STATE OF NEVADA

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

DIVISION OF WATER RESOURCES

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STATE ENGINEER

PINE FOREST VALLEY
HYDROGRAPHIC BASIN 2-029

CROP INVENTORY

CALENDAR YEAR 2014

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TABLE OF CONTENTS

Page

ABSTRACT **1**

HYDROGRAPHIC BASIN SUMMARY **2**

PURPOSE AND SCOPE **3**

DESCRIPTION OF THE STUDY AREA **3**

GROUNDWATER LEVELS **3**

METHODS TO ESTIMATE IRRIGATED ACREAGE **4**

METHODS TO ESTIMATE PUMPAGE **4**

TABLES **5**

FIGURES **6**

APPENDIX A. 2014 PINE FOREST VALLEY CROP INVENTORY. **9**

LIST OF TABLES

Page

Table 1. Pine Forest Valley historical irrigated acreage and pumpage data. 5

LIST OF FIGURES

Page

Figure 1. Physiographic map of Pine Forest Valley (Hydrographic Basin 2-029). 6

Figure 2. Map showing Pine Forest Valley farm areas and water level monitoring sites. 7

Figure 3. Graph showing Pine Forest Valley historical irrigated acreage and pumpage. The NIWR method to estimate pumpage was used starting in 2014; estimates may differ significantly from previous years. 8

ABSTRACT

This inventory represents the status and usage of all permitted and certificated groundwater rights for irrigation purposes located within Pine Forest Valley, Hydrographic Basin 2-029, for the year 2014. **Only those groundwater rights associated with irrigation purposes are represented in this report**. For a listing and summary of all other manners of use within the basin please refer to the Nevada Division of Water Resources Hydrographic Basin Summary.

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

For the year 2014, the permitted and certificated groundwater rights for irrigation purposes totaled **8,497 acres** with a total duty of 32,617 acre-feet within Pine Forest Valley. An estimated **7,024 acres** were irrigated and 24,538 acre-feet were pumped during 2014.

HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER	029, REGION 2
HYDROGRAPHIC BASIN NAME	PINE FOREST VALLEY
COUNTIES	HUMBOLDT
MAJOR COMMUNITIES	N/A
DESIGNATED BASIN	DESIGNATED
DENIALS BASED UPON WATER AVAILABILITY	N/A
ESTIMATED IRRIGATION PUMPAGE 2014 (ACRE-FEET)	24,538 *

STATE ENGINEER'S ORDERS

NO. 711 – DESIGNATION OF BASIN	MAY 1, 1978
NO. 831 – NOTICE OF CURTAILMENT	DECEMBER 1, 1983

COMMITTED GROUNDWATER RESOURCE FOR IRRIGATION PURPOSES: 39,597 ACRE-FEET
DATE: MARCH 2016

NOTE: Committed groundwater resource data are accurate for January 2015. 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 Pine Forest Valley Hydrographic Basin (2-029) for the year 2014.

DESCRIPTION OF THE STUDY AREA

The Pine Forest Valley Hydrographic Basin is located in north central Nevada (Figure 1), occupying approximately 528 square miles in Humboldt County. The adjacent hydrographic basins are Pueblo Valley (1-001) to the north, Kings River Valley – Rio King Subarea (2-030A) to the north and east, Kings River Valley – Sod House Subarea (2-030B) to the south and east, Black Rock Desert (2-028) to the south and west and Continental Lake Valley (1-002) to the north and west.

Pine Forest Valley is bounded on the north and east by the Bilk Creek Mountains, to the south by the Jackson Mountains, and to the west by the Pine Forest Range. The Quinn River flows through the southern part of the basin. The valley is approximately 20 miles wide by 41 miles long with basin elevations ranging from approximately 4,200 feet above mean sea level on the valley floor to approximately 8,700 feet in the surrounding mountains. Irrigation occurs primarily in the central part of the basin (Figure 2).

