STATE OF NEVADA

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

DIVISION OF WATER RESOURCES

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QUINN RIVER VALLEY - OROVADA SUBAREA
HYDROGRAPHIC BASIN 2-033A

CROP INVENTORY

CALENDAR YEAR 2015

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ABSTRACT

This inventory represents the status and usage of all permitted and certificated groundwater rights for irrigation purposes located within Quinn River Valley - Orovada Subarea, Hydrographic Basin 2-033A, for the year 2015. **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 2015, the supplementally adjusted permitted and certificated groundwater rights for irrigation purposes totaled approximately **20,953 acres** with a total duty of 83,364 acre-feet within Quinn River Valley - Orovada Subarea. An estimated **18,780 acres** were irrigated and 62,038 acre-feet were pumped during 2015.

HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER	033A, REGION 2
HYDROGRAPHIC BASIN NAME	QUINN RIVER VALLEY - OROVADA SUBAREA
COUNTIES	HUMBOLDT
MAJOR COMMUNITIES	OROVADA
DESIGNATED BASIN	PARTIALLY
DENIALS BASED UPON WATER AVAILABILITY	IRR/IRD
ESTIMATED IRRIGATION PUMPAGE 2015 (ACRE-FEET)	62,038*

STATE ENGINEER'S ORDERS

NO. 285 – PARTIAL DESIGNATION OF BASIN	APRIL 28, 1965

COMMITTED GROUNDWATER RESOURCE FOR IRRIGATION PURPOSES: 92,413 ACRE-FEET
DATE: March 2016

NOTE: Committed groundwater resource data are accurate for March 2016. 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, and to estimate the amount of groundwater pumped for irrigation purposes within the Quinn River Valley - Orovada Subarea Hydrographic Basin 2-033A, for the year 2015.

DESCRIPTION OF THE STUDY AREA

The Quinn River Valley - Orovada Subarea Hydrographic Basin is located in north central Nevada (Figure 1), occupying approximately 632 square miles in Humboldt County. The adjacent hydrographic basins are Quinn River Valley - McDermitt Subarea (2-033B) to the north, Paradise Valley (4-069) and Hardscrabble Area (4-068) to the east, Desert Valley (2-031) and Silver State Valley (2-032) to the south and Kings River Valley – Rio King Subarea (2-030A) and Kings River Valley – Sod House Subarea (2-030B) to the west.

Quinn River Valley - Orovada Subarea is bounded on the north by Jordan Meadow Mountain and Long Canyon, to the west by the Double H Mountains and the Montana Mountains, to the south by Gallagher Flat and the Bloody Run Hills and to the east by the Santa Rosa Range. The valley is approximately 25 miles wide by 41 miles long with basin elevations ranging from approximately 4,100 feet above mean sea level on the valley floor to approximately 9,800 feet in the surrounding mountains. Irrigation occurs primarily in the central part of the basin (Figure 2)

GROUNDWATER LEVELS

Depths to groundwater in Quinn River Valley - Orovada Subarea are measured by NDWR on an annual basis. Sites at which water level measurements are made include:

