

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

DIVISION OF WATER RESOURCES

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**PUEBLO VALLEY
HYDROGRAPHIC BASIN 1-001**

CROP INVENTORY

2013

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Table of Contents

	Page
ABSTRACT	1
HYDROGRAPHIC BASIN SUMMARY	2
PURPOSE AND SCOPE	3
DESCRIPTION OF THE STUDY AREA	3
METHODS TO ESTIMATE IRRIGATED ACREAGE	3
METHODS TO ESTIMATE PUMPAGE	3
FIGURE 1. LOCATION MAP OF PUEBLO VALLEY (BASIN 1-001).	4
FIGURE 2. MAP SHOWING PUEBLO VALLEY IRRIGATED ACREAGE.	5
APPENDIX A. PUEBLO VALLEY HISTORICAL CROP INVENTORY.	6
APPENDIX B. 2013 PUEBLO VALLEY CROP INVENTORY.	8

ABSTRACT

This inventory represents the status and usage of all permitted and certificated groundwater rights for irrigation purposes located within Pueblo Valley, Hydrographic Basin 1-001, for the year 2013. **Only those groundwater rights associated with irrigation purposes are represented in this report.** For a listing and summary of all other manners of use within the basin please refer to the [Nevada Division of Water Resources Hydrographic Basin Summary](#).

The data presented are valid for the time period of this report and may vary from previously published figures as water rights within the basin are subject to administrative action, such as certification, cancellation, forfeiture or withdrawal on a continuing basis.

For the year 2013, the supplementally adjusted permitted and certificated groundwater rights for irrigation purposes totaled **1,412 acres** with a total duty of 5,781 acre-feet within Pueblo Valley. An estimated **1,155 acres** were irrigated and 4,623 acre-feet were pumped during 2013.

HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER	001, REGION 1
HYDROGRAPHIC BASIN NAME	PUEBLO VALLEY
COUNTIES	HUMBOLDT
MAJOR COMMUNITIES	DENIO
DESIGNATED BASIN	NON-DESIGNATED
DENIALS BASED UPON WATER AVAILABILITY	N/A
ESTIMATED IRRIGATION PUMPAGE 2013 (ACRE-FEET)	4,623*
STATE ENGINEER'S ORDERS	N/A

COMMITTED GROUNDWATER RESOURCE FOR IRRIGATION PURPOSES: 5,781 ACRE-FEET
DATE: JANUARY 2014

NOTE: Committed groundwater resource data are accurate for January 2014. Rights may be subject to change applications, certification, withdrawals, forfeiture and cancellations; each of these circumstances could impact the duty, diversion rate and acreage associated with a given right. Be advised this report acknowledges that other manners of use may be present in the basin; however, only those groundwater rights associated with irrigation purposes are represented in this report.

* Acreage represented in this report may have surface water rights appurtenant. This report acknowledges those acres with surface water rights but is not intended to quantify, nor present any definitive use of those surface water rights. The data represent only the pumping of groundwater and the acreage to which it is applied.

PURPOSE AND SCOPE

The purpose of this report is to inventory all of the groundwater resources allocated to irrigation and described by the Office of the State Engineer, Nevada Division of Water Resources (NDWR), and to estimate the amount of groundwater pumped for irrigation purposes within the Pueblo Valley Hydrographic Basin (1-001), for the year 2013.

DESCRIPTION OF THE STUDY AREA

The Pueblo Valley Hydrographic Basin is located in north central Nevada (Figure 1), occupying approximately 118 square miles in Humboldt County. The adjacent hydrographic basins are King's River Valley – Rio King Subarea (2-030A) to the east, Pine Forest Valley (2-029) to the south and Continental Lake Valley (1-002) to the west.

Pueblo Valley is bounded on the north by the state of Oregon, to the east by the Granite Range, to the south and east by the Bilk Creek Mountains, to the south by Black Mountain, and to the south and west by the Pueblo Range. The valley is approximately 22 miles wide by 13 miles long with basin elevations ranging from approximately 4,100 feet above mean sea level on the valley floor to approximately 8,500 feet in the surrounding mountains. Irrigation occurs primarily in the western part of the basin (Figure 2).

METHODS TO ESTIMATE IRRIGATED ACREAGE

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

- Field inspection of the place of use was conducted to estimate the number of acres under cultivation.
- In cases where field inspection of the place of use was not practical, aerial and/or satellite imagery were analyzed to determine acreages.

METHODS TO ESTIMATE PUMPAGE

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

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

FIGURE 1. LOCATION MAP OF PUEBLO VALLEY (BASIN 1-001).

