

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

DIVISION OF WATER RESOURCES

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STATE ENGINEER



PLEASANT VALLEY (HYDROGRAPHIC BASIN 088)

GROUNDWATER PUMPAGE INVENTORY

WATER YEAR 2011

By:
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Table of Contents

ABSTRACT	1
HYDROGRAPHIC BASIN SUMMARY	2
PURPOSE AND SCOPE	3
DESCRIPTION OF THE STUDY AREA	3
HYDROLOGY	3
FIGURE 1 LOCATION MAP OF PLEASANT VALLEY HYDROGRAPHIC BASIN 6-088	4
GROUNDWATER LEVELS	5
FIGURE 2 LOCATION MAP OF PLEASANT VALLEY GROUNDWATER LEVEL MONITORING NETWORK	5
METHODS TO ESTIMATE PUMPAGE	6
PUMPAGE BY MANNER OF USE	7
FIGURE 3 PLEASANT VALLEY GROUNDWATER PUMPAGE 2011 BY MANNER OF USE	8
FIGURE 4 GROUNDWATER USE: WATER YEAR 2011 PERMITTED VS. ACTUAL PUMPAGE (AFA)	8
REFERENCES CITED	9
APPENDIX A	10
EXPLANATION OF ABBREVIATIONS AND COLUMN HEADINGS FOR GROUNDWATER USE BY PERMIT NUMBER AND BY MANNER OF USE	11
PLEASANT VALLEY GROUNDWATER PUMPAGE FOR WATER YEAR 2011 BY PERMIT NUMBER	12

ABSTRACT

This inventory presents the status and pumpage of all permitted, certificated and claim of vested right (vested claim) groundwater rights located within Pleasant Valley, Hydrographic Basin 088, for water year 2011 (October 1, 2010 through September 30, 2011). Also included are links to tables, graphs and data associated with stream-flow discharge and depth to groundwater.

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 water year 2011, the permitted, certificated and vested claim groundwater rights totaled **6,194 acre-feet**. Estimated pumpage for the water year was **1,896 acre-feet**. Municipal and Quasi-municipal use is the largest appropriative manner of use within the basin. For water year 2011, appropriations for Municipal/Quasi-Municipal use were 5,008 acre-feet and pumpage was 1,829 acre-feet. There are four active geothermal wells in the basin. These wells reported pumpage of 8,279 acre-feet, and re-injection of 7,869 acre-feet, for a total consumptive use of 410 acre-feet.

HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER	088, REGION 6
HYDROGRAPHIC BASIN NAME	PLEASANT VALLEY
COUNTIES	WASHOE COUNTY
MAJOR COMMUNITIES	MT. ROSE, PLEASANT VALLEY, STEAMBOAT
DESIGNATED	DESIGNATED
DENIALS BASED UPON WATER AVAILABILITY	2373 , IRR DEN, 7/10/1978 2968 , QM DEN, 5/23/1984 3916 , QM DEN, 6/19/1989 4757 , QM AND COM DEN, 7/29/1999 5546 , MUN DEN, 1/19/2006
GROUNDWATER LEVEL MEASUREMENTS	NDWR
PUMPAGE INVENTORY, ACRE-FEET IN 2011	1,896*
STATE ENGINEER'S ORDERS	
709 – DESIGNATION OF BASIN	DATE: MARCH 1, 1978
COMMITTED GROUNDWATER RESOURCE: 6,194 ACRE-FEET,	DATE: September 2011
IRRIGATION753	QUASI-MUNICIPAL/MUNICIPAL 5,008
STOCK3	COMMERCIAL 349 DOMESTIC..... 234**
OTHER78	GEO THERMAL..... 7,964

NOTE: Committed groundwater resource data is accurate for September 2011. Manner of Use category totals vary over time, as rights are not necessarily static. Individual rights may be subject to change applications, certification, withdrawals, 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.

*Includes pumpage by exempt domestic wells, as defined by NRS 534.013. The domestic use estimate is based upon a count of the total number of improved lots not served by Washoe County Utilities in the basin multiplied by 1.0 acre-foot per annum. The number of active domestic wells on improved lots in the basin was estimated by information supplied by Washoe County Utilities, and is 231.

** Domestic total includes active domestic water rights (2.6AFA) as well as water rights relinquished in favor of exempt domestic wells.

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. The estimated amount of groundwater pumped under permits, certificates, vested claims, and exempt domestic wells within the Pleasant Valley Hydrographic Basin 6-088, for the water year beginning October 1, 2010 and ending September 30, 2011 (water year 2011) is described in the following sections.

DESCRIPTION OF THE STUDY AREA

Pleasant Valley is located in northwest Nevada and lies wholly within the state. The basin occupies approximately 39 square miles and is in Washoe County. Pleasant Valley Hydrographic basin is bounded on the north by the Steamboat Hills that rise to an elevation greater than 6,000 feet, on the east side by the Virginia Range that rises to elevations greater than 7,000 feet, on the west by the Carson Range rising to an elevation of greater than 10,000 feet, on the south by Washoe Lake and Washoe Valley. The bordering hydrographic basins are as follows: 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. (See 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.

