STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

DIVISION OF WATER RESOURCES

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KINGS RIVER VALLEY - RIO KING SUBAREA (HYDROGRAPHIC BASIN 2-030A)

CROP INVENTORY

2013

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ABSTRACT

This inventory represents the status and usage of all permitted and certificated groundwater rights for irrigation purposes located within Kings River Valley - Rio King Subarea, Hydrographic Basin 2-030A, 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 permitted and certificated groundwater rights for irrigation purposes totaled **15,308 acres** with a total duty of 61,424 acre-feet within Kings River Valley - Rio King Subarea. An estimated **13,082 acres** were irrigated and 50,918 acre-feet were pumped during 2013.

HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER	030A, REGION 2
HYDROGRAPHIC BASIN NAME	KINGS RIVER VALLEY - RIO KING SUBAREA
COUNTIES	HUMBOLDT
MAJOR COMMUNITIES	N/A
DESIGNATED BASIN	DESIGNATED
DENIALS BASED UPON WATER AVAILABILITY	800, IRD DEN, 7/16/1965 811, IRD DEN, 7/19/1965 3167, IRR DEN, 4/4/1985
ESTIMATED IRRIGATION PUMPAGE 2013 (ACRE-FEET)	50,918*
STATE ENGINEER'S ORDERS	
NO. 740 – DESIGNATION OF BASIN	APRIL 2, 1980
NO. 743 – NOTICE OF CURTAILMENT	APRIL 24, 1980

COMMITTED GROUNDWATER RESOURCE FOR IRRIGATION PURPOSES: 61,424 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 manner of uses 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, and to estimate the amount of groundwater pumped for irrigation purposes within the Kings River Valley - Rio King Subarea Hydrographic Basin 2-030A, for the year 2013.

DESCRIPTION OF THE STUDY AREA

The Kings River Valley - Rio King Subarea Hydrographic Basin is located in north central Nevada (Figure 1). Kings River Valley - Rio King Subarea occupies approximately 300 square miles in Humboldt County. The adjacent hydrographic basins are Quinn River Valley – McDermitt Subarea (2-033B) to the north and east, Quinn River Valley – Orovada Subarea (2-033A) to the south and east, Kings River Valley – Sod House Subarea (2-030B) to the south Pine Forest Valley (2-029) to the west and Pueblo Valley (1-001) to the north and west.

Kings River Valley - Rio King Subarea is bounded on the north by Oregon and the Granite Range, to the east by the Bilk Creek Mountains, to the south by the Coyote Hills and to the west by the Montana Mountains. Kings River flows through the central part of the basin. The valley is approximately 26 miles wide by 29 miles long with basin elevations ranging from approximately 4,200 feet above mean sea level on the valley floor to approximately 8,500 feet above mean sea level in the surrounding mountains. Irrigation occurs primarily in the central part of the basin (Figure 2).

