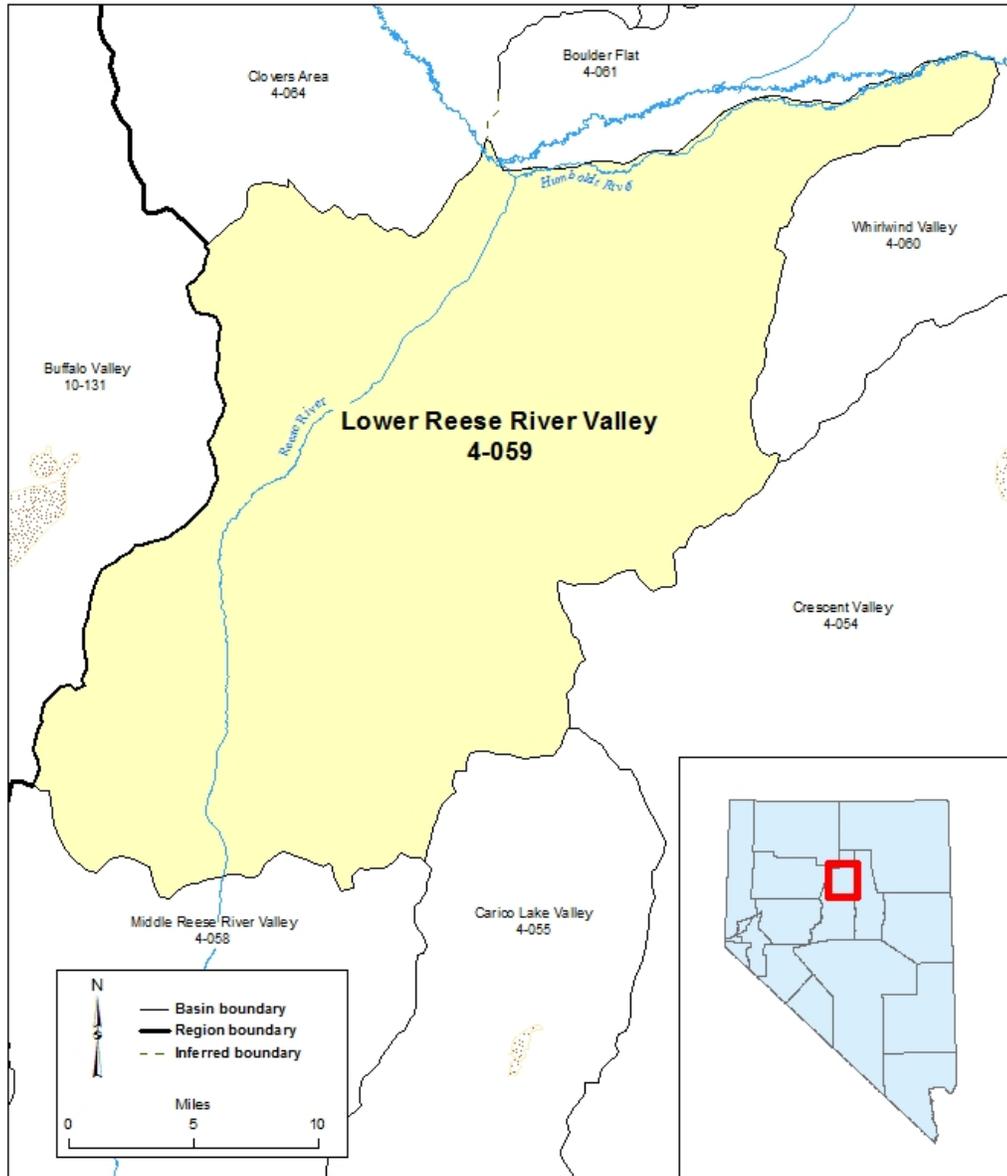