GROUNDWATER LEVELS

Depths to groundwater in Pine Forest Valley are measured by NDWR on an annual basis. Sites at which water level measurements are made include:

029 N41 E32 01BCAA4	029 N41 E32 02ADCB1	029 N41 E32 02CADC1
029 N41 E32 02DACC1	029 N41 E32 03DDDC1	029 N42 E30 23CDDD1
029 N42 E32 11BA1	029 N42 E31 14BCCA1	029 N42 E31 15AAAB1
029 N42 E32 16ADDA1	029 N42 E32 27DBDD1	029 N42 E32 35DACC2
029 N42 E32 36CCCC1	029 N42 E32 36DBBB2	029 N43 E30 12CCCB1
029 N43 E30 13BCCC1	029 N43 E30 24BBCA1	029 N43 E31 01DBAC1
029 N43 E31 02AACC1	029 N43 E31 02BBCD1	029 N43 E31 02BDBA1
029 N43 E31 03BBBB1	029 N43 E31 03DBBB1	029 N43 E31 03DDCD1
029 N43 E31 04DCBB1	029 N43 E32 14BACC1	029 N43 E32 17DADC1
029 N43 E32 19DBDA1	029 N43 E32 20ACBB1	029 N43 E32 20DCDD1
029 N43 E32 21BDCD1	029 N43 E32 29BBBD1	029 N43 E32 30BCDA1
029 N43 E32 35ADAA1	029 N44 E30 24DBAA2	029 N44 E30 25ABAA2
029 N44 E30 26ADCD2	029 N44 E30 36ABAA1	029 N44 E30 36BABB1
029 N44 E31 04DBCC1	029 N44 E31 22CBBB1	029 N44 E31 22DBAD1
029 N44 E31 27CADD1	029 N44 E31 28BBBB2	029 N44 E31 28CBBB2
029 N44 E31 33CAAA2	029 N44 E31 34BCAA1	029 N44 E31 35ABCB1
029 N44 E31 35CCBA1	029 N45 E31 08CA1	029 N45 E31 28AB1
029 N46 E30 13DABB1		

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

METHODS TO ESTIMATE IRRIGATED ACREAGE

This report estimates the number of acres irrigated by the groundwater pumped under permits and certificates issued by the State Engineer. Table 1 and Figure 3 present the current and historic irrigated acreage and pumpage; Appendix A presents estimates detailed by certificate, permit, or vested claim number. The following methods were used to arrive at the estimated acreage:

- Field inspection of the place of use was conducted to estimate the number of acres under cultivation.
- In cases where field inspection of the place of use 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 and the use was irrigation, pumpage was estimated by multiplying the number of hours the well was operated during the past year (determined from an hour meter reading or asking the water user) by the certificated diversion rate.
- Where there were no flow meters or other reliable options for estimating pumping and the use was irrigation, pumping 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. Efficiencies associated with three types of irrigation methods are as follows: pivot at 85%; wheel line or other hand moved sprinklers at 75%; and flood at 60%. The pumpage amount estimated by this method was limited by the duty of the permit. For places where the groundwater rights 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/mapping/et/et_general.cfm. This approach using the NIWR to estimate pumping was used starting in 2014; estimates for 2014 and subsequent years may differ significantly from the estimates of previous years.
- Where lands were irrigated by both surface water and groundwater, the surface water supply was considered when estimating groundwater pumpage.

TABLES

Table 1. Pine Forest Valley historical irrigated acreage and pumpage data.

Year	2010	2011	2012	2013	2014
Acres Irrigated	6,624	6,366	6,656	6,499	7,024
Acre-Feet Pumped	24,156	22,400	25,784	26,169	24,538

