

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

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**EAGLE VALLEY**  
**HYDROGRAPHIC BASIN 8-104**

**GROUNDWATER PUMPAGE INVENTORY**

**WATER YEAR 2016**

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## ABSTRACT

This inventory represents the status and use of all permitted, certificated, claims of vested right groundwater rights, and exempt domestic wells located within Eagle Valley, Hydrographic Basin 8-104, for water year 2016 (October 1, 2015 through September 30, 2016). Also included are summary graphs and additional data associated with basin transfers, aquifer storage, use of effluent, streamflow measurements, and depth to groundwater.

The data presented are valid for the 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 2016, the committed water resource totaled 9,735 acre-feet, with estimated pumpage of **4,248 acre-feet**. This includes an estimated 889 acre-feet pumped from exempt domestic wells.

Municipal was the largest manner of use within Eagle Valley. For water year 2016, appropriations for municipal totaled 6,810 acre-feet, with pumpage of 3,190 acre-feet. The second largest manner of use was pumping by exempt domestic wells.

## HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER	104, REGION 8
HYDROGRAPHIC BASIN NAME	EAGLE VALLEY
COUNTIES	CARSON CITY, DOUGLAS, WASHOE
MAJOR COMMUNITIES	CARSON CITY
DESIGNATED	YES
DENIALS BASED UPON WATER AVAILABILITY	COMMERCIAL, INDUSTRIAL, IRRIGATION, QUASI- MUNICIPAL, RECREATION, OTHER
GROUNDWATER LEVEL MEASUREMENTS	NDWR & USGS, CARSON CITY
PUMPAGE INVENTORY, ACRE-FEET IN 2016	4,248 <sup>1</sup>

STATE ENGINEER'S ORDERS

<a href="#"><u>NO. 424 – DESIGNATION</u></a>	DATE: FEBRUARY 23, 1972
<a href="#"><u>NO. 874 – EXTENDED DESIGNATION</u></a>	DATE: JULY 29, 1985
<a href="#"><u>NO. 1119 – DESIGNATION AND PREFERRED USE</u></a>	DATE: DECEMBER 7, 1995
<a href="#"><u>NO. 1140 – DROUGHT CONDITIONS PUMPING FLEXIBILITY</u></a>	DATE: JANUARY 27, 1998
<a href="#"><u>NO. 1202 – DOMESTIC WELL CREDIT</u></a>	DATE: MAY 26, 2009

COMMITTED GROUNDWATER RESOURCE<sup>2</sup>: 9,735 ACRE-FEET DATE: DECEMBER 2017

IRRIGATION.....390	COMMERCIAL.....50	STOCKWATER.....7
QUASI-MUNICIPAL.....313	MUNICIPAL.....6,810	INDUSTRIAL.....2
ENVIRONMENTAL.....384	DOMESTIC.....1,778	OTHER.....2

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<sup>1</sup> Includes pumpage by exempt domestic wells, as defined by NRS 534.013.

<sup>2</sup> Committed groundwater resource data are accurate for December 2017. 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 affect 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. A query of the NDWR Well Log Database indicates that 889 domestic wells existed in the basin during water year 2016. The committed domestic water resource is considered to be 2 acre-feet per domestic well, or 1,778 acre-feet annually.

## PURPOSE AND SCOPE

The primary 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 Eagle Valley, Hydrographic Basin 8-104, for the water year beginning October 1, 2015 and ending September 30, 2016 (water year 2016). 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

Eagle Valley is located in west central Nevada. This basin occupies approximately 71 square miles, the majority of which is in Carson City County; small portions of the basin extend into Douglas and Washoe Counties. Adjacent hydrographic basins are Lake Tahoe Basin (6-090) to the west, Washoe Valley (6-089) to the north, Dayton Valley (8-103) to the east; and Carson Valley (8-105) to the south (Figure 1). The exterior boundary of Eagle Valley is as described by Designation Order 424, issued by the Nevada State Engineer on February 23, 1972, and by Designation Order 874, issued on July 29, 1985.

Eagle Valley is bounded on the west by the Carson Range of the Sierra Nevada, which is the primary watershed for the basin. The Virginia Range forms the north boundary, and Prison Hill borders the basin to the southeast; a low ridge extending from the Virginia Range south to Prison Hill forms the eastern boundary. The southern boundary is formed by a low alluvial rise and intermittent hills separating Eagle Valley from Carson Valley.

The U.S. Geological Survey (USGS) operates six stream gaging stations in Eagle Valley (see Figure 1). Stations #10310485, #10310500, and #10310518 measure streamflow along Clear Creek. Stations #10311100, #10311200, and #10310600 measure streamflow along Kings Canyon, Ash Canyon, and Voltaire Canyon Creeks, respectively. Data from these gages are maintained on the USGS website at <http://nevada.usgs.gov/>.

## GROUNDWATER LEVELS

Depths to groundwater in Eagle Valley are measured on a periodic basis by multiple agencies at the following sites (Figure 2):

<a href="#">104 N15 E19 01DDDD2</a>	<a href="#">104 N15 E19 07CBBB1</a>	<a href="#">104 N15 E19 12AADA1</a>
<a href="#">104 N15 E19 12ABCC1</a>	<a href="#">104 N15 E19 12ABCC2</a>	<a href="#">104 N15 E19 12ABCC3</a>
<a href="#">104 N15 E19 12ABCC4</a>	<a href="#">104 N15 E19 12ABCC5</a>	<a href="#">104 N15 E19 12ABCC6</a>
<a href="#">104 N15 E19 12ACAB1</a>	<a href="#">104 N15 E19 12ACAB2</a>	<a href="#">104 N15 E19 12ACAB3</a>
<a href="#">104 N15 E19 12ACAB4</a>	<a href="#">104 N15 E19 12ACBB1</a>	<a href="#">104 N15 E19 12ACBB2</a>
<a href="#">104 N15 E19 12ACBB3</a>	<a href="#">104 N15 E19 12ACBB4</a>	<a href="#">104 N15 E19 12ADAA1</a>
<a href="#">104 N15 E19 12DADD1</a>	<a href="#">104 N15 E19 13ADDD1</a>	<a href="#">104 N15 E20 02CACCI</a>
<a href="#">104 N15 E20 04DBDD1</a>	<a href="#">104 N15 E20 04DBDD2</a>	<a href="#">104 N15 E20 05BBCA1</a>
<a href="#">104 N15 E20 05BBCA2</a>	<a href="#">104 N15 E20 06DDAD1</a>	<a href="#">104 N15 E20 07BADCI</a>

[104 N15 E20 07BBAB1](#)  
[104 N15 E20 16BDBB1](#)  
[104 N15 E20 18BDDA1](#)  
[104 N15 E20 33BDBC1](#)  
[104 N16 E20 33CCDD1](#)

[104 N15 E20 07DDBB1](#)  
[104 N15 E20 17AADB1](#)  
[104 N15 E20 29DAAB1](#)  
[104 N15 E20 33CBAB1](#)

[104 N15 E20 15BDDBA1](#)  
[104 N15 E20 17CBBA1](#)  
[104 N15 E20 32BDAA1](#)  
[104 N16 E20 31DBCC1](#)

The water level data and a hydrograph for each site are available from the Water Level Data page of the NDWR website (<http://water.nv.gov/data/waterlevel/>). Data retrievals are organized by hydrographic basin. In addition to the sites above, the USGS monitors a network of wells whose data are available directly from their website (<http://nevada.usgs.gov>).

## METHODS TO ESTIMATE PUMPAGE

This report estimates the amount of groundwater pumped under claims of vested rights and the permits and certificates issued by the State Engineer, as well as the amount pumped by exempt domestic wells in the valley. Table 1 and Figure 3 show historical pumpage by manner of use; Figure 4 shows percentage of groundwater pumped by manner of use; and Figure 5 compares groundwater appropriations and pumpage by manner of use. The following methods were used to arrive at the estimated pumpage:

- Where totalizing meters were in place, meter readings were taken and compared with previous data (if available).
- 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 lines 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 groundwater rights were supplemental to surface water, groundwater use was estimated using the NIWR method above, but adjusted based on available surface water for the year. Evapotranspiration and NIWR data by basin can be found on the NDWR website at: <http://water.nv.gov/Evapotranspiration.aspx>.
- 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.
- Carson City Department of Public Works Water Division (CCPW) is the primary water purveyor in Eagle Valley and provides NDWR with monthly pumping totals on a quarterly basis as a condition of permits under which their water is appropriated. Douglas County and Sierra Estates General Improvement District also report pumpage within Eagle Valley on a quarterly basis. These reported totals are used directly as the amounts pumped for those entities.
- 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 two 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 annually by exempt domestic wells is estimated to be one acre-foot per well in Eagle Valley, or 889 acre-feet.

## **MUNICIPAL SUPPLY IN ADDITION TO EAGLE VALLEY GROUNDWATER**

CCPW has several sources of water in addition to groundwater pumped within Eagle Valley. All additional sources to the municipal system are reported to the Nevada State Engineer and are summarized in Table 2 and Table 3. Surface water sources include direct diversions from Kings and Ash Creeks, induction wells on the Carson River, and importation from the Marlette Water System. Groundwater sources include wells in Carson Valley and Dayton Valley within the Carson City municipal service area, and the North Douglas County and Carson City Water Line intertie. Water imported to the municipal system that exceeds demand is stored in the aquifer or exported to Dayton Valley through transmission pipeline shown in Table 3. Effluent generated within Eagle Valley is treated and reused.

The Marlette/Hobart system was originally constructed in the 19th century to meet the water needs of Virginia City, and continues to supply water to Virginia City and Carson City. Water is diverted from Marlette Lake (within the Lake Tahoe Basin) and delivered to Hobart Reservoir, located in Washoe Valley. From Hobart Reservoir, water is delivered by pipeline to Carson City, treated, and commingled with water from Ash Canyon and North Kings Canyon Creeks into CCPW's municipal supply system shown in Table 2.