FIGURE 1. KINGS RIVER VALLEY – RIO KING SUBAREA BASIN 2-030A

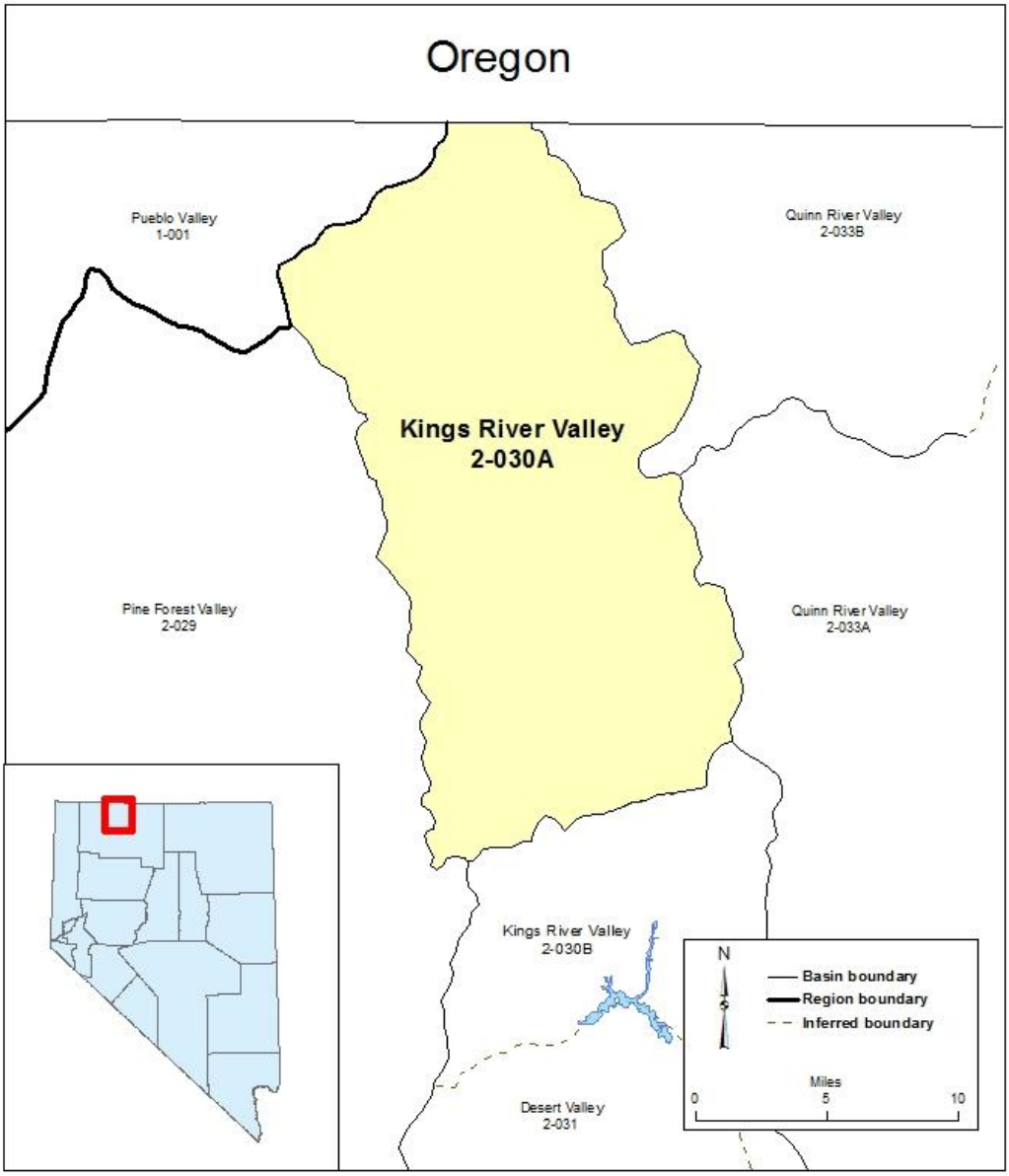
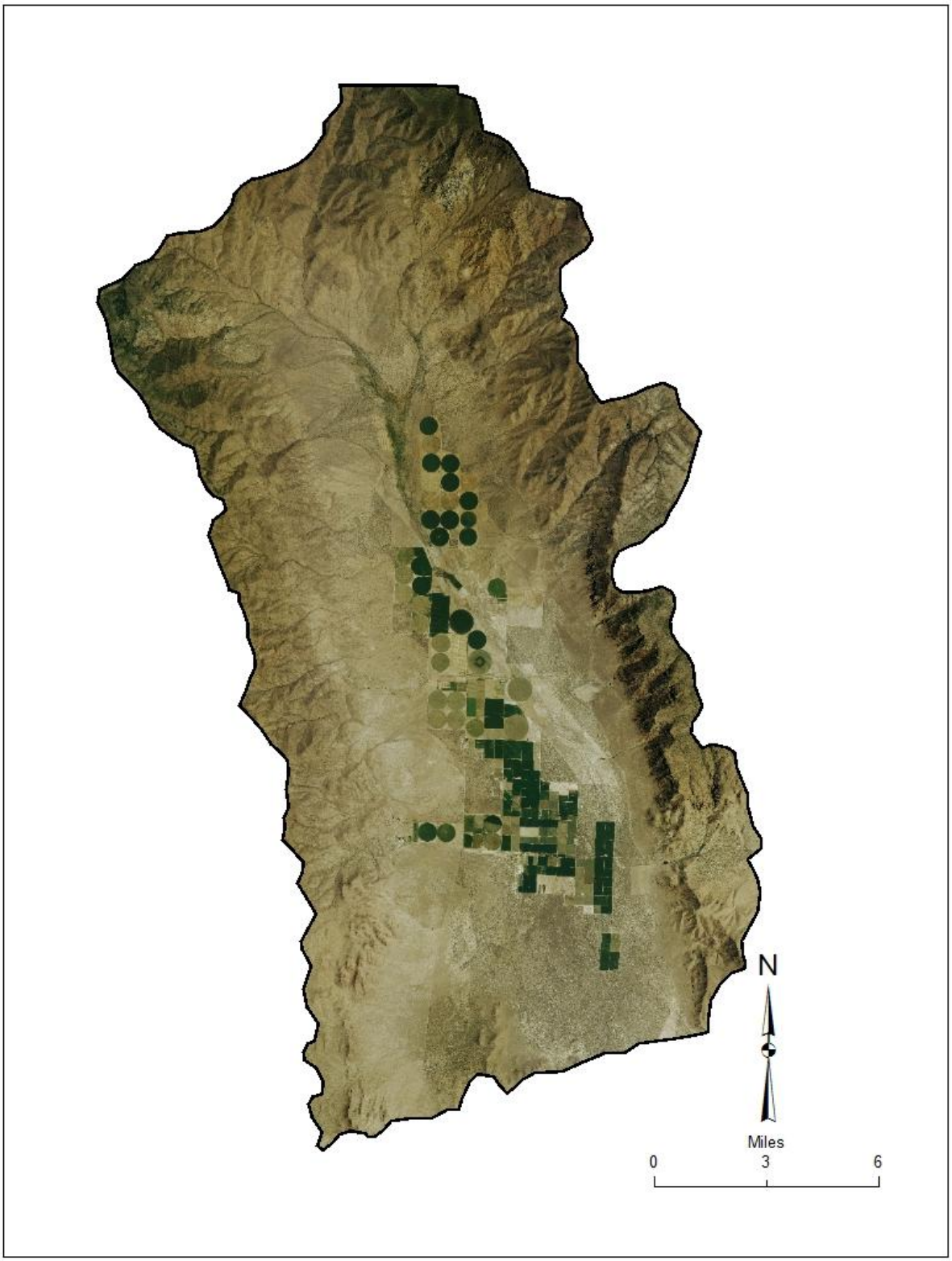