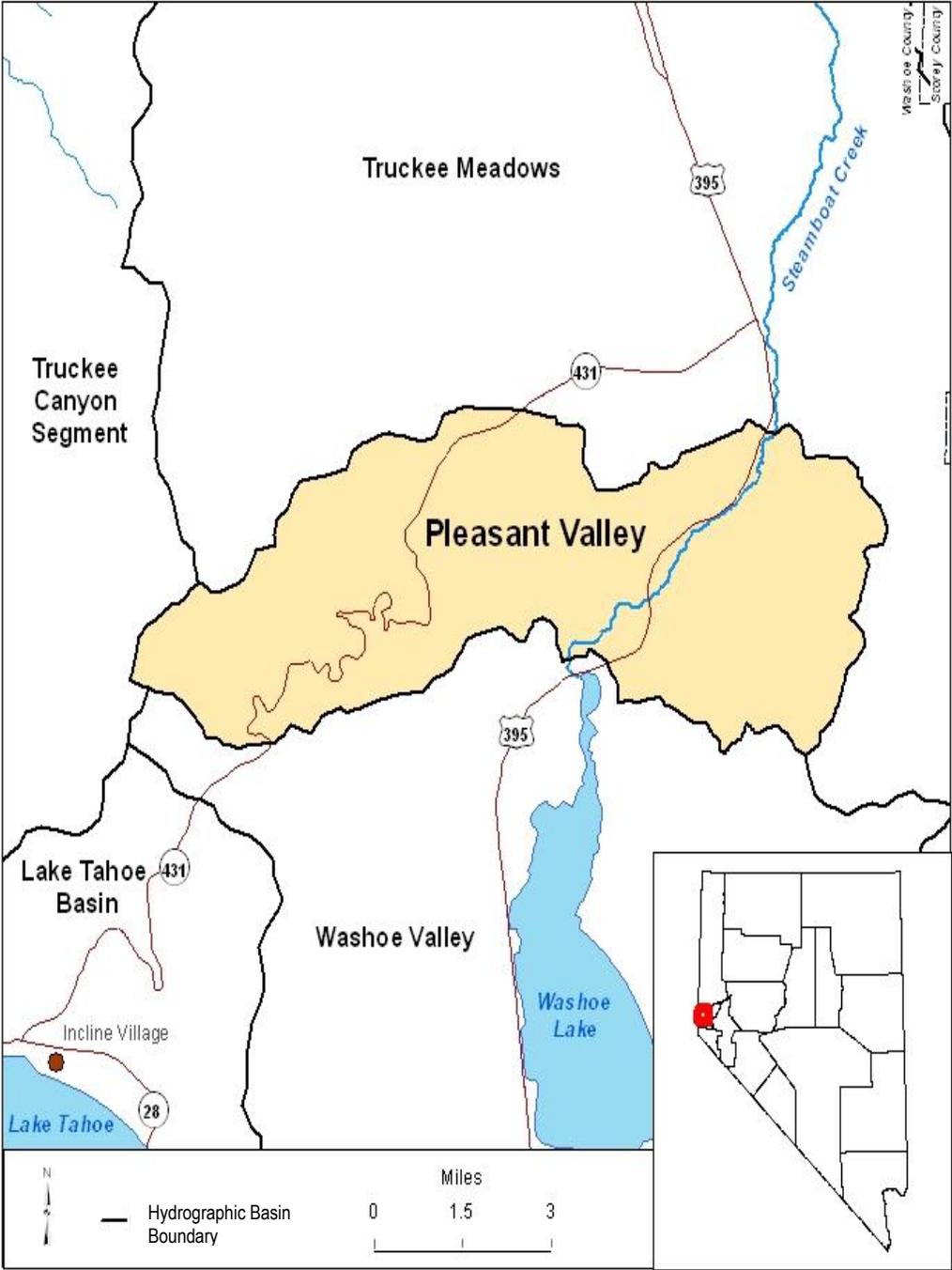
HYDROLOGY

The dominant hydrologic feature of Pleasant Valley is the Steamboat Creek. Stream flow and ground water enter and leave the area by way of Steamboat Creek and underlying alluvium. Water is exported to neighboring Washoe Valley by way of a canal. Steamboat Creek originates in Washoe Lake, continuing to Little Washoe Lake, and then on through the Pleasant Valley Basin south to north terminating at the Truckee River. Tributaries to the Steamboat Creek in this valley include Galena Creek, Browns Creek, and other ephemeral streams that only reach the creek in times of high flow during run-off.

The U.S. Geological Survey (USGS) operates a stream flow gaging station in Steamboat Nevada (USGS #[10349300](#) Steamboat Creek, Steamboat, Nevada). The gage is located at Lat N 39°22'37.68" Long W 119°44'37.17" within Township 18N Range 20E Section 33.

Just downstream of Little Washoe Lake is the former town site of Steamboat where a resort area was once developed around an extensive hot springs complex. In more recent times, this hot springs area has been explored for its geothermal power potential, and is now the site of a geothermal power plant.