CCPW operates aquifer storage and recovery (ASR) programs in Eagle Valley under Nevada State Engineer's ASR Permit R-004 and R-022. The terms of Permit R-004 allow for recharge of up to 700 acre-feet per year of water from the Marlette/Hobart system. After municipal demand is met, excess water is released into the Vicee Canyon drainage, where it flows approximately two miles downstream to rapid infiltration basins. Permit R-022 allows for recharge of up to 250 acre-feet per year of treated water from Ash Canyon Creek and Kings Canyon Creek. Three existing CCPW wells in Eagle Valley are the recharge injection wells. Injection will occur during periods of low water demand when there is sufficient excess water available. The amount of water diverted to aquifer storage under R-004 and R-022 is shown in Table 2. No recovery of stored water occurred in 2016.

CCPW operates a wastewater treatment plant in eastern Eagle Valley that treats domestic and industrial wastewater received from sewer connections within the Carson City service area. Use of effluent for irrigation is authorized by the Nevada State Engineer under secondary Permits 25727 and 30450, and by the Nevada Division of Environmental Protection under Permit



NEV90008. Treated effluent is used for irrigation of golf courses, sports fields, the landscaping of several street medians, and at the treatment plant within Eagle Valley. When demand is low, effluent is pumped to a storage reservoir in Brunswick Canyon, approximately three miles east of the plant. Effluent deliveries for reuse in 2016 are shown in Table 3.<sup>3</sup>

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<sup>3</sup> Data from Randal Gray, written communication 2018.

## TABLES

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

<b>YEAR</b>	<b>COM</b>	<b>DOM*</b>	<b>ENV</b>	<b>IND</b>	<b>IRR</b>	<b>MUN</b>	<b>QM</b>	<b>STK</b>	<b>TOTAL</b>
<b>2012</b>	23	882	2	2	34	4,021	175	1	<b>5,139</b>
<b>2013</b>	34	875	2	2	31	4,568	156	1	<b>5,670</b>
<b>2014</b>	24	872	2	2	20	3,498	173	1	<b>4,595</b>
<b>2015</b>	26	870	1	2	18	3,483	137	1	<b>4,538</b>
<b>2016</b>	21	889	0	1	20	3,190	126	1	<b>4,248</b>

Table 2. Summary of 2016 municipal supply in addition to Eagle Valley groundwater by basin of origin.

	<b>Supply</b>	<b>Basin of Origin</b>	<b>Acre-feet</b>	<b>Total</b>
<b>Groundwater Source</b>	CCPW Wells	Carson Valley	228	<b>4,504</b>
	CCPW Wells	Dayton Valley	1,483	
	Town of Minden Intertie	Carson Valley	2,793	
<b>Surface Water Source</b>	Kings Creek	Eagle Valley	358	<b>3,587</b>
	Ash Creek	Eagle Valley	1,073	
	CCPW Carson River Induction Wells	Dayton Valley	1,439	
	Marlette System Water to CCPW	Lake Tahoe	717	
<b>Aquifer Storage</b>	Marlette System Water to Vicee (R-004)	Lake Tahoe	679	<b>679</b>
	CCPW Water Injected (R-022)	Eagle Valley	0	

Table 3. Summary of 2016 Eagle Valley distributions by basin delivery.

	<b>Supply</b>	<b>Basin Delivery</b>	<b>Acre-Feet</b>	<b>Total</b>
<b>Effluent Delivered for Reuse</b>	CCPW	Eagle Valley	1,387	<b>3,469</b>
	CCPW	Carson Valley	1,252	
	CCPW	Dayton Valley	830	
<b>Water Exported</b>	Lyon County Public Works	Dayton Valley	199	<b>199</b>

## FIGURES

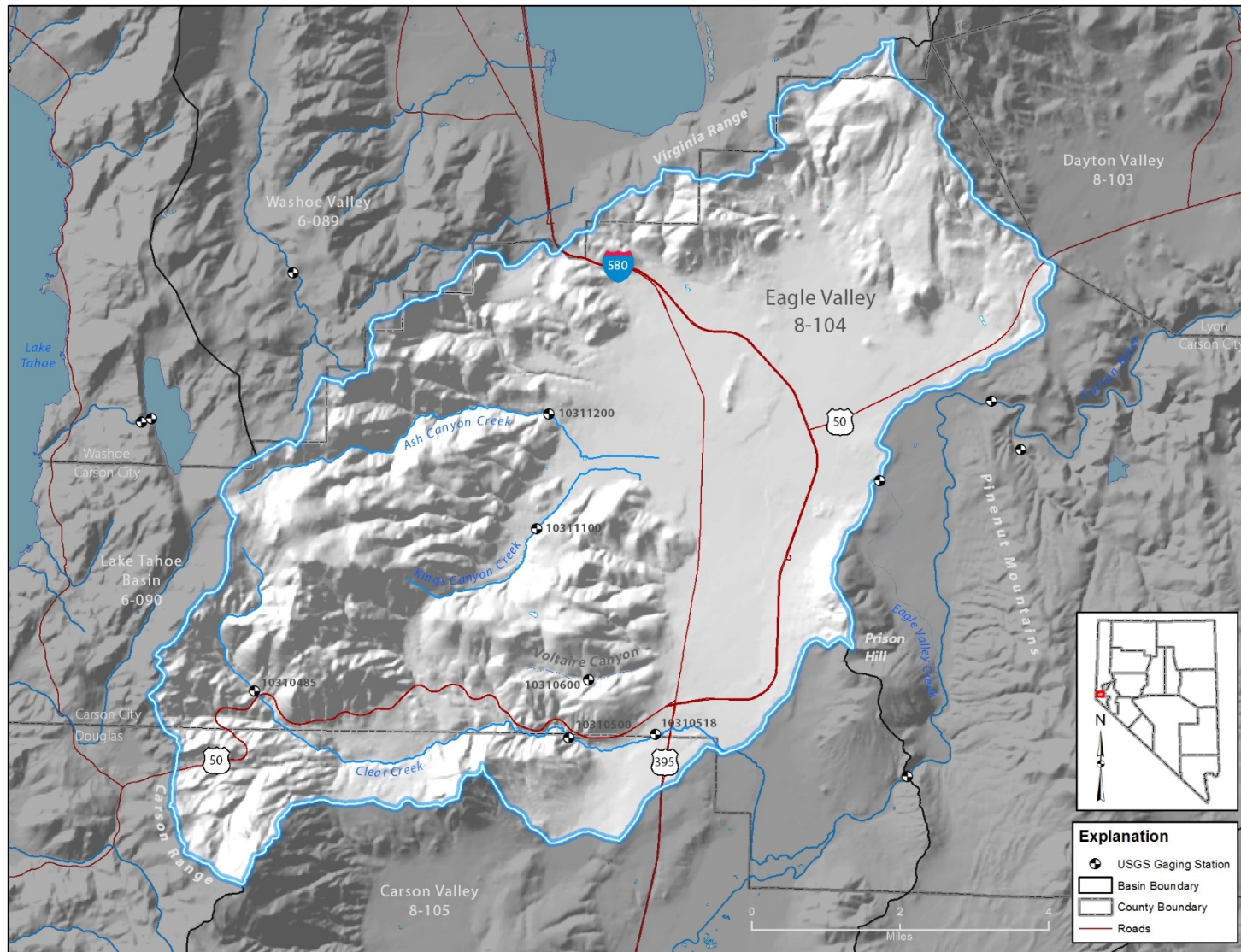


Figure 1. Eagle Valley (Hydrographic Basin 8-104) physiographic map.



Figure 2. Eagle Valley water level measurement sites.

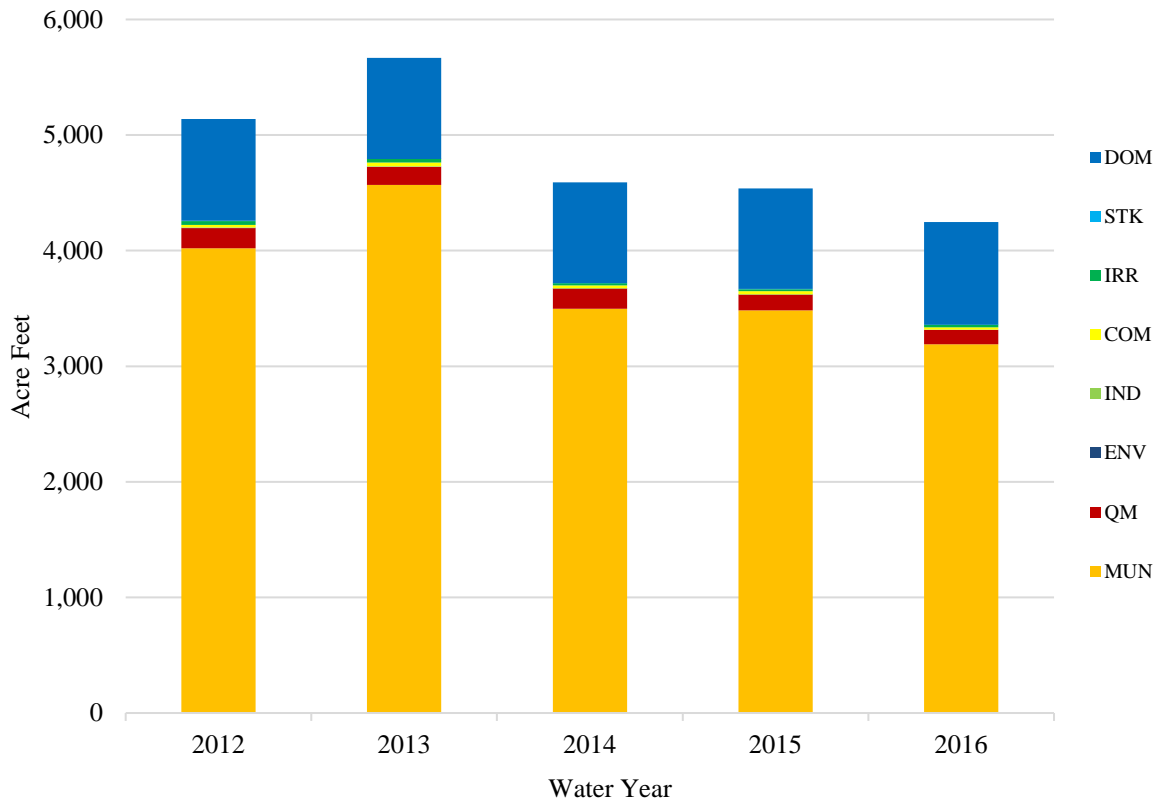


Figure 3. Eagle Valley historical pumpage by manner of use.