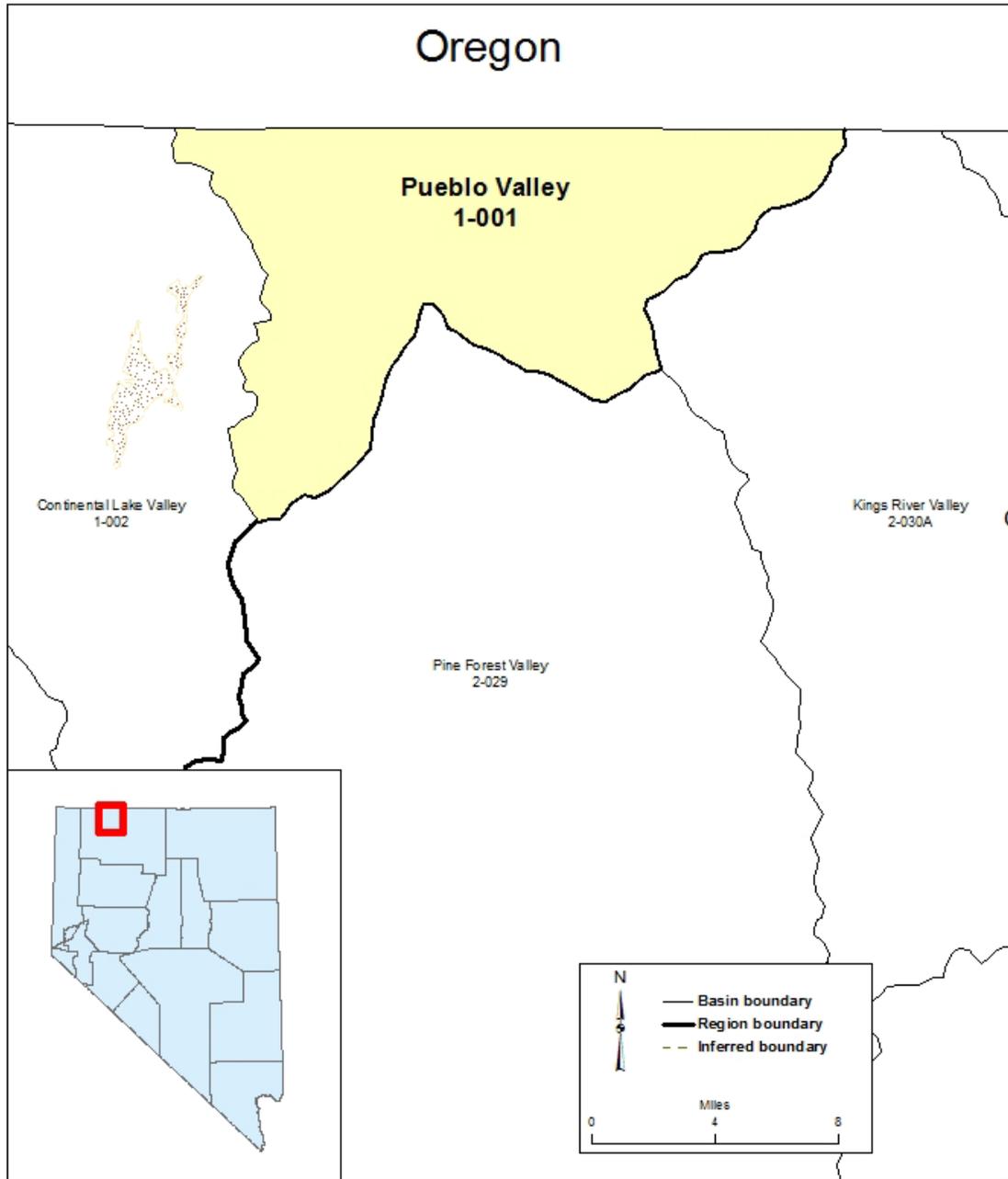


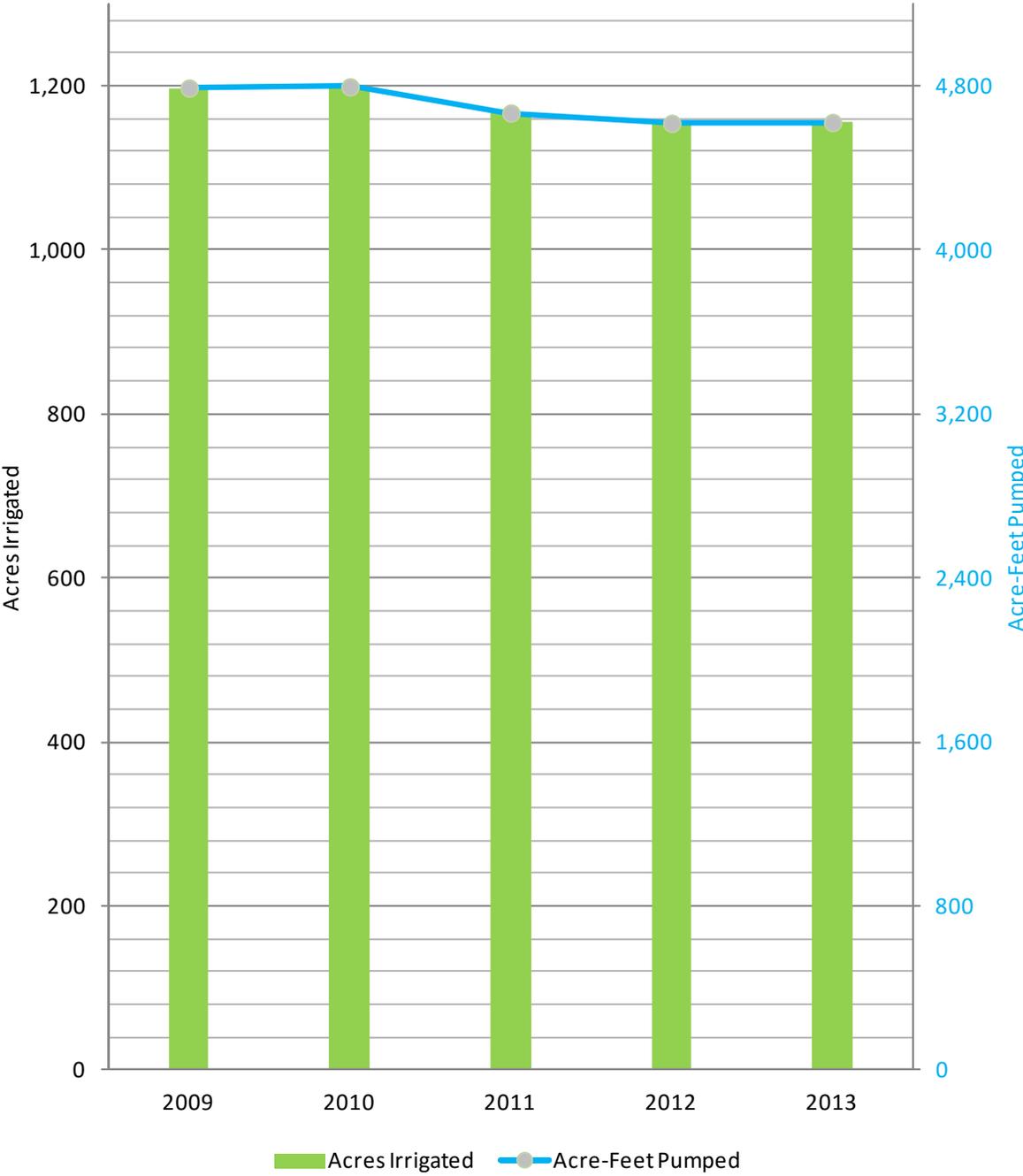
FIGURE 2. MAP SHOWING PUEBLO VALLEY IRRIGATED ACREAGE.



APPENDIX A. PUEBLO VALLEY HISTORICAL CROP INVENTORY.

HISTORICAL CROP INVENTORY

Year	2009	2010	2011	2012	2013
Acres Irrigated	1,198	1,199	1,167	1,155	1,155
Acre-Feet Pumped	4,791	4,797	4,669	4,619	4,623



APPENDIX B. 2013 PUEBLO VALLEY CROP INVENTORY.

EXPLANATION OF COLUMN HEADINGS FOR THE CROP INVENTORY

App No	The file number of the application to Appropriate/Change Water
Status	Indicates the status of an application: Permit (PER), Certificated, or a Claim of Vested Right (VST). If an application has been certificated, the Certificate number will be listed in the column.
QQ	The quarter quarter of the Section in which the point of diversion is located.
Q	The quarter of the Section in which the point of diversion is located.
Sec	The Section in which the point of diversion is located.
TwN	The Township in which the point of diversion is located.
Rng	The Range in which the point of diversion is located.
Sup	Indicates whether the groundwater right is part of a group of groundwater rights used to irrigate all or a portion of the same acreage (supplemental). A Y in this column signifies the groundwater right is supplemental.
Supplemental Application Number	The application number(s) of the water right(s) that are supplemental.
Permitted Acres	The number of acres defined by the permit or certificate that are eligible to be irrigated.
Supplementally Adjusted Permitted Acres	The number of acres that are eligible to be irrigated adjusted by the supplemental nature as defined by the permit or certificate.
Permitted Duty Acre-Feet	The amount of water that may be pumped in a given year, or season, expressed in acre-feet as defined by the permit or certificate.
Supplementally Adjusted Permitted Duty Acre-feet	The amount of water that may be pumped in a given year, or season, expressed in acre-feet adjusted by the supplemental nature as defined by the permit or certificate.