FIGURE 1 LOCATION MAP OF PLEASANT VALLEY HYDROGRAPHIC BASIN 6-088



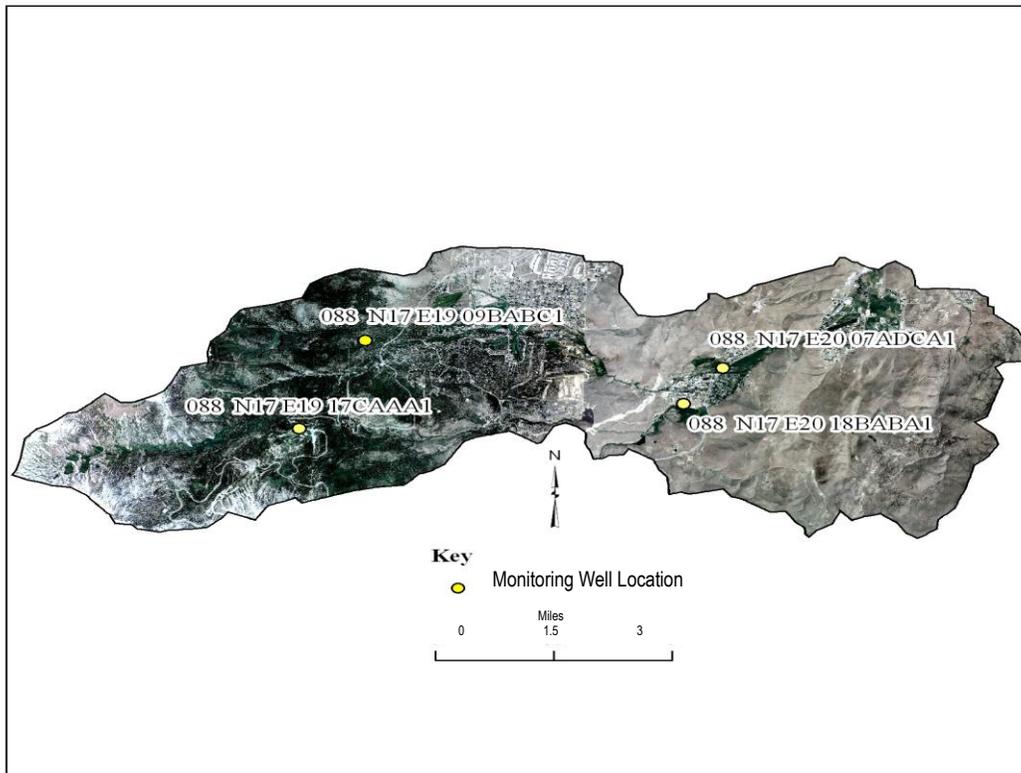
GROUNDWATER LEVELS

Water level measurements conducted by the Nevada Division of Water Resources are done on a bi-annual basis at the following four locations (see Figure 2):

1. - [088 N17 E19 09BABC1](#)
2. - [088 N17 E19 17CAAA1](#)
3. - [088 N17 E20 07ADCA1](#)
4. - [088 N17 E20 18BABA1](#)

The water level data and hydrograph for each site are available from the Water Level Data page of the Nevada Division of Water Resources website (<http://water.nv.gov/data/waterlevel/>). Data retrievals are organized by hydrographic basin.

FIGURE 2 LOCATION MAP OF PLEASANT VALLEY GROUNDWATER LEVEL MONITORING NETWORK



METHODS TO ESTIMATE PUMPAGE

This report estimates the amount of groundwater pumped under vested claims and the permits and certificates issued by the State Engineer, as well as the amount pumped by 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.
- Where meters were not in place and the manner of 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 meters were not in place, the manner of use was irrigation, and the number of hours the well was operated was unknown, the place of use was inspected to estimate the amount of acreage under cultivation. The number of acres under cultivation was then multiplied by a duty of 4 acre-feet per acre to estimate the pumpage.
- Where meters are not present, previous data not available and the manner of use was not irrigation, pumpage was estimated by applying the annual duty associated with the certificate, permit or vested claim, if the use was as described in the certificate, permit or vested claim. If the use was not as described in the certificate, permit, or vested claim, pumpage was estimated based upon the circumstances of use.
- If there was no use of the water under the permit, zero use was recorded.
- The primary water purveyor for the Pleasant Valley basin is the Washoe County Department of Water Resources. (WCDWR). The WCDWR currently operates four water systems and ten production wells in the basin and serves approximately 1,827 connections (GIS data, WCDWR). WCDWR reports monthly pumping totals on a quarterly basis as a condition of the permits under which the groundwater was appropriated. These reports are used directly as the amount pumped by WCDWR.
- Stock water wells are not required to be equipped with totalizing meters. Estimates of pumpage were derived from a combination of sources, including information from the Bureau of Land Management (BLM, [Rangeland Administration System](#)), documentation from the water right permit files and the certificated duty for the permit.
- 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 2 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 comparison of improved lots to WCDWR customers shown on GIS data supplied by WCDWR. The amount of water pumped by exempt domestic wells in this basin is estimated to be one and one-half acre-feet per well. This estimate is based on the average size of the homes in this region as well as the amount of mature landscape and irrigation associated.

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 2011, including exempt domestic wells, is **1,896 acre-feet**. The annual duties of permitted, certificated and vested claims within the Pleasant Valley hydrographic basin total approximately **6,194 acre-feet**. The permitted and pumped totals as categorized by manner of use are as follows:

A. Quasi-Municipal / Municipal

During water year 2011, appropriations for quasi-municipal and municipal purposes totaled 5,008 acre-feet. An estimated 1829 acre-feet were pumped during water year 2011.

B. Irrigation

During water year 2011, appropriations for irrigation purposes totaled 753 acre-feet with a portion of this total being supplemental to surface water rights. An estimated 52 acre-feet were pumped during water year 2011. The groundwater irrigation appropriations are associated with 182 acres. Of these, approximately 31 acres were irrigated during water year 2011.