033A N40 E37 12ABBC1	033A N41 E36 01DBA1	033A N41 E36 04DDBBA
033A N41 E36 06ABBB1	033A N41 E36 06CBAA1	033A N41 E36 17DD1
033A N41 E36 23DBDA1	033A N41 E37 03ACDB1	033A N41 E37 04DDDD1
033A N41 E37 05BAAA1	033A N41 E37 08CBCB1	033A N41 E37 08DAAA1
033A N41 E37 21CAAA1	033A N41 E37 29AAAA1	033A N42 E36 08AAB1
033A N42 E36 25DCCA2	033A N42 E36 35CCCD1	033A N42 E37 04BADD2
033A N42 E37 08DADD1	033A N42 E37 10DBDD1	033A N42 E37 10DCDD1
033A N42 E37 15CBDD1	033A N42 E37 17DDAD1	033A N42 E37 18AADD1
033A N42 E37 20BBAA1	033A N42 E37 27ABBC2	033A N42 E37 27BBDD1
033A N42 E37 28BABB1	033A N42 E37 31DADD1	033A N42 E37 32AAAA1
033A N42 E37 33DDAA1	033A N43 E36 02DBBD1	033A N43 E36 04DDDD1
033A N43 E36 14BCBB1	033A N43 E36 14DB1	033A N43 E36 32CADC1
033A N43 E37 06CAAC1	033A N43 E37 08ADDD1	033A N43 E37 08BCAA1
033A N43 E37 10AD1	033A N43 E37 16AADA1	033A N43 E37 17CAAA1
033A N43 E37 18CCCA1	033A N43 E37 20ADDD1	033A N43 E37 29ACDD2
033A N43 E37 33CADA2	033A N44 E36 22DCAA1	033A N44 E36 26ACB1
033A N44 E36 33BCDA1	033A N44 E36 34ADBC1	033A N44 E37 02ABCD1
033A N44 E37 03DCCD1	033A N44 E37 04DCDC1	033A N44 E37 04DDDC1

033A N44 E37 10ADDD1	033A N44 E37 20ACDB1	033A N44 E37 21ACAA1
033A N44 E37 27CCAB1	033A N44 E37 28AADC1	033A N44 E37 29ADAA1
033A N44 E37 29BBDD1	033A N44 E37 29CACC1	033A N44 E37 30DACC1
033A N44 E37 33CAAD1	033A N44 E37 33DAAA2	033A N45 E36 36DA1
033A N45 E37 24BCDC1	033A N45 E37 33DDDD1	033A N45 E37 34DCDD1
033A N45 E37 35DAAA1		

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, certificates, and claims of vested right 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 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 the permits and certificates issued by the Nevada State Engineer as well as claims of vested right and exempt domestic wells in the Quinn River Valley - Orovada Subarea Hydrographic Basin. 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 pumpage and the use was irrigation, pumpage 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. Irrigation efficiencies associated with three types of irrigation methods are: 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 pumpage was not used in previous inventories, and pumpage estimates for 2014 and subsequent years may differ significantly from those of previous years.

TABLES

Table 1. Quinn River Valley - Orovada Subarea historical irrigated acreage and pumpage data.

Year	2011	2012	2013	2014	2015
Acres Irrigated	16,785	17,317	18,365	18,767	18,780
*Acre-Feet Pumped	60,748	66,931	65,784	59,002	62,038