FIGURE 2. KINGS RIVER VALLEY - RIO KING SUBAREA IRRIGATED ACREAGE



NATIONAL AGRICULTURAL IMAGERY PROGRAM (NAIP) 2013

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 is not practical, aerial and/or satellite imagery are 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:

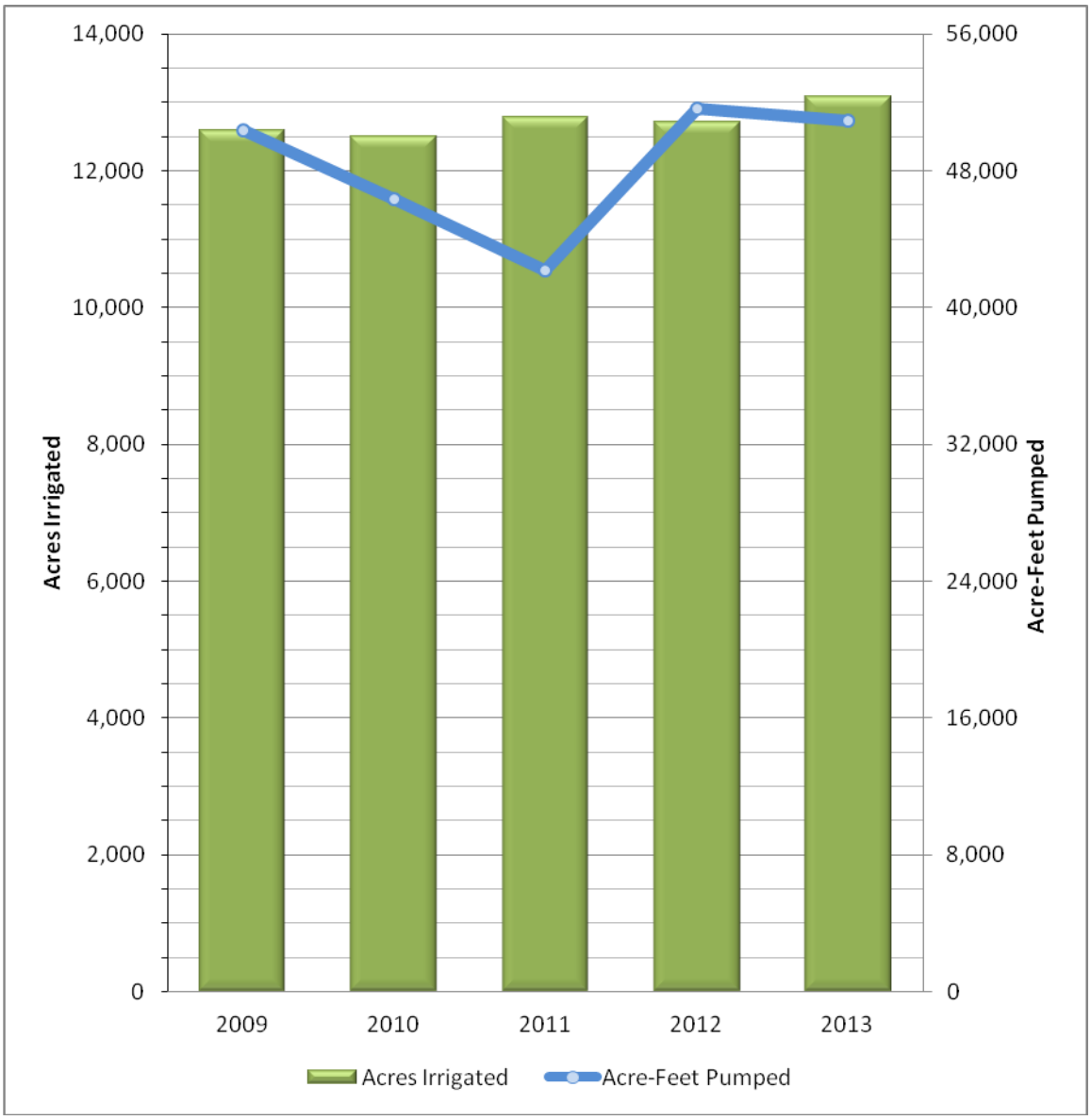
- Where totalizing meters were in place, meter readings were taken and compared with previous data (if available).
- Where meters were not in place, the place of use was inspected to estimate the amount of acreage under cultivation. The number of acres under cultivation was then multiplied by certificated or permitted duty rate associated with that acreage.
- If there were no acres under cultivation, zero pumpage was recorded.

