STATE OF NEVADA

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

DIVISION OF WATER RESOURCES

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MIDDLE REESE RIVER VALLEY
HYDROGRAPHIC BASIN 4-058

CROP INVENTORY

CALENDAR YEAR 2014

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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 Middle Reese River Valley, Hydrographic Basin 4-058, for the year 2014. **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 2014, the permitted and certificated groundwater rights for irrigation purposes totaled **12,067 acres** with a total duty of 47,598 acre-feet within the Middle Reese River Valley. An estimated **7,322 acres** were irrigated and 27,085 acre-feet were pumped during 2014.

HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER	058, REGION 4
HYDROGRAPHIC BASIN NAME	MIDDLE REESE RIVER VALLEY
COUNTIES	LANDER
MAJOR COMMUNITIES	AUSTIN
DESIGNATED BASIN	DESIGNATED
DENIALS BASED UPON WATER AVAILABILITY	2299, IRD DEN, 12/22/1977 2347, IRR DEN, 6/1/1978 2368, IRD DEN, 6/22/1978 2496, IRD DEN, 10/10/1979 2753, IRD DEN, 3/30/1982 3202, IRD DEN, 6/13/1985 4657, IRD DEN, 8/13/1998
ESTIMATED IRRIGATION PUMPAGE 2014 (ACRE-FEET)	27,085*
STATE ENGINEER'S ORDERS	
NO. 276 – DESIGNATION (PORTION)	AUGUST 5, 1964

COMMITTED GROUNDWATER RESOURCE FOR IRRIGATION PURPOSES: 47,598 ACRE-FEET
DATE: DECEMBER 2014

NOTE: Committed groundwater resource data are accurate for December 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 (NDWR), and to estimate the amount of groundwater pumped for irrigation purposes within the Middle Reese River Valley Hydrographic Basin (4-058), for the year 2014.

DESCRIPTION OF THE STUDY AREA

The Middle Reese River Valley Hydrographic Basin is located in central Nevada (Figure 1). Middle Reese River Valley occupies approximately 319 square miles in Lander County. The adjacent hydrographic basins are Buffalo Valley (10-131) and Lower Reese River Valley (4-059) to the north, Carico Lake Valley (4-055) to the east, Antelope (4-057) to the southwest, Upper Reese River (4-056) Valley to the south, and Jersey Valley (10-132) to the west.

Middle Reese River Valley Hydrographic Basin is bounded to the northwest by the Fish Creek Range and to the southeast by the Shoshone Mountains. The Middle Reese River Hydrographic Basin is triangle shaped and the main valley floor is approximately 6 miles wide by 18 miles long. Basin elevations range from approximately 4,750 feet above mean sea level on the valley floor to approximately 7,800 feet above mean sea level in the surrounding mountains. Irrigation occurs primarily in the central part of the basin (Figure 2).

GROUNDWATER LEVELS

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

058 N24 E43 08DCCB1	058 N25 E42 17DDAD1	058 N26 E43 31BCBB1
058 N25 E42 01DDCC1	058 N25 E42 24BCDD1	058 N26 E43 31CDDC3
058 N25 E42 03DDCD2	058 N26 E43 16DDDD1	058 N27 E43 11DAAA1
058 N25 E42 08ADDD1	058 N26 E43 21CCCC2	058 N27 E43 23ACCC1
058 N25 E42 11ADCC2	058 N26 E43 21DDBD1	058 N27 E43 26ABBB1
058 N25 E42 12DDAB1	058 N27 E43 31AABD1	058 N27 E43 32BCBC1

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 in the Middle Reese River Valley Hydrographic Basin. 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 is estimated using the NIWR method above, but is adjusted based on available surface water for the year. Evapotranspiration and NIWR data by basin can be found on the NDWR website at: http://water.nv.gov/mapping/et/et_general.cfm. This approach using the NIWR to estimate pumpage was not used in previous inventories, and pumpage estimates for 2014 may differ significantly from estimates 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. Middle Reese River Valley historical irrigated acreage and pumpage data.