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

FIGURES

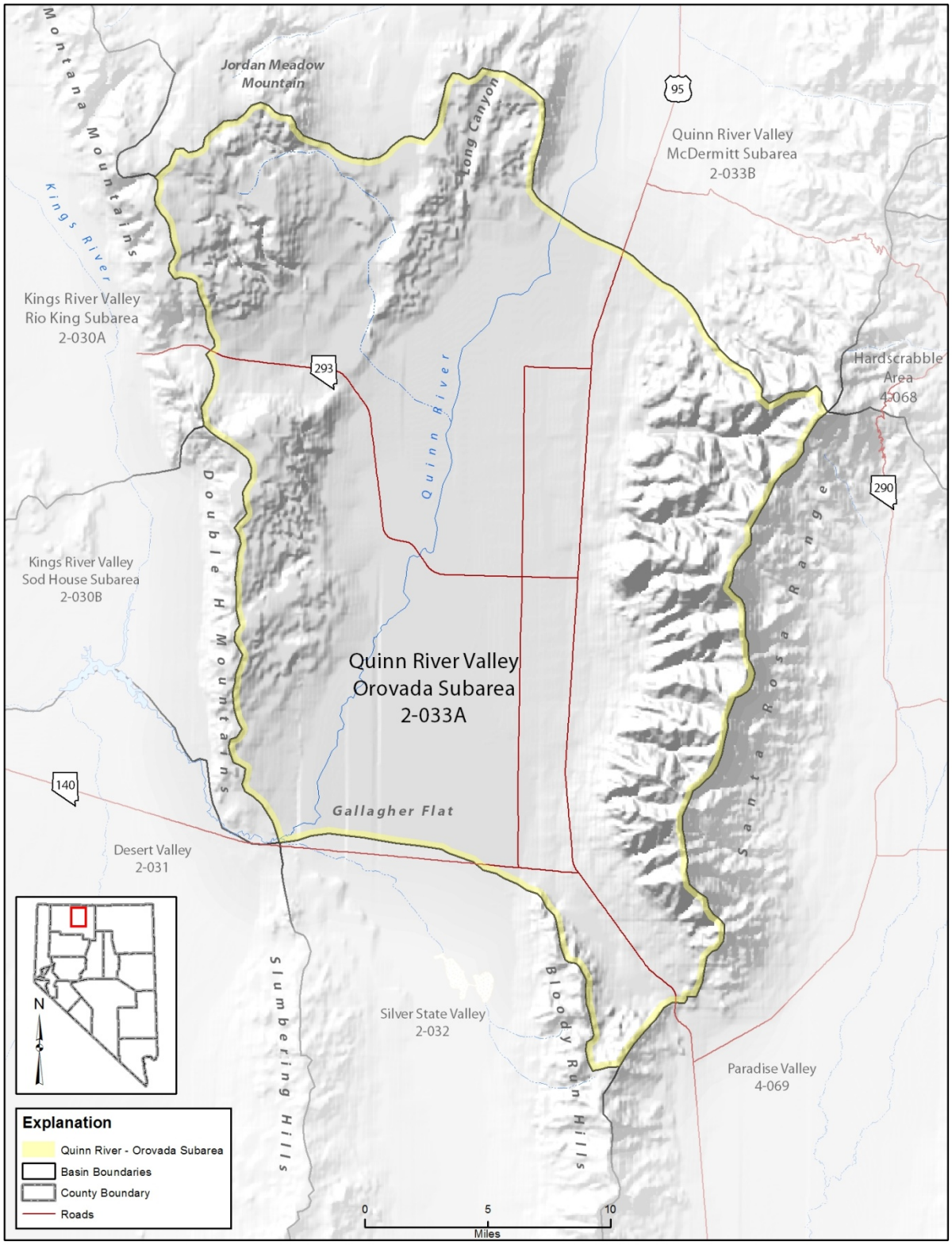

Figure 1. Physiographic map of Quinn River Valley - Orovada Subarea (Hydrographic Basin 2-033A).

