

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

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PLEASANT VALLEY
HYDROGRAPHIC BASIN 6-088

GROUNDWATER PUMPAGE INVENTORY

WATER YEAR 2012

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ABSTRACT

This inventory represents the status and use of permitted, certificated and claims of vested right (vested claims) groundwater rights within Pleasant Valley, Hydrographic Basin 6-088, for the time period from October 1, 2011 through September 30, 2012 (herein referred to as water year 2012). Also included for summary purposes are graphs and data associated with this use, and yearly totals of historical groundwater by manner of use.

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 2012, the permitted, certificated, and vested claims of groundwater rights totaled 6,143 acre-feet, not including permitted geothermal rights, which totaled 7,964 acre-feet. The estimated pumpage of **3,377 acre-feet** includes approximately 748 acre-feet pumped from exempt domestic wells.

Municipal/quasi-municipal was the largest manner of use within the basin. For water year 2012, appropriations for municipal/quasi-municipal totaled 4,946 acre-feet, with pumpage of approximately 2,370 acre-feet. The second largest manner of use was irrigation, with groundwater rights totaling 764 acre-feet and pumpage of approximately 171 acre-feet.

HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER				088, REGION 6	
HYDROGRAPHIC BASIN NAME				PLEASANT VALLEY	
COUNTIES				WASHOE	
MAJOR COMMUNITIES				MT. ROSE, PLEASANT VALLEY, STEAMBOAT	
DESIGNATED				YES	
DENIALS BASED UPON WATER AVAILABILITY				ALL USES	
GROUNDWATER LEVEL MEASUREMENTS				NDWR & USGS	
PUMPAGE INVENTORY, ACRE-FEET IN 2012				3,377 ¹	
STATE ENGINEER’S ORDERS					
NO. 709 – DESIGNATION				DATE: MARCH 1, 1978	
NO. 1155 – DOMESTIC WELL CREDIT				DATE: SEPTEMBER 23, 1999	
COMMITTED GROUNDWATER RESOURCE: 6,143 ACRE-FEET				DATE: SEPTEMBER 31, 2012	
COMMERCIAL	349	DOMESTIC	3	ENVIRONMENTAL	0
INDUSTRIAL	0	IRRIGATION	764	MINING & MILLING	0
MUNICIPAL	1,023	QUASI-MUNICIPAL	3,923	RECREATION	0
STOCKWATER	3	WILDLIFE	0	GEOHERMAL	7,964
OTHER	78				

NOTE: Committed groundwater resource data are accurate for September 2012. Manner of use category totals vary over time, as rights are not necessarily static. Rights may be subject to change applications, certification, withdrawals, forfeiture and cancellations; each of these circumstances could impact the duty, diversion rate and acreage associated with a given right. The value associated with each manner of use category does not include those portions that have been relinquished in support of domestic wells.

¹ Includes pumpage by exempt domestic wells, as defined by NRS 534.013. The domestic use estimate is based upon a count of the domestic wells in the basin multiplied by one acre-foot per annum. In 2012, approximately 748 domestic wells were active in the basin, based on a query of the Nevada Division of Water Resources Well Log Database.

PURPOSE AND SCOPE

The purpose of this report is to inventory all of the groundwater resources allocated and described by the Office of the State Engineer, Nevada Division of Water Resources (NDWR), and to estimate the amount of groundwater pumped within the Pleasant Valley Hydrographic Basin (6-088), for the Water Year beginning October 1, 2011 and ending September 31, 2012. This report estimates the amount of groundwater pumped under the permits and certificates issued by the State Engineer, and the vested claims to groundwater, as well as the amount pumped by exempt domestic wells within the basin.

DESCRIPTION OF THE STUDY AREA

Pleasant Valley is located in west central Nevada, occupying approximately 39 square miles within Washoe County. The adjacent hydrographic basins are Truckee Meadows area (6-087) to the north and east, Truckee Canyon Segment (6-091) to the west and Washoe Valley (6-089) to the south (Figure 1). The boundary of the Pleasant Valley Hydrographic Basin is as described by Designation Order 709 issued by the Nevada State Engineer dated March 1, 1978.

The Pleasant Valley Hydrographic Basin (6-088) is bounded on the north by the Steamboat Hills, on the east by the Virginia Range, on the west by the Carson Range, and on the south by Washoe Lake and Washoe Valley. Elevations range from 5,000 feet above mean sea level on the valley floor to more than 10,000 feet in the surrounding ranges.

The dominant hydrologic feature in Pleasant Valley is Steamboat Creek. Stream flow and groundwater enter and exit the area by way of Steamboat Creek, which originates from Washoe Lake, flows north to Little Washoe Lake through the Pleasant Valley Basin and eventually terminates at the Truckee River.

The U.S. Geological Survey (USGS) operates a stream flow gaging station on Steamboat Creek (USGS site #10349300). Data for this and other gaging stations are available from the USGS website at <http://nevada.usgs.gov>.

GROUNDWATER LEVELS

Groundwater level measurements are made by NDWR on a semi-annual basis at the following locations (Figure 2):

[088 N17 E19 09BABC1](#)

[088 N17 E19 17CAAA1](#)

[088 N17 E20 18BABA1](#)

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

METHODS TO ESTIMATE PUMPAGE

One of the purposes of this report is to estimate the amount of groundwater pumped under vested claims, permits and certificates issued by the State Engineer, as well as the amount pumped by the exempt domestic wells in the valley. The following methods were used to arrive at the estimated use:

- Where totalizing meters were in place, meter readings were taken and compared with previous data (if available).
- Where water right owners are obliged to provide the Office of the State Engineer with monthly pumping totals as a condition of their permits, these reports are verified with occasional meter readings taken by NDWR staff and used as the amount pumped.
- Where totalizing meter readings resulted in inconsistent and/or ambiguous totals, the manner of use was irrigation, and pumpage had previously been estimated, use was estimated by multiplying the number of kilowatt-hours used per year (based on the electric meter for the well) by a calculated ratio of acre-feet per kilowatt hour.
- Where meters were not present, previous data were not available, and the manner of use was not irrigation, pumpage was estimated as the annual duty associated with the certificate or permit, if the use was as described in the certificate or permit. If the water was not used as described in the certificate, permit or claim, a value was estimated based upon the circumstances of the actual use for the subject year.
- Exempt domestic wells do not require a permit issued by the State Engineer (Nevada Revised Statutes [NRS] 534.180). These domestic wells may be drilled and utilized where water service from a purveyor is not available. 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. By statute, domestic wells are allowed to pump up to two acre-feet annually; however, the amount of water pumped annually by exempt domestic wells is estimated to be one acre-foot per well.
- Within the Pleasant Valley Hydrographic Basin, there are 124 permitted domestic water rights, some serving multiple dwellings. If the wells were drilled and noted in the Well Log Database as domestic wells, the estimated use was included with the exempt domestic wells.

PUMPAGE BY MANNER OF USE

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

The total estimated groundwater pumpage for the water year 2012, including exempt domestic wells, totaled approximately **3,377 acre-feet**. The annual duties of permitted, certificated and claims of vested groundwater rights within the Pleasant Valley Hydrographic Basin total approximately 6,143 acre-feet. This value does not include those portions of rights that have been relinquished in support of domestic wells. The permitted and pumped totals for water year 2012, categorized by manner of use, are as follows:

A. Commercial (COM)

Appropriations for commercial purposes totaled 349 acre-feet, with estimated pumpage of 15 acre-feet.

B. Domestic (DOM)

Appropriations for domestic purposes totaled 3 acre-feet. However, records of the State Engineer indicate approximately 748 domestic wells existed in the basin during the water year 2012. The amount of water pumped for domestic use as described under NRS 534.013 is estimated at 748 acre-feet, which includes 3 acre feet of domestic appropriations.