Year	2010	2011	2012	2013	2014
Acres Irrigated	7,192	7,004	7,130	7,634	7,322
Acre-Feet Pumped*	28,104	27,684	28,188	30,572	27,085

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

FIGURES

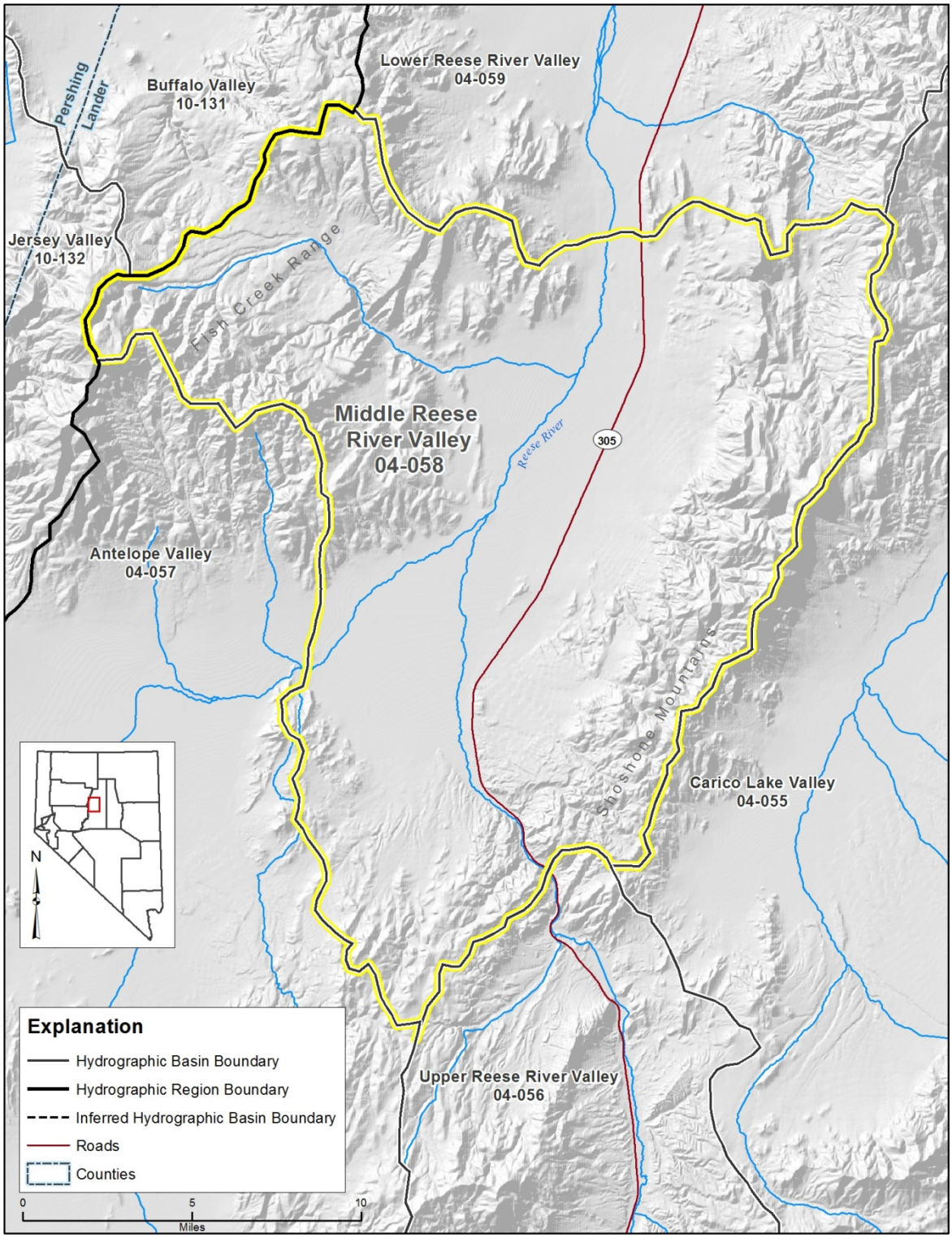

Figure 1. Physiographic map of Middle Reese River Valley (Hydrographic Basin 4-058).