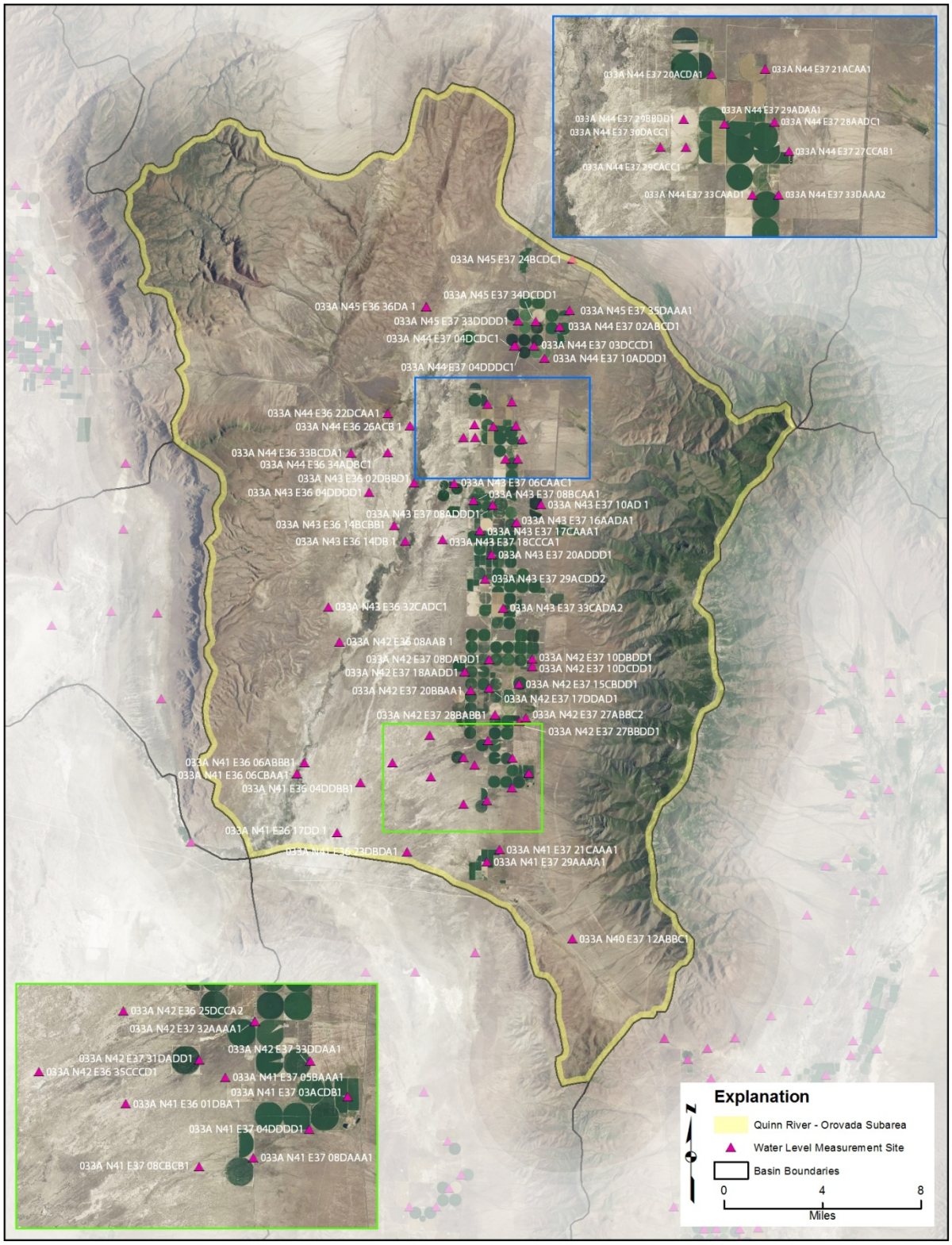

Figure 2. Map showing Quinn River Valley - Orovada Subarea irrigated acreage and water level monitoring sites.