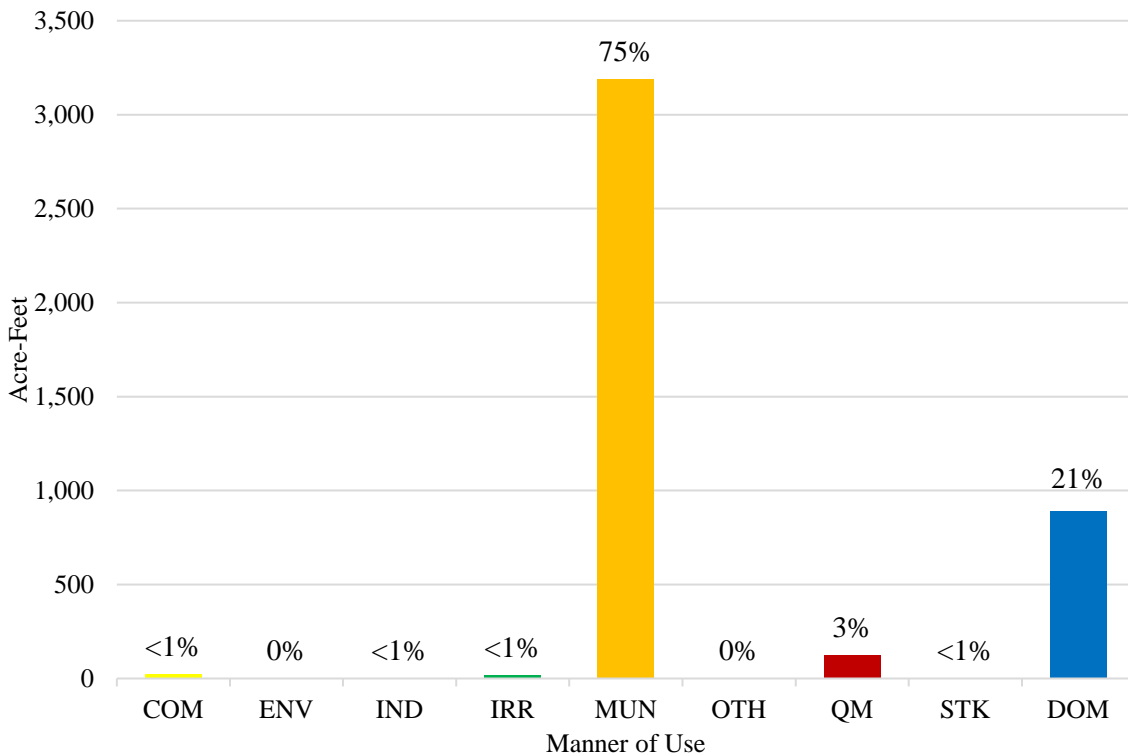


Figure 4. Percentage of 2016 groundwater pumpage by manner of use.

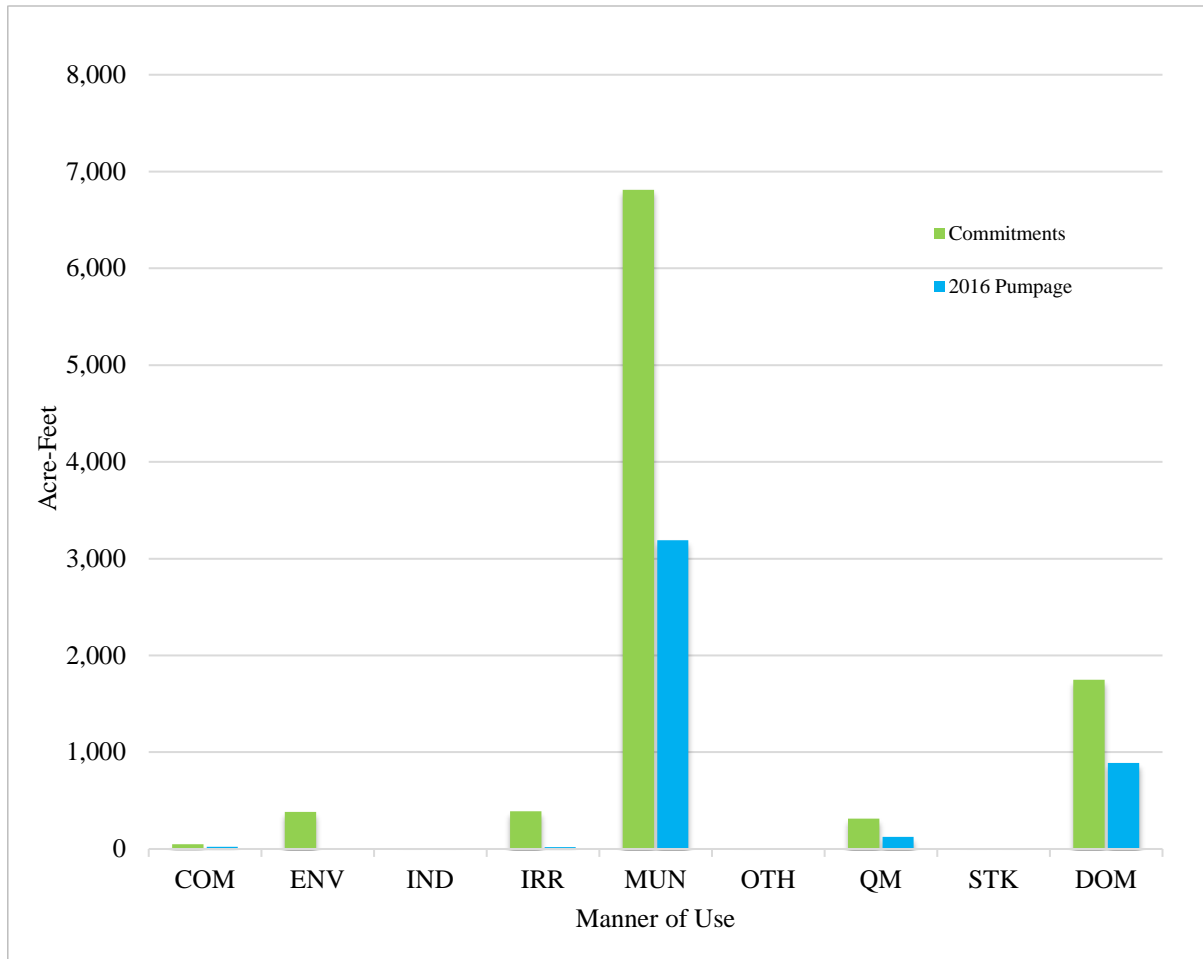


Figure 5. Comparison between 2016 groundwater commitments and estimated pumpage.

**APPENDIX A. EAGLE VALLEY 2016 GROUNDWATER PUMPAGE BY  
APPLICATION NUMBER.**

**EXPLANATION OF COLUMN HEADINGS FOR GROUNDWATER PUMPAGE  
BY APPLICATION NUMBER**

APP NO.	The file number of the Application to Appropriate/Change Water.
SITE NAME	An ID assigned to each well, based on its geographic location.
STATUS	Indicates the status of an application: Permit (PER), Certificated (certificate number will be listed), Claim of Vested Right (VST).
MOU	The manner of use of the appropriated water. COM- Commercial                      IRR- Irrigation DOM- Domestic                         MUN- Municipal ENV- Environmental                  QM- Quasi-Municipal IND- Industrial                         STK- Stockwater
OWNER OF RECORD	The owner(s) of the water right as recorded in the files of the State Engineer.
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.
PER. ACRES	The number of acres that are permitted to be irrigated.
DUTY (AF)	The number of acre-feet of water that the permittee may pump. One acre-foot equals 325,851 gallons.
SUPP ADJ	Where more than one permit is appurtenant to the same place of use, the permits are considered supplemental. Permits may be either completely or partially supplemental. In these cases, a total combined duty for the subject permits is employed.
DUTY USED	The amount of water used during the water year, in acre-feet, as determined by review of records and/or field investigation.
UNITS	Acre-feet annually (AFA) and acre-feet seasonally (AFS). AFS limits water usage to certain months of the year.
SUPP SRC	The source of the supplemental water; underground, or groundwater (UG), or Kings Creek (KC).
SUPP GW	The file number(s) of the supplemental water appropriations. Supplemental groups are listed in footnotes at the end of Appendix A.
METHOD	The method used to estimate pumpage, or duty used. D – Duty E – The observed use during field investigation M – Meter reading on a totalizing meter N – NIWR R – Reported pumpage