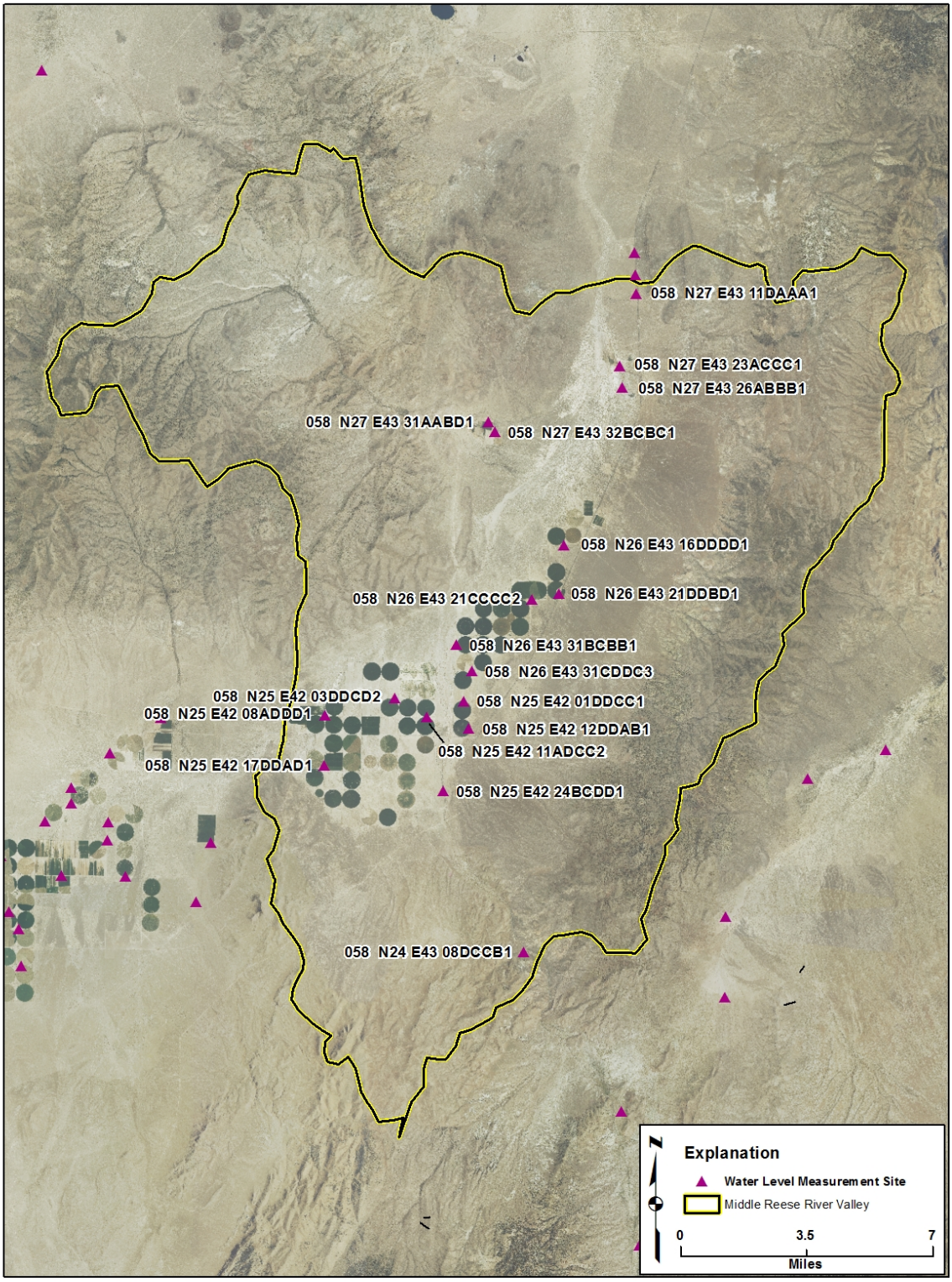

Figure 2. Map showing Middle Reese River Valley irrigated acreage and water level monitoring sites.