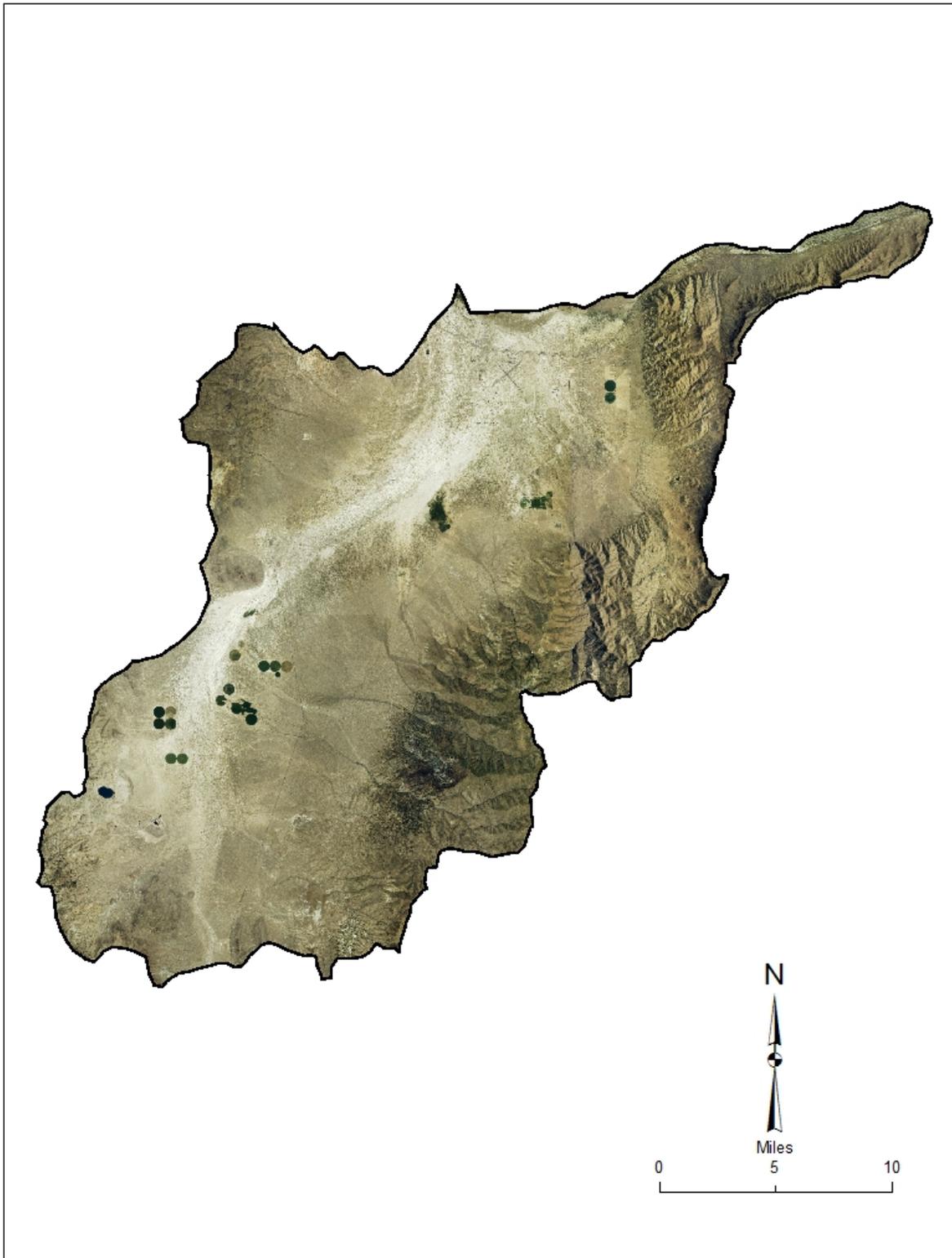