APP NO.	SITE NAME	STATUS	MOU	OWNER OF RECORD	QQ	QTR	SEC	T	R	PER ACRES	DUTY (AF)	SUPP ADJ	DUTY USED	UNIT	SUPP SRC	SUPP GW APP NO.	METHOD
V02449	104 N15 E20 07DCAB1	VST	STK	ANDERSON, D.A.	SW	SE	7	15N	20E		2.79	2.79	0.00	AFA			E
V02518	104 N15 E20 18ABDD1	VST	IRR	ALLEN, ROBERT A., CHESNEY, JANE & SAMUEL	NW	NE	18	15N	20E	1.3	5.20	5.20	0.00	AFA			E
V02780	104 N15 E20 18ABDD1	VST	IRR	CARRINGTON, EDME H. & PAUL W.	SE	NE	18	15N	20E	0.5	2.00	2.00	1.20	AFA			E
V02785	104 N15 E20 07CDDB1	VST	STK	NEWMAN CONSTRUCTION LTD.	SE	SW	7	15N	20E		1.87	1.87	0.00	AFA			E
V03704	104 N15 E20 16CACA1	VST	STK	LOMPA, EVA	NE	SW	16	15N	20E		2.24	2.24	1.00	AFA			E
V09127	104 N15 E20 10BDDC1	VST	COM	HONE, DOUGLAS K., SCHAFFNER RANCH	SE	NW	10	15N	20E		0.00	0.00	0.00	AFA			E
8961	104 N15 E20 07ADCB1	2492	IRR	CONSOLIDATED CONSTRUCTION CORP., ET. AL.	SE	NE	7	15N	20E	10.84	39.00	39.00	0.00	AFS			E
12994	104 N15 E20 18CAAA1	3504	IRR	TURMAN, ELIZABETH W. CROZER	NE	SW	18	15N	20E	54.20	216.80	216.80	0.00	AFA	UG/KC	12995	E
12995	104 N15 E20 18DBDB1	3505	IRR	TURMAN, ELIZABETH W. CROZER	NW	SE	18	15N	20E	54.20	216.80	0.00	0.00	AFA	UG/KC	12994	E
15313	104 N15 E20 29BCCA1	5076	COM	MARTIN, MARYBELLE M., MARTIN WILLIAM J.	SW	NW	29	15N	20E		4.36	4.36	1.00	AFA			E
15880	104 N15 E20 07CDBA1	5499	IRR	JOOST LAND AND CATTLE COMPANY, INC.	SE	SW	7	15N	20E	17.89	48.38	48.38	0.00	AFA			E
17881	104 N15 E20 20CCAA1	4965	OTH	MILITARY DEPARTMENT-NEVADA	SW	SW	20	15N	20E		2.24	2.24	0.00	AFA			E
17899	104 N15 E20 05BADB1	5379	IRR	LIPPINCOTT, CLYDE R., ET. AL.	NE	NW	5	15N	20E	1.00	4.00	4.00	1.29	AFA			N
19044	104 N14 E20 06CBBA1	6208	QM	SIERRA ESTATES G.I.D.	NW	SW	6	14N	20E		33.88	78.41	0.00	AFA	UG	20935, 53822	R
20702	104 N15 E20 29BCBD1	7841	COM	NEWMAN, PATRICIA M., NEWMAN, ROY	SW	NW	29	15N	20E		5.37	5.37	5.30	AFA			E
20935	104 N14 E20 06CBBA2	6209	QM	SIERRA ESTATES G.I.D.	NW	SW	6	14N	20E		33.88	0.00	0.00	AFA	UG	19044, 53822	R
21258	104 N15 E20 11BBAD1	6707	COM	FULLER, WILLIAM S.	NW	NW	11	15N	20E		9.57	9.57	2.00	AFA			E
23672	104 N15 E19 12DADD1	6471	MUN	CARSON CITY	NE	SE	12	15N	20E		120.00	6716.30	120.00	AFA	UG	Footnote 1	R
23673	104 N15 E19 12DADD1	6472	MUN	CARSON CITY	NE	SE	12	15N	19E		1268.98	0.00	55.26	AFA	UG	Footnote 1	R
23727	104 N15 E19 33DDBD1	7646	QM	NEVADA-STATE LANDS DIVISION	SE	SE	33	15N	19E		3.99	3.99	0.46	AFA	UG	23728	M
23728	104 N15 E19 34CCAC1	7647	QM	NEVADA-STATE LANDS DIVISION	SW	SW	34	15N	19E		3.99	0.00	0.00	AFA	UG	23727	M
24462	104 N15 E20 05BDCC1	7734	QM	FISCHER, ALBERT J.	SE	NW	5	15N	20E		26.79	26.79	0.51	AFA	UG	24463	M
24463	104 N15 E20 05BDBC1	7735	QM	FISCHER, ALBERT J.	SE	NW	5	15N	20E		26.79	0.00	27.33	AFA	UG	24462	M
24986	104 N15 E20 17DDDA1	7366	MUN	CARSON CITY	SE	SE	17	15N	20E		806.51	0.00	0.00	AFA	UG	Footnote 1	R
25667	104 N15 E20 07DDBB1	9866	MUN	CARSON CITY	SE	SE	7	15N	20E		470.22	0.00	181.78	AFA	UG	Footnote 1	R
25728	104 N15 E20 08CACB1	9583	QM	NORTH CARSON STREET, LLC	NE	SW	8	15N	20E		72.95	73.44	0.00	AFA	UG	40786	E
25987	104 N16 E20 36DCCD1	9868	COM	PARKER, BENJAMIN LANCASTER	SW	SE	36	16N	20E		10.37	10.37	3.24	AFA			M
26297	104 N15 E20 17DBDD1	8813	QM	WESTERN SUN, LLC	NW	SE	17	15N	20E		4.57	4.57	5.30	AFA			M
26453	104 N15 E20 11BBCA1	8865	IND	PEDERSON, BJARNE A.	NW	NW	11	15N	20E		0.40	0.41	0.66	AFA			M
26581	104 N15 E20 06DAAC1	9622	MUN	CARSON CITY	NE	SE	6	15N	20E		407.24	0.00	0.00	AFA	UG	Footnote 1	R
26582	104 N15 E19 12ADAD1	9623	MUN	CARSON CITY	SE	NE	12	15N	19E		1178.15	0.00	425.17	AFA	UG	Footnote 1	R
26821	104 N15 E20 29CBBC1	8948	COM	POZZI MOTOR COMPANY, POZZI, ARCHIE, JR.	NW	SW	29	15N	20E		0.43	0.43	0.14	AFA			M
26822	104 N15 E20 01CBDC1	9260	IRR	RIDL, LTD	NW	SW	1	15N	20E	10.00	9.27	9.27	0.95	AFA			M
26886	104 N15 E20 29CBBD1	9164	COM	MEHELLE R. HITCHCOCK 2000 FAMILY TRUST AGREEMENT	NW	SW	29	15N	20E		0.86	0.86	0.84	AFA			M
26945	104 N15 E20 31DDDB1	8761	COM	FIXMER, E. J., PRIESTLEY, K.D.	SE	SE	31	15N	20E		0.64	0.64	0.30	AFA			E
26985	104 N15 E20 02CDAD1	9428	COM	HARRINGTON, J. P.	SE	SW	2	15N	20E		0.18	0.18	0.00	AFA			E
27012	104 N15 E20 16DCAB1	8393	COM	WELLS, LEON D., WELLS RUTH A.	SW	SE	16	15N	20E		0.37	0.38	0.00	AFA			E
27063	104 N15 E20 01BCA1	8406	COM	WESTERN INSPIRATIONAL BROADCASTERS	NW	SW	1	15N	20E		0.21	0.21	0.36	AFA			M
27076	104 N15 E20 02DCAB1	8783	COM	MELLOW, JERRY A., SIMONS, DONN N.	SW	SE	2	15N	20E		1.01	1.01	0.05	AFA			M
27095	104 N15 E20 06DDAD1	9070	COM	EUSE, CHERYL RUPP MANN & VINCENT L., SILVER HILS VETERINARY HOSPITAL	SE	SE	6	15N	20E		1.10	1.10	0.14	AFA			M
27164	104 N15 E20 31BDDD1	8828	COM	PECORILLA, ANGELO	SE	NE	31	15N	20E		1.10	1.10	1.76	AFA			M