C. Commercial

During water year 2011, appropriations totaled 349 acre-feet for commercial purposes in the basin. 9 acre-feet were pumped for commercial purposes during water year 2011.

D. Stock

During water year 2011, appropriations totaled 3.46 acre-feet for stock purposes in the basin. An estimated 1.25 acre-feet were pumped during water year 2011.

E. Domestic

During water year 2011, permits for domestic purposes totaled 2.6 acre-feet in the basin. There are a number of rights that have been relinquished in favor of domestic wells and/or dedicated to the subdivision of land. Records of WCDWR indicate approximately 231 improved lots utilizing exempt domestic wells existed in the basin during water year 2011. The amount of water pumped for this domestic use as described under NRS 534.013 is estimated at 347 acre-feet. Total estimated domestic use in the basin was 349 acre-feet.

F. Other

During water year 2011, appropriations classified as other totaled 78 acre-feet in the basin. Estimated use under these permits for fire department and fire protection uses was 2.24 acre-feet.

G. Geothermal

During water year 2011, appropriations for geothermal purposes totaled 7,964 acre-feet in the basin. Consumptive use of these permits was 410 acre-feet with 7,869 acre-feet re-injected.

FIGURE 3

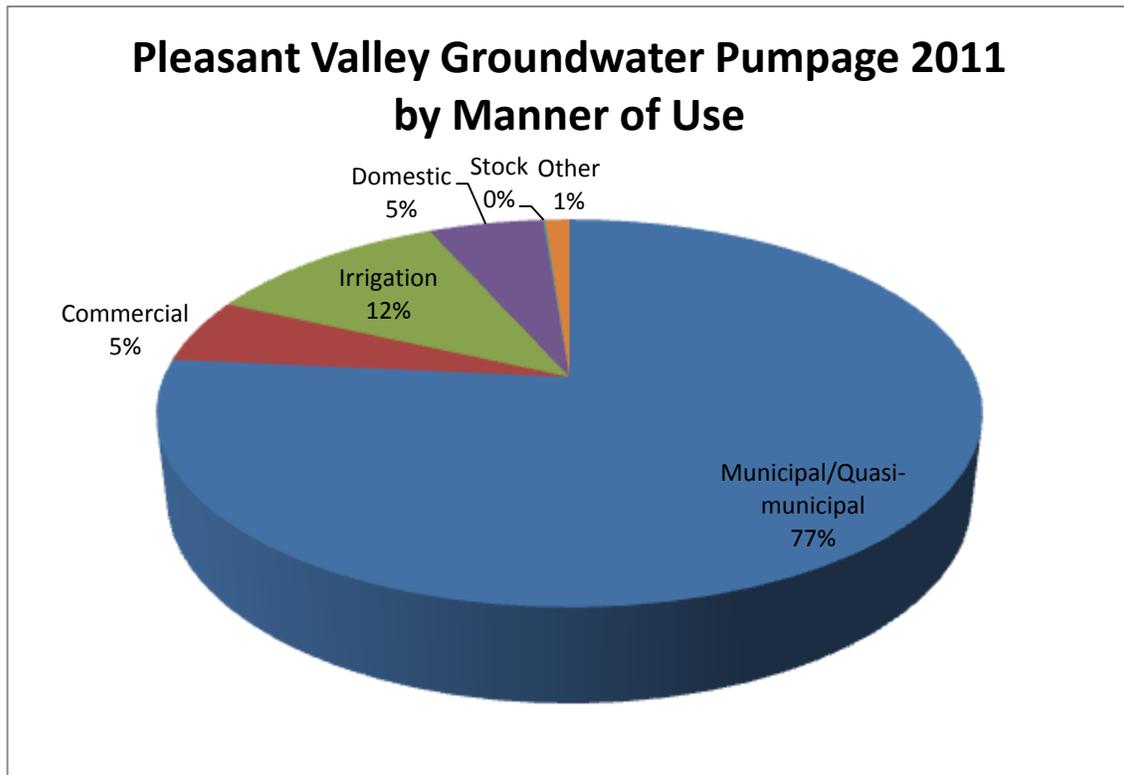
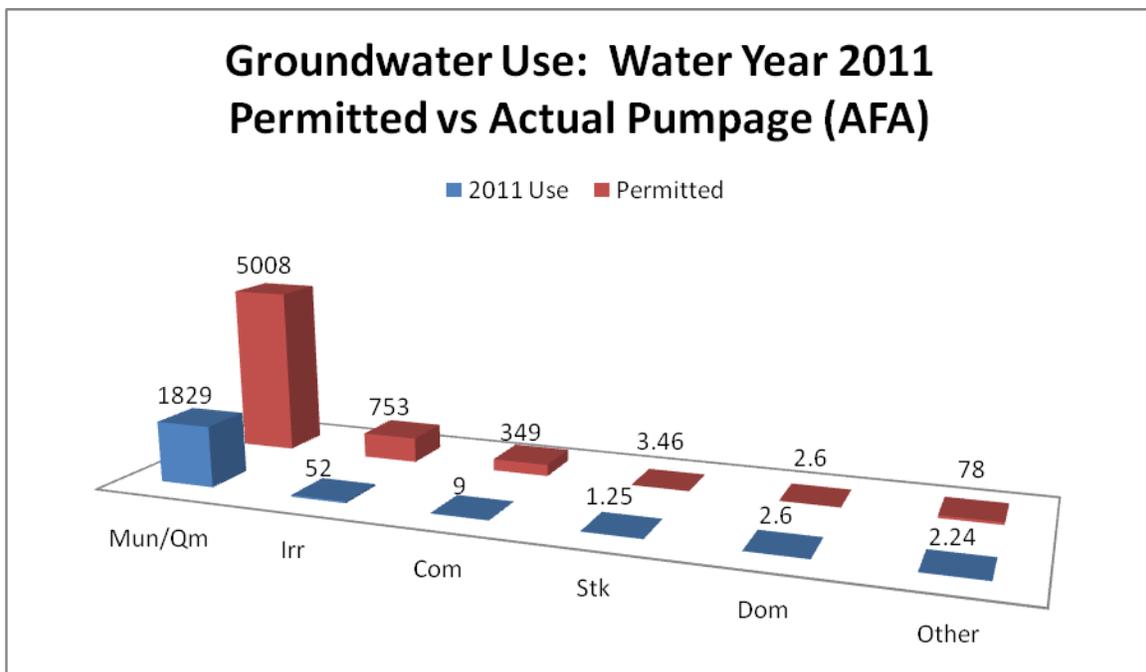