C. Irrigation (IRR)

Appropriations for irrigation purposes in the basin totaled 764 acre-feet, with estimated pumpage of 171 acre-feet. A portion of the underground rights are supplemental to surface water; therefore, NIWR calculations were applied based on surface water delivery information obtained from the Federal Water Master.

D. Municipal (MUN)/Quasi-Municipal (QM)

Appropriations for municipal and quasi-municipal purposes totaled 4,946 acre-feet, with estimated pumpage of 2,370 acre-feet.

E. Stockwater (STK)

Appropriations for stockwater purposes totaled 3 acre-feet, with estimated pumpage of 1 acre-foot.

F. Other (OTH)

Appropriations for other purposes totaled 78 acre-feet, with estimated pumpage of 73 acre-feet.

G. Geothermal

Appropriations for geothermal purposes totaled 7,964 acre-feet, with estimated pumpage of 410 acre-feet. Note that geothermal is considered a separate source by NDWR rather than a manner of use.

TABLES

Table 1. Pleasant Valley historical pumpage (acre-feet) by water year and manner of use. Starting in 2012, the method to estimate domestic pumpage was changed from that used in previous years.

MOU	2011	2012
COM	9	15
DOM	3	748
IRR	138	171
MUN/QM	2154	2370
OTH	73	73
REC	132	0
STK	1	1
TOTAL	2510	3377

*Includes pumpage by exempt domestic wells (NRS 534.013)

FIGURES

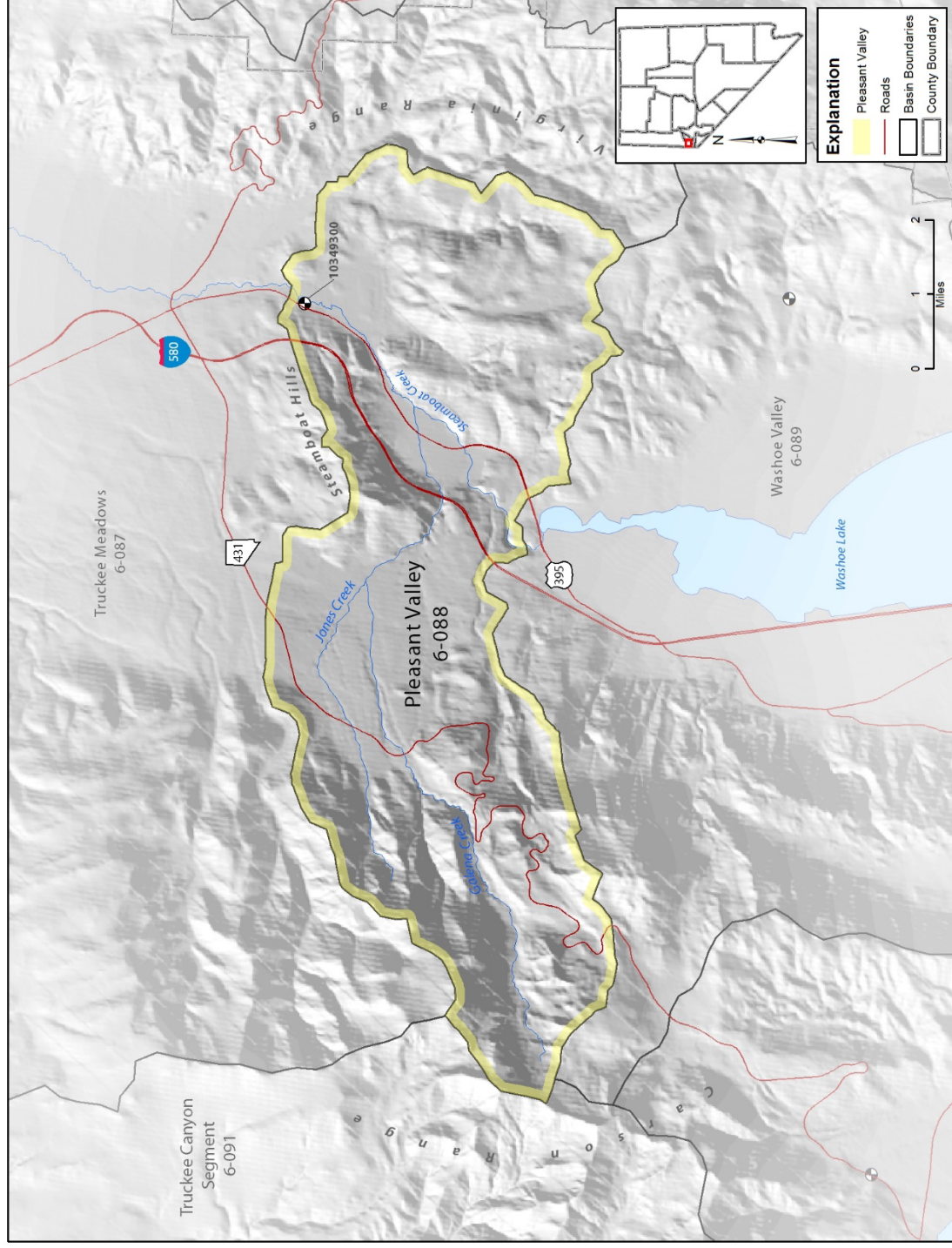


Figure 1. Pleasant Valley (Hydrographic Basin 6-088) physiographic map.