APP NO.	SITE NAME	STATUS	MOU	OWNER OF RECORD	QQ	QTR	SEC	T	R	PER ACRES	DUTY (AF)	SUPP ADJ	DUTY USED	UNIT	SUPP SRC	SUPP GW APP NO.	METHOD
27215	104 N15 E20 29BCAA1	10456	QM	ROBERTS, FRED L.	SW	NW	29	15N	20E		2.55	2.55	0.41	AFA			E
27314	104 N15 E20 29BDDC1	9871	MUN	CARSON CITY, DOUGLAS COUNTY	SE	NW	29	15N	20E		432.84	0.00	122.94	AFA	UG	Footnote 1	R
27320	104 N15 E20 32BDBD1	9872	MUN	CARSON CITY	NW	NW	32	15N	20E		218.66	0.00	218.66	AFA	UG	Footnote 1 & 4	R
27373	104 N15 E20 01CBCD2	8830	IND	DENTON, DONALD F.	NW	SW	1	15N	20E		0.12	1.23	0.00	AFA	UG	29434	M
27476	104 N15 E19 35BCA1	9748	IRR	WADE, BERT A., WADE, MARGUERITE E.	NW	SW	35	15N	19E	1.06	2.12	2.12	1.55	AFA			N
27477	104 N15 E19 35BCD1	9749	IRR	DOUD, RICHARD M.	NW	SW	35	15N	19E	3.32	6.32	6.32	1.22	AFA			N
27666	104 N15 E20 07CACCI	9072	IRR	COWPERTHWAITTE, JOSEPHINE G., COWPERTHWAITTE, MELVIN T.	NE	SW	7	15N	20E	1.24	4.48	4.48	0.00	AFS			M
27822	104 N15 E20 29BCCB1	9209	COM	RUTLEDGE, RALPH A.	SW	NW	29	15N	20E		0.71	0.71	0.04	AFA			E
27857	104 N15 E20 05BDD1	9195	IRR	COTTONWOOD MOBILE HOME PARK INC.	NW	NW	5	15N	20E	5.50	11.00	11.00	10.93	AFA			M
29002	104 N15 E20 17DBBD1	9904	MUN	CARSON CITY	NW	SE	17	15N	20E		809.78	0.00	287.71	AFA	UG	Footnote 1	R
29434	104 N15 E20 01CBCD2	9695	IND	DENTON, DONALD F.	NW	SW	1	15N	20E		1.12	0.00	0.33	AFA	UG	27373	M
29464	104 N15 E20 28BAAD1	9875	QM	LINDSEY, SUSAN, LINDSEY, THOMAS J.	NE	NW	28	15N	20E		2.03	2.03	2.00	AFA			E
29802	104 N15 E20 31ADBA1	13660	QM	ALLEN, EMMA, DONALD REINERS TRUST, LEWIS, RALPH A. & LORRI A., WIDMAR, RAYMOND R.	SE	NE	31	15N	20E		1.29	1.29	0.76	AFA			M
29906	104 N15 E19 01DDDD1	9635	MUN	CARSON CITY	SE	SE	1	15N	19E		1219.39	0.00	9.32	AFA	UG	Footnote 1	R
29960	104 N16 E20 36DBCA1	9876	IND	PETRIE F. BROWN TRUST	NW	SE	36	16N	20E		0.15	0.16	0.14	AFA			M
30167	104 N15 E20 02DDBB1	9877	IND	DESERT ENTERPRISES	SE	SE	2	15N	20E		0.15	0.15	0.15	AFA			D
30299	104 N16 E20 36DBDA1	10611	COM	BROWN, JON MICHAEL	NW	SE	36	16N	20E		0.55	0.57	0.67	AFA			M
30441	104 N15 E19 01DDDD1	9878	MUN	CARSON CITY	SE	SE	1	15N	19E		1170.74	0.00	0.00	AFA	UG	Footnote 1	R
34088	104 N15 E20 06ABBB1	11291	COM	MATTHEUS, H. E.	NW	NE	6	15N	20E		0.25	0.26	0.41	AFA			M
34808	104 N16 E20 31CCBC1	19632	QM	EAGLE VALLEY CHILDREN'S HOME (DBA), NEVADA CHILDREN'S FOUNDATION, INC.		SW	31	16N	20E		21.48	21.48	2.14	AFA			M
34842	104 N15 E20 01CBCC1	11227	COM	ACME MOBILE CONCRETE	NW	SW	1	15N	20E		1.29	1.29	0.02	AFA			M
35219	104 N15 E20 32BBCA1	10143	COM	INVESTORS ENTERPRISE ASSOCIATION	NW	NW	32	15N	20E		0.06	0.06	0.06	AFA			D
35255	104 N16 E20 36DBDD1	11032	COM	REALPROP. LLC	NW	SE	36	16N	20E		1.12	1.12	1.17	AFA			M
35637	104 N15 E20 02DDBB2	9405	COM	ERWEN REVOCABLE TRUST U/A/D/ 4/5/2001	SE	SE	2	15N	20E		3.28	3.28	0.13	AFA			E
35826	104 N14 E20 06DBBA1	14651	COM	INTRNATNL. CHURCH OF 4 SQUARE CHURCH	NW	SE	6	14N	20E		0.80	0.80	1.34	AFA			M
36083	104 N15 E19 02AABD1	PER	MUN	CARSON CITY	NE	NE	2	15N	19E		49.22	0.00	0.00	AFA	UG	Footnote 1	R
39393	104 N15 E20 31CDCC1	14012	COM	SNELLING, HARRIE H.	SE	SW	31	15N	20E		1.04	1.23	0.00	AFA	UG	59843	M
40786	104 N15 E20 08CACB1	13923	QM	NORTH CARSON STREET, LLC	NE	SW	8	15N	20E		0.49	0.00	0.00	AFA	UG	25728	E
42725	104 N16 E20 36DBAA1	13870	COM	HARRY W AND EILEEN M FERGUSON	NW	SE	36	16N	20E		0.43	0.43	0.04	AFA			E
47704	104 N15 E20 02DDBD1	PER	MUN	CARSON CITY	SE	SE	2	15N	20E		177.37	0.00	49.02	AFA	UG	Footnote 1	R
48542	104 N15 E20 17AADB1	PER	MUN	CARSON CITY	NE	NE	17	15N	20E		1176.00	0.00	86.72	AFA	UG	Footnote 1 & 5	R
49953	104 N15 E20 06DBAD1	14842	IRR	GOLD LOCK CORPORATION	NW	SE	6	15N	20E	1.91	5.30	5.30	1.06	AFA			M
51278	104 N15 E20 31DDBB1	14288	QM	THE LEPIRE TRUST OF 1977	SE	SE	31	15N	20E		0.55	0.55	0.12	AFA			M
52584	104 N15 E20 20BDDA1	PER	ENV	MALLORY, INC.	SE	NW	20	15N	20E		32.29	32.29	0.00	AFA			R
53822	104 N14 E20 06CBAB1	PER	QM	SIERRA ESTATES G.I.D.	NW	SW	6	14N	20E		78.41	0.00	42.11	AFA	UG	19044, 20935	R
54110	104 N15 E20 20ACCB1	PER	ENV	MALLORY, INC.	SW	NE	20	15N	20E		9.39	9.39	0.00	AFA			R
54111	104 N15 E20 20ACBC1	PER	ENV	MALLORY, INC.	SW	NE	20	15N	20E		9.39	9.39	0.00	AFA			R
54112	104 N15 E20 20ACBA1	PER	ENV	MALLORY, INC.	SW	NE	20	15N	20E		9.39	9.39	0.00	AFA			R
54113	104 N15 E20 20ACBB1	PER	ENV	MALLORY, INC.	SW	NE	20	15N	20E		9.39	9.39	0.00	AFA			R
54114	104 N15 E20 20ACBA2	PER	ENV	MALLORY, INC.	SW	NE	20	15N	20E		9.39	9.39	0.00	AFA			R