APPENDIX A

KINGS RIVER VALLEY - RIO KING SUBAREA HISTORICAL CROP INVENTORY

KINGS RIVER VALLEY – RIO KING SUBAREA
HISTORICAL CROP INVENTORY

Year	2009	2010	2011	2012	2013
Acres Irrigated	12,592	12,496	12,786	12,711	13,082
Acre-Feet Pumped	50,369	46,322	42,175	51,645	50,918



Note: Historical pumpage data modified from previously published data.

APPENDIX B

2013 KINGS RIVER VALLEY - RIO KING SUBAREA 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.
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.
Supple-mentally 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.
Supple-Mentally 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 - Kings River Valley Rio King Subarea - Basin 030A, 2013

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	Irrigation Method	Irrigated Acres	Acreage Estimation Method	Acre-Feet Pumped	Pumpage Estimation Method
20085	CER	NE	NE	16	44N	34E			308.42	308.42	1,233.68	1,233.68	BUELL, JAMES R., V.M.D.	Alfalfa	Flood	321.00	I	1,252.00	M
17331	CER	NW	NW	27	44N	34E			315.60	315.60	1,262.40	1,262.40	BUELL, JAMES R., V.M.D.	Pasture	Flood	313.00	I	1,252.00	D
17060	CER	NE	NE	9	44N	34E	Y		287.00	287.00	1,148.00	1,148.00	BUELL, JAMES R., V.M.D.	Alfalfa	Flood	294.00	I	1,252.00	M
19523	CER	SW	NW	13	45N	33E			348.90	348.90	1,395.60	1,395.60	BUELL, JAMES R., V.M.D.	Alfalfa	Pivot	215.00	I	790.42	M
59617	PER	NW	NW	11	45N	33E	Y	1	921.50	990.80	174.00	3,958.37	BUELL, JAMES R., V.M.D.	Alfalfa	Flood	180.00	I	591.72	M
59622	PER	NW	NW	11	45N	33E	Y	1	921.50		624.80		BUELL, JAMES R., V.M.D.						
59624	PER	NW	NW	11	45N	33E	Y	1	921.50		217.52		BUELL, JAMES R., V.M.D.						
25798	CER	NW	SE	11	45N	33E	Y		294.80	294.80	1,179.20	1,179.20	BUELL, JAMES R., V.M.D.	Alfalfa	Pivot	215.00	I	634.65	M
59618	PER	NW	NW	14	45N	33E	Y	1	921.50		594.00		BUELL, JAMES R., V.M.D.	Alfalfa	Flood	152.00	I	978.38	M
														Alfalfa	Pivot	125.00	I		
59619	PER	NW	SW	14	45N	33E	Y	1	921.50		630.40		BUELL, JAMES R., V.M.D.	Alfalfa	Flood	145.00	I	870.83	M
59621	PER	NW	SE	14	45N	33E	Y	1	921.50		533.20		BUELL, JAMES R., V.M.D.	Alfalfa	Flood	145.00	I	788.12	M
65606	PER	NW	SE	14	45N	33E	Y	1	990.80		424.36			Alfalfa	Flood	130.00	I		
65607	PER	NW	SE	14	45N	33E	Y	1	990.80		589.20								
65608	PER	NW	SE	14	45N	33E	Y	1	990.80		103.62								
65609	PER	NW	SE	14	45N	33E	Y	1	990.80		103.62								
59616	PER	SW	SW	14	45N	33E	Y	1	921.50		522.00		BUELL, JAMES R., V.M.D.	Alfalfa	Pivot	125.00	I	897.53	M
82212	PER	NW	SW	25	45N	33E	Y	2	160.00	2,376.30	640.00	9,237.30	BUELL, JAMES R., V.M.D.	Alfalfa	Pivot	120.00	I	562.96	M