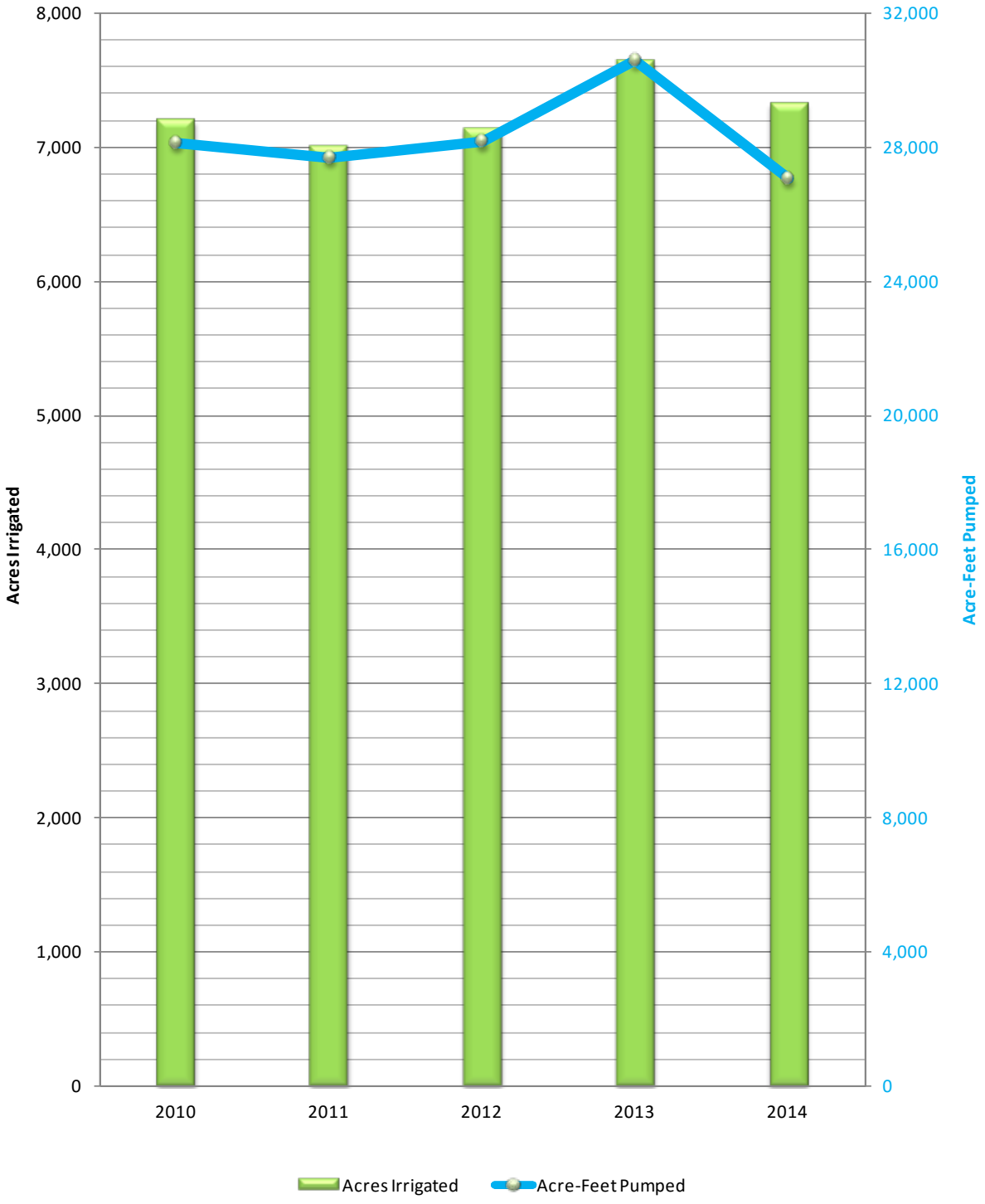

Figure 3. Graph showing Middle Reese River Valley historical irrigated acreage and pumpage. The NIWR method to estimate pumpage was used starting in 2014; estimates may differ significantly from previous years.

APPENDIX A. 2014 MIDDLE 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.
Supple-mentally 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.
Supple-mentally 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 **bold**.
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 FROM IRRIGATION, MIDDLE REESE RIVER VALLEY, BASIN 058, 2014