APP NO.	SITE NAME	STATUS	MOU	OWNER OF RECORD	QQ	QTR	SEC	T	R	PER ACRES	DUTY (AF)	SUPP ADJ	DUTY USED	UNIT	SUPP SRC	SUPP GW APP NO.	METHOD
54115	104 N15 E20 20ACBA3	PER	ENV	MALLORY, INC.	SW	NE	20	15N	20E		9.39	9.39	0.00	AFA			R
54116	104 N15 E20 20ACAB1	PER	ENV	MALLORY, INC.	SW	NE	20	15N	20E		9.39	9.39	0.00	AFA			R
54117	104 N15 E20 20ABCA1	PER	ENV	MALLORY, INC.	NE	NE	20	15N	20E		9.39	9.39	0.00	AFA			R
54118	104 N15 E20 20ABDB1	PER	ENV	MALLORY, INC.	NW	NE	20	15N	20E		9.39	9.39	0.00	AFA			R
54119	104 N15 E20 20ABDB2	PER	ENV	MALLORY, INC.	NW	NE	20	15N	20E		9.39	9.39	0.00	AFA			R
54120	104 N15 E20 20ABDA1	PER	ENV	MALLORY, INC.	NW	NE	20	15N	20E		9.39	9.39	0.00	AFA			R
57186E	104 N15 E20 17BCAA1	PER	ENV	TEXACO REFINING & MARKETING INC.	SW	NW	17	15N	20E		16.14	16.14	0.00	AFA			E
57187E	104 N15 E20 20BBDD1	PER	ENV	TEXACO REFINING & MARKETING INC.	NW	NW	20	15N	20E		16.14	16.14	0.00	AFA			E
57407E	104 N15 E20 17CCAC1	PER	ENV	ARCO PRODUCTS COMPANY	SW	SW	17	15N	20E		65.15	65.15	0.00	AFA			R
57898E	104 N15 E20 16CBCD1	PER	ENV	PDQ FOOD STORES OF NEVADA INC.	NW	SW	16	15N	20E		16.14	32.28	0.00	AFA	UG	58128E	E
58128E	104 N15 E20 16CCBA1	PER	ENV	PDQ FOOD STORES OF NEVADA INC.	SW	SW	16	15N	20E		16.14	0.00	0.00	AFA	UG	57898E	E
58737	104 N15 E20 32ABBD1	14423	IRR	LIPPINCOTT FARMS, LIPPINCOTT, CLYDE R., LIPPINCOTT, I	NW	NE	32	15N	20E	0.25	1.00	1.00	0.85	AFA			M
59226	104 N15 E20 29ABDD1	PER	MUN	CARSON CITY	NW	NE	29	15N	20E		401.08	0.00	90.74	AFA	UG	Footnote 1 & 8	R
59599E	104 N15 E20 17DBBA1	PER	ENV	CARSON CITY HEALTH DEPARTMENT	NW	SE	17	15N	20E		9.70	9.70	0.00	AFA			R
59600E	104 N15 E20 17DBBA2	PER	ENV	CARSON CITY HEALTH DEPARTMENT	NW	SE	17	15N	20E		9.70	9.70	0.00	AFA			R
59827	104 N15 E20 29ABDD1	19474	MUN	CARSON CITY	NW	NE	29	15N	20E		5.60	0.00	0.00	AFA	UG	Footnote 1 & 8	R
59843	104 N15 E20 31DCDC1	16057	COM	SNELLING, HARRIE H.	SE	SW	31	15N	20E		0.18	0.00	0.00	AFA	UG	39393	M
60122E	104 N15 E20 09DADD1	PER	ENV	SOUTHLAND CORPORATION			9	15N	20E		13.03	13.03	0.00	AFA			E
60831	104 N15 E20 07BADC1	PER	MUN	CARSON CITY WATER UTILITY	NE	NW	7	15N	20E		163.62	0.00	126.60	AFA	UG	Footnote 1	R
60832	104 N15 E20 07BADC1	PER	MUN	CARSON CITY WATER UTILITY	NE	NW	7	15N	20E		1.95	0.00	0.00	AFA	UG	Footnote 1	R
60833	104 N15 E20 07BADC1	PER	MUN	CARSON CITY WATER UTILITY	NE	NW	7	15N	20E		40.30	0.00	0.00	AFA	UG	Footnote 1	R
60834	104 N15 E20 07BADC1	PER	MUN	CARSON CITY WATER UTILITY	NE	NW	7	15N	20E		723.90	0.00	0.00	AFA	UG	Footnote 1	R
61487	104 N15 E19 12DADD1	PER	MUN	CARSON CITY	NE	SE	12	15N	19E		81.60	0.00	0.00	AFA	UG	Footnote 1	R
61505	104 N15 E19 12DADD1	PER	MUN	CARSON CITY	NE	SE	12	15N	19E		344.00	0.00	0.00	AFA	UG	Footnote 1	R
61506	104 N15 E19 12ADAD1	PER	MUN	CARSON CITY	SE	NE	12	15N	19E		800.00	0.00	0.00	AFA	UG	Footnote 1	R
61507	104 N15 E19 01DDDD1	PER	MUN	CARSON CITY	SE	SE	1	15N	19E		800.00	0.00	0.00	AFA	UG	Footnote 1	R
61508	104 N15 E20 07BADC1	PER	MUN	CARSON CITY WATER UTILITY	NE	NW	7	15N	20E		800.00	0.00	0.00	AFA	UG	Footnote 1	R
62402	104 N14 E19 06CB 1	PER	QM	U.S.-FOREST SERVICE	NW	SW	6	14N	19E		1.23	1.23	0.00	AFA			M
63262E	104 N15 E20 17CBBA1	PER	ENV	WELLS FARGO BANK	SW	NW	17	15N	20E		16.14	16.14	0.00	AFA			R
63499E	104 N15 E20 20BDDA2	PER	ENV	MALLORY, INC.	SE	NW	20	15N	20E		16.10	16.10	0.00	AFA			R
64042	104 N14 E20 06DBAD1	19346	QM	SHEPHERD OF THE SIERRA, LUTHERAN CHURCH	NW	SE	6	14N	20E		0.73	0.73	0.64	AFA			M
66708	104 N15 E20 18BBCC1	PER	MUN	CARSON CITY	NW	NW	18	15N	20E		235.90	0.00	207.34	AFA	UG	Footnote 1	R
66709	104 N15 E20 18BBCC1	19475	MUN	CARSON CITY	NW	NW	18	15N	20E		50.66	0.00	0.00	AFA	UG	Footnote 1	R
68758	104 N15 E20 17CDCA1	19470	MUN	CONSOLIDATED MUNICIPALITY OF CARSON	SE	SW	17	15N	20E		2.07	0.00	2.07	AFA	UG	Footnote 1 & 3	R
68759	104 N15 E20 17CDCA1	19471	MUN	CONSOLIDATED MUNICIPALITY OF CARSON	SE	SW	17	15N	20E		61.00	61.00	2.07	AFA	UG	Footnote 3	R
69344	104 N15 E20 17CDCA1	19472	MUN	CONSOLIDATED MUNICIPALITY OF CARSON	SE	SW	17	15N	20E		181.00	0.00	0.00	AFA	UG	Footnote 1 & 3	R
69346	104 N15 E20 17CDCA1	19473	MUN	CONSOLIDATED MUNICIPALITY OF CARSON	SE	SW	17	15N	20E		5.12	0.00	0.00	AFA	UG	Footnote 1 & 3	R
70521	104 N15 E20 31DCDB1	19476	MUN	CARSON CITY	SW	SE	31	15N	20E		15.93	0.00	15.93	AFA	UG	Footnote 1	R
70522	104 N15 E20 31DCDB1	PER	MUN	CARSON CITY	SW	SE	31	15N	20E		94.00	0.00	39.61	AFA	UG	Footnote 1	R
70662	104 N15 E20 18ADBB1	PER	MUN	CARSON CITY	SE	NE	18	15N	20E		456.00	0.00	0.00	AFA	UG	Footnote 1	R
71674	104 N14 E20 06ABCD1	PER	QM	DOUGLAS COUNTY	NW	NE	6	14N	20E		12.28	46.24	8.26	AFA	UG	Footnote 2	R

APP NO.	SITE NAME	STATUS	MOU	OWNER OF RECORD	QQ	QTR	SEC	T	R	PER ACRES	DUTY (AF)	SUPP ADJ	DUTY USED	UNIT	SUPP SRC	SUPP GW APP NO.	METHOD
71675	104 N14 E20 06ABCD1	19499	QM	DOUGLAS COUNTY	NW	NE	6	14N	20E		1.00	0.00	0.00	AFA	UG	Footnote 2	R
71676	104 N14 E20 06ABCD1	19500	QM	DOUGLAS COUNTY	NW	NE	6	14N	20E		30.69	0.00	0.00	AFA	UG	Footnote 2	R
71678	104 N15 E19 07CBBB1	19477	MUN	CARSON CITY	NW	SW	7	15N	20E		292.60	0.00	292.60	AFA	UG	Footnote 1 & 6	R
71749	104 N15 E19 12AADA1	19478	MUN	CARSON CITY	NE	NE	12	15N	19E		292.60	0.00	292.60	AFA	UG	Footnote 1 & 7	R
72189E	104 N15 E20 20BBDB1	PER	ENV	AHMAD, MOHAMMAD	NW	NW	20	15N	20E		21.72	21.72	0.00	AFA			R
76627	104 N15 E20 32CBCC1	19339	IRR	SINNOTT, DAWN E., LISA C., MARY J., PETER D. ROBERT C., WILLIAM O.	NW	SW	32	15N	20E	0.75	3.00	3.00	0.86	AFA			M
77062	104 N16 E20 28CCBD1	19357	COM	GOLDEN SIERRA INVESTMENTS L.L.C.	SW	SW	28	16N	20E		2.00	3.00	2.00	AFA		81078	M
77522	104 N15 E20 29DBAD1	PER	QM	KINSLEY, JOHN M. AND TAMMY J.	NW	SE	29	15N	20E		1.00	1.00	0.08	AFA	UG		M
77667	104 N15 E20 32BBDB1	PER	MUN	CARSON CITY	NW	NW	32	15N	20E		5.37	0.00	25.59	AFA	UG	Footnote 1 & 4	R
77668	104 N15 E20 32BBDB1	PER	MUN	CARSON CITY	NW	NW	32	15N	20E		8.59	0.00	0.00	AFA	UG	Footnote 1 & 4	R
77669	104 N15 E19 07CBBB1	PER	MUN	CARSON CITY	NW	SW	7	15N	20E		34.00	0.00	34.00	AFA	UG	Footnote 1 & 6	R
77993	104 N14 E20 06ABCD1	PER	QM	DOUGLAS COUNTY	NW	NE	6	14N	20E		2.27	0.00	0.00	AFA	UG	Footnote 2	R
78070	104 N15 E20 32DCBB1	PER	QM	NEVADA-STATE LANDS DIVISION	SW	SE	32	15N	20E		46.68	46.68	31.23	AFA			M
78371	104 N15 E20 32BBDB1	PER	QM	CARSON CITY	NW	NW	32	15N	20E		13.78	0.00	0.00	AFA		Footnote 1 & 4	R
78830	104 N15 E20 05BABD1	PER	QM	HUNT, TIM A AND JANETTE	NE	NW	5	15N	20E		2.00	2.00	1.97	AFA			M
78948	104 N14 E20 06ABCD1	PER	MUN	DOUGLAS COUNTY	NW	NE	6	14N	20E		32.50	32.50	0.00	AFA	UG	Footnote 2	R
79653	104 N15 E19 07CBBB1	PER	MUN	CARSON CITY	NW	SW	7	15N	20E		34.00	0.00	34.00	AFA	UG	Footnote 1 & 6	R
79717	104 N15 E19 07CBBB1	PER	MUN	CARSON CITY	NW	SW	7	15N	20E		34.00	0.00	34.00	AFA	UG	Footnote 1 & 6	R
80166	104 N15 E20 32BBDB1	PER	MUN	CARSON CITY	NW	NW	32	15N	20E		11.29	0.00	0.00	AFA	UG	Footnote 1	R
80677	104 N15 E20 17CDCA1	PER	MUN	CONSOLIDATED MUNICIPALITY OF CARSON	SE	SW	17	15N	20E		723.97	0.00	0.00	AFA	UG	Footnote 1 & 3	R
81078	104 N16 E20 28CCBD1	PER	COM	GOLDEN SIERRA INVESTMENTS L.L.C.	SW	SW	28	16N	20E		1.00	0.00	0.44	AFA	UG	77062	M
81106	104 N15 E20 32BBDB1	PER	MUN	CARSON CITY	NW	NW	32	15N	20E		13.37	0.00	0.00	AFA	UG	Footnote 1	R
81107	104 N15 E20 32BBDB1	PER	MUN	CARSON CITY	NW	NW	32	15N	20E		13.37	0.00	0.00	AFA	UG	Footnote 1	R
81933	104 N15 E19 12AADA1	PER	MUN	CARSON CITY	NE	NE	12	15N	19E		354.74	0.00	138.95	AFA	UG	Footnote 1 & 7	R
82833	104 N15 E20 28CDAC1	PER	QM	FERREL, GEORGIA L., FERREL, JR., CHARLES I.	SE	SW	28	15N	20E		0.43	0.43	2.37	AFA	UG		M
83670	104 N15 E19 07CBBB1	PER	MUN	CARSON CITY	NW	SW	7	15N	20E		320.00	0.00	296.95	AFA	UG	Footnote 1	R
83671	104 N15 E19 07CBBB1	PER	MUN	CARSON CITY	NW	SW	7	15N	20E		136.84	0.00	0.00	AFA	UG	Footnote 1 & 6	R
83811	104 N15 E20 17AADB1	PER	IRR	CARSON CITY	NE	NE	17	15N	20E		32.50	32.50	0.00	AFA	UG	Footnote 5	R
85714E	104 N15 E20 08BCDB1	PER	ENV	MCGINLEY & ASSOCIATES, INC.	SW	NW	8	15N	20E		32.22	32.22	0.04	AFA			R