82220	PER	SE	NW	25	45N	33E	Y	2	160.00		640.00								
82226	PER	SE	NW	25	45N	33E	Y	2	190.50		284.36								
82227	PER	SE	NW	25	45N	33E	Y	2	190.50		284.36								
82214	PER	NW	NW	26	45N	33E	Y	2	305.10		1,145.78		BUELL, JAMES R., V.M.D.	Alfalfa	Pivot	127.00	I	670.64	M
82215	PER	SW	NE	26	45N	33E	Y	2	316.10		1,237.53		BUELL, JAMES R., V.M.D.	Alfalfa	Pivot	129.00	I	485.47	M
82225	PER	SW	SW	26	45N	33E	Y	2	319.40		1,277.60		BUELL, JAMES R., V.M.D.	Alfalfa	Pivot	127.00	I	457.36	M
82222	PER	NE	SW	23	45N	33E	Y	2	120.00		480.00		BUELL, JAMES R., V.M.D.	Past	Flood	193.00	I	506.46	M
82221	PER	SW	NE	24	45N	33E	Y	2	160.00		640.00		BUELL, JAMES R., V.M.D.	Alfalfa	Flood	150.00	I	900.99	M
82223	PER	SW	NW	24	45N	33E	Y	2	156.80		627.20		BUELL, JAMES R., V.M.D.	Alfalfa	Flood	150.30	I	682.45	M
82224	PER	SW	NW	24	45N	33E	Y	2	31.20		124.80		BUELL, JAMES R., V.M.D.						
82213	PER	NE	SE	24	45N	33E	Y	2	124.60		498.40		BUELL, JAMES R., V.M.D.	Alfalfa	Flood	156.00	I	826.90	M
82218	PER	SW	SW	24	45N	33E	Y	2	133.00		532.00		BUELL, JAMES R., V.M.D.	Alfalfa	Pivot	128.00	I	1,169.35	M
82219	PER	SW	SW	24	45N	33E	Y	2	127.60		510.40		BUELL, JAMES R., V.M.D.						
59651	ABR	NE	SW	25	45N	33E	Y						BUELL, JAMES R., V.M.D.	Alfalfa	Flood	185.00	I	1,309.91	M
60582	ABR	NE	SW	25	45N	33E	Y						BUELL, JAMES R., V.M.D.						
60583	ABR	NE	SW	25	45N	33E	Y						BUELL, JAMES R., V.M.D.						
82216	PER	SE	NE	25	45N	33E	Y	2	153.80		615.20		BUELL, JAMES R., V.M.D.	Grain	Flood	129.00	I	937.68	M
82217	PER	SE	NE	25	45N	33E	Y	2	144.80		579.20		BUELL, JAMES R., V.M.D.	Alfalfa	Pivot	223.00	I		
82211	PER	SW	NW	19	45N	34E	Y	2	145.90		583.60		BUELL, JAMES R., V.M.D.	Alfalfa	Pivot	220.00	I	661.13	M
														Alfalfa	Flood	95.00	I		
80897	PER	SW	SW	14	46N	33E	Y	3	309.70	1,877.28	1,238.80	7,132.63	BUELL, JAMES R., V.M.D.						
17104	CER	SE	SW	14	46N	33E	Y	3	105.40		421.60		BUELL, JAMES R., V.M.D.						
25799	CER	SE	SE	21	46N	33E			288.30	288.30	1,022.70	1,022.70	BUELL, JAMES R., V.M.D.						
17102	CER	SW	NW	25	46N	33E	Y	3	283.50		1,134.00			Grass	Pivot	121.00	I	865.10	M
														Alfalfa	Pivot	125.00	I		
80533	PER	SW	NW	25	46N	33E	Y	3	32.80		48.96		BUELL, JAMES R., V.M.D.	Alfalfa	Pivot	125.00	I	745.35	M
80534	PER	SW	NW	26	46N	33E	Y	3	4.40		6.57		BUELL, JAMES R., V.M.D.	Alfalfa	Pivot	128.00	I		
80535	PER	SW	NW	27	46N	33E	Y	3	4.40		6.57		BUELL, JAMES R., V.M.D.						
80536	PER	SW	NW	28	46N	33E	Y	3	11.58		17.29		BUELL, JAMES R., V.M.D.						
80537	PER	SW	NW	29	46N	33E	Y	3	32.80		48.96		BUELL, JAMES R., V.M.D.						