FIGURE 4



REFERENCES CITED

U.S. Department of the Interior. Bureau of Land Management. "Bureau of Land Management's Rangeland Administration System." [Online] 7 September 2011.

<http://www.blm.gov/ras/index.htm>

U.S. Department of the Interior, U.S. Geological Survey. "Nevada Water-Data Report 2010." [Online] 24 October 2011. <http://wdr.water.usgs.gov/wy2010/search.jsp>

APPENDIX A

**PLEASANT VALLEY GROUNDWATER PUMPAGE FOR WATER YEAR 2011 BY
PERMIT NUMBER**

**EXPLANATION OF ABBREVIATIONS AND COLUMN HEADINGS FOR
GROUNDWATER USE BY PERMIT NUMBER AND BY MANNER OF USE**

IDENTIFIER	Well site name.
APP	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 (CER). If a Permit has been certificated, the Certificate number will be listed in the column.
USE	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 GEO - Geothermal
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.
QTR	The quarter of the section in which the point of diversion is located.
SEC	The section number where 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.
ACRES IRR	The number of acres that are permitted to be irrigated.
DUTY (AFA)	The number of acre-feet of water that the permittee may pump annually. One acre-foot equals 325,851 gallons.
DUTY USED (AFA)	The amount of water used during the water year, in acre-feet, as determined by review of records and/or field investigation.

Identifier	App	Status	Use	Owner of Record	QQ	Qtr	Sec	TwN	Rng	Acres Irr	Sup	Duty (AFA)	Duty Used (AFA)
N17 E20 7 CA	11533	CER	IRR	Gamboni Const. Co. INC ; D&J Kitts	NE	SW	7	17N	20E	0.50		3.44	2.00
	11533	CER	IRR	Gamboni Const. Co. INC ; D&J Kitts	NE	SW	7	17N	20E	0.00		34.34	
N17 E20 7 CA	11533	CER	IRR	Timothy F. Holt & Pamela L. Holt	NE	SW	7	17N	20E	0.00		7.59	4.00
N17 E20 7 CA	11533	CER	IRR	Washoe County	NE	SW	7	17N	20E	0.00		3.98	0.00
	11533	CER	IRR	Washoe County	NE	SW	7	17N	20E	0.00		0.32	
N17 E20 7 CC	15839	CER	IRR	Eaton,Herman W.	SW	SW	7	17N	20E	0.00		8.00	0.00
N18 E19 36 CB	20268	CER	IRR	Heyer, Hans Gunter and Katja	NW	SW	36	18N	19E	0.00		8.00	0.00
N17 E20 7 AA	22474	CER	IRR	Herman W. Eaton Family Trust. Trust A	NE	NE	7	17N	20E	0.50		10.68	2.00
N18 E19 34 DC	29419	CER	IRR	Kutnock, Robert & Barbara	SW	SE	34	18N	19E	0.00		0.80	0.00
N18 E19 34 DC	29419	CER	IRR	Mcavay, John & Janet	SW	SE	34	18N	19E	0.20		0.80	0.80
N18 E19 34 DC	29419	CER	IRR	Mcavay, John & Janet	SW	SE	34	18N	19E	0.20		0.80	0.80
N18 E19 34 DC	29419	CER	IRR	Washoe County	SW	SE	34	18N	19E	0.00		6.00	0.00
N17 E19 3 BB	29799	CER	IRR	Lingelbach, Stephanie	NW	NW	3	17N	19E	0.00		15.80	0.00
N17 E20 7 AD	30297	CER	IRR	Sauer, Leo F. & Vera J.	SE	NE	7	17N	20E	2.88		11.53	0.00
N17 E20 7 AD	30298	CER	IRR	Sauer, Leo F. & Vera J.	SE	NE	7	17N	20E	1.22		4.07	0.00
N17 E19 3 BC	36089	CER	IRR	Walker, Alexander S.	SW	NW	3	17N	19E	5.76	Y	23.04	23.04
N17 E19 3 BC	58346	CER	IRR	Walker, Alexander S.	SW	NW	3	17N	19E	5.22	Y	4.53	0.00
											TCD	27.57	
N17 E20 4 DC	52420	CER	IRR	Washoe County	SW	SE	4	17N	20E	0.00	Y	8.28	0.00
N17 E20 4 DA	52421A01	CER	IRR	Washoe County	NE	SE	4	17N	20E	0.00	Y	31.84	0.00
N17 E20 4 DA	52421A02	CER	IRR	Amsterdam Holdings, LLC	NE	SE	4	17N	20E	2.00	Y	8.00	0.13
N17 E20 4 DA	52421A02	CER	IRR	Anne Louise Britton	NE	SE	4	17N	20E	0.00	Y	52.62	0.00
N17 E20 4 DA	52421A02		IRR	William and Mary Cantlon	NE	SE	4	17N	20E	0.00	Y	73.06	0.00
N17 E20 4 DC	52422A01	CER	IRR	Washoe County	SW	SE	4	17N	20E	0.00	Y	24.52	0.00
N17 E20 4 DC	52422A02	CER	IRR	Willomonte Land and Livestock	SW	SE	4	17N	20E	0.00	Y	279.12	0.00
											TCD	477.44	
N17 E20 3 CC	66450	CER	IRR	Holly Clavell-Head Land Trust	SW	SW	3	17N	20E	0.62		3.32	2.97
N17 E20 4 DA	66452	CER	IRR	Buck, Anne E.	NE	SE	4	17N	20E	0.51	Y	2.02	2.02
N17 E20 4 DA	66453	CER	COM	Buck, Anne E.	NE	SE	4	17N	20E	0.00	Y	0.80	0.80
											TCD	2.82	