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

FIGURES

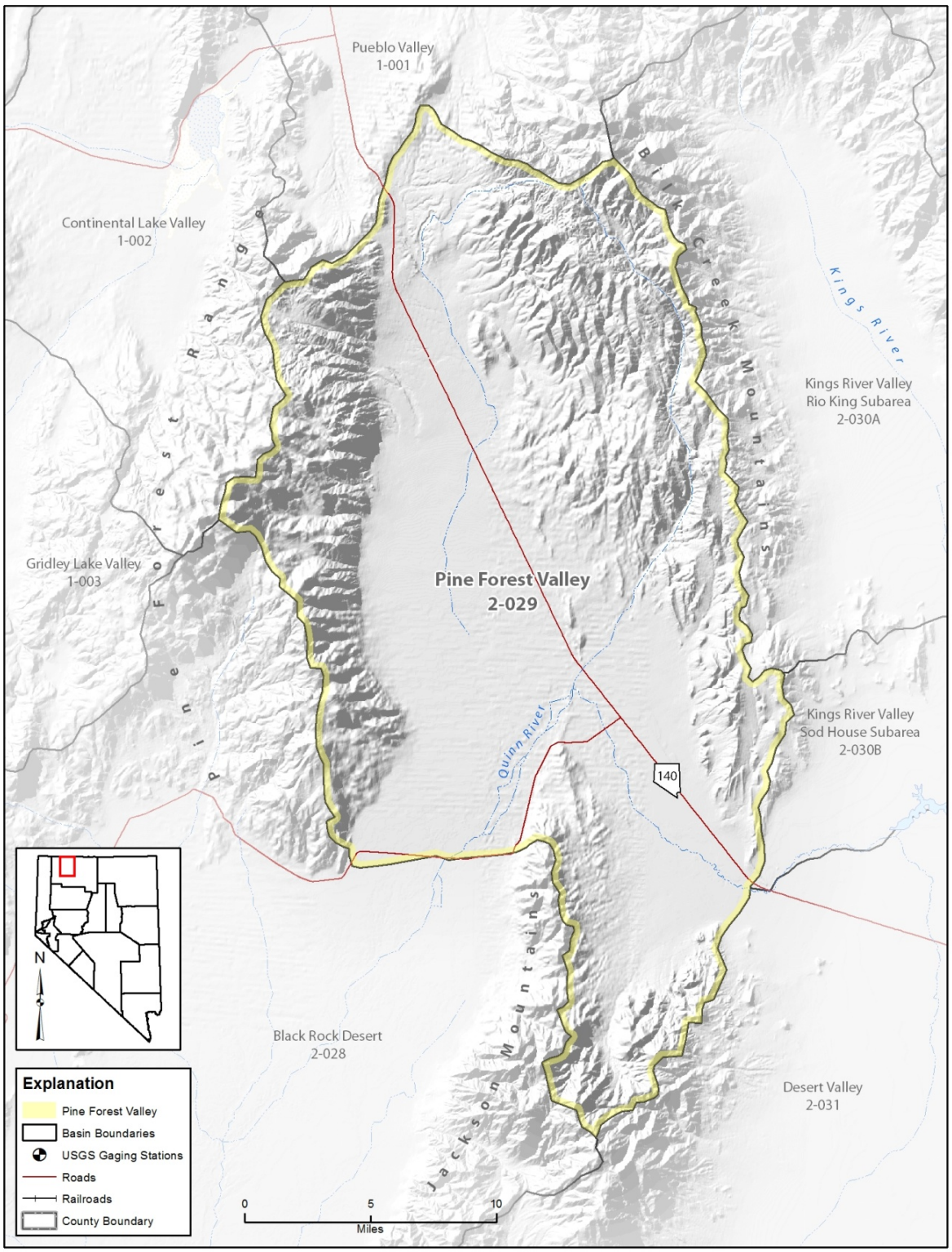

Figure 1. Physiographic map of Pine Forest Valley (Hydrographic Basin 2-029).