App No	Status	QQ	Q	Sec	Twn	Rng	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	Pumpage Estimation Method	Remarks
18693	CER	SE	SE	2	25N	42E	15	314.60	**314.60**	1258.54	**1258.54**	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
19926	CER	SE	SW	2	25N	42E	18693	152.00		608.00	AFS	CENTRAL NEVADA HAY COMPANY	alfala	3.1	pivot	85%	126.00	459.53		AFS
															Total		**252.00**	**919.06**		**AFA**
20287	CER	SE	SW	2	25N	42E	27699	160.00	**320.00**	640.00	**1280.00**	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
27699	CER	NW	NE	2	25N	42E	20287	320.00		1280.00	AFA	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
															Total		**252.00**	**919.06**		**AFA**
17964	CER	SE	SW	3	25N	42E	19137 20284 20285 22914	308.86	**631.16**	1235.45	**2524.63**	CENTRAL NEVADA HAY COMPANY	no crop	N/A			0.00	0.00		AFA
19137	CER	SE	SE	3	25N	42E	17964 20284 20285 22914	236.40		945.60	AFS	CENTRAL NEVADA HAY COMPANY	no crop	N/A			0.00	0.00		AFS
20284	CER	SE	SW	3	25N	42E	17964 19137 20284 22914	160.00		640.00	AFA	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
20285	CER	SE	SE	3	25N	42E	17964 19137 20284 22914	153.20		612.80	AFA	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
22914	CER		LT06	3	25N	42E	17964 19137 20284 20285	320.00		1280.00	AFA	CENTRAL NEVADA HAY COMPANY	no crop	N/A			0.00	0.00		AFA
															Total		**252.00**	**919.06**		**AFA**
24468	CER	SW	SE	4	25N	42E		254.30	**254.30**	1017.20	**1017.20**	CENTRAL NEVADA HAY COMPANY	no crop	N/A	old W.L.'s	75%	0.00	0.00		AFA
															Total		**0.00**	**0.00**		**AFA**
30764	CER	SE	SE	8	25N	42E	30765	588.51	**588.51**	1245.25	**2354.04**	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	wheel lines	75%	126.00	520.80		AFA
30765	CER	SE	NE	8	25N	42E	30764	588.51		1108.79	AFA	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
													alfalfa	3.1	w. lines	75%	114.00	471.20		
															Total		**252.00**	**980.33**		**AFA**
19207	CER	SE	SE	9	25N	42E		320.00	**320.00**	1280.00	**1280.00**	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
															Total		**126.00**	**459.53**		**AFA**
82518	CER	SW	SW	9	25N	42E		276.60	**276.60**	1106.40	**1106.40**	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	2 pivots	85%	252.00	919.06		AFS
															Total		**252.00**	**919.06**		**AFS**
20378	CER	SE	SE	10	25N	42E	21596	125.00	**125.00**	500.00	**562.50**	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	125.00	455.88		AFA
21596	CER	SW	NE	10	25N	42E	20378	125.00		562.50	AFA	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	--	--		AFA
															Total		**125.00**	**455.88**		**AFA**
19208	CER	SE	SW	10	25N	42E		306.25	**306.25**	1225.00	**1225.00**	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	wheel lines	75%	165.00	682.00		AFS
															Total		**165.00**	**682.00**		**AFS**
18692	CER	SE	SE	11	25N	42E	22875	279.70	**279.70**	1118.80	**1118.80**	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFS
22875	CER	SE	NE	11	25N	42E	18692	279.70		1118.80	AFA	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
															Total		**252.00**	**919.06**		**AFA**
18711	CER	SE	SW	11	25N	42E		151.60	**151.60**	606.40	**606.40**	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFS
															Total		**126.00**	**459.53**		**AFS**
23726	CER	SE	NW	11	25N	42E		151.30	**151.30**	605.20	**605.20**	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFS
															Total		**126.00**	**459.53**		**AFS**
30768	CER	NW	SE	14	25N	42E	30769	315.40	**315.40**	1212.75	**1261.60**	CENTRAL NEVADA HAY COMPANY	no crop	N/A	wheel lines	75%	--	--		AFS
30769	CER	NW	SW	14	25N	42E	30768	315.40		1261.60	AFA	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
															Total		**126.00**	**459.53**		**AFA**