**Footnotes**

1. Comingled rights in Carson City Municipal System: 23672, 23673, 24986, 25667, 26581, 26582, 27314, 27320, 29002, 29906, 30441, 36083, 47704, 48542, 59226, 59827, 60831, 60832, 60833, 60834, 61487, 61505, 61506, 61507, 61508, 66708, 66709, 68758, 69344, 69346, 70521, 70522, 70662, 71678, 71749, 77667, 77668, 77669, 78371, 79653, 79717, 80166, 80677, 81106, 81107, 81933, 83670, and 83671 have a total combined duty of 6,716.3 AFA
2. Total combined duty for Douglas County rights within the Wal-Mart Well is 78.735 AFA for permits 71674, 71675, 71676, 77993, and 78948.
3. Total combined duty for Carson City Well #49 is 973.16 AFA for 68758, 68759, 69344, 69346, and 80677. These permits, except 68759, are included in Carson City's main total combined duty.
4. Total combined duty for Carson City Well #9 is 271.06 AFA for 27320, 77667, 77668, 78371, 80166, and 81107. Each of these permits are included in Carson City's main total combined duty.
5. Total combined duty for Carson City Well #34 is 1208.50 AFA for 48542 and 83811. Permit 83811 is not included in Carson City's main total combined duty for municipal supply.
6. Total combined duty for Carson City Well #51 is 851.44 AFA for 71678, 77669, 79653, 79717, 83670, and 83671. These permits are included in Carson City's main total combined duty for municipal supply.
7. Total combined duty for Carson City Well #55 is 647.34 AFA for 71749 and 81933. These permits are included in Carson City's main total combined duty for municipal supply.
8. Total combined duty for Carson City Well #45 is 406.68 AFA for 59226 and 59827. These permits are included in Carson City's main total combined duty for municipal supply.

**APPENDIX B. EAGLE VALLEY HISTORICAL PUMPAGE BY POINT OF  
DIVERSION.**

SITE NAME	PERMIT	MOU	OWNER OF RECORD	DUTY (AF) 2016	DUTY USED 2012	DUTY USED 2013	DUTY USED 2014	DUTY USED 2015	DUTY USED 2016
104 N14 E19 06CB 1	62402	QM	U.S.-FOREST SERVICE	1.23	0	0.1	0.001	0	0
104 N14 E20 06ABCD1	71674, 71675, 71676, 77993, 78948	QM	DOUGLAS COUNTY	78.74	37.23	19.59	10.32	12.02	8.26
104 N14 E20 06CBAB1	53822	QM	SIERRA ESTATES G.I.D.	78.41	49.09	47.99	43.47	42.25	42.11
104 N14 E20 06CBBA1	19044, 20935	QM	SIERRA ESTATES G.I.D.	33.88	0	0	0	0	0
104 N14 E20 06CBBA2	20935	QM	SIERRA ESTATES G.I.D.	33.88	0	0	0	0	0
104 N14 E20 06DBAD1	64042	QM	SHEPHERD OF THE SIERRA, LUTHERAN CHURCH	0.73	0.73	1.1	1.14	0.76	0.64
104 N14 E20 06DBBA1	35826	COM	INTRNATNL. CHURCH OF 4 SQUARE CHURCH	0.8	1.41	1.29	1.59	1.48	1.34
104 N15 E19 01DDDD1	29906, 30441, 61507	MUN	CARSON CITY	3190.13	77.97	303.8	33.28	113.05	9.32
104 N15 E19 02AABD1	36083	MUN	CARSON CITY	49.22	0	0	0	0.00	0
104 N15 E19 07CBBB1	71678, 77669, 79653, 79717, 83670, 83671	MUN	CARSON CITY	851.44	619.09	578.08	652.05	638.79	691.55
104 N15 E19 12AADA1	71749, 81933	MUN	CARSON CITY	647.34	489.85	501.33	413.24	423.95	431.55
104 N15 E19 12ADAD1	26582, 61506	MUN	CARSON CITY	1978.15	472.21	548.27	467.13	368.64	425.17
104 N15 E19 12DADD1	23672, 23673, 61487, 61505	MUN	CARSON CITY	1814.57	262.23	247.55	69.98	161.79	175.26
104 N15 E19 33DDBD1	23727	QM	NEVADA-STATE LANDS DIVISION	3.99	0	0.32	0.46	0.11	0.46
104 N15 E19 34CCAC1	23728	QM	NEVADA-STATE LANDS DIVISION	3.99	0	0	0	0.00	0
104 N15 E19 35CBCA1	27476	IRR	WADE, BERT A., WADE, MARGUERITE E.	2.12	2.12	2.12	1.31	1.36	1.55
104 N15 E19 35CBCD1	27477	IRR	DOUD, RICHARD M.	6.32	2	2	1	1.22	1.22
104 N15 E20 01BCA1	27063	COM	WESTERN INSPIRATIONAL BROADCASTERS	0.21	1.51	1.81	0.26	0.40	0.36
104 N15 E20 01BCC1	34842	COM	ACME MOBILE CONCRETE	1.29	0.26	0.26	0.03	0.03	0.02
104 N15 E20 01BCBD2	27373, 29434	IND	DENTON, DONALD F.	1.23	1.02	1.02	1.05	0.46	0.33
104 N15 E20 01CBDC1	26822	IRR	RIDL, LTD	9.27	0.71	1.32	0.69	0.92	0.95
104 N15 E20 02CDAD1	26985	COM	HARRINGTON, J. P.	0.18	0	0	0	0.00	0
104 N15 E20 02DCAB1	27076	COM	MELLOW, JERRY A., SIMONS, DONN N.	1.01	0.34	0.4	0.24	0.26	0.05
104 N15 E20 02DDBB1	30167	IND	DESERT ENTERPRISES	0.153	0.15	0.15	0.15	0.15	0.15
104 N15 E20 02DDBB2	35637	COM	ERWEN REVOCABLE TRUST U/A/D/ 4/5/2001	3.28	1	1	0.35	0.27	0.13
104 N15 E20 02DDBD1	47704	MUN	CARSON CITY	177.37	80.39	62.28	57.4	63.52	49.02
104 N15 E20 05BABD1	78830	QM	HUNT, TIM A AND JANETTE	2	1.82	1.88	1.75	1.39	1.97
104 N15 E20 05BADB1	17899	IRR	LIPPINCOTT, CLYDE R., ET. AL.	4	2	4	1.29	1.29	1.29
104 N15 E20 05BBDD1	27857	IRR	COTTONWOOD MOBILE HOME PARK INC.	11	18.91	16.7	10.86	9.09	10.93
104 N15 E20 05BDBC1	24463	QM	FISCHER, ALBERT J.	26.79	12.68	13.19	31.11	26.39	27.33
104 N15 E20 05BDCC1	24462	QM	FISCHER, ALBERT J.	26.79	9.3	9.11	2.74	1.54	0.51
104 N15 E20 06ABBB1	34088	COM	MATTHEUS, H. E.	0.25	0.16	0.25	0.35	0.35	0.41
104 N15 E20 06DAAC1	26581	MUN	CARSON CITY	407.24	165.58	191.21	122.69	143.98	0
104 N15 E20 06DBAD1	49953	IRR	GOLD LOCK CORPORATION	5.3	2.02	2.02	1.16	1.16	1.06
104 N15 E20 06DDAD1	27095	COM	EUSE, CHERYL RUPP MANN & VINCENT L., SILVER HILS VETERINARY HOSPITAL	1.1	0.43	0.2	0.19	0.11	0.14
104 N15 E20 07ADCB1	8961	IRR	CONSOLIDATED CONSTRUCTION CORP., ET. AL.	39	0.4	0	0	0.00	0
104 N15 E20 07BADC1	60831, 60832, 60833, 60834, 61508	MUN	CARSON CITY WATER UTILITY	1729.77	0	155.34	451.91	301.54	126.6
104 N15 E20 07CAC1	27666	IRR	COWPERTHWAITTE, JOSEPHINE G., COWPERTHWAITTE, MELVIN T.	4.48	0.1	0.16	0.21	0.04	0
104 N15 E20 07CDBA1	15880	IRR	JOOST LAND AND CATTLE COMPANY, INC.	48.38	0.01	0.01	0	0.00	0
104 N15 E20 07CDDB1	V02785	STK	NEWMAN CONSTRUCTION LTD.	1.87	0	0	0	0.00	0
104 N15 E20 07DCAB1	V02449	STK	ANDERSON, D.A.	2.79	0	0	0	0.00	0