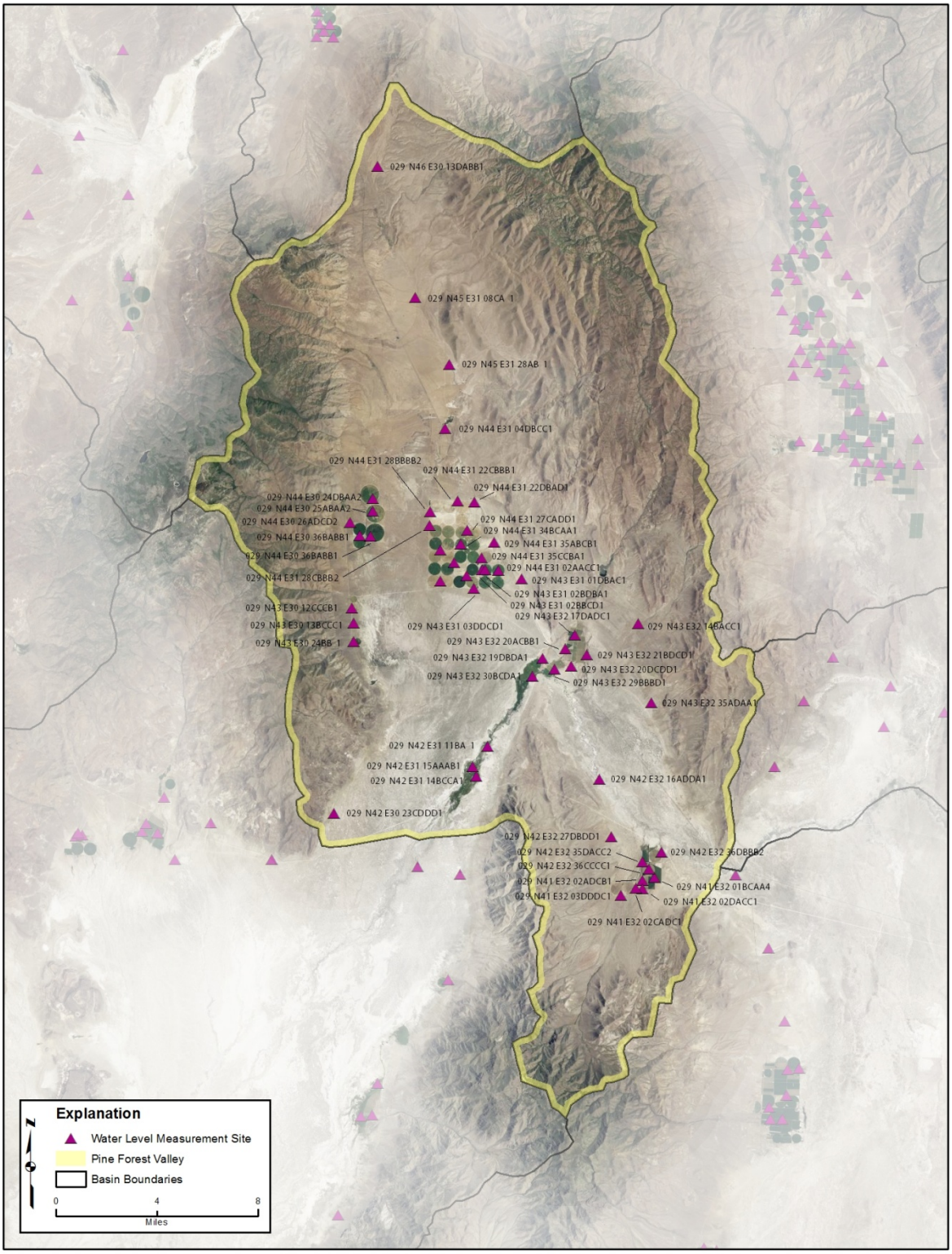

Figure 2. Map showing Pine Forest Valley farm areas and water level monitoring sites.