Crop Inventory and Groundwater Pumpage for Irrigation - Kings River Valley Rio King Subarea - Basin 030A, 2013

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	Irrigation Method	Irrigated Acres	Acreage Estimation Method	Acre-Feet Pumped	Pumpage Estimation Method
80538	PER	SW	NW	30	46N	33E	Y	[3]	11.58		17.29		BUELL, JAMES R., V.M.D.						
80539	PER	SW	NW	31	46N	33E	Y	[3]	119.20		476.80		BUELL, JAMES R., V.M.D.						
21327	CER	NE	SW	26	46N	33E	Y	[3]	284.60		559.44		BUELL, JAMES R., V.M.D.	Alfalfa	Pivot	255.00	I	253.51	M
16590	CER	NW	NE	26	46N	33E	Y	[3]	306.50		899.00		BUELL, JAMES R., V.M.D.	Alfalfa	Pivot	130.00	I	743.94	M
21323	CER	SE	SE	26	46N	33E	Y	[3]	284.60		1,138.40		BUELL, JAMES R., V.M.D.	Alfalfa	Pivot	127.00	I	483.63	M
16816	CER	NE	NE	27	46N	33E	Y	[3]	69.80		279.20		BUELL, JAMES R., V.M.D.	Alfalfa	Pivot	130.00	I	241.26	M
17392	ABR	NE	NE	15	46N	33E	Y						BUELL, JAMES R., V.M.D.						
21324	CER	NE	NE	22	46N	33E	Y	[3]	309.70		475.08		BUELL, JAMES R., V.M.D.						
16589	ABR	NW	NW	23	46N	33E	Y						BUELL, JAMES R., V.M.D.	Alfalfa	Pivots	125.00	I	384.73	M
21321	CER	NE	SW	23	46N	33E	Y	[3]	101.10		404.40		BUELL, JAMES R., V.M.D.	Grass Hay	Pivot	125.00	I	330.40	M
78003	PER	SE	SW	35	46N	33E			145.50	145.50	582.00	582.00	BUELL, JAMES R., V.M.D.	Alfalfa	Pivot	246.00	I	1,009.49	M
19369	CER	SE	SE	34	46N	33E	Y	[3]	168.90		675.60		BUELL, JAMES R., V.M.D.	Alfalfa	Pivots	246.00	I	704.23	M
65394	PER	NE	NE	34	46N	33E	Y	[3]	149.60		598.40		BUELL, JAMES R., V.M.D.						
25133	CER	SE	NW	11	44N	33E			33.40	33.40	133.60	133.60	UGANDE, DANIEL	Alfalfa	Pivot	130.00	I	520.00	D
30858	CER	SE	NW	11	44N	33E			184.44	184.44	737.76	737.76	UGANDE, DANIEL	Alfalfa	Flood	42.00	I	168.00	D
39842	CER	SW	NE	11	44N	33E			173.07	173.07	692.28	692.28	UGANDE, DANIEL	Alfalfa	Pivot	125.00	I	500.00	D
21329	CER	NW	NW	12	44N	33E	Y	16407	160.00	319.80	640.00	1,279.20	BLAND, CHARLOTTE A.	Alfalfa	Pivot / Flood	300.00	I	1,200.00	D
16407	CER	NW	NW	12	44N	33E	Y	21329	319.80		1,279.20								
21336	CER	NW	SW	12	44N	33E	Y	16397	158.30	313.90	633.20	1,255.60	BLAND, CHARLOTTE A.	Alfalfa	Pivot / Flood	252.00	I	1,008.00	D
16397	CER	NW	SW	12	44N	33E	Y	21336	313.90		1,255.60		COCKEYE LAND & LIVESTOCK INC.						
17674	CER	NW	NW	6	44N	34E			301.90	301.90	1,207.60	1,207.60	MESTRE, RON & VELDA	Alfalfa	Flood	252.00	I	1,008.00	D
21310	CER	NW	NE	6	44N	34E	Y	17303	320.00	320.00	1,276.96	1,276.96	ALLEN, CLYDE H.	Alfalfa	Flood	325.00	I	175.75	M
17303	CER	NW	NE	6	44N	34E	Y	21310	171.50		686.00		ALLEN, CLYDE H.						
16409	CER	NW	NE	31	45N	34E			279.70	279.70	1,118.80	1,118.80	FEDERAL LAND BANK OF BERKELEY	Alfalfa	Flood	297.00	I	1,039.50	M