Identifier	App	Status	Use	Owner of Record	QQ	Qtr	Sec	Twn	Rng	Acres Irr	Sup	Duty (AFA)	Duty Used (AFA)
N17 E20 3 CB	66454	PER	IRR	Marr, Bruce	NW	SW	3	17N	20E	0.51		2.02	3.01
N17 E20 4 AC	76316	CER	IRR	Robert M. Sader and Candice K. Sader Trustees of the Sader Nevada Trust Agreement	SW	NE	4	17N	20E	0.12		33.02	0.46
N17 E20 4 DB	76539	PER	IRR	Ward W. Chilton	NW	SE	4	17N	20E	7.90		31.58	0.00
N17 E20 3 CB	77655	PER	IRR	Martin W. & Susan Johnson	NW	SW	3	17N	20E	1.00		4.00	4.00
N17 E20 4 AA	77677	PER	IRR	Anne Louise Britton	NE	NE	4	17N	20E	0.00		10.00	0.00
N17 E20 4 AB	77678	PER	IRR	Anne Louise Britton	NW	NE	4	17N	20E	0.00		15.00	0.00
N17 E20 4 AA	79858	PER	IRR	Wiliam and Margaret Cantlon Family Trust	NE	NE	4	17N	20E	0.00		14.00	0.00
N18 E20 33 DC	V04810	VST	IRR	Monroe, Larry R.	SW	SE	33	18N	20E	1.50		16.00	5.90
N17 E19 11 AC	22087	CER	DOM	Clark, Harold B.	SW	NE	11	17N	19E	0.00		1.60	1.60
N17 E20 9 BB	62875	CER	DOM	Sader, Candice K.	NW	NW	9	17N	20E	0.00		1.00	1.00
N17 E19 3 BB	41986	CER	COM	Weiss, Ingeborg	NW	NW	3	17N	19E	0.00		0.89	0.89
N17 E20 4 BC	45133	CER	COM	Togliatti, Robert	SW	NW	4	17N	20E	0.00		0.03	0.00
N17 E20 5 DC	48958	CER	COM	Wood, Angela & David L.	SW	SE	5	17N	20E	0.00		2.03	0.00
N18 E20 33 CD	62718	CER	COM	Steamboat Storage	SE	SW	33	18N	20E	0.00		2.38	1.59
N17 E19 11 BB	65507	PER	COM	DGD DEV Limited Partnership	NW	NW	13	17N	19E	0.00	Y	87.93	0.00
N17 E19 11 BB	65508	PER	COM	DGD DEV Limited Partnership	NW	NW	13	17N	19E	0.00	Y	248.87	0.00
											TCD	336.80	
N17 E20 3 CC	66451	CER	COM	Holly Clavell-Head Land Trust	SW	SW	3	17N	20E	0.00		1.57	1.40
N17 E20 4 BA	70496	CER	COM	Bordigioni Trust Agreement 3/18/1997	NE	NW	4	17N	20E	0.00		1.88	1.88
N17 E20 7 DB	70668	CER	COM	Washoe County	NW	SE	7	17N	20E	0.00		2.00	2.00
N17 E20 3 CA	73318	PER	COM	Martin & Susan Johnson Family Trust	NW	SW	3	17N	20E	0.00		0.93	0.93
N17 E19 3 BB	29801	CER	STK	Lingelbach, Stephanie	NW	NW	3	17N	19E	0.00		0.55	0.00
N17 E19 3 BC	31167	CER	STK	Walker, Alexander S.	SW	NW	3	17N	19E	0.00		2.24	0.56
N17 E20 4 DB	73236	CER	STK	Mariam & Ward Chilton Family Trust	NW	SE	4	17N	20E	0.00		0.67	0.67
N17 E19 19 DB	19098	CER	QM	Mt. Rose Development. Co.	NW	SE	19	17N	19E			4.82	4.82