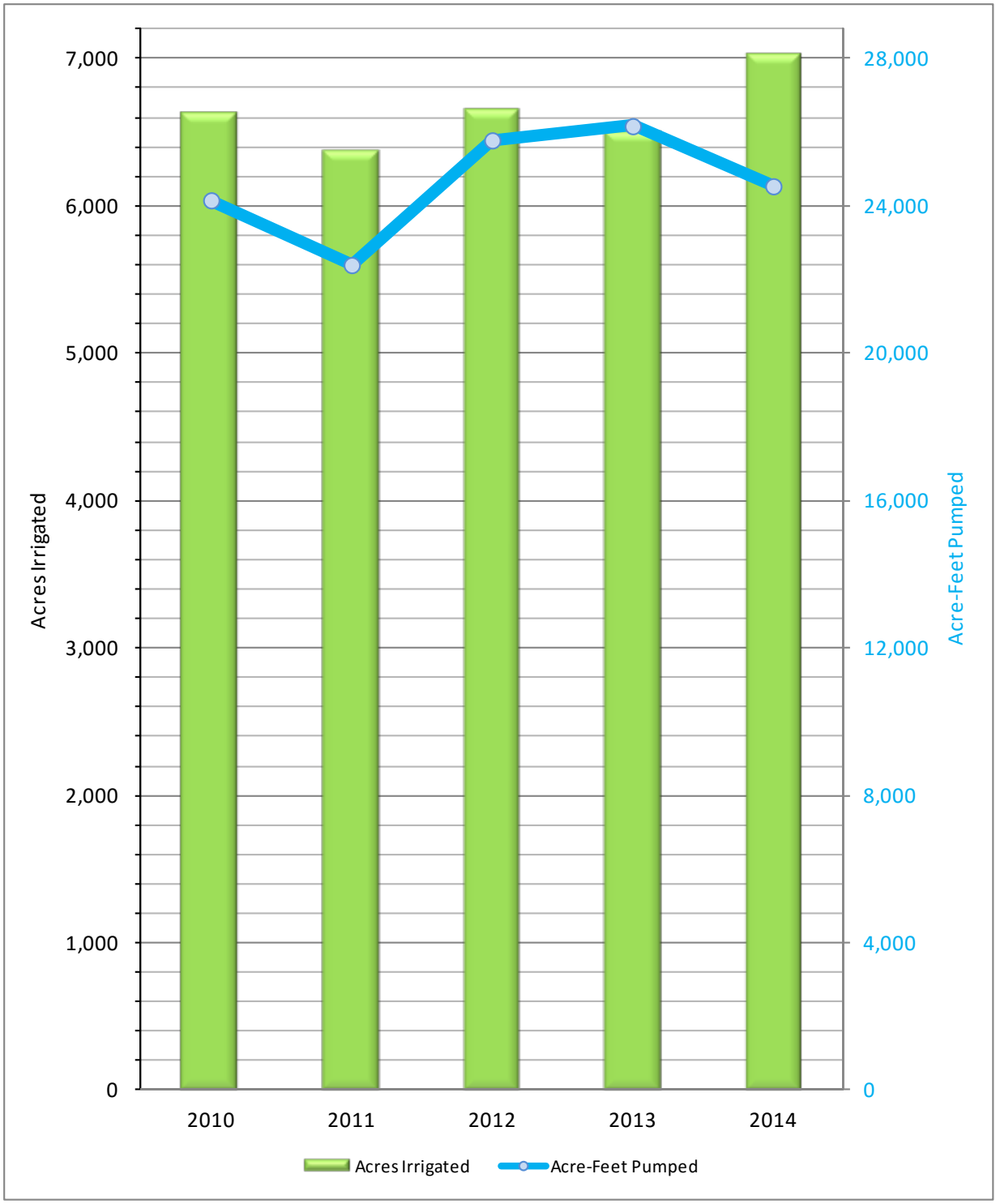

Figure 3. Graph showing Pine Forest Valley historical irrigated acreage and pumpage. The NIWR method to estimate pumpage was used starting in 2014; estimates may differ significantly from previous years.

APPENDIX A. 2014 PINE FOREST VALLEY CROP INVENTORY.

EXPLANATION OF COLUMN HEADINGS

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 to other groundwater rights.
Supplemental Application Number	The application number(s) of the water right(s) that are supplemental to one another.
Permitted Acres	The number of acres defined by the permit or certificate that are eligible to be irrigated.
Supple-mentally Adjusted Permitted Acres	The supplementally adjusted, total number of acres that is eligible to be irrigated under a supplemental group of water rights.
Permitted Duty Acre-Feet	The amount of water that may be pumped in a given year, or season, as defined by the permit or certificate. If there is a supplemental group, the total combined duty is listed as a supplementally adjusted duty.
Supple-mentally Adjusted Duty Acre-Feet	The supplementally adjusted, total combined duty that may be pumped in a given year, or season, for a supplemental group of water rights, expressed in acre-feet. The supplementally adjusted, total combined duty is listed at the end of a supplemental group.
Owner of Record	The owner of the water right as recorded in the records of the State Engineer. A water right may have more than one owner of record. Only the first, alphabetically, is listed in this table.
Crop Type	Indicates whether or not a crop was in production during the water year. If a crop was in production, the common name description of the plants under cultivation if given (e.g. alfalfa).
NIWR (ft)	Net Irrigation Water Requirement, defined to be equal to the annual crop evapotranspiration less the effective precipitation entering the root zone that is available for evaporation or transpiration.

Irrigation Method	The method by which the water is applied to the crop and ground (e.g. pivot).
Irrigation Efficiency	The estimated efficiency of the desired irrigation method used.
Irrigated Acreage	The estimate of the number of acres irrigated associated with a particular water right.
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. N – NIWR Method. D – Duty.
Remarks	Additional remarks.