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104 N15 E20 07DDBB1	25667	MUN	CARSON CITY	470.22	248.39	286.91	114.22	112.40	181.78
104 N15 E20 08CACB1	25728, 40786	QM	NORTH CARSON STREET, LLC	73.45	0	0	0	0.00	0
104 N15 E20 08CACB1	40786	QM	NORTH CARSON STREET, LLC	0.49	0	0	0		
104 N15 E20 09DADD1	60122E	ENV	SOUTHLAND CORPORATION	13.03	0	0	0	0.00	0
104 N15 E20 10BDDC1	V09127	COM	HONE, DOUGLAS K., SCHAFFNER RANCH	0	0	0	0	0.00	0
104 N15 E20 11BBAD1	21258	COM	FULLER, WILLIAM S.	9.57	2	9.57	1	2.00	2
104 N15 E20 11BBCA1	26453	IND	PEDERSON, BJARNE A.	0.4	0.83	0.72	0.8	0.80	0.66
104 N15 E20 16CACAI	V03704	STK	LOMPA, EVA	2.24	1	1	1	1.00	1
104 N15 E20 16CBCD1	57898E	ENV	PDQ FOOD STORES OF NEVADA INC.	16.14	0	0	0	0.00	0
104 N15 E20 16CCBA1	58128E	ENV	PDQ FOOD STORES OF NEVADA INC.	16.14	0	0	0	0.00	0
104 N15 E20 16DCAB1	27012	COM	WELLS, LEON D., WELLS RUTH A.	0.38	0	0	0	0.00	0
104 N15 E20 17AADB1	48542, 83811	MUN IRR	CARSON CITY	1208.5	165.99	263.15	86.17	67.56	86.72
104 N15 E20 17BCAA1	57186E	ENV	TEXACO REFINING & MARKETING INC.	16.142	0	0	0	0.00	0
104 N15 E20 17CBBA1	63262E	ENV	WELLS FARGO BANK	16.14	0	0	0	0.00	0
104 N15 E20 17CCAC1	57407E	ENV	ARCO PRODUCTS COMPANY	65.153	0	0	0	0.00	0
104 N15 E20 17CDCA1	68758, 68759, 69344, 69346, 80677	MUN	CONSOLIDATED MUNICIPALITY OF CARSON	973.16	101.42	32.35	0	50.37	4.14
104 N15 E20 17DBBA1	59599E	ENV	CARSON CITY HEALTH DEPARTMENT	9.7	0	0	0	0.00	0
104 N15 E20 17DBBA2	59600E	ENV	CARSON CITY HEALTH DEPARTMENT	9.7	0	0	0	0.00	0
104 N15 E20 17DBBD1	29002	MUN	CARSON CITY	809.78	435.81	443.59	432.38	415.22	287.71
104 N15 E20 17DBDD1	26297	QM	WESTERN SUN, LLC	4.57	7.03	5.81	5.44	4.13	5.3
104 N15 E20 17DDDA1	24986	MUN	CARSON CITY	806.51	0	0	0	0.00	0
104 N15 E20 18ABDD1	V02518	IRR	ALLEN, ROBERT A., CHESNEY, JANE & SAMUEL	5.2	0	0	0	0.00	0
104 N15 E20 18ADBB1	70662	MUN	CARSON CITY	456	63.33	61.89	42.74	0.00	0
104 N15 E20 18ADBD1	V02780	IRR	CARRINGTON, EDME H. & PAUL W.	2	1.2	1.2	1.16	1.20	1.2
104 N15 E20 18BBCC1	66708, 66709	MUN	CARSON CITY	286.56	169.21	145.48	176.73	246.78	207.34
104 N15 E20 18CAAA1	12994	IRR	TURMAN, ELIZABETH W. CROZER	216.8	0	0	0	0.00	0
104 N15 E20 18DBDB1	12995	IRR	TURMAN, ELIZABETH W. CROZER	216.8	0	0	0	0.00	0
104 N15 E20 20ABCA1	54117	ENV	MALLORY, INC.	9.391	0	0	0	0.00	0
104 N15 E20 20ABDA1	54120	ENV	MALLORY, INC.	9.391	0	0	0	0.00	0
104 N15 E20 20ABDB1	54118	ENV	MALLORY, INC.	9.391	0	0	0	0.00	0
104 N15 E20 20ABDB2	54119	ENV	MALLORY, INC.	9.391	0	0	0	0.00	0
104 N15 E20 20ACAB1	54116	ENV	MALLORY, INC.	9.391	0	0	0	0.00	0
104 N15 E20 20ACBA1	54112	ENV	MALLORY, INC.	9.391	0	0	0	0.00	0
104 N15 E20 20ACBA2	54114	ENV	MALLORY, INC.	9.391	0	0	0	0.00	0
104 N15 E20 20ACBA3	54115	ENV	MALLORY, INC.	9.391	0	0	0	0.00	0
104 N15 E20 20ACBB1	54113	ENV	MALLORY, INC.	9.391	0	0	0	0.00	0
104 N15 E20 20ACBC1	54111	ENV	MALLORY, INC.	9.391	0	0	0	0.00	0
104 N15 E20 20ACCB1	54110	ENV	MALLORY, INC.	9.391	0	0	0	0.00	0
104 N15 E20 20BBDB1	72189E	ENV	AHMAD, MOHAMMAD	21.72	0	0	0	0.00	0
104 N15 E20 20BBDD1	57187E	ENV	TEXACO REFINING & MARKETING INC.	16.142	0	0	0	0.00	0
104 N15 E20 20BDDA1	52584	ENV	MALLORY, INC.	32.285	0	0	0	1.39	0

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104 N15 E20 20BDDA2	63499E	ENV	MALLORY, INC.	16.1	2.35	1.82	1.7	0.00	0
104 N15 E20 20CCAA1	17881	OTH	MILITARY DEPARTMENT-NEVADA	2.24	0	0	0	0.00	0
104 N15 E20 28BAAD1	29464	QM	LINDSEY, SUSAN, LINDSEY, THOMAS J.	2.03	1	1	1	2.00	2
104 N15 E20 28CDAC1	82833	QM	FERREL, GEORGIA L., FERREL, JR., CHARLES I.	0.43		0	2.31	1.85	2.37
104 N15 E20 29ABDD1	59226, 59827	MUN	CARSON CITY	406.68	250.04	305.26	80.39	119.64	90.74
104 N15 E20 29BCAA1	27215	QM	ROBERTS, FRED L.	2.55	2.86	0.41	0.41	0.41	0.41
104 N15 E20 29BCBD1	20702	COM	NEWMAN, PATRICIA M., NEWMAN, ROY	5.37	5.37	5.37	5.3	5.30	5.3
104 N15 E20 29BCCA1	15313	COM	MARTIN, MARYBELLE M., MARTIN WILLIAM J.	4.36	1.04	1.04	1.04	1.00	1
104 N15 E20 29BCCB1	27822	COM	RUTLEDGE, RALPH A.	0.71	0	1	0.71	0.03	0.04
104 N15 E20 29BDDC1	27314	MUN	CARSON CITY, DOUGLAS COUNTY	432.84	160.52	245.47	133.05	162.62	122.94
104 N15 E20 29CBBC1	26821	COM	POZZI MOTOR COMPANY, POZZI, ARCHIE, JR.	0.43	0.2	0.23	0.27	0.20	0.14
104 N15 E20 29CBB1	26886	COM	MEHELLE R. HITCHCOCK 2000 FAMILY TRUST AGREEMENT	0.86	0.18	0.57	0.79	0.82	0.84
104 N15 E20 29DBAD1	77522	QM	KINSLEY, JOHN M. AND TAMMY J.	1	0.16	0.23	0.03	0.12	0.08
104 N15 E20 31ADBA1	29802	QM	ALLEN, EMMA, DONALD REINERS TRUST, LEWIS, RALPH A. & LORRI A., WIDMAR, RAYMOND R.	1.289	0.84	1.01	1.18	1.04	0.76
104 N15 E20 31BDDD1	27164	COM	PECORILLA, ANGELO	1.1	0.06	0.25	0.19	1.51	1.76
104 N15 E20 31CDCC1	39393, 59843	COM	SNELLING, HARRIE H.	1.23	0	1.04	0	0.00	0
104 N15 E20 31CDCC1	59843	COM	SNELLING, HARRIE H.	0.18	0	0	0		
104 N15 E20 31DCDB1	70521, 70522	MUN	CARSON CITY	109.93	0	0.89	0.22	7.20	55.54
	68759	MUN	NEVADA DEPT OF GENERAL SERV		0	0	0		
104 N15 E20 31DDBB1	51278	QM	THE LEPIRE TRUST OF 1977	0.55	2.47	0.22	0.38	0.09	0.12
104 N15 E20 31DDDB1	26945	COM	FIXMER, E. J., PRIESTLEY, K.D.	0.64	0.6	0.6	0.3	0.30	0.3
104 N15 E20 32ABBD1	58737	IRR	LIPPINCOTT FARMS, LIPPINCOTT, CLYDE R., LIPPINCOTT, LINDA D.	1	0.47	0.71	0.79	0.99	0.85
104 N15 E20 32BBCA1	35219	COM	INVESTORS ENTERPRISE ASSOCIATION	0.06	0.06	0.06	0.06	0.06	0.06
104 N15 E20 32BBDB1	27320, 77667, 77668, 78731, 80166, 81106, 81107	MUN	CARSON CITY	271.06	272.44	195.52	164.19	85.92	244.25
104 N15 E20 32CBCC1	76627	IRR	SINNOTT, DAWN E., LISA C., MARY J., PETER D. ROBERT C., WILLIAM O.	3	3.72	1.2	1.23	1.04	0.86
104 N15 E20 32DCBB1	78070	QM	NEVADA-STATE LANDS DIVISION	46.68	31.35	50.95	66.66	39.13	31.23
104 N16 E20 28CCBD1	77062, 81078	COM	GOLDEN SIERRA INVESTMENTS L.L.C.	3	2.08	2.4	6.56	3.83	2.44
104 N16 E20 31CCBC1	34808	QM	EAGLE VALLEY CHILDREN'S HOME (DBA), NEVADA CHILDREN'S FOUNDATION, INC.	21.48	4.2	3.05	4.29	4.02	2.14
104 N16 E20 36DBAA1	42725	COM	HARRY W AND EILEEN M FERGUSON	0.43	0.11	0	0.02	0.05	0.04
104 N16 E20 36DBCA1	29960	IND	PETRIE F. BROWN TRUST	0.15	0.18	0.3	0.21	0.19	0.14
104 N16 E20 36DBDA1	30299	COM	BROWN, JON MICHAEL	0.55	0.75	0.63	0.71	0.77	0.67
104 N16 E20 36DBDD1	35255	COM	REALPROP. LLC	1.12	0.66	0.22	0.2	1.80	1.17
104 N16 E20 36DCCD1	25987	COM	PARKER, BENJAMIN LANCASTER	10.37	4.56	6.77	4.21	5.23	3.24