Owner of Record	The owner of the water right as recorded in the records of the State Engineer. A water right may have more than one owner of record. Only the first, alphabetically, is listed in this table.
Crop Type	The common name description of the plants under cultivation (e.g. alfalfa).
Irrigation Method	The method by which the water is applied to the crop and ground (e.g. pivot).
Irrigated Acres	The number of irrigated acres associated with a particular water right.
Acreage Estimation Method	The method by which the number of acres irrigated was determined. F - Field inspection. I - Aerial or satellite imagery.
Acre-Feet Pumped	The estimate of the amount of water pumped under a particular water right, expressed in acre-feet. One acre-foot equals 325,851 gallons.
Pumpage Estimation Method	The method used to estimate the amount of water pumped. M - Totalizing meter readings. D - The estimate was made by multiplying the number of irrigated acres by the acre-foot per acre duty rate, as defined in the permit of certificate.

Crop Inventory and Groundwater Pumpage for Irrigation - Pueblo Valley - Basin 001, 2013

App No	Status	QQ	Q	Sec	Twn	Rng	Sup	Supplemental		Permitted Duty Acre-Feet	Supplementally Adjusted Duty Acre-Feet	Owner of Record	Crop Type	Irrigation Method	Irrigated Acres	Acreage Estimation Method	Acre-Feet Pumped	Pumpage Estimation Method	
								Application Number	Permitted Acres										
13503	CER		TR3	3	47N	30E	Y	38720	50.00	319.70	200.00	1,278.80	MOSER, RUTH T.	Pasture	Flood	50.00	I	200.00	D
38720	CER		TR3	4	47N	30E	Y	13503	319.70			1,278.80	MOSER, RUTH T.	Alfalfa	Flood	270.00	I	1,080.00	D
18000	CER		TR3	4	47N	30E			11.48	11.48	45.92	45.92	ARRIEN, KENT & MARY	No crop				0.00	D
18001	CER		TR3	4	47N	30E			8.15	8.15	32.58	32.58	ARRIEN, KENT & MARY	Domestic				2.00	D
18083	CER		TR3	4	47N	30E			1.00	1.00	4.00	4.00	ORTLIP, PAUL A.	Yard	Sprinklers	0.75	I	3.00	D
23244	CER		TR3	4	47N	30E			67.79	67.79	271.16	271.16	STEPHEN, WILLIAM T.	No crop				0.00	D
23502	CER		TR4	4	47N	30E			50.42	50.42	201.68	201.68	ENGLISH, BRIAN L.					0.00	D
36579	CER	SW	NW	22	47N	30E			77.68	77.68	307.34	307.34	PETER, JOHN S.	Alfalfa	Flood	63.00	I	252.00	D
24466	CER	NW	NE	22	47N	30E	Y	1	766.20	876.14	1,723.70	3,639.27	DENIO FARMS/G&L CURTI RANCHES LLC	Alfalfa	Pivots	122.00	I	488.00	D
27292	CER	SE	SW	15	47N	30E	Y	1	766.20			3,064.80	DENIO FARMS/G&L CURTI RANCHES LLC			148.00		592.00	D
27293	CER	SE	NE	22	47N	30E	Y	1	766.20			510.80	DENIO FARMS/G&L CURTI RANCHES LLC	Stockwater				2.00	
28051	CER	SW	SE	15	47N	30E	Y	1	820.28			2,926.90	DENIO FARMS/G&L CURTI RANCHES LLC	Alfalfa	Pivots	247.00	I	988.00	D
56808	PER	SE	NW	15	47N	30E	Y	1	766.20			2,554.00	DENIO FARMS/G&L CURTI RANCHES LLC	Alfalfa Grain	Pivot Pivot	127.00 127.00	I I	508.00 508.00	D D
Total Supplementally Adjusted Permitted/Certificated Acreage													Total Estimated Acreage		1,154.75				
Total Supplementally Adjusted Permitted/Certificated Pumpage													Total Estimated Pumpage		4,623.00				

¹ PERMITS 24466, 27292, 27293, 28051, AND 56808 HAVE A TOTAL COMBINED DUTY OF 3,639.27 AFA.