Identifier	App	Status	Use	Owner of Record	QQ	Qtr	Sec	Twn	Rng	Acres Irr	Sup	Duty (AFA)	Duty Used (AFA)
N17 E20 7 CA	22002	CER	QM	Washoe County School Dist.	NE	SW	7	17N	20E			723.92	15
N17 E20 9 BB	28895	CER	QM	Steamboat Ct. Water Users Assoc.	NW	NW	9	17N	20E			2.03	0.77
N17 E20 9 BB	28896	CER	QM	Steamboat Ct. Water Users Assoc.	NW	NW	9	17N	20E			2.55	0.97
N17 E19 3 BB	30382A02	CER	QM	Swan, Cheryl K. & H. Randall	NW	NW	3	17N	19E			1.14	1.14
N17 E19 17 DC	30434	CER	QM	Mt. Rose Bowl Property Owners	SW	SE	17	17N	19E		Y	8.04	3.26
N17 E19 17 DB	57008	CER	QM	Mt. Rose Bowl Prop. Owners	NW	SE	17	17N	19E		Y	20.35	8.24
											TCD	20.45	
N17 E19 3 AD	31125	CER	QM	McMillan, D.	SE	NE	11	17N	19E			1.14	1.14
N17 E19 3 BB	33371	CER	QM	Washoe County	NW	NW	3	17N	19E			1.60	1.6
N17 E19 2 DA	35147	PER	QM	Washoe County	NE	SE	2	17N	19E		Y	1886.78	57.79
N17 E19 2 DA	35149	PER	QM	Washoe County	NE	SE	2	17N	19E		Y	1886.78	57.79
N17 E19 3 DA	58926	PER	QM	Washoe County	NE	SE	3	17N	19E		Y	1886.78	379.68
N17 E19 3 DB	65364	PER	MUN	Washoe County	NW	SE	3	17N	19E		Y	1830.53	367.5
N17 E19 11 BA	67368	PER	MUN	Washoe County	NE	NW	11	17N	19E		Y	473.76	0
N17 E19 11 CA	67369	PER	MUN	Washoe County	NE	SW	11	17N	19E		Y	473.76	0
											TCD	1886.78	
N17 E20 7 CC	35226	CER	QM	Washoe County	SW	SW	7	17N	20E		Y	1.00	0
N17 E20 18 AB	57429	PER	MUN	Washoe County	NW	NE	18	17N	20E		Y	81.88	14.53
N17 E20 7 CC	61703	PER	MUN	Washoe County	SW	SW	7	17N	20E		Y	82.88	0
											TCD	82.88	
N18 E19 34 CD	46958	PER	QM	The Nell J. Redfield Trust	SE	SW	34	18N	19E			1.32	0
N18 E19 34 CD	46958	PER	QM	Washoe County	SE	SW	34	18N	19E			24.64	0
N18 E20 33 DC	50380	CER	QM	Monroe, R. Larry & Nancy J.	SW	SE	33	18N	20E			3.36	3.36
N17 E19 3 BB	52127	PER	QM	Montgomery Street Properties LLC	NW	NW	3	17N	19E			3.50	3.50
N17 E19 3 BB	52127	PER	QM	Washoe County	NW	NW	3	17N	19E			6.50	6.50
N17 E19 2 DA	55665	PER	QM	Washoe County	NE	SE	2	17N	19E			13.72	0.42
N17 E19 3 DC	57173	CER	QM	Nesler, Ronald L.	SW	SE	3	17N	19E			2.21	2.21
N17 E20 18 BA	57749	PER	QM	Washoe County	NE	NW	18	17N	20E		Y	100.60	0

Identifier	App	Status	Use	Owner of Record	QQ	Qtr	Sec	TwN	Rng	Acres Irr	Sup	Duty (AFA)	Duty Used (AFA)
N17 E20 18 AB	57750	PER	QM	Washoe County	NW	NE	18	17N	20E		Y	157.60	27.97
N17 E19 3 DA	58870	PER	QM	Washoe County	NE	SE	3	17N	19E		Y	107.40	21.61
N17 E19 10 DC	59330	PER	QM	Washoe County	SW	SE	10	17N	19E		Y	88.60	63.60
N17 E19 14 BB	59631	PER	QM	Washoe County	NW	NW	14	17N	19E		Y	88.60	81.98
N17 E19 14 AA	59632	PER	QM	Washoe County	NE	NE	14	17N	19E		Y	88.60	0.00
N17 E19 14 AB	59633	PER	QM	Washoe County	NW	NE	14	17N	19E		Y	88.60	0.00
											TCD	720.00	
N18 E20 33 DC	58496	PER	QM	Steamboat Springs Water Works Inc.	SW	SE	33	18N	20E		Y	115.70	46.34
N18 E20 33 DC	58497	PER	QM	Steamboat Springs Water Works Inc.	SW	SE	33	18N	20E		Y	41.06	16.45
N18 E20 33 DC	58498	PER	QM	Steamboat Springs Water Works Inc.	SW	SE	33	18N	20E		Y	235.23	94.21
											TCD	235.23	
N18 E19 34 CD	58806	PER	QM	Washoe County	SE	SW	34	18N	19E		Y	19.25	0
N17 E19 3 DA	60710	PER	MUN	Washoe County	NE	SE	3	17N	19E		Y	19.25	3.87
											TCD	19.25	
N17 E20 4 CB	59042	CER	QM	1997 Geno O. & Velda Rosaschi Rev. Trust	NW	SW	4	17N	20E			1.64	0.95
N17 E19 3 DA	62269	PER	QM	Washoe County	NE	SE	3	17N	19E			26.88	5.41
N18 E20 33 DC	63146	PER	QM	Hab Living Trust, Hans Anton Burkhart Trustee	SW	SE	33	18N	20E		Y	39.98	0.00
N18 E20 33 DC	63146	PER	QM	Robert J. Smeath ET AL	SW	SE	33	18N	20E		Y	4.98	0.00
N18 E20 33 DC	63146	PER	QM	Sloan, Violet H.	SW	SE	33	18N	20E		Y	5.02	0.00
N18 E20 33 DC	63146	PER	QM	Washoe County	SW	SE	33	18N	20E		Y	4.04	0.00
N18 E20 33 DC	63147	PER	QM	Hab Living Trust, Hans Anton Burkhart Trustee	SW	SE	33	18N	20E		Y	39.98	0.00
N18 E20 33 DC	63147	PER	QM	Robert J. Smeath ET AL	SW	SE	33	18N	20E		Y	4.98	0.00
N18 E20 33 DC	63147	PER	QM	Sloan, Violet H.	SW	SE	33	18N	20E		Y	5.02	0.00
N18 E20 33 DC	63147	PER	QM	Washoe County	SW	SE	33	18N	20E		Y	4.04	0.00
											TCD	58.25	
N17 E20 4 BA	65090	PER	QM	Glory Temple Church	NE	NW	4	17N	20E			4.00	3.13
N18 E19 35 CB	61267	PER	MUN	Washoe County	NW	SW	35	18N	19E		Y	103.33	49.83
N18 E19 35 CB	61268	PER	MUN	Washoe County	NW	SW	35	18N	19E		Y	130.01	62.76