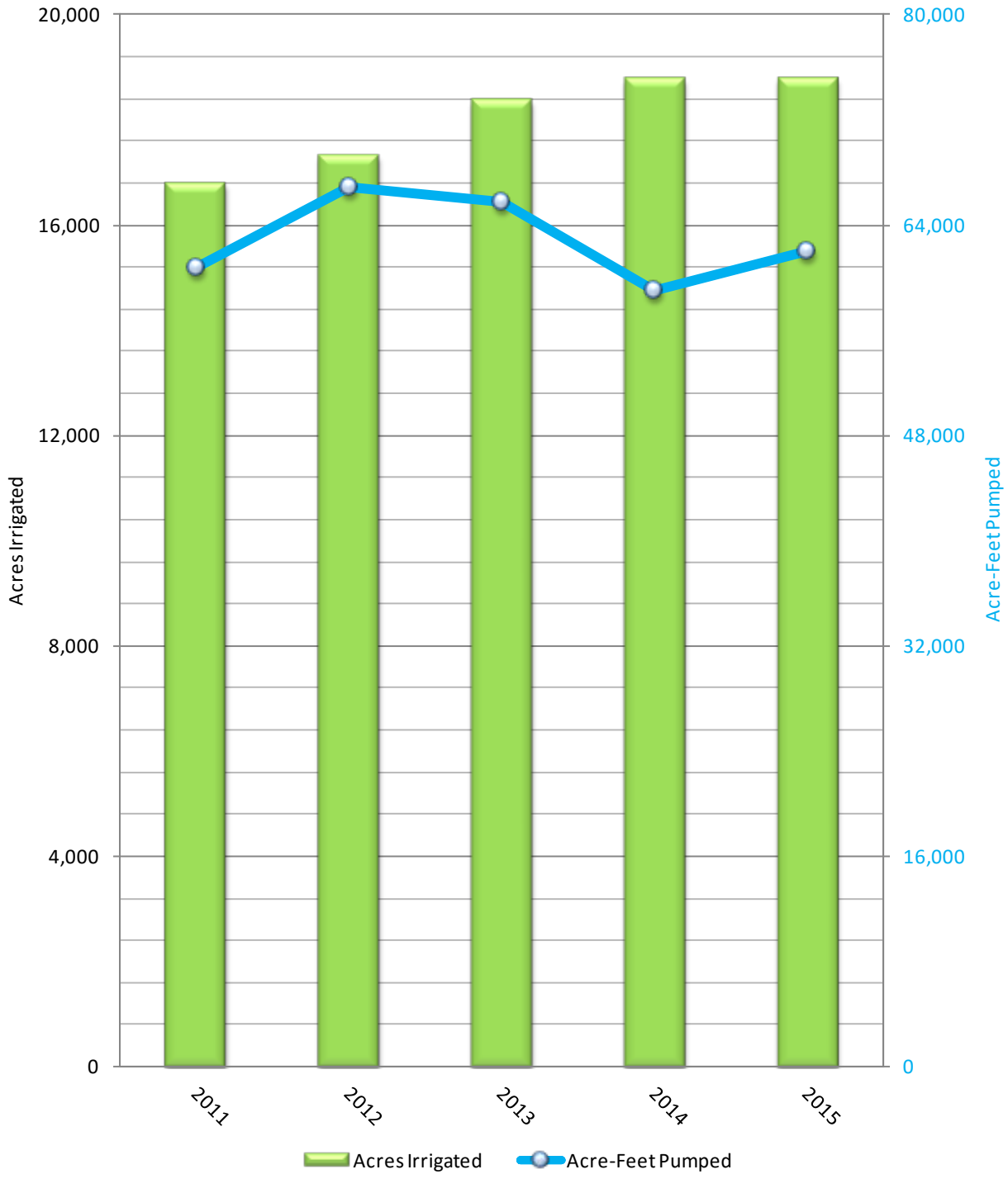

Figure 3. Graph showing Quinn River Valley - Orovada Subarea historical irrigated acreage and pumpage. The NIWR method to estimate pumpage was used starting in 2014; estimates may differ significantly from previous years. Historical pumpage data modified from previously published data.

APPENDIX A. 2015 QUINN RIVER VALLEY - OROVADA SUBAREA CROP INVENTORY.

EXPLANATION OF COLUMN HEADINGS

App No	The file number of the Application to Appropriate/Change Water or the Claim of Vested Right.
Status	Indicates the status of an application: Permit (PER), Certificated (CER), or a Claim of Vested Right (VST).
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 is 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, certificate, or claim of vested right. 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 in **bold**.
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	The method used to estimate the amount of water pumped. M – Totalizing meter readings. N – NIWR Method.
Remarks	[A] Groundwater supplemental to surface. Estimate 90% groundwater irrigation, 10% surface water irrigation.

Crop Inventory and Groundwater Pumpage for Irrigation - Quinn River Valley - Orovada Subarea, Basin 033A, 2015