CROP INVENTORY AND GROUNDWATER PUMPAGE FROM IRRIGATION, MIDDLE REESE RIVER VALLEY, BASIN 058, 2014

App No	Status	QQ	Q	Sec	Twn	Rng	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	Pumpage Estimation Method	Remarks
30770	CER	SW	NE	14	25N	42E	30771	287.90	**287.90**	634.80	**1151.60**	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFS
30771	CER	SE	NW	14	25N	42E	30770	287.90		813.60	AFS	CENTRAL NEVADA HAY COMPANY	no crop	N/A			--	--		AFS
															Total		**126.00**	**459.53**		**AFS**
30674	CER	SW	NE	15	25N	42E	30675 47527	312.70	**312.70**	1250.80	**1250.80**	ALTAMIRA FARMS	alfalfa	3.1	pivot	85%	63.00	229.76		AFA
30675	CER	SW	NE	15	25N	42E	30674 47527	312.70		320.00	AFA	ALTAMIRA FARMS	alfalfa	3.1	pivot	85%	63.00	229.76		AFA
47527	CER	SE	SE	15	25N	42E	30674 30675	312.70		637.60	AFS	ALTAMIRA FARMS	alfalfa	3.1	pivot	85%	126.00	459.53		AFS
															Total		**252.00**	**919.06**		**AFA**
19206	CER	SE	SE	16	25N	42E	23921	318.16	**318.60**	1272.66	**1272.66**	ALTAMIRA FARMS	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
													alfalfa	3.1	flood	60%	14.00	72.33		
23921	CER	SE	NE	16	25N	42E	19206	318.16		1272.66	AFA	ALTAMIRA FARMS	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
													alfalfa	3.1	w. lines	75%	7.00	28.93		
															Total		**266.00**	**991.39**		**AFA**
72434	PER	NE	NW	16	25N	42E	72435	315.11	**315.11**	1260.40	**1260.42**	DEMAS, JOSHUA P.	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
72435	PER	NE	NW	16	25N	42E	63779	315.11		1260.40	AFA	DEMAS, JOSHUA P.	alfalfa	3.1	wheel lines	75%	158.00	653.07		AFA
															Total		**284.00**	**1112.60**		**AFA**
24432	CER	SE	SE	17	25N	42E	78174	229.30	**229.30**	128.40	**917.20**	DEMAS, PETER A. & PEGGY A.	alfalfa	3.1	pivot	85%	126.00	128.40		AFS
78174	PER	SE	SW	16	25N	42E	24432	229.30		788.80		DEMAS, PETER A. & PEGGY A.	alfalfa	3.1	pivot	85%	--	331.13		AFS
															Total		**126.00**	**459.53**		**AFS**
78176	PER	SE	NW	16	25N	42E		164.75	**164.75**	658.99	**658.99**	DEMAS, PETER A. & PEGGY A.	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
															Total		**126.00**	**459.53**		**AFA**
25402	CER	NE	NE	20	25N	42E		299.02	**299.02**	1196.08	**1196.08**	DEMAS, PETER A. & PEGGY A.	alfalfa	3.1	3-T pivot	85%	32.00	116.71		AFA
78175	PER	SE	NW	16	25N	42E		299.02		796.17		DEMAS, PETER A. & PEGGY A.	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
															Total		**158.00**	**576.24**		**AFA**
18782	CER	SE	NE	21	25N	42E		157.13	**157.13**	628.57	**628.57**	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
															Total		**126.00**	**459.53**		**AFA**
22168	CER	SW	SE	21	25N	42E		62.11	**62.11**	248.41	**248.41**	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	1/2 pivot	85%	62.11	226.52		AFA
															Total		**62.11**	**226.52**		**AFA**
18781	CER	SE	SE	21	25N	42E		103.14	**103.14**	412.55	**412.55**	ALTAMIRA FARMS	alfalafa	3.1	1/2 pivot	85%	63.00	229.76		AFA
															Total		**63.00**	**229.76**		**AFA**
23712	CER	SE	NW	21	25N	42E		160.75	**160.75**	643.00	**643.00**	DEMAS, PETER AND PEGGY	no crop	N/A	no irr equip	N/A	0.00	0.00		AFA
															Total		**0.00**	**0.00**		**AFA**