FIGURE 2. MAP OF LOWER REESE RIVER VALLEY IRRIGATED ACREAGE.



NATIONAL AGRICULTURAL IMAGERY PROGRAM (NAIP) 2013

METHODS TO ESTIMATE IRRIGATED ACREAGE

This report estimates the number of acres irrigated by the groundwater pumped under permits and certificates issued by the State Engineer. 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 was not practical, aerial and/or satellite imagery were analyzed to determine acreages.

METHODS TO ESTIMATE PUMPAGE

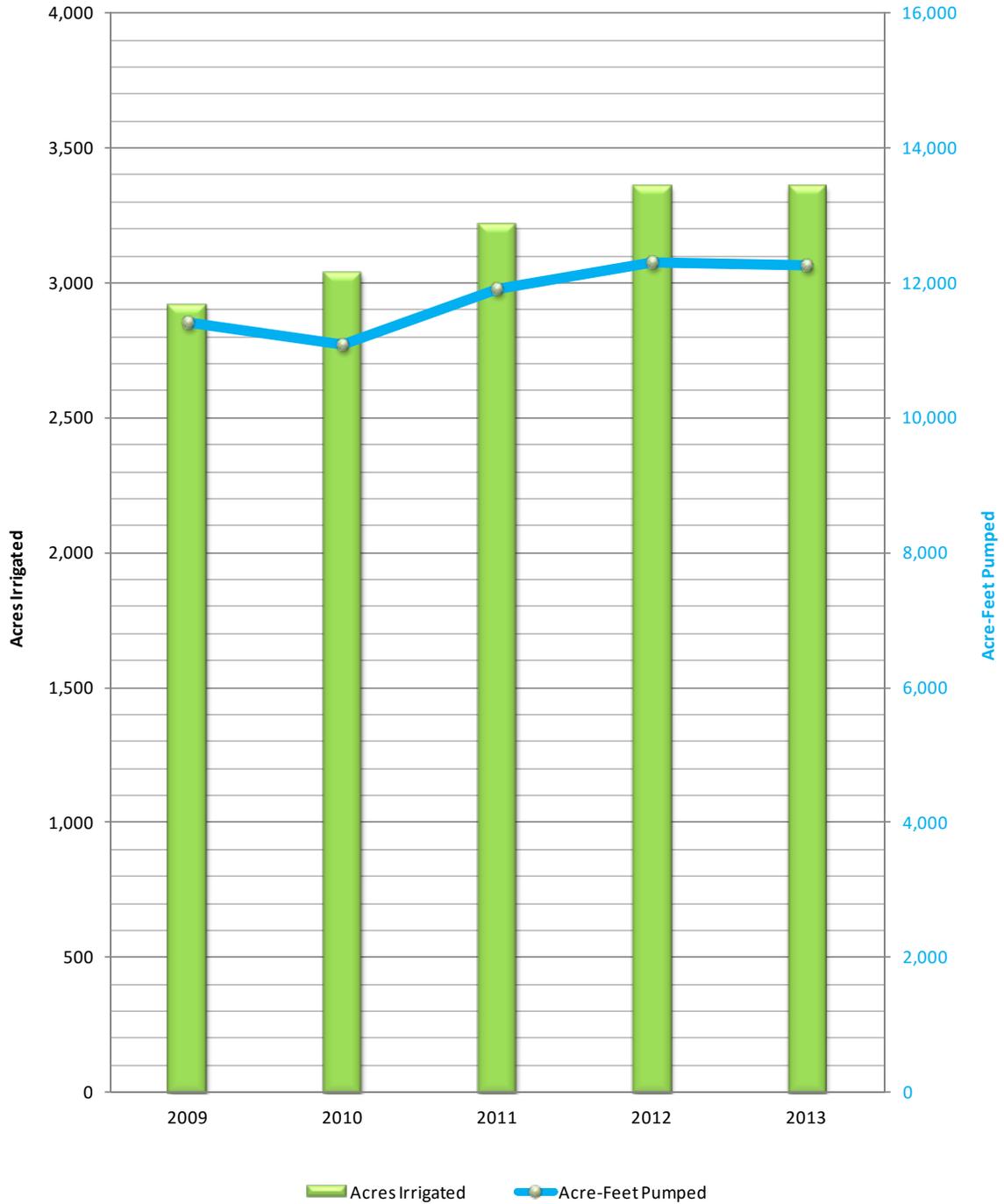
This report estimates the amount of groundwater pumped under permits and certificates issued by the State Engineer. The following methods were used to arrive at the estimated use:

- Where totalizing meters were in place, meter readings were taken and compared with previous data (if available).
- Where meters were not in place, the place of use was inspected to estimate the amount of acreage under cultivation. The number of acres under cultivation was then multiplied by certificated or permitted duty rate associated with that acreage.