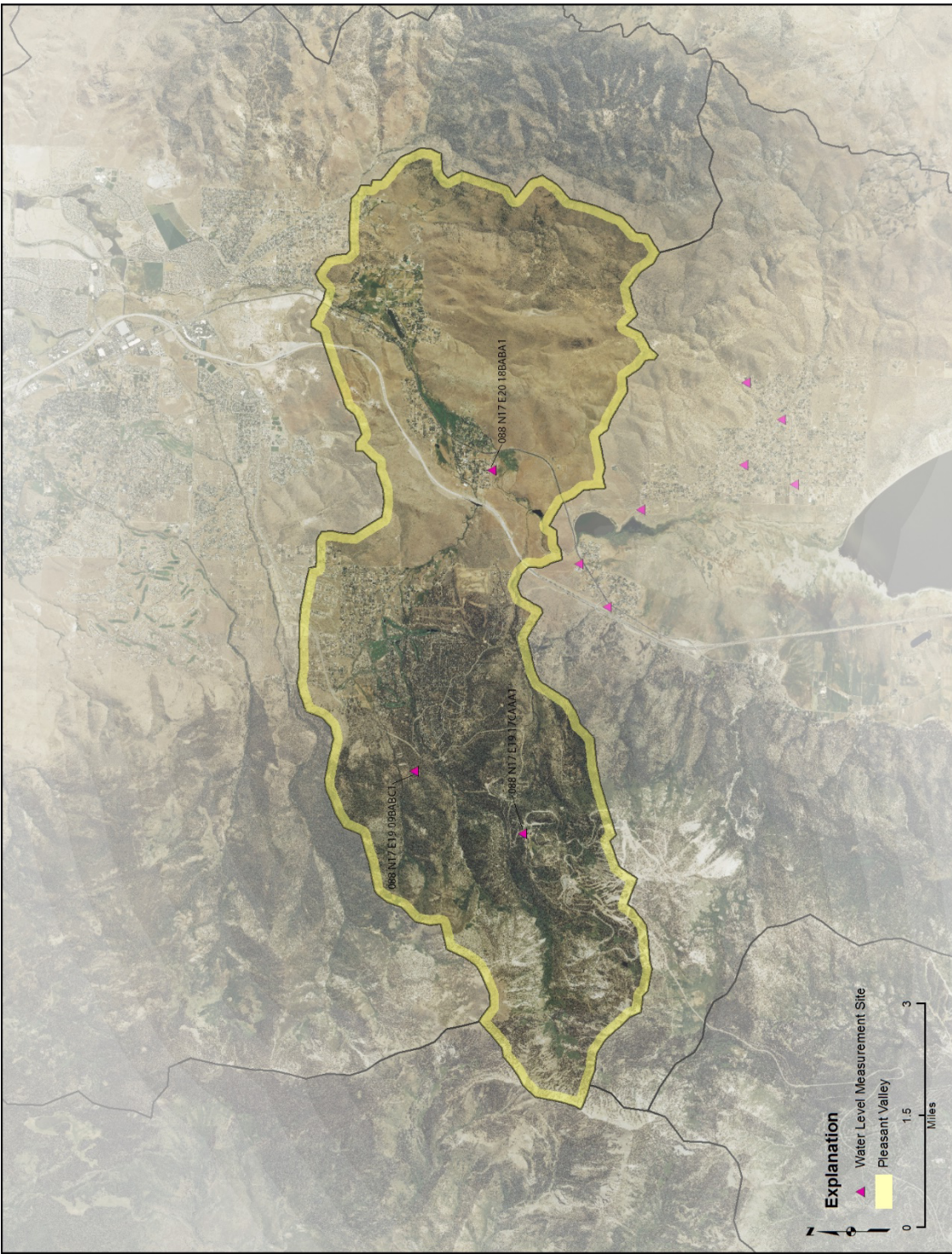


Figure 2. Map showing Pleasant Valley water level measurement sites.

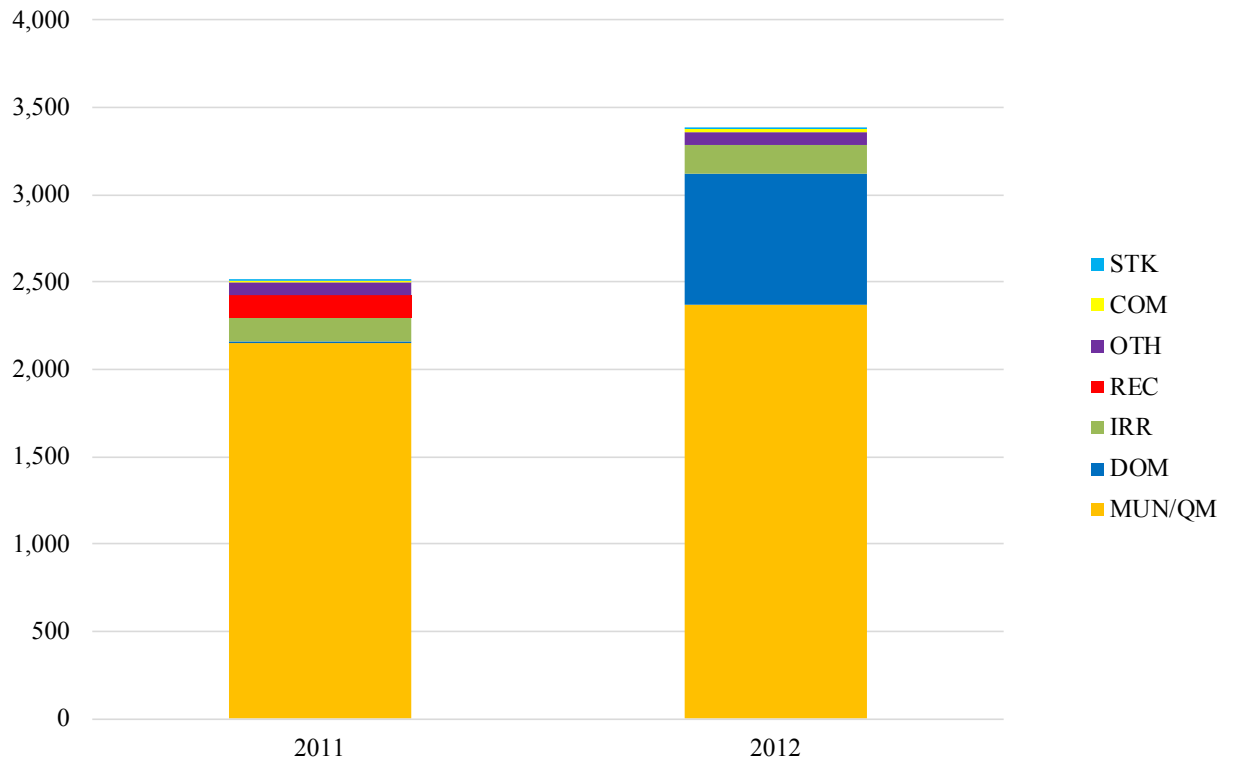


Figure 3. Pleasant Valley historical pumpage by manner of use.

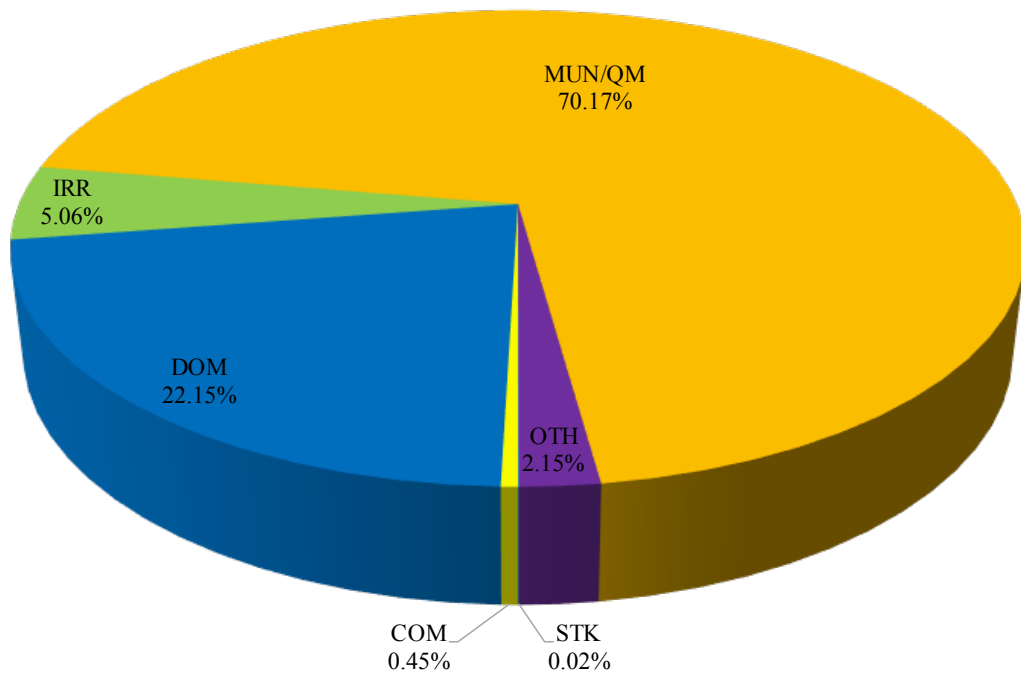


Figure 4. Percentage of 2012 groundwater pumpage by manner of use.