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 Rates	Irrigation Method	Irrigation Efficiency %	Irrigated Acres	Acreage Estimation Method	Acre-Feet Pumped	Pumpage Estimation Method	Remarks
15605	CER	NE	NW	22	45N	37E	Y	18494	37.1	182.26	148.4	729.04	Ellison, Lyle L.	Alfalfa	3.1	Sprinklers	75%	188	F, I	777.07	N	
18494	CER	NE	NW	22	45N	37E	Y	15605	182.26		729.04		Ellison, Lyle L.									
18641	CER	SE	SE	33	45N	37E	N		154.8	154.8	619.20	619.2	Weitz Nevada LLC	Grain		Pivot		130	F, I	396.75	Meter	
17436	CER	SW	SE	34	45N	37E	N		135.44	135.44	541.76	541.76	Weitz Nevada LLC	Grain		Pivot		131	F, I	211.92	Meter	
21506	CER	NE	NE	34	45N	37E	Y	24305	264.22	264.22	1056.88	1056.88	Van Vliet, Gary R. & Joan D.	Alf	3.1	Pivots	85%	144	F, I	525.18	N	
24305	CER	NE	NE	34	45N	37E	Y	21506	264.22		942.90		Van Vliet, Gary R. & Joan D.	Alf	3.1	Pivots	85%	123	F, I	448.59	N	
14778	CER	NE	SE	34	45N	37E	N		208.74	208.74	834.96	834.96	Weitz Nevada LLC	Potatoes	2.1	Pivot	85%	148	F, I	365.65	N	
31160	CER	NE	SE	35	45N	37E	N		235.8	235.8	799.15	799.15	Van Vliet, Gary R. & Joan D.	Grass Hay		Pivot		60	F, I	484.29	Meter	
														Grain		Pivot		120				
28803	CER	NE	NE	2	44N	37E	Y	28762	311.92	311.92	1247.68	1247.68	Van Vliet Properties LLC	Alfalfa	3.1	Pivot	85%	135	F, I	492.35	N	
28762	CER	NW	NE	2	44N	37E	Y	28803	185		740.00		Van Vliet Properties LLC	Alfalfa	3.1	Pivot	85%	130		474.12	N	
28760	CER	NW	SE	2	44N	37E	Y	28761	114	114	456.00	456.00	Van Vliet Properties LLC	Alfalfa	3.1	Pivot	85%	65	F, I	237.06	N	
28761	CER	NW	SE	2	44N	37E	Y	28760	114		456.00		Van Vliet Properties LLC						F, I			
29383	CER	NE	NE	3	44N	37E	Y	1	481.69	987.9	1926.76	3951.60	Weitz, Geo. A. Inc	Grain		Pivot		125	F, I	370.53	Meter	
														Peas		Pivot		123	F, I	181.06	Meter	
29382	CER	SE	SE	3	44N	37E	Y	1	371.3		1485.17		Weitz, Geo. A. Inc	Grain	2	Pivot	85%	127	F, I	298.82	N	
29384	CER	SE	SE	3	44N	37E	Y	1	136.89		547.54		Weitz, Geo. A. Inc						F, I			
29385	CER	SE	SE	3	44N	37E	Y	1	136.89		547.54		Weitz, Geo. A. Inc									
29381	CER	SW	SE	3	44N	37E	Y	1	382.64		1013.57		Weitz, Geo. A. Inc	Grain		Pivot		125	F, I	257.91	Meter	
17653	CER	SE	SE	4	44N	37E	N		159.2	159.2	636.80	636.80	Weitz Nevada LLC	Grain		Pivot		128	F, I	396.68	Meter	
21059	CER	SE	NW	5	44N	37E	Y	21060, 24617	225.3	225.3	901.20	901.20	N.J. Ranches Inc.	Alfalfa		Pivot		141	F, I	634.19	Meter	
21060	CER	SE	NW	5	44N	37E	Y	21059, 24617	112.6		140.23		N.J. Ranches Inc.						F, I			
24617	CER	NE	SE	6	44N	37E	Y	21059, 21060	57.2		228.80		Nevada First Corp							0.00	Meter	
29386	CER	SE	NE	10	44N	37E	Y	1	265.47		1061.90		Weitz, Geo. A. Inc	Grain	2	Pivot	85%	126	F, I	296.47	N	
29380	CER	SW	NE	10	44N	37E	Y	1	451.87		1807.48		Weitz, Geo. A. Inc	Alfalfa	3.1	Pivot	85%	124	F, I	452.24	N	
14864	CER	SW	NW	11	44N	37E	N		76.8	76.8	307.20	307.20	Weitz Nevada LLC	Grain		Pivot		62	F, I	131.73	Meter	
18506	CER	NE	SE	20	44N	37E	Y	82868	241.21	262.00	964.84	1048.00	Amato, Robert J. and Rhonda M.	Alfalfa	3.1	Pivot	85%	256	F, I	933.65	N	
82868	PER	NE	SE	20	44N	37E	Y	18506	20.79		83.16		Amato, Robert J. and Rhonda M.									
21351	CER	SW	NE	20	44N	37E	Y	17939	60	60	240.00	240.00	Winnemucca Farms INC	Grain		Pivot		60	F, I			
17939	CER	SW	NE	20	44N	37E	Y	21351	60		224.07		Winnemucca Farms INC									
82869	PER	SW	NE	20	44N	37E	Y	82869,71,73,75	30.67	119	122.68	476.00	Dexter, Robert R. & Wendy J.							350.03	Meter	
82871	PER	SW	NE	20	44N	37E	Y	82869,71,73,75	18.01		72.04		Winnemucca Farms INC	Grain		Pivot		57	F, I			
82873	PER	SW	NE	20	44N	37E	Y	82869,71,73,75	18.01		67.36		Winnemucca Farms INC	Potatoes		Pivot		57	F, I			
82875	PER	SW	NE	20	44N	37E	Y	82869,71,73,75	70.32		0.00		Winnemucca Farms INC						F, I			
83479	PER	NE	SW	20	44N	37E	Y	83480	90.49	90.49	361.96	361.96	Winnemucca Farms INC						F, I			
83480	PER	NE	SW	20	44N	37E	Y	83479	80.90		323.60		Winnemucca Farms INC									
17301	CER	SW	NE	21	44N	37E	Y	2	240	288.62	960.00	1154.48	Amato, Robert J. and Rhonda M.	Alfalfa	3.1	Pivot	85%	100	F, I	364.71	N	
22007	CER	SW	NE	21	44N	37E	Y	2	9.79		39.16		Amato, Robert J. and Rhonda M.						F, I			
22849	CER	SW	NE	21	44N	37E	Y	2	240		485.96		Amato, Robert J. and Rhonda M.						F, I			
27696	CER	SW	SE	21	44N	37E	Y	2	113.89		455.56		Amato, Robert J. and Rhonda M.	Alfalfa	3.1	Pivot	85%	67	F, I	244.35	N	
														Alfalfa	3.1	Sprinklers	75%	70	F, I	289.33	N	
														Grain	2	Sprinklers	75%	50	F, I	133.33	N	