APPENDIX A. LOWER REESE RIVER VALLEY HISTORICAL CROP INVENTORY.

LOWER REESE RIVER VALLEY HISTORICAL CROP INVENTORY

| Year | 2009 | 2010 | 2011 | 2012 | 2013 |
|-------------------------|--------|--------|--------|--------|--------|
| Acres Irrigated | 2,918 | 3,037 | 3,218 | 3,359 | 3,360 |
| Acre-Feet Pumped | 11,403 | 11,076 | 11,910 | 12,303 | 12,266 |



APPENDIX B. LOWER REESE RIVER VALLEY CROP INVENTORY.

EXPLANATION OF COLUMN HEADINGS

| | |
|--|--|
| Basin | The hydrographic basin in which the water right resides. |
| App No | The file number of the Application to Appropriate/Change Water or the Claim of Vested of Right. |
| Status | Indicates the status of an application: Permit(PER), Certificated, or a Claim of Vested Right (VST). If an application has been certificated, the Certificate number will be listed in the column. |
| 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. |
| Tw | 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. |
| Supplemental Permit No | The application number(s) of the water right(s) that are supplemental. |
| Permitted Acres | The number of acres defined by the permit or certificate that are eligible to be irrigated. |
| Supplementally Adjusted Permitted Acres | The number of acres that are eligible to be irrigated adjusted by the supplemental nature as defined by the permit or certificate. |
| 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 maybe listed at the end of the supplemental group in bold. |
| Supplementally Adjusted Duty Acre-Feet | The amount of water that may be pumped in a given year, or season, expressed in acre-feet adjusted by the supplemental nature as defined by the permit or certificate. |

| | |
|--------------------------|---|
| 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 | The common name description of the plants under cultivation (e.g. alfalfa). |
| Irrigation Method | The method by which the water is applied to the crop and ground (e.g. pivot). |
| Irrigated Acres | The estimate of the number of acres irrigated associated with a particular water right. |
| Acre-Feet Pumped | The estimate of the number of acres irrigated associated with a particular water right, expressed in acre-feet. One acre-foot equals 325,851 gallons. |
| Remarks | The units associated with the duty, expressed as acre-feet annually (AFA) or acre-feet per season (AFS). |

Crop Inventory and Groundwater Pumpage Inventory from Irrigation - Lower Reese River Valley, Basin 059 2013