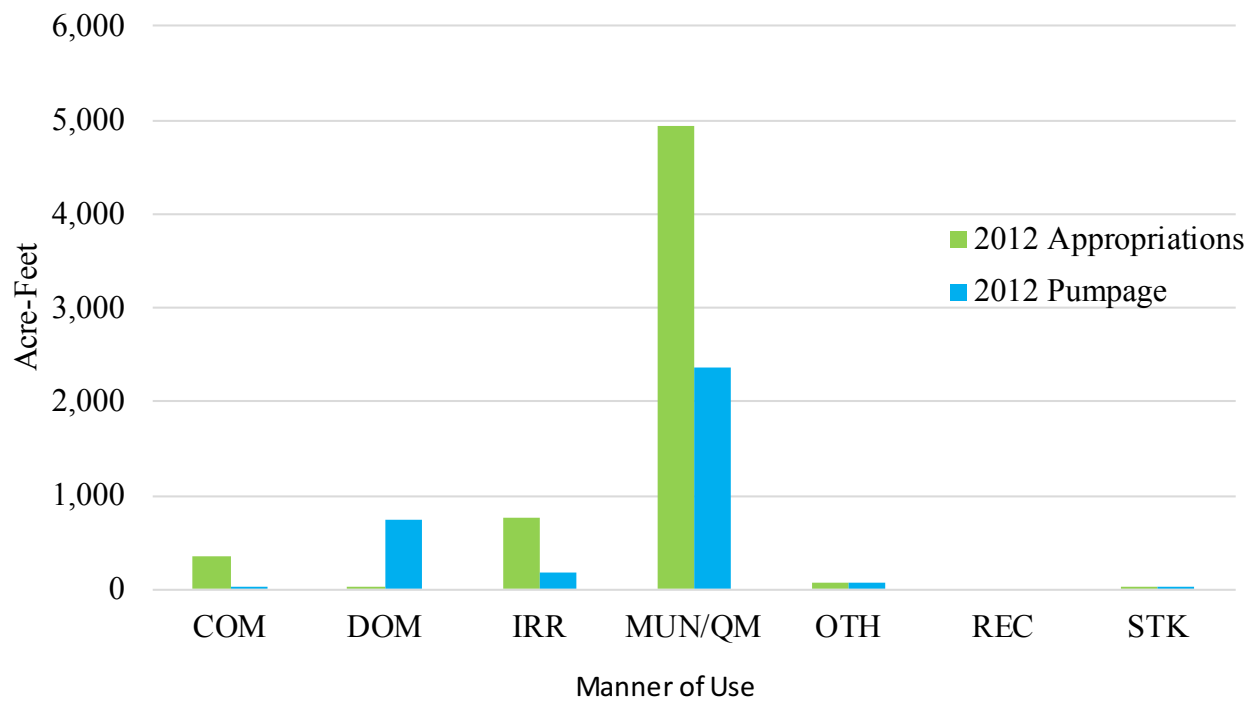


Figure 5. Comparison between 2012 appropriations and actual pumpage.

**APPENDIX A. PLEASANT VALLEY 2012 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 if the application is a Permit (PER) or if it has been certificated. If an application has been certificated, the Certificate number will be listed in the column.
MOU	The manner of use of the appropriated water. COM- Commercial DOM- Domestic ENV- Environmental IND- Industrial IRR- Irrigation MM- Mining & Milling MUN- Municipal QM- Quasi-Municipal REC- Recreational STK- Stockwater WLD- Wildlife
OWNER OF RECORD	The owner of the water right as recorded in the files of the State Engineer. A water right may have more than one owner of record.
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.
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. A “-“ in this field indicates that pumpage was attributed to a senior supplemental permit or certificated water right.
UNITS	AFA stands for acre-feet annually, and AFS stands for acre-feet seasonally. AFS limits water usage to certain months out of the year.
SUPP SRC	The source of the supplemental water; underground, or groundwater (UG), or Surface Water (SW).
SUPP APP NO.	The file number(s) of the supplemental water appropriations. Supplemental application groups are listed at the end of Appendix A.