CROP INVENTORY AND GROUNDWATER PUMPAGE FROM IRRIGATION, MIDDLE REESE RIVER VALLEY, BASIN 058, 2014

App No	Status	QQ	Q	Sec	Twn	Rng	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	Pumpage Estimation Method	Remarks
41217	CER	SE	SW	22	25N	42E	41218 41219 41220 41221 41222 41223 41224	867.60	**867.60**	614.80	**3470.40**	CENTRAL NEVADA HAY COMPANY	no crop	N/A	1 pivot	85%	--	--		AFS
41218	CER	SE	NW	22	25N	42E	41217 41219 41220 41221 41222 41223 41224	867.60		560.00	AFA	CENTRAL NEVADA HAY COMPANY	no crop	N/A			--	--		AFA
41219	CER	NE	NE	27	25N	42E	41217 41218 41220 41221 41222 41223 41224	867.60		560.00	AFA	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	1 pivot ne 27	85%	126.00	459.53		AFA
41220	CER	SE	SE	22	25N	42E	41217 41218 41219 41221 41222 41223 41224	867.60		604.40	AFS	CENTRAL NEVADA HAY COMPANY	no crop	N/A			--	--		AFS
41221	CER	SE	NW	22	25N	42E	41217 41218 41219 41220 41222 41223 41224	867.60		1120.00	AFA	CENTRAL NEVADA HAY COMPANY	no crop	N/A			--	--		AFA
41222	CER	SE	NE	28	25N	42E	41221 41223 41224	867.60		160.00	AFA	CENTRAL NEVADA HAY COMPANY	no crop	N/A			--	--		AFA
41223	CER	SE	NE	28	25N	42E	41221 41222 41224	867.60		480.00	AFA	CENTRAL NEVADA HAY COMPANY	no crop	N/A			--	--		AFA
41224	CER	SE	NE	28	25N	42E	41221 41222 41223	867.60		564.43	AFA	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	1 pivot nw 27	85%	--	--		AFA
															Total		**126.00**	**459.53**		**AFA**
30681	CER	SW	SW	23	25N	42E	40742	258.80	**258.80**	1035.20	**1035.20**	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
40742	CER	SW	SW	23	25N	42E	30681	258.80		300.33	AFA	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
															Total		**252.00**	**919.06**		**AFA**
40740	CER	SW	SE	23	25N	42E	40743	128.65	**128.65**	248.06	**514.60**	CENTRAL NEVADA HAY COMPANY	no crop	N/A	pivot in NE4	N/A	0.00	0.00		AFA
40743	CER	SW	SE	23	25N	42E	40740	128.65		320.00	AFA	CENTRAL NEVADA HAY COMPANY	no crop	N/A		N/A	0.00	0.00		AFA
															Total		**0.00**	**0.00**		**AFA**
40744	CER	NW	SW	24	25N	42E		290.55	**290.55**	513.52	**513.52**	CENTRAL NEVADA HAY COMPANY	no crop	N/A		N/A	0.00	0.00		AFA
															Total		**0.00**	**0.00**		**AFA**
41497	CER	NW	SW	31	26N	43E	41500 41501 41505 41506 56245 56246 60178	1373.45	**1384.15**	640.00	**5536.60**	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	--	--		AFA
41500	CER		LT06	1	25N	42E	41497 41501 41505 41506 56245 56246 60178	1373.45		1035.32	AFS	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	1/2 pivot	85%	63.00	229.76		AFS
41501	CER	SE	SE	1	25N	42E	41497 41500 41505 41506 56245 56246 60178	1373.45		968.00	AFS	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	1/2 pivot	85%	63.00	229.76		AFS
41502	CER	NW	NW	31	26N	43E	41497 41500 41505 41506 56245 56246 60178	1373.45		640.00	AFA	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
41505	CER	SW	NE	31	26N	43E	41497 41500 41502 41506 56245 56246 60178	1373.45		589.20	AFS	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFS
41506	CER	SE	SW	31	26N	43E	41497 41500 41502 41505 56245 56246 60178	1373.45		1162.00	AFS	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFS
56245	CER	NW	NE	12	25N	42E	41506 56246 60178	294.75		640.00	AFA	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
56246	CER	NW	NE	12	25N	42E	41506 56245 60178	294.75		937.66	AFA	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
60178	CER	NE	NE	31	26N	43E	41506 56245 56246	234.00		936.00	AFA	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
															Total		**882.00**	**3216.71**		**AFA**
17966	CER	SE	SE	10	26N	43E	62+41=103 acres	161.90	**161.90**	647.60	**647.60**	ELLISON RANCHING COMPANY	pasture	3.1	wheel lines	75%	103.00	425.73		AFA
															Total		**103.00**	**425.73**		**AFA**
68637	PER	SE	NW	10	26N	43E	68639 68640 68641 68642	38.26	**127.91**	153.05	**511.63**	CAWRSE, DENNIS, JOANNE & DENNIS M	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
68639	PER	SE	NW	10	26N	43E	68637 68640 68641 68642	36.82		147.26	AFA	CAWRSE, DENNIS, JOANNE & DENNIS M	alfalfa	3.1	pivot	85%	--	--		AFA
68640	PER	SE	NW	10	26N	43E	68637 68639 68641 68642	13.01		52.04	AFA	CAWRSE, DENNIS & JOANNE	alfalfa	3.1	pivot	85%	--	--		AFA
68641	PER	SE	NW	10	26N	43E	68637 68639 68640 68642	0.00		159.28	AFA	CAWRSE, DENNIS & JOANNE	alfalfa	3.1	pivot	85%	--	--		AFA
68642	PER	SE	NW	10	26N	43E	68637 68639 68640 68641	0.00		159.42	AFA	CAWRSE, DENNIS & JOANNE	alfalfa	3.1	pivot	85%	--	--		AFA
															Total		**126.00**	**459.53**		**AFA**