22063	CER	NW	NE	31	45N	34E			154.60	154.60	618.40	618.40	COCKEYE LAND & LIVESTOCK INC.						
17056	CER	NW	NW	31	45N	34E			307.80	307.80	1,231.20	1,231.20	ALLEN, CLYDE H.	Alfalfa	Flood	222.00	I	888.00	D
16375	CER	NW	NW	7	44N	34E	Y	[4]	311.78	619.90	1,247.12	2,479.60	MURATORE, ARLENE J.	Alfalfa	Flood	229.00	I	916.00	D
66851	CER	SE	NW	7	44N	34E	Y	[4]	135.60		542.40		MURATORE, ARLENE J.	Alfalfa	Flood	130.00	I	1,951.56	M
66852	CER	SE	NW	7	44N	34E	Y	[4]	135.60		542.40		MURATORE, ARLENE J.						
16376	CER	NW	SW	7	44N	34E	Y	[4]	308.10		1,232.40		MURATORE, CHARLES M. & ARLENE J.	Alfalfa	Flood	124.00	I	496.00	D
21342	CER	NW	SW	7	44N	34E	Y	[4]	156.00		84.00								
24703	CER	NW	SW	5	44N	34E			320.00	320.00	1,280.00	1,280.00	FULKROD, DELORES J.	Alfalfa	Flood	270.00	I	1,080.00	D
29727	CER	NE	SE	5	44N	34E	Y	45764	319.04	319.04	1,276.16	1,276.16	RANDOLPH L. SMITH FAMILY TRUST	Grass Hay	Flood	75.00	I	300.00	D
45764	PER		LT0	5	44N	34E	Y	29727	319.04		1,276.16		RANDOLPH L. SMITH FAMILY TRUST	Alfalfa	Flood	97.00	I	626.13	M
														Grain	Flood	25.00	I		
40584	CER	NW	NW	17	44N	34E			153.50	153.50	614.00	614.00	SMITH, JERREL D.	Alfalfa	Flood	174.00	I	696.00	D
40585	CER	NW	NE	17	44N	34E			145.00	145.00	580.00	580.00	SMITH, JERREL D.	Alfalfa	Flood	180.00	I	720.00	D
28341	CER	NE	SW	17	44N	34E	Y	40583	160.20	160.20	640.80	640.80	KHAN, MOHAMMAD HUSSAIN	Alfalfa	Flood	40.00	I	160.00	D
40583	PER	NE	SW	17	44N	34E	Y	28341	160.20	160.20	640.80	640.80	KHAN, MOHAMMAD HUSSAIN						
40582	PER	NW	SW	17	44N	34E	Y	40586	161.80	161.80	647.20	647.20	KHAN, MOHAMMAD HUSSAIN						
40586	PER	NW	SW	17	44N	34E	Y	40582	161.80	161.80	647.20	647.20	KHAN, MOHAMMAD						
23615	CER	NW	NW	8	44N	34E			296.40	296.40	1,135.20	1,135.20	LAWSON, LEONARD E. & KRISTA R.	Alfalfa	Flood	284.00	I	1,136.00	D
73918	CER	SW	SW	8	44N	34E			18.55	18.55	68.30	68.30	LAWSON, LEONARD E. & KRISTA R.	Alfalfa	Sprinklers	12.40	I	43.40	M
15735	CER	NW	NE	8	44N	34E	Y	34406	299.93	300.31	586.88	1,199.72	TOBIASSON, ALBERT L.	Alfalfa	Flood	142.00	I	568.00	D
34406	CER	NE	NE	8	44N	34E	Y	15735	153.21		612.84		TOBIASSON, ALBERT L.	Alfalfa	Flood	135.00	I	540.00	D
45038	CER	NW	NW	16	44N	34E	Y	31030, 34919	317.90	317.90	1,271.60	1,271.60	TOBIASSON, ALBERT L.	Alfalfa	Flood	154.50	I	618.00	D
31030	CER	NW	NW	16	44N	34E	Y	34919, 45038	317.90		1,271.60		TOBIASSON, ALBERT L.	Alfalfa	Flood	148.00	I	592.00	D
34919	CER	NW	NW	16	44N	34E	Y	31030, 45038	317.90		1,271.60		TOBIASSON, ALBERT L.						
50180	CER	NE	NE	20	44N	34E	Y	80148	154.18	154.18	602.48	616.72	TOBIASSON, ALBERT L.	Alfalfa	Flood	116.00	I	464.00	D

Crop Inventory and Groundwater Pumpage for Irrigation - Kings River Valley Rio King Subarea - Basin 030A, 2013