PLEASANT VALLEY WATER YEAR 2012																
GROUNDWATER PUMPAGE BY APPLICATION NUMBER																
APP NO	SITE NAME	STATUS	MOU	OWNER OF RECORD	QQ	Q	SEC	TWN	RNG	PER ACRES	DUTY (AF)	SUPP ADJ	DUTY USED	UNITS	SUPP SRC	SUPP APP NO
11533	088 N17 E20 07CADD1	3069	IRR	GAMBONI CON CO INC. ; D & J KITTS	NE	SW	7	17N	20E	6.87	49.67	49.67	3.44 AFA			
15839	088 N17 E20 07CCAB1	4886	IRR	EATON, HERMAN W. AND RUTH S.	SW	SW	7	17N	20E	2.00	8.00	8.00	0.00 AFA			
19098	088 N17 E19 19DBBB1	6630	QM	MT. ROSE DEVELOPMENT COMPANY	NW	SE	19	17N	19E		4.82	4.82	3.30 AFA			
20268	088 N18 E19 36CBCA1	5900	IRR	HEYER, HANS GUNTER AND KATJA	NW	SW	36	18N	19E	2.00	8.00	8.00	0.00 AFA			
20857	088 N17 E19 09CBCC1	5838	OTH	WASHOE COUNTY	NW	SW	9	17N	19E		72.40	72.40	72.40 AFA			
22002	088 N17 E20 07CADA1	6270	QM	WASHOE COUNTY SCHOOL DISTRICT	NE	SW	7	17N	20E		723.92	723.92	15.00 AFA			
22087	088 N17 E19 11ACCC1	6376	DOM	CLARK, HAROLD B.	SW	NE	11	17N	19E		1.60	1.60	1.60 AFA			
22474	088 N17 E20 07AABB1	6801	IRR	HERMAN W. EATON FAMILY TRUST, TRUST A	NE	NE	7	17N	20E	2.67	10.68	10.68	0.33 AFA			
28895	088 N17 E20 09BBAC1	9644	QM	STEAMBOAT COURT WATER USERS ASSOC.	NW	NW	9	17N	20E		2.03	2.03	1.44 AFA			
28896	088 N17 E20 09BBAC2	9645	QM	STEAMBOAT COURT WATER USERS ASSOC.	NW	NW	9	17N	20E		2.55	2.55	0.00 AFA			
29419	088 N18 E19 34DCCB1	9713	IRR	KUTNOCK, ROBERT & BARBARA	SW	SE	34	18N	19E	2.10	8.40	8.40	1.60 AFA			
29799	088 N17 E19 03BBAA1	9679	IRR	LINGELBACH, STEPHANIE	NW	NW	3	17N	19E	3.95	15.80	15.80	0.00 AFA			
29801	088 N17 E19 03BBAC1	9681	STK	LINGELBACH, STEPHANIE	NW	NW	3	17N	19E		0.55	0.55	0.00 AFA			
30297	088 N17 E20 07ADCA1	9934	IRR	SAUER, LEO F. AND VERA J.	SE	NE	7	17N	20E	3.90	11.53	11.53	0.00 AFA			
30298	088 N17 E20 07ADCA1	9935	IRR	SAUER, LEO F. AND VERA J.	SE	NE	7	17N	20E	3.90	4.07	4.07	0.00 AFA			
30382A02	088 N17 E19 03BBBC1	14632	QM	SWAN, CHERYL K. & H. RANDALL	NW	NW	3	17N	19E		1.14	1.14	0.10 AFA			
30434	088 N17 E19 17DCCA1	10706	QM	MT. ROSE BOWL PROPERTY OWNERS	SW	SE	17	17N	19E		8.04	20.35	9.03 AFA	UG	57008	
31125	088 N17 E19 11ADDA1	10004	QM	MCMILLAN, D.	SE	NE	11	17N	19E		1.14	1.14	1.14 AFA			
31167	088 N17 E19 03BCCB1	10629	STK	WALKER, ALEXANDER S.	SW	NW	3	17N	19E		2.24	2.24	0.00 AFA			
33371	088 N17 E19 03BBDC1	11086	QM	WASHOE COUNTY	NW	NW	3	17N	19E		1.60	1.60	1.60 AFA			
35147	088 N17 E19 02DAAC1	PER	QM	CALLAHAN, ROBERT AND TINA	NE	SE	2	17N	19E		1828.51	1828.51	0.00 AFA	UG	Footnote 1	
35149	088 N17 E19 02DADB1	PER	QM	CALLAHAN, ROBERT V. AND/OR TINA	NE	SE	2	17N	19E		1828.51	0.00	123.86 AFA	UG	Footnote 1	
35226	088 N17 E20 07CCDC1	15161	QM	WASHOE COUNTY	SW	SW	7	17N	20E		1.00	82.88	0.00 AFA	UG	Footnote 2	
35656	088 N18 E19 34BDD1	10325	OTH	GALENA CREEK VFD	NW	SE	34	18N	19E		2.24	2.24	0.28 AFA			
36089	088 N17 E19 03BCCB1	11293	IRR	WALKER, ALEXANDER S.	SW	NW	3	17N	19E	5.76	23.04	27.57	23.04 AFA	UG / SW	58346	
41986	088 N17 E19 03BBD1	12941	COM	WEISS, INGEBORG	NW	NW	3	17N	19E		0.89	0.89	0.86 AFA			
45133	088 N17 E20 04BDCD1	11003	COM	TOGLIATTI, ROBERT	SW	NW	4	17N	20E		0.03	0.03	0.03 AFA			
46958	088 N18 E19 34DCD1	PER	QM	THE NELL J. REDFIELD TRUST	SE	SW	34	18N	19E		25.96	25.96	0.00 AFA			
48958	088 N17 E20 05DCAB1	13846	COM	WOOD, ANGELA & DAVID L.	SW	SE	5	17N	20E		2.03	2.03	0.30 AFA			
50380	088 N18 E20 33DCD1	16132	QM	MONROE, R. LARRY & NANCY J.	SW	SE	33	18N	20E		3.36	3.36	3.36 AFA			
50540	088 N17 E19 02DCCB1	14122	OTH	OLD GALENA LTD.	SW	SE	2	17N	19E		3.62	3.62	0.00 AFA			
52127	088 N17 E19 03BBD1	PER	QM	MONTGOMERY STREET PROPERTIES, LLC	NW	NW	3	17N	19E		10.00	10.00	1.09 AFA			
52420	088 N17 E20 04DCDD1	14541	IRR	WASHOE COUNTY	SW	SE	4	17N	20E	2.07	8.28	491.43	0.00 AFA	UG / SW	Footnotes 3, 9	
52421A01	088 N17 E20 04DABA1	14542	IRR	WASHOE COUNTY	NE	SE	4	17N	20E	7.95	31.84	0.00	0.00 AFA	UG / SW	Footnotes 3, 9	
52421A02	088 N17 E20 04DABA1	14630	IRR	AMSTERDAM HOLDINGS, LLC	NE	SE	4	17N	20E	33.41	133.67	0.00	0.38 AFA	UG / SW	Footnotes 3, 9	
52422A01	088 N17 E20 04DCDD1	14543	IRR	WASHOE COUNTY	SW	SE	4	17N	20E	6.13	24.52	0.00	0.00 AFA	UG / SW	Footnotes 3, 9	
52422A02	088 N17 E20 04DCDD1	14631	IRR	WILLOMONTE LAND AND LIVESTOCK	SW	SE	4	17N	20E	69.78	279.12	0.00	111.65 AFA	UG / SW	Footnotes 3, 9	
55665	088 N17 E19 02DADB1	PER	QM	WASHOE COUNTY	NE	SE	2	17N	19E		13.72	13.72	0.00 AFA			
57008	088 N17 E19 17DBC1	15275	QM	MT. ROSE BOWL PROPERTY OWNERS WATER	NW	SE	17	17N	19E		20.35	0.00	0.00 AFA	UG	30434	
57173	088 N17 E19 03DCD1	17115	QM	NESLER, RONALD L.	SW	SE	3	17N	19E		2.21	2.21	2.21 AFA			
57429	088 N17 E20 18AABC1	PER	MUN	WASHOE COUNTY	NW	NE	18	17N	20E		81.88	0.00	81.88 AFA	UG	Footnote 2	
57749	088 N17 E20 18BAAB1	PER	QM	WASHOE COUNTY	NE	NW	18	17N	20E		100.60	720.00	0.00 AFA	UG	Footnote 4	
57750	088 N17 E20 18AABC1	PER	QM	WASHOE COUNTY	NW	NE	18	17N	20E		157.60	0.00	79.13 AFA	UG	Footnote 4	
58346	088 N17 E19 03BCCB1	15818	IRR	WALKER, ALEXANDER S.	SW	NW	3	17N	19E	5.22	4.53	0.00	1.35 AFA	UG / SW	36089	
58496	088 N18 E20 33DCD1	PER	QM	STEAMBOAT SPRINGS WATER WORKS, INC.	SW	SE	33	18N	20E		115.70	235.23	115.70 AFA	UG	Footnote 5	
58497	088 N18 E20 33DCDD1	PER	QM	STEAMBOAT SPRINGS WATER WORKS INC.	SW	SE	33	18N	20E		41.06	0.00	41.06 AFA	UG	Footnote 5	
58498	088 N18 E20 33DCD2	PER	QM	STEAMBOAT SPRINGS WATER WORKS INC.	SW	SE	33	18N	20E		235.23	0.00	24.90 AFA	UG	Footnote 5	
58806	088 N18 E19 34DCD1	PER	QM	WASHOE COUNTY	SE	SW	34	18N	19E		19.25	19.25	0.00 AFA	UG	60710	
58870	088 N17 E19 03DABC1	PER	QM	WASHOE COUNTY	NE	SE	3	17N	19E		107.40	0.00	35.00 AFA	UG	Footnote 4	
58926	088 N17 E19 03DABC1	PER	QM	WASHOE COUNTY	NE	SE	3	17N	19E		1886.78	0.00	338.70 AFA	UG	Footnote 1	
59042	088 N17 E20 04CB8B1	15826	QM	1997 GENO O. & VELDA ROSASCHI REVOCABLE TR	NW	SW	4	17N	20E		1.64	1.64	0.94 AFA			
59330	088 N17 E19 10DCAD1	PER	QM	WASHOE COUNTY	SW	SE	10	17N	19E		88.60	0.00	73.68 AFA	UG	Footnote 4	
59631	088 N17 E19 14BBCB1	18687	QM	WASHOE COUNTY	NW	NW	14	17N	19E		88.60	0.00	84.49 AFA	UG	Footnote 4	
59632	088 N17 E19 14AAAA1	PER	QM	WASHOE COUNTY	NE	NE	14	17N	19E		88.60	0.00	0.00 AFA	UG	Footnote 4	
59633	088 N17 E19 14ABBA1	PER	QM	WASHOE COUNTY	NW	NE	14	17N	19E		88.60	0.00	0.00 AFA	UG	Footnote 4	
60710	088 N17 E19 03DABC1	PER	MUN	WASHOE COUNTY	NE	SE	3	17N	19E		19.25	0.00	0.00 AFA	UG	58806	
61267	088 N18 E19 35CBCC1	PER	MUN	THE NELL J. REDFIELD TRUST	NW	SW	35	18N	19E		103.33	973.90	103.33 AFA	UG	Footnote 6	
61268	088 N18 E19 35CABC1	PER	MUN	THE NELL J. REDFIELD TRUST	NW	SW	35	18N	19E		130.01	0.00	130.01 AFA	UG	Footnote 6	
61269	088 N18 E19 35ACAD1	PER	MUN	THE NELL J. REDFIELD TRUST	NE	SW	35	18N	19E		135.00	0.00	135.00 AFA	UG	Footnote 6	
61270	088 N18 E19 35ACAD1	PER	MUN	THE NELL J. REDFIELD TRUST	NE	SW	35	18N	19E		135.00	0.00	13.64 AFA	UG	Footnote 6	
61703	088 N17 E20 07CCAB1	PER	MUN	WASHOE COUNTY	SW	SW	7	17N	20E		82.88	0.00	0.00 AFA	UG	Footnote 2	
62269	088 N17 E19 03DABC1	PER	QM	WASHOE COUNTY	NE	SE	3	17N	19E		26.88	26.88	0.00 AFA			
62718	088 N18 E20 33DCC1	16475	COM	STEAMBOAT STORAGE	SE	SW	33	18N	20E		2.38	2.38	5.07 AFA			
62875	088 N17 E20 09BBCD1	17799	DOM	SADER, CANDICE K.	NW	NW	9	17N	20E		1.00	1.00	0.00 AFA			
63146	088 N18 E20 33DCDD1	PER	QM	FRANK D. CAFFARATTI 1987 TRUST	SW	SE	33	18N	20E		54.02	54.02	7.02 AFA	UG	63147	
63147	088 N18 E20 33DCD1	PER	QM	FRANK D. CAFFARATTI 1987 TRUST	SW	SE	33	18N	20E		54.02	0.00	7.02 AFA	UG	63146	
63328	088 N17 E19 03DABC1	18736	MUN	WASHOE COUNTY	NE	SE	3	17N	19E		0.91	0.91	0.00 AFA			
63329	088 N17 E19 03DABC1	PER	MUN	WASHOE COUNTY	NE	NW	3	17N	19E		46.03	46.03	0.00 AFA			
64461	088 N17 E19 03DABC1	PER	MUN	WASHOE COUNTY	NE	SE	3	17N	19E		2.24	2.24	53.39 AFA			
65090	088 N17 E20 04BACB1	18936	QM	GLORY TEMPLE CHURCH	NE	NW	4	17N	20E		4.00	4.00	1.79 AFA			