Crop Inventory and Groundwater Pumpage for Irrigation - Pine Forest Valley - Basin 29, 2014

App No	Status	QQ	Q	Sec	Twn	Rng	Sup	Supplemental Application Number	Permitted Acres	Supplementally Adjusted Permitted Acres	Permitted Duty Acre-Feet	Supplementally Adjusted Duty Acre-Feet	Owner of Record	Crop Type	NIWR (ft)	Irrigation Method	Irrigation Efficiency	Irrigated Acreage	Acreage Estimation Method	Acre-Feet Pumped	Pumpage Estimation Method	Remarks
76242	PER	SW	NW	1	41N	32E	Y	1	765.9	765.9	772.59	3063.6	Happy Creek Inc.	Alfalfa		Flood		109	F, I	713.66	M	77490 surface
														Alfalfa		Pivot		125	F, I			77490 surface
76239	PER	SE	NE	2	41N	32E	Y	1	765.9		228.66		Happy Creek Inc.	Grain		Flood		7	F, I	25.23	M	77490 surface
76240	PER	SE	NE	2	41N	32E	Y	1	765.9		228.66		Happy Creek Inc.									77490 surface
76243	PER	SE	NE	2	41N	32E	Y	1	765.9		162.8		Happy Creek Inc.									77490 surface
76237	PER	NE	SE	2	41N	32E	Y	1	765.9		587.87		Happy Creek Inc.	Alfalfa		Pivot		125	F, I	310.72	M	77490 surface
76244	PER	NE	SE	2	41N	32E	Y	1	765.9		476		Happy Creek Inc.	Grass		Sprinklers		81	F, I	292.10	M	77490 surface
76238	PER	NE	SE	35	42N	32E	Y	1	765.9		913.6		Happy Creek Inc.	Grass		Flood		75	F, I			77490 surface
														Alfalfa		Flood		13	F, I	1290.23	M	77490 surface
														Grass		Pivot		248	F, I			77490 surface
76241	PER	SE	SE	35	42N	32E	Y	1	765.9		483.6		Happy Creek Inc.	Alfalfa		Pivot		125	F, I	187.10	M	
16744	CER	NE	NW	11	42N	31E	Y	13420, Quinn River	685.4	685.4	1814.45	1814.45	Quinn River Crossing									
16745	CER	NW	NE	30	43N	32E	Y	2 Quinn River	630.8	614.23	1535.2		Quinn River Crossing	Past.		Flood		500	F, I	2394.24	M	
16746	CER	NE	NE	20	43N	32E	Y	2	455.5		809.23	2183.12	Quinn River Crossing	Alfalfa		Flood		30	F, I	125.67	M	
79457	PER	SW	NE	20	43N	32E	Y	2	660		1050		Quinn River Crossing	Alfalfa		Flood		280	F, I	1067.31	M	
79459	PER	SW	NE	20	43N	32E	Y	2	34.23		136.9		Quinn River Crossing									
79456	PER	SE	NE	20	43N	32E	Y	2	660		1050		Quinn River Crossing	Alfalfa		Flood		126	F, I	554.62	M	
79460	PER	SE	NE	20	43N	32E	Y	2	34.23		136.9		Quinn River Crossing									
18432	CER	NW	NW	29	43N	32E	Y	Quinn River 2	555.1		2154.2		Quinn River Crossing	G-Hay	3	Flood	60%	96	F, I	432.00	N	
18433	CER	NE	SW	20	43N	32E	Y	Quinn River 2	637.3		2483		Quinn River Crossing	ALF	3.1	Flood	60%	87	F, I	404.55	N	
24257	CER	SW	NW	30	43N	32E	Y	Quinn River 2	201.91		807.64		Quinn River Crossing	Past.	2.5	Flood	60%	65	F, I	243.75	N	
79461	PER	SE	SE	17	43N	32E	Y	2, Bilk Creek	200.56		802.24		Quinn River Crossing	ALF		Flood		125	F, I	493.39	M	
79462	PER	NE	NE	17	43N	32E	Y	2, Bilk Creek	257.55		1030.2		Quinn River Crossing	Pasture		Flood		10	F, I	40.03	M	
26218	CER	SE	NE	16	42N	32E	Y	13421, Quinn River	221.41	221.41	771.89	771.89	Quinn River Crossing					0		0.00		
23690	CER	SW	SW	12	43N	30E	N	23393-4(surface)	43.52	43.52	174.08	174.08	Nuffer, Delia W.	ALF	3.1	Pivot	85%	36.3	F, I	119.15	N	
63559	PER	NW	NW	24	43N	30E	N	3041(surface)	39.13	39.13	99.4	99.4	Nuffer, Delia W.	Alf		Pivot		42	F, I	28.50	M	
38540	CER	NW	NE	25	44N	30E	N		282.7	262.7	1130.8	1130.8	Big Creek Ranch LLC	Grass	3	Pivot	85%	268	F, I	977.41	N	