| 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 | Irrigation Method | Irrigated Acres | Acre-Foot Pumped | Remarks |
|--------|--------|-----|------|-----|-----|-----|-----|---------------------------------|-----------------|---|--------------------------|--|--------------------------------------|----------------|----------------------|-----------------|------------------|------------|
| 82099 | PER | NE | NW | 13 | 29N | 43E | Y | 20146 20147 33139 80507 | 129.12 | 971.75 | 516.48 | 3887.04 | HANK & MARIAN FILIPPINI FAMILY TRUST | alfalfa | pivot | 126.00 | 504.00 | AFA |
| 20146 | CER | NW | NE | 14 | 29N | 43E | Y | 20147 33139 35215 80507 | 398.00 | | 655.47 | | HANK & MARIAN FILIPPINI FAMILY TRUST | alfalfa & hay | 7/8 pivot | 110.00 | 181.16 | AFS |
| 20147 | CER | NE | NE | 13 | 29N | 43E | Y | 20146 33139 35215 80507 | 492.50 | | 1545.79 | | HANK & MARIAN FILIPPINI FAMILY TRUST | alfalfa & hay | flood, wheel lines | 173.00 | 542.99 | AFS |
| 33139 | CER | SE | NE | 13 | 29N | 43E | Y | 20146 20147 35215 80507 | 398.10 | | 1592.40 | | FILIPPINI, HENRY JR. | alfalfa | pivot | 126.00 | 504.00 | AFS |
| 80507 | PER | SE | SW | 12 | 29N | 43E | Y | 20146 20147 35215 33139 | 222.42 | | 830.34 | | HANK & MARIAN FILIPPINI FAMILY TRUST | | pivot | 126.00 | 470.38 | AFS |
| | | | | | | | | | | | | | | | Total | 661.00 | 2202.53 | AFS |
| 25039 | CER | SW | SW | 16 | 29N | 43E | | | 153.40 | 153.40 | 613.60 | 613.60 | HANK & MARIAN FILIPPINI FAMILY TRUST | alfalfa | 1 pivot | 126.00 | 504.00 | AFA |
| | | | | | | | | | | | | | | | Total | 126.00 | 504.00 | AFA |
| 77789 | PER | NW | NW | 16 | 29N | 43E | Y | 74392 74393 74924 77790 | 46.69 | 135.00 | 186.70 | 540.00 | HANK & MARIAN FILIPPINI FAMILY TRUST | alfalfa | pivot | 0.00 | 0.00 | AFA |
| 77790 | PER | SW | SW | 16 | 29N | 43E | Y | 74392 74393 77789 74924 | 32.66 | | 77.40 | | HANK & MARIAN FILIPPINI FAMILY TRUST | alfalfa | pivot | 0.00 | 0.00 | AFA |
| 74924 | PER | NW | NW | 16 | 29N | 43E | Y | 74392 74393 77789 77790 | 66.04 | | 264.14 | | HANK & MARIAN FILIPPINI FAMILY TRUST | alfalfa | pivot | 0.00 | 0.00 | AFA |
| 74392 | PER | NW | NW | 16 | 29N | 43E | Y | 74393 74924 77789 77790 | 68.96 | | 137.93 | | HANK & MARIAN FILIPPINI FAMILY TRUST | alfalfa | pivot | 0.00 | 0.00 | AFA |
| 74393 | PER | NW | NW | 16 | 29N | 43E | Y | 74392 74924 77789 77790 | 68.96 | | 137.93 | | HANK & MARIAN FILIPPINI FAMILY TRUST | alfalfa | pivot ne4 sec 17 | 126.00 | 504.00 | AFA |
| | | | | | | | | | | | | | | | Total | 126.00 | 504.00 | AFA |
| 48899 | CER | NW | NW | 16 | 29N | 43E | | | 127.08 | 127.08 | 508.32 | 508.32 | HANK & MARIAN FILIPPINI FAMILY TRUST | alfalfa | pivot | 126.00 | 504.00 | AFA |
| | | | | | | | | | | | | | | | Total | 126.00 | 504.00 | AFA |
| 77970 | PER | SW | SW | 16 | 29N | 43E | Y | 77971 77972 | 53.32 | 135.00 | 213.26 | 540.00 | HANK & MARIAN FILIPPINI FAMILY TRUST | alfalfa | pivot | 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 | pivot | 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 | pivot | 126.00 | 504.03 | AFA |
| | | | | | | | | | | | | | | | Total | 126.00 | 504.03 | AFA |
| 57580 | CER | SW | NW | 28 | 29N | 43E | Y | 57581 | 251.04 | 251.04 | 502.07 | 1004.14 | HANK & MARIAN FILIPPINI FAMILY TRUST | past grass | pivot | 125.50 | 502.00 | AFA |
| 57581 | CER | SW | NW | 28 | 29N | 43E | Y | 57580 | 251.04 | | 502.07 | | HANK & MARIAN FILIPPINI FAMILY TRUST | past grass | pivot | 125.50 | 502.00 | AFA |