Identifier	App	Status	Use	Owner of Record	QQ	Qtr	Sec	Twn	Rng	Acres Irr	Sup	Duty (AFA)	Duty Used (AFA)
N18 E19 35 CB	61269	PER	MUN	Washoe County	NW	SW	35	18N	19E		Y	135.00	65.11
N18 E19 35 CB	61270	PER	MUN	Washoe County	NW	SW	35	18N	19E		Y	135.00	65.11
N18 E19 35 CB	65958	PER	MUN	Washoe County	NW	SW	35	18N	19E		Y	31.67	15.29
N18 E19 35 CB	65959	PER	MUN	Washoe County	NW	SW	35	18N	19E		Y	31.67	15.29
N18 E19 35 CA	65960	PER	MUN	Washoe County	NE	SW	35	18N	19E		Y	31.57	15.23
N18 E19 35 CA	65961	PER	MUN	Washoe County	NE	SW	35	18N	19E		Y	31.57	15.23
N18 E19 35 CB	66654	PER	QM	Washoe County	NW	SW	35	18N	19E		Y	63.00	30.41
N18 E19 35 CA	66655	PER	QM	Washoe County	NE	SW	35	18N	19E		Y	11.00	5.31
N18 E19 35 CB	70261	PER	MUN	Washoe County	NW	SW	35	18N	19E		Y	103.33	49.88
N18 E19 35 CA	70262	PER	MUN	Washoe County	NE	SW	35	18N	19E		Y	103.33	49.88
N18 E19 35 CA	77729	PER	MUN	Washoe County	NE	SW	35	18N	19E		Y	31.67	15.27
											TCD	973.90	
N17 E19 19 CC	67914	CER	QM	Mt. Rose Development Co.	SW	SW	19	17N	19E		Y	31.67	5.74
N17 E19 19 CC	67915	CER	QM	Mt. Rose Development Co.	SW	SW	19	17N	19E		Y	4.99	0.90
N17 E19 19 CC	67916	CER	QM	Mt. Rose Development Co.	SW	SW	19	17N	19E		Y	100.00	18.12
N17 E19 19 CC	67917	CER	QM	Mt. Rose Development Co.	SW	SW	19	17N	19E		Y	31.67	5.74
N17 E19 19 CC	67918	CER	QM	Mt. Rose Development Co.	SW	SW	19	17N	19E		Y	31.67	5.74
N17 E19 19 CC	79024	PER	QM	Mt. Rose Development Co.	SW	SW	19	17N	19E		Y	31.67	5.74
N17 E19 19 CC	80237	PER	REC	Mt. Rose Development Co.	SW	SW	19	17N	19E		Y	131.67	23.86
											TCD	131.67	
N18 E19 35 CB	76651	PER	QM	Washoe County	NW	SW	35	18N	19E			5.82	2.81
N17 E19 3 DA	63328	PER	MUN	Washoe County	NE	SE	3	17N	19E			0.92	0.19
N17 E19 3 BA	63329	PER	MUN	Washoe County	NE	NW	3	17N	19E			46.03	9.26
N17 E19 3 DA	64461	PER	MUN	Washoe County	NE	SE	3	17N	19E			2.24	0.45
N17 E19 9 CB	20857	CER	OTH	Washoe County	NW	SW	9	17N	19E			72.40	0.00
N18 E19 34 DB	35656	CER	OTH	Forestry Division-Nevada	NW	SE	34	18N	19E			2.24	2.24
N17 E19 3 BB	50540	CER	OTH	Old Galena Ltd.	SW	SE	2	17N	19E			3.62	0.00
											TOTALS:	6194.12	1895.58