44420	CER	NW	SE	24	44N	30E	N		262.7	282.7	1050.8	1050.8	Big Creek Ranch LLC	Grain	2.2	Pivot	85%	269	F, I	664.59	N	
38542	CER	NW	NE	36	44N	30E	N		260.3	260.3	1041.2	1041.2	Nilson , Nils Conrad	ALF	3.1	Pivot	85%	260.3	F, I	949.33	N	
28089	CER	NE	NW	36	44N	30E	Y	B-29	251.36	251.36	1005.44	1005.44	Nilson , Nils Conrad	ALF	3.1	Pivot	85%	127	F, I	416.86	N	
								Big Pass Creek						Grain	2.2	Pivot	85%	120	F, I	279.53	N	
46283	CER	NW	SE	3	43N	31E	Y	3	310	717.3	1240	2869.2	Duferrena Lands LLC	Grain		Pivot	85%	118	F, I	291.53	M	
46285	CER	NW	SE	3	43N	31E	Y	3	488.68		1954.72		Duferrena Lands LLC	ALF	3.1	Pivot	85%	124	F, I	452.24	N	
46284	CER	SE	SE	3	43N	31E	Y	3	103		412		Duferrena Lands LLC	Pasture	2.5	Pivot	85%	125	F, I	455.88	N	
46282	CER	SW	NW	35	44N	31E	Y	3	160		640		Duferrena Lands LLC					0	F, I	0.00		
46281	CER	SW	SW	35	44N	31E	Y	3	160		640		Duferrena Lands LLC					0	F, I	0.00		
46717	CER	NE	SW	27	44N	31E	Y	4	1914.62	1914.62	1665.131	7658.48	Egger Enterprises, LLC	Alfalfa	3.1	Pivots	85%	154	F, I	561.65	N	
31025	CAN	NW	NW	3	43N	31E	N		0.00	0.00	0.00	0.00	Moore, Craig	Alfalfa	3.1	Pivot	85%	125	F, I	455.88	N	
46721	CER	SW	SE	34	44N	31E	Y	5	1960.6	2438.6	1136	9754.4	Egger Enterprises, LLC	Alfalfa	3.1	Pivot	85%	195	F, I	711.18	N	
46722	CER	NW	NE	28	44N	31E	Y	4	1914.62		3901.85		Egger Enterprises, LLC	Alfalfa	3.1	Pivot	85%	128	F, I	466.82	N	
82273	PER	SE	NE	27	44N	31E	Y	4	1914.62		3011.72		Carol J. Egger Living Trust						F, I			
50998	CER	SW	NW	27	44N	31E	Y	4	1914.62		1505.86		Egger Enterprises, LLC	Alfalfa	3.1	Pivots	85%	259	F, I	944.59	N	
46724	CER	SE	NE	33	44N	31E	Y	5	1960.6		1280		Egger Enterprises, LLC	Alfalfa	3.1	Pivot	85%	128	F, I	466.82	N	
46732	CER	SE	NE	33	44N	31E	Y	5	1960.6		1232		Egger Enterprises, LLC									
46725	CER	NE	SW	4	43N	31E	Y	5	1960.6		1264		Egger Enterprises, LLC	Alfalfa	3.1	Pivots	85%	254	F, I	926.35	N	
46726	CER	NW	SW	28	44N	31E	Y	4	1914.62		1272		Egger Enterprises, LLC	Alfalfa	3.1	Pivot	85%	129	F, I	470.47	N	
46727	CER	NW	SW	28	44N	31E	Y	4	1914.62		1280		Egger Enterprises, LLC									
46728	CER	NW	NW	28	44N	31E	Y	4	1914.62		1272		Egger Enterprises, LLC	Alfalfa	3.1	Pivot	85%	124	F, I	452.24	N	
														Grain	2.2	Pivot	85%	125	F, I	323.53	N	
46729	CER	SW	SW	33	44N	31E	Y	5	1960.6		1280		Egger Enterprises, LLC	Alfalfa	3.1	Pivot	85%	129	F, I	470.47	N	
46730	CER	NW	NW	34	44N	31E	Y	5	1960.6		1280		Egger Enterprises, LLC	Alfalfa	3.1	Pivot	85%	124	F, I	452.24	N	
46731	CER	NE	SW	33	44N	31E	Y	5	1960.6		1232		Egger Enterprises, LLC	Alfalfa	3.1	Pivots	85%	258	F, I	940.94	N	
46733	CER	NE	SW	33	44N	31E	Y	5	1960.6		3909.44		Egger Enterprises, LLC									
69361	PER	SW	NW	33	44N	31E	Y	4	1960.6		1955		Carol J. Egger Living Trust	Alfalfa	3.1	Pivot	85%	130	F, I	474.12	N	
46734	CER	NW	SW	21	44N	31E	Y	4	1914.62		1280		Egger Enterprises, LLC	Alfalfa	3.1	Pivot	85%	152	F, I	554.35	N	
75949	PER	NW	SW	22	44N	31E	Y	4	1914.62		977.36		Egger Living Trust	Alfalfa		Pivot		130	F, I	335.64	M	
75950	PER	NW	SW	22	44N	31E	Y	4	1914.62		977.36		Egger Living Trust									
45190	CER	SW	NE	4	43N	31E	Y	5	1960.6		1954.72		Egger Enterprises, LLC	Grain	2.2	Pivot	85%	129	F, I	333.88	N	