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	Irrigation Method	Irrigated Acres	Acreage Estimation Method	Acre-Feet Pumped	Pumpage Estimation Method
16864	CER	NE	NE	20	44N	34E			115.77	115.77	463.08	463.08	TOBIASSON, ALBERT L.						
80148	PER	NW	NW	21	44N	34E	Y	50180	115.77		616.72		TOBIASSON, ALBERT L.	Alfalfa	Flood	154.00	I	937.33	M
15622	CER	NW	NE	18	44N	34E			314.55	314.55	1,258.20	1,258.20	FRANK, ROSE M	Alfalfa	Flood	271.00	I	1,084.00	D
														Grain	Flood	30.00	I		
60387	PER	NE	NW	3	45N	33E	Y	[5]	1,096.06	1,096.06	735.20	4,145.85	DB & B MILLER	Alfalfa	Pivots	179.00	I	497.07	M
60388	PER	SE	SE	3	45N	33E	Y	[5]	1,096.06		554.00		DB & B MILLER	Alfalfa	Pivot	295.00	I	492.66	M
60389	PER	NW	SW	3	45N	33E	Y	[5]	1,096.06		1,003.84		DB & B MILLER	Alfalfa	Pivot	125.00	I	952.94	M
									1,096.06					Grain	Sprinklers	22.00	I		
60391	PER	SE	NW	10	45N	33E	Y	[5]	1,096.06		907.44		DB & B MILLER	Alfalfa	Pivot	131.00	I	487.16	M
									1,096.06					Grain	Sprinklers	25.00	I		
64460	PER	SE	NE	10	45N	33E	Y	[5]	1,096.06		3,496.78		DB & B MILLER	Alfalfa	Pivot	140.00	I	971.54	M
60390	PER	SE	NE	10	45N	33E	Y	[5]	1,096.06		259.36		DB & B MILLER						
60392	PER	SE	NE	10	45N	33E	Y	[5]	1,096.06		54.81		DB & B MILLER						
60394	PER	SE	NE	10	45N	33E	Y	[5]	1,096.06		98.47		DB & B MILLER						
60393	PER	NW	NE	15	45N	33E	Y	[5]	1,096.06		532.73		DB & B MILLER	Alfalfa	Pivot	120.00	I	319.15	M
														Grain	Sprinklers	37.00			
17785	CER	NW	NW	36	45N	33E			317.24	317.24	1,268.96	1,268.96	ROOKSTOOL, WAYNE N. & HELEN	Alfalfa	Flood	317.24	I	1,268.96	D
17035	CER	SE	SE	1	45N	34E			272.50	272.50	1,090.00	1,090.00	DB & B MILLER	Alfalfa	Pivot	135.00	I	472.50	M
16591	CER	NE	NE	7	45N	34E	Y	21326	307.70	307.70	1,230.80	1,230.80	DB & B MILLER	Alfalfa	Pivots	225.00	I	900.00	D
21326	CER	NE	NE	7	45N	34E	Y	16591	148.90		554.26		DB & B MILLER						
17039	CER	NW	SW	36	46N	33E			291.60	291.60	1,166.40	1,166.40	MCERQUIAGA, DEANN	Grain	Pivot	100.00	I	400.00	D
														Alfalfa	Pivot	120.00	I	480.00	D

Total Suplementally Adjusted Permitted/Certificated Acreage 15,308.47
Total Suplementally Adjusted Permitted/Certificated Pumpage 61,423.87

Total Estimated Acreage 13,082.44
Total Estimated Pumpage 50,918.21

[1] PERMITS 59616, 59617, 59618, 59619, 59621, 59622, 59624, 65606, 65607, 65608, AND 65609 HAVE A TOTAL COMBINED DUTY OF 3,958.37 AFA.
[2] PERMITS 82211, 82212, 82213, 82214, 82215, 82216, 82217, 82218, 82219, 82220, 82221, 82222, 82223, 82224, 82225, 82226, AND 82227 HAVE A TOTAL COMBINED DUTY 9,237.3 AFA.
[3] PERMITS 16590, 16816, 17102, 17104, 19369, 21321, 21323, 21324, 21327, 65394, 80533, 80534, 80535, 80536, 80537, 80538, 80539, AND 80897 HAVE A TOTAL COMBINED DUTY OF 7,132.63 AFA.
[4] PERMITS 16375, 16376, 21342, 66851, AND 66852 HAVE A TOTAL COMBINED DUTY OF 2,479.6 AFS.
[5] PERMITS 60387, 60388, 60389, 60390, 60391, 60392, 60393, 60394, AND 64460 HAVE A TOTAL COMBINED DUTY OF 3,944.42 AFA.