| | | | | | | | | | | | | | | | Total | 251.00 | 1004.00 | AFA |
| 78616 | PER | NW | SW | 36 | 30N | 43E | Y | 78614 78615 V01563 | 0.00 | 510.50 | 451.00 | 1891.00 | FILIPPINI, DANIEL E. & EDDYANN U. | alfalfa | full pivot + 1/4 piv | 164.30 | 607.91 | AFA |
| 78614 | PER | | LT2 | 6 | 29N | 44E | Y | 78615 78616 V01563 | 0.00 | | 1220.80 | | FILIPPINI, DANIEL E. & EDDYANN U. | grass | 2 pivots | 236.40 | 874.68 | AFA |
| 78615 | PER | | LT01 | 6 | 29N | 44E | Y | 78614 78616 V01563 | 0.00 | | 1440.00 | | FILIPPINI, DANIEL E. & EDDYANN U. | alfalfa | 1 full piv+1 3-T piv | 170.00 | 629.00 | AFA |
| | | | | | | | | | | | | | | | Total | 570.70 | 2111.59 | AFA |
| 23448 | CER | SE | SE | 24 | 30N | 43E | | | 89.37 | 89.37 | 357.48 | 357.48 | FILIPPINI, DANIEL AND EDDYANN | alfalfa & past | flood | 89.37 | 357.48 | AFA |
| | | | | | | | | | | | | | | | Total | 89.37 | 357.48 | AFA |
| 19091 | CER | SW | NW | 4 | 30N | 45E | | 19091 25834 78213 V01252 | 265.50 | 285.25 | 425.72 | 1141.00 | JULIAN TOMERA RANCHES, INC. | alfalfa & hay | flood, wheel lines | 120.00 | 192.42 | AFA |
| 25834 | CER | SE | NE | 5 | 30N | 45E | | 1380 and 6977 partially | 240.00 | | 508.00 | | JULIAN TOMERA RANCHES, INC. | alfalfa & hay | flood, wheel lines | 40.00 | 84.67 | AFA |
| 78213 | PER | SW | NW | 4 | 30N | 45E | | supplemental to each other | 265.50 | | 636.28 | | JULIAN TOMERA RANCHES, INC. | alfalfa & hay | flood, wheel lines | 125.00 | 299.57 | AFA |
| 80889 | PER | SE | NE | 5 | 30N | 45E | | 19091 25834 78213 | 240.00 | | 452.00 | | JULIAN TOMERA RANCHES, INC. | alfalfa & hay | flood, wheel lines | 0.00 | 0.00 | AFA |
| | | | | | | | | | | | | | | | Total | 285.00 | 576.65 | AFA |
| V05817 | VST | NE | SW | 18 | 30N | 45E | | | 0.00 | 0.00 | 400.00 | 400.00 | JULIAN TOMERA RANCHES, INC. | pasture | new pivot 2013 | 0.00 | 0.00 | AFA |
| | | | | | | | | | | | | | | | Total | 0.00 | 0.00 | AFA |
| V05818 | VST | SE | SW | 18 | 30N | 45E | | | 0.00 | 0.00 | 400.00 | 400.00 | JULIAN TOMERA RANCHES, INC. | pasture | not pumped, sfc | 0.00 | 0.00 | AFA |
| | | | | | | | | | | | | | | | Total | 0.00 | 0.00 | AFA |
| 28668 | CER | SW | SW | 9 | 31N | 45E | | | 18.02 | 18.02 | 72.08 | 72.08 | BEEBE, THOMAS R. | pasture+dom | fix set sprinklers | 4.00 | 16.00 | AFA |
| | | | | | | | | | | | | | | | Total | 4.00 | 16.00 | AFA |
| 78249 | PER | LOT | 0 | 6 | 31N | 45E | | | 420.00 | 420.00 | 533.56 | 1517.50 | JULIAN TOMERA RANCHES, BATTLE MT DIV | alfalfa | | 0.00 | 0.00 | AFA |
| 78252 | PER | NE | SE | 36 | 31N | 45E | | | 420.00 | | 184.04 | | JULIAN TOMERA RANCHES, BATTLE MT DIV | alfalfa | w. line & flood | 70.00 | 280.00 | AFA |
| 78253 | PER | SW | NW | 31 | 31N | 45E | | | 420.00 | | 239.88 | | JULIAN TOMERA RANCHES, BATTLE MT DIV | alfalfa | pivot | 167.00 | 688.00 | AFA |
| 78254 | PER | SW | NE | 36 | 31N | 45E | | | 420.00 | | 560.00 | | JULIAN TOMERA RANCHES, BATTLE MT DIV | alfalfa | flood | 183.00 | 732.00 | AFA |
| | | | | | | | | | | | | | | | Total | 420.00 | 1680.00 | AFA |
| 45558 | CER | NE | SE | 4 | 31N | 46E | Y | 45560 | 126.66 | 126.66 | 506.64 | 506.64 | BENGOA, SONNY C. & MARY C. | alfalfa | pivot | 126.00 | 504.00 | AFA |
| 45560 | CER | NE | SE | 4 | 31N | 46E | Y | 45558 | 126.66 | | 506.64 | | BENGOA, SONNY C. & MARY C. | alfalfa | pivot | 0.00 | 0.00 | AFA |
| | | | | | | | | | | | | | | | Total | 126.00 | 504.00 | AFA |