PLEASANT VALLEY WATER YEAR 2012																
GROUNDWATER PUMPAGE BY APPLICATION NUMBER																
APP NO	SITE NAME	STATUS	MOU	OWNER OF RECORD	QQ	Q	SEC	TWN	RNG	PER ACRES	DUTY (AF)	SUPP ADJ	DUTY USED	UNITS	SUPP SRC	SUPP APP NO
65364	088 N17 E19 03DBDC1	PER	MUN	WASHOE COUNTY	NW	SE	3	17N	19E		1830.53	0.00	395.37 AFA		UG	Footnote 1
65507	088 N17 E19 13BBB81	PER	COM	DGD DEVELOPMENT LIMITED PARTNERSHIP	NW	NW	13	17N	19E		87.93	87.93	0.00 AFA			
65508	088 N17 E19 13BBB8D1	PER	COM	DGD DEVELOPMENT LIMITED PARTNERSHIP	NW	NW	13	17N	19E		248.87	248.87	0.00 AFA			
65958	088 N18 E19 35CBC1	PER	MUN	WASHOE COUNTY	NW	SW	35	18N	19E		31.67	0.00	31.67 AFA		UG	Footnote 6
65959	088 N18 E19 35CBC1	PER	MUN	WASHOE COUNTY	NW	SW	35	18N	19E		31.67	0.00	31.67 AFA		UG	Footnote 6
65960	088 N18 E19 35CACD1	PER	MUN	WASHOE COUNTY	NE	SW	35	18N	19E		31.57	0.00	0.00 AFA		UG	Footnote 6
65961	088 N18 E19 35CACD1	PER	MUN	WASHOE COUNTY	NE	SW	35	18N	19E		31.67	0.00	31.67 AFA		UG	Footnote 6
66450	088 N17 E20 03CBCA1	17800	IRR	HOLLY CLAVELL-HEAD LAND TRUST	SW	SW	3	17N	20E	0.83	3.32	3.32	3.32 AFA			
66451	088 N17 E20 03CBCA1	17801	COM	HOLLY CLAVELL-HEAD LAND TRUST	SW	SW	3	17N	20E		1.57	1.57	1.60 AFA			
66452	088 N17 E20 04DABB1	18250	IRR	BUCK, ANNE E.	NE	SE	4	17N	20E	0.51	2.02	2.02	2.02 AFA		SW	Footnote 10
66453	088 N17 E20 04DABB1	18251	COM	BUCK, ANNE E.	NE	SE	4	17N	20E		0.80	0.80	3.39 AFA			
66654	088 N18 E19 35CBC1	PER	QM	WASHOE COUNTY	NW	SW	35	18N	19E		63.00	0.00	160.52 AFA		UG	Footnote 6
66655	088 N18 E19 35CACD1	PER	QM	WASHOE COUNTY	NE	SW	35	18N	19E		11.00	0.00	11.00 AFA		UG	Footnote 6
67368	088 N17 E19 11BABA1	PER	MUN	CHILTON CHILDRENS TRUST, 12/21/12	NE	NW	11	17N	19E		473.76	0.00	0.00 AFA		UG	Footnote 1
67369	088 N17 E19 11CAAB1	PER	MUN	CHILTON CHILDRENS TRUST, DATED 12/21/2012	NE	SW	11	17N	19E		473.76	0.00	0.00 AFA		UG	Footnote 1
67914	088 N17 E19 19CCCA1	17118	QM	MT. ROSE DEVELOPMENT COMPANY	SW	SW	19	17N	19E		31.67	131.67	31.67 AFA		UG	Footnote 7
67915	088 N17 E19 19CCCA1	17119	QM	MT. ROSE DEVELOPMENT COMPANY	SW	SW	19	17N	19E		4.99	0.00	4.99 AFA		UG	Footnote 7
67916	088 N17 E19 19CCCA1	17120	QM	MT. ROSE DEVELOPMENT COMPANY	SW	SW	19	17N	19E		100.00	0.00	100.00 AFA		UG	Footnote 7
67917	088 N17 E19 19CCCA1	17121	QM	MT. ROSE DEVELOPMENT COMPANY	SW	SW	19	17N	19E		31.67	0.00	31.67 AFA		UG	Footnote 7
67918	088 N17 E19 19CCCA1	17122	QM	MT. ROSE DEVELOPMENT COMPANY	SW	SW	19	17N	19E		31.67	0.00	31.67 AFA		UG	Footnote 7
70261	088 N18 E19 35CBC1	PER	MUN	WASHOE COUNTY	NW	SW	35	18N	19E		103.33	0.00	0.00 AFA		UG	Footnote 6
70262	088 N18 E19 35CACD1	PER	MUN	WASHOE COUNTY	NE	SW	35	18N	19E		103.33	0.00	0.00 AFA		UG	Footnote 6
70496	088 N17 E20 04BACD1	17819	COM	BORDIGIONI TRUST AGREEMENT 3/18/1997	NE	NW	4	17N	20E		1.88	1.88	0.23 AFA			
70668	088 N17 E20 07DBAC1	18087	COM	WASHOE COUNTY	NW	SE	7	17N	20E		2.00	2.00	2.76 AFA			
73236	088 N17 E20 04DABB1	17929	STK	CHILTON CHILDRENS TRUST, DATED 12/21/2012	NW	SE	4	17N	20E		0.67	0.67	0.67 AFA			
76316	088 N17 E20 04ACCB1	17791	IRR	ROBERT M. SADER AND CANDICE K. SADER, TRUSTEES OF THE SADER NEVADA TRUST AGREEMENT	SW	NE	4	17N	20E	8.26	33.02	33.02	8.33 AFA		SW	Footnote 11
76539	088 N17 E20 04DBAD1	PER	IRR	CHILTON CHILDRENS TRUST, DATED 12/21/12	NW	SE	4	17N	20E	7.02	31.58	31.58	0.00 AFA			Footnote 12
76651	088 N18 E19 35CBC1	PER	QM	WASHOE COUNTY	NW	SW	35	18N	19E		5.82	5.82	0.00 AFA			
77677	088 N17 E20 04AACA1	PER	IRR	ANNE LOUISE BRITTON	NE	NE	4	17N	20E	2.50	10.00	10.00	0.00 AFA			Footnote 13
77678	088 N17 E20 04ABDD1	PER	IRR	SCHULER, MICHAEL AND ELIZABETH	NW	NE	4	17N	20E	3.75	15.00	15.00	0.00 AFA		SW	Footnote 13
77729	088 N18 E19 35CACD1	PER	MUN	WASHOE COUNTY	NE	SW	35	18N	19E		31.67	0.00	0.00 AFA		UG	Footnote 6
79024	088 N17 E19 19CCCA1	PER	QM	MT. ROSE DEVELOPMENT COMPANY	SW	SW	19	17N	19E		31.67	0.00	18.81 AFA		UG	Footnote 7
79858	088 N17 E20 04AADA1	PER	IRR	COULTER, CURTIS B. AND JUDITH L.	NE	NE	4	17N	20E	3.50	14.00	14.00	0.00 AFA			Footnote 14
80237	088 N17 E19 19CCCA1	PER	REC	MT ROSE DEVELOPMENT COMPANY	SW	SW	19	17N	19E		131.67	0.00	0.00 AFA		UG	Footnote 7
81356	088 N17 E20 03CBCA1	PER	COM	MARTIN & SUSAN JOHNSON FAMILY TRUST DATED MARCH 7,2005	NW	SW	3	17N	20E		0.93	0.93	0.93 AFA			
81357	088 N17 E20 03CBCA1	PER	IRR	JOHNSON, MARTIN W AND SUSAN	NW	SW	3	17N	20E	1.00	4.00	4.00	6.44 AFA			Footnote 15
V04810	088 N18 E20 33DCCD1	PER	IRR	MONROE, LARRY R. & NANCY J.		SE	33	18N	20E	4.00	16.00	16.00	9.01 AFA			