Crop Inventory and Groundwater Pumpage for Irrigation - Pine Forest Valley - Basin 29, 2014

App No	Status	QQ	Q	Sec	Twn	Rng	Sup	Supplemental Application Number	Permitted Acres	Supplementally Adjusted Permitted Acres	Permitted Duty Acre-Feet	Supplementally Adjusted Duty Acre-Feet	Owner of Record	Crop Type	NIWR (ft)	Irrigation Method	Irrigation Efficiency	Irrigated Acreage	Acreage Estimation Method	Acre-Feet Pumped	Pumpage Estimation Method	Remarks
25228	CER	SW	NE	2	43N	31E	Y	[5]	158		632		Egger Enterprises, LLC	Grain	2.2	Pivot	85%	128	F, I	331.29	N	
														Alfalfa	3.1	Pivot	85%	130	F, I	474.12	N	
27563	CER	SE	NW	2	43N	31E	Y	[5]	160		640		Egger Enterprises, LLC									
67017	PER	NE	SE	2	43N	31E		[5]	160		640		Carol J. Egger Living Trust	Alfalfa		Pivot		122	F, I	255.55	M	
69362	PER	Lt	1	2	43N	31E		[5]	2438.6		1955		Carol J. Egger Living Trust	Alfalfa	3.1	Pivot	85%	129	F, I	470.47	N	
														Grass	3	Pivot	85%	125	F, I	455.88	N	

Total Suplementally Adjusted Permitted/Certificated Acreage 8,497.17

Total Suplementally Adjusted Permitted/Certificated Pumpage 32,616.86

Total Estimated Acreage 7,023.60

Total Estimated Pumpage 24,538.11

[1] PERMITS 76237, 76238, 76239, 76240, 76241, 76242, 76243, AND 76244 HAVE A TOTAL COMBINED DUTY OF 3,063.6 AFA.

[2] PERMITS 16746, 79456, 79457, 79459, 79460, 79461, AND 79462 HAVE A TOTAL COMBINED DUTY OF 2183.12 AFA.

[3] PERMITS 46281, 46282, 46283, 46284, AND 46285 HAVE A TOTAL COMBINED DUTY OF 2,869.2 AFA.

[4] PERMITS 46717, 46722, 46726, 46727, 46728, 46734, 50998, 69361, 75949, 75950, AND 82273 HAVE A TOTAL COMBINED DUTY OF 7,658.48 AFA.

[5] PERMITS 25228, 27563, 45190, 46721, 46724, 46725, 46729, 46730, 46731, 46732, 46733, 67017, AND 69362 HAVE A TOTAL COMBINED DUTY OF 9,754.4 AFA.