Crop Inventory and Groundwater Pumpage Inventory from Irrigation - Lower Reese River Valley, Basin 059 2013

| 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 | Irrigation Method | Irrigated Acres | Acre-Feet Pumped | Remarks |
|--------|--------|----|------|-----|-----|-----|-----|---------------------------------|---------------------|---|--------------------------|--|-----------------------------|---------------------|-----------------------------------|-----------------|------------------|------------|
| 45559 | CER | SE | NE | 4 | 31N | 46E | Y | 45561 | 126.66 | 126.66 | 506.64 | 506.64 | BENGOA, SONNY C. & MARY C. | alfalfa | pivot | 126.00 | 504.00 | AFA |
| 45561 | CER | SE | NE | 4 | 31N | 46E | Y | 45559 | 126.66 | | 506.64 | | BENGOA, SONNY C. & MARY C. | alfalfa | pivot | 0.00 | 0.00 | AFA |
| | | | | | | | | | | | | | | | Total | 126.00 | 504.00 | AFA |
| 45092 | CER | | LT04 | 30 | 31N | 46E | | | 74.50 | 74.50 | 298.00 | 298.00 | MITCHEL, MICHAEL C. | alfalfa | w. lines + 3T pivot | 66.00 | 264.00 | AFA |
| | | | | | | | | | | | | | | | Total | 66.00 | 264.00 | AFA |
| 25246 | CER | | LT02 | 31 | 31N | 46E | | | 3.03 | 3.03 | 12.12 | 12.12 | JULIAN TOMERA RANCHES, INC. | alfalfa | w.lines & flood | 3.00 | 12.00 | AFA |
| | | | | | | | | | | | | | | | Total | 3.00 | 12.00 | 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 | from SFC right well not pumped | 0.00 0.00 | 0.00 0.00 | AFA AFA |
| | | | | | | | | | | | | | | | Total | 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 | pivot | 126.00 | 504.00 | AFA |
| | | | | | | | | | | | | | | | Total | 126.00 | 504.00 | AFA |
| 30634 | CER | SW | SW | 30 | 32N | 45E | | | 128.50 | 128.50 | 514.00 | 514.00 | NEGRO, BART E., DONALD R. | alfalfa | pivot | 128.50 | 514.00 | AFA |
| | | | | | | | | | | | | | | | Total | 128.50 | 514.00 | AFA |
| V05778 | VST | SW | NW | 16 | 32N | 45E | | Proofs 164,165,164 | 100.00 | 100.00 | 400.00 | 400.00 | JULIAN TOMERA RANCHES, INC. | pasture | not pumped, sfc | 0.00 | 0.00 | AFA |
| | | | | | | | | | | | | | | | Total | 0.00 | 0.00 | AFA |
| | | | | | | | | | GRAND TOTAL: | 3826.90 | | 15794.12 | | GRAND TOTAL: | | 3360.57 | 12266.28 | AFA |