Footnotes

- Permits 35147, 35149, 35150, 58926, 65364, 67368, and 67369 have a total combined duty of 1,828.51 AFA.
- Permits 35226, 57429 and 61703 have a total combined duty of 82.88 AFA.
- Permits 52420, 52421 and 52422 have a total combined duty of 491.432 AFA.
- Permits 57749, 57750, 58870, 59330, 59331, 59631, 59632, and 59633 have a total combined duty of 720 AFA.
- Permits 58496, 58497 and 58498 have a total combined duty of 235.23 AFA.
- Permits 61267, 61268, 61269, 61270, 65958, 65959, 65960, 65961, 66654, 66655, 70261, 70262, and 77729 have a total combined duty of 973.9 AFA.
- Permits 67914, 67915, 67916, 67917, 67918, 79024, and 80237 have a total combined duty of 131.669 AFA.
- Permits 36089 and 58346 have a total combined duty of 27.57 AFA, along with being supplemental to surface water under Permits 24829 and 61792.
- Permit 52421 and 52422 (A01 & A02 both) are supplemental to surface water under Orr Ditch Decree Claims 660, 665, 666, 690, 691, 692, 693 and 694.
- Permit 66452 is supplemental to surface water under Orr Ditch Decree Claims 660, 666, 692, 693 and 694.
- Permit 76316 is supplemental to surface water under Orr Ditch Decree Claims 660, 663 and 684.
- Permit 76539 is supplemental to surface water under Orr Ditch Decree Claims 660, 665 and 689.
- Permit 77677 and Permit 77678 are supplemental to surface water under Orr Ditch Decree 660, 667 and 696.
- Permit 79858 is supplemental to surface water under Orr Ditch Decree 660, 667, 696.5 and 697.
- Permit 81357 is supplemental to surface water under Orr Ditch Decree 660, 666, 692, 693 and 694.

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

EXPLANATION OF ABBREVIATIONS AND COLUMN HEADINGS FOR GROUNDWATER USE BY POINT OF DIVERSION

SITE NAME	An ID assigned to each well, based on its geographic location.
APP NO.	The file number of the Permit to Appropriate/Change Water.
STATUS	Indicates if the application is a Permit (PER) or if it has been Certificated (CERT). If a Permit has been certificated, the Certificate number will be listed in the column.
MOU	The manner of use of the appropriated water. COM - Commercial STK - Stock IRR - Irrigation MM - Mining and Milling QM - Quasi-Municipal IND - Industrial REC - Recreational OTH - Other MUN Municipal
OWNER OF RECORD	The owner of the water right as confirmed by the State Engineer's Office based on recorded documents submitted. A water right may have more than one owner of record.
WATER YEAR	The 12-month period October 1, for any given year through September 30, of the following year. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months.