CROP INVENTORY AND GROUNDWATER PUMPAGE FROM IRRIGATION, MIDDLE REESE RIVER VALLEY, BASIN 058, 2014

App No	Status	QQ	Q	Sec	Twn	Rng	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	Pumpage Estimation Method	Remarks
18814	CER	SE	NW	15	26N	43E	21434	106.10	**285.60**	424.40	**1190.40**	ROBERTS, GEORGIA I.	alfalfa	3.1	pivot	85%	101.00	368.35		AFA
21434	CER	SE	NE	16	26N	43E	18814	219.10		876.40	AFA	ROBERTS, GEORGIA I.	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
															Total		**227.00**	**827.88**		**AFA**
71160	PER	SE	SE	20	26N	43E	71161	278.10	**278.10**	957.20	**1049.06**	LOSSING, JACK P. & PATRICIA S.	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
													alfalfa	3.1	w. lines	75%	13.00	53.73		
71161	PER	SW	SW	21	26N	43E	71160	278.10		155.20	AFA	LOSSING, JACK P. & PATRICIA S.	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
													alfalfa	3.1	w. lines	75%	13.00	53.73		
															Total		**265.00**	**972.79**		**AFA**
64995	PER	SE	SE	21	26N	43E	68638 72626	236.52	**250.68**	372.91	**1002.24**	CAWRSE, DENNIS, JOANNE & DENNIS M	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
68638	PER	SE	SE	21	26N	43E	64995 72626	14.04		56.16	AFS	CAWRSE, DENNIS M.	alfalfa	3.1	pivot	85%	19.00	69.29		AFS
72626	PER	SE	SE	21	26N	43E	64995 68638	157.33		573.17		CAWRSE, DENNIS M.	alfalfa	3.1	pivot	85%	79.00	288.12		AFS
															Total		**224.00**	**816.94**		**AFA**
72627	PER	SE	SW	29	26N	43E	76268 76269 73171	542.55	**542.57**	803.38	**2170.28**	CAWRSE, DENNIS & JOANNE	alfalfa	3.1	pivot	85%	126.00	459.53		AFS
72628	PER	SE	NE	29	S6N	43E	76267 76269 73171	542.55		707.34		CAWRSE, DENNIS & JOANNE	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
72629	PER	SE	SE	29	26N	43E	72627 72628 73171	542.55		353.22	AFA	CAWRSE, DENNIS & JOANNE	alfalfa	3.1	Pivot	85%	126.00	459.53		AFA
73171	PER	SE	SW	29	26N	43E	72627 72628 72629	542.55		356.55	AFA	CAWRSE, DENNIS & JOANNE	alfalfa	3.1	1 full 1 3-T	85%	158.00	576.24		AFA
															Total		**536.00**	**1954.82**		**AFA**
18936	CER	SW	SE	30	26N	43E		269.24	**269.24**	1076.96	**1076.96**	DRISKELL, JANICE	alfalfa	3.1	pivot SW4	85%	252.00	919.06		AFA
															Total		**252.00**	**919.06**		**AFA**
24145	CER	SW	SW	30	26N	43E		270.82	**270.82**	1083.28	**1083.28**	DRISKELL, JANICE	alfalfa	3.1	pivot	85%	126.00	459.53		AFA
															Total		**126.00**	**459.53**		**AFA**
24417	CER	SE	SE	31	26N	43E		156.30	**156.30**	561.98	**561.98**	CENTRAL NEVADA HAY COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFS
															Total		**126.00**	**459.53**		**AFS**
13720	CER	SW	NE	23	27N	43E	supp to surface	199.62	**199.62**	798.48	**798.48**	ELLISON RANCHING COMPANY	alfalfa	3.1	pivot	85%	126.00	459.53		AFS
															Total		**126.00**	**459.53**		**AFS**
13395	CER	SE	NE	31	27N	43E	18638	129.40	**149.90**	487.00	**595.20**	ELLISON RANCHING COMPANY	Pasture	3.1	flood	60%	0.00	0.00		AFS
18638	CER	SW	NW	32	27N	43E	13395	61.60		246.40	AFA	ELLISON RANCHING COMPANY	alfalfa	3.1	flood	60%	56.00	289.33		AFA
															Total		**56.00**	**289.33**		**AFA**
								GRAND TOTAL:	**12067.31**		**47598.03**		**GRAND TOTAL:**				**7322.11**	**27085.28**		**AFA**