PLEASANT VALLEY HISTORICAL PUMPAGE BY POINT OF DIVERSION					
UNIQUE IDENTIFIER	APP NO	MOU	OWNER OF RECORD	2011	2012
088 N17 E19 02DAAC1	35147	QM	CALLAHAN, ROBERT AND TINA	106.80	123.86
088 N17 E19 02DADB1	35149	QM	CALLAHAN, ROBERT V. AND/OR TINA		
088 N17 E19 02DADB1	55665	QM	WASHOE COUNTY		
088 N17 E19 02DCCB1	50540	OTH	OLD GALENA LTD.	0.00	0.00
088 N17 E19 03BBAA1	29799	IRR	LINGELBACH, STEPHANIE	0.00	0.00
088 N17 E19 03BBAC1	29801	STK	LINGELBACH, STEPHANIE	0.00	0.00
088 N17 E19 03BBBD1	33371	QM	WASHOE COUNTY	7.32	2.69
088 N17 E19 03BBBD1	52127	QM	MONTGOMERY STREET PROPERTIES, LLC		
088 N17 E19 03BBDB1	41986	COM	WEISS, INGEBORG	0.41	0.86
088 N17 E19 03DABC1	58870, 58926, 60710, 62269, 63328	QM	WASHOE COUNTY	308.74	373.70
088 N17 E19 03DABC1	64461	MUN	WASHOE COUNTY	51.46	53.39
088 N17 E19 03DCDC1	57173	QM	NESLER, RONALD L.	5.18	2.21
088 N17 E19 09CBCC1	20857	OTH	WASHOE COUNTY	72.40	72.40
088 N17 E19 10DCAD1	59330	QM	WASHOE COUNTY	107.69	73.68
088 N17 E19 11ADDA1	31125	QM	MCMILLAN, D.	1.14	1.14
088 N17 E19 13BBBD1	65508	COM	DGD DEVELOPMENT LIMITED PARTNERSHIP	0.00	0.00
088 N17 E19 14AAAA1	59632	QM	WASHOE COUNTY	0.00	0.00
088 N17 E19 14ABBA1	59633	QM	WASHOE COUNTY	0.00	0.00
088 N17 E19 14BBCB1	59631	QM	WASHOE COUNTY	136.84	84.49
088 N17 E19 17DBC1	57008	QM	MT. ROSE BOWL PROPERTY OWNERS WATER	14.22	9.03
088 N17 E19 17DCCA1	30434	QM	MT. ROSE BOWL PROPERTY OWNERS		
088 N17 E20 03CCBA1	66450	IRR	HOLLY CLAVELL-HEAD LAND TRUST	2.80	3.32
088 N17 E20 03CCBA1	66451	COM	HOLLY CLAVELL-HEAD LAND TRUST	1.57	1.60
088 N17 E20 04BACD1	70496	COM	BORDIGIONI TRUST AGREEMENT 3/18/1997	1.88	0.23
088 N17 E20 04CBBD1	59042	QM	1997 GENO O. & VELDA ROSASCHI REVOCABLE TRUST	0.95	0.94
088 N17 E20 04DABA1	52421A01	IRR	WASHOE COUNTY	0.00	0.00
088 N17 E20 04DABA1	52421A02	IRR	AMSTERDAM HOLDINGS, LLC	0.13	0.38
088 N17 E20 04DBAB1	73236	STK	CHILTON CHILDRENS TRUST, DATED 12/21/2012	0.67	0.67
088 N17 E20 04DBAD1	76539	IRR	CHILTON CHILDRENS TRUST, DATED 12/21/12	0.00	0.00
088 N17 E20 04DCDD1	52420, 52422A01	IRR	WASHOE COUNTY	0.00	0.00
088 N17 E20 04DCDD1	52422A02	IRR	WILLOMONTE LAND AND LIVESTOCK	111.65	111.65
088 N17 E20 05DCAB1	48958	COM	WOOD, ANGELA & DAVID L.	0.00	0.30
088 N17 E20 07AABB1	22474	IRR	HERMAN W. EATON FAMILY TRUST, TRUST A	10.68	0.33
088 N17 E20 07ADCA1	30297, 30298	IRR	SAUER, LEO F. AND VERA J.	0.00	0.00
088 N17 E20 07CADA1	22002	QM	WASHOE COUNTY SCHOOL DISTRICT	15.00	15.00
088 N17 E20 07CCAB1	15839	IRR	EATON, HERMAN W. AND RUTH S.	0.00	0.00
088 N17 E20 07CCAB1	61703	MUN	WASHOE COUNTY	0.00	0.00
088 N17 E20 07CCCD1	35226	QM	WASHOE COUNTY	0.09	0.00
088 N17 E20 07DBAC1	70668	COM	WASHOE COUNTY	2.00	2.76
088 N17 E20 09BBAC1	28895, 28896	QM	STEAMBOAT COURT WATER USERS ASSOC.	1.74	1.44
088 N17 E20 18ABBC1	57429, 57750	MUN	WASHOE COUNTY	39.44	161.01
088 N17 E20 18BAAB1	57749	QM	WASHOE COUNTY		
088 N17 E20 04BACB1	65090	QM	GLORY TEMPLE CHURCH	3.13	1.79
088 N18 E19 34CDCC1	46958	QM	THE NELL J. REDFIELD TRUST	62.48	0.00
088 N18 E19 34CDCC1	58806	QM	WASHOE COUNTY		
088 N18 E19 34DBDD1	35656	OTH	GALENA CREEK VFD	2.24	0.28
088 N18 E19 36BCBA1	20268	IRR	HEYER, HANS GUNTER AND KATJA	0.00	0.00
088 N18 E20 33CDCC1	62718	COM	STEAMBOAT STORAGE	1.59	5.07
088 N18 E20 33DCDC1	58496	QM	STEAMBOAT SPRINGS WATER WORKS, INC.	235.23	195.70
088 N18 E20 33DCDC1	63147	QM	FRANK D. CAFFARATTI 1987 TRUST		
088 N18 E20 33DCDC2	58498	QM	STEAMBOAT SPRINGS WATER WORKS INC.		
088 N18 E20 33DCDD1	58497	QM	STEAMBOAT SPRINGS WATER WORKS INC.		
088 N18 E20 33DCDD1	63146	QM	FRANK D. CAFFARATTI 1987 TRUST		
088 N17 E19 03BBBC1	30382A02	QM	SWAN, CHERYL K. & H. RANDALL	1.14	0.10
088 N17 E19 03BCCB1	31167	STK	WALKER, ALEXANDER S.	0.56	0.00
088 N17 E19 03BCCB1	36089, 58346	IRR	WALKER, ALEXANDER S.	2.00	24.39
088 N17 E19 03DBDC1	65364	MUN	WASHOE COUNTY	329.32	395.37
088 N17 E19 11ACCC1	22087	DOM	CLARK, HAROLD B.	1.60	1.60
088 N17 E19 11ABAB1	67368	MUN	CHILTON CHILDRENS TRUST, 12/21/12	0.00	0.00
088 N17 E19 11CAAB1	67369	MUN	CHILTON CHILDRENS TRUST, DATED 12/21/2012	0.00	0.00
088 N17 E19 13BBBD1	65507, 65508	COM	DGD DEVELOPMENT LIMITED PARTNERSHIP	0.00	0.00

PLEASANT VALLEY HISTORICAL PUMPAGE BY POINT OF DIVERSION					
UNIQUE IDENTIFIER	APP NO	MOU	OWNER OF RECORD	2011	2012
088 N17 E19 19CCCA1	67914, 67915, 67916, 67917, 67918, 79024, 80237	QM	MT. ROSE DEVELOPMENT COMPANY	349.10	218.81
088 N17 E19 19CCCA1	80237	REC	MT. ROSE DEVELOPMENT COMPANY	131.66	0.00
088 N17 E19 19DBBB1	19098	QM	MT. ROSE DEVELOPMENT COMPANY	4.00	3.30
088 N17 E20 03BCA1	81356	COM	MARTIN & SUSAN JOHNSON FAMILY TRUST DATED MARCH	0.93	0.93
088 N17 E20 03BCA1	81357	IRR	JOHNSON, MARTIN W AND SUSAN	4.00	6.44
088 N17 E20 04AACA1	77677	IRR	ANNE LOUISE BRITTON	0.00	0.00
088 N17 E20 04AADA1	79858	IRR	COULTER, CURTIS B. AND JUDITH L.	0.00	0.00
	83276	IRR	SCHULER, MICHAEL AND ELIZABETH	0.00	0.00
088 N17 E20 04ACCB1	76316	IRR	ROBERT M. SADER AND CANDICE K. SADER, TRUSTEES OF	0.46	8.33
088 N17 E20 04BCDC1	45133	COM	TOGLIATTI, ROBERT	0.00	0.03
088 N17 E20 04DABB1	66452	IRR	BUCK, ANNE E.	2.85	2.02
088 N17 E20 04DABB1	66453	COM	BUCK, ANNE E.	0.80	3.39
088 N17 E20 07CADD1	11533	IRR	GAMBONI CON CO INC. ; D & J KITTS	3.44	3.44
088 N17 E20 09BBCD1	62875	DOM	SADER, CANDICE K.	1.00	0.00
088 N18 E19 34DCCB1	29419	IRR	KUTNOCK, ROBERT & BARBARA	0.16	1.60
088 N18 E19 35CACD1	61269, 61270	MUN	THE NELL J. REDFIELD TRUST	210.25	191.31
088 N18 E19 35CACD1	65960, 65961, 66655, 70262, 77729	MUN	WASHOE COUNTY		
088 N18 E19 35CBCC1	61267, 61268	MUN	THE NELL J. REDFIELD TRUST	141.72	457.20
088 N18 E19 35CBCC1	65958, 65959, 66654, 70261, 76651	MUN	WASHOE COUNTY		
088 N18 E20 33DCCD1	50380	QM	MONROE, R. LARRY & NANCY J.	3.36	3.36
088 N18 E20 33DCCD1	V04810	QM	MONROE, R. LARRY & NANCY J.	16.00	9.01
Permits 30454 and 57008 have a total combined duty of 20.347 AFA. Permits 35147, 35149, 35150, 58926, 65364, 67368, and 67369 have a total combined duty of 1,828.51 AFA. Permits 35226, 57429 and 61703 have a total combined duty of 82.88 AFA. Permits 36089 and 58346 have a total combined duty of 27.57 AFA. Permits 52420, 52421 and 52422 have a total combined duty of 491.432 AFA. Permits 57749, 57750, 58870, 59330, 59331, 59631, 59632, and 59633 have a total combined duty of 720 AFA. Permits 58496, 58497 and 58498 have a total combined duty of 235.23 AFA. Permits 61267, 61268, 61269, 61270, 65958, 65959, 65960, 65961, 66654, 66655, 70261, 70262, and 77729 have a total combined duty of 973.9 AFA. Permits 67914, 67915, 67916, 67917, 67918, 79024, and 80237 have a total combined duty of 131.669 AFA.					