Crop Inventory and Groundwater Pumpage for Irrigation - Quinn River Valley - Orovada Subarea, Basin 033A, 2015

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 Rates	Irrigation Method	Irrigation Efficiency %	Irrigated Acres	Acreage Estimation Method	Acre-Feet Pumped	Pumpage Estimation Method	Remarks
14776	CER	SW	SW	27	44N	37E	Y	17589, 27161	244.5	787.78	978.00	3151.12	Van Der Hoek, Hans	Alfalfa	3.1	Pivot	85%	68	F, I	248.00	N	
														Alfalfa	3.1	Sprinklers	75%	40	F, I	165.33	N	
17589	CER	NE	NE	28	44N	37E	Y	14776, 27161, 14775	240		853.40		Earp, Doyle W. & Jewell R.; Earp	Alfalfa	3.1	Pivots	85%	206	F, I	751.29	N	
													Keneth H. & Doris N. each cople 1/2 Int.						F, I			
14775	CER	NE	SE	28	44N	37E	Y	17589, 27161	236.1		871.6		Van Der Hoek Hans	Alfalfa	3.1	Pivot	85%	130	F, I	474.12	N	
														Alfalfa	3.1	Sprinklers	75%	19	F, I	78.53	N	
27161	CER	SE	NE	29	44N	37E	Y	14775, 17589	227.78		911.12		Earp, Doyle W. & Jewell R.; Earp	Alfalfa		Pivots		186	F, I			
79904	PER	SE	NE	29	44N	37E	Y	3	18.2	84.6	72.8	338.4	Hans & Karen L. Van Der Hoek	Alfalfa		Flood		50	F, I			
79905	PER	SE	NE	29	44N	37E	Y	3	15.5		62		Hans & Karen L. Van Der Hoek	Grain		Pivot		63	F, I			
79906	PER	SE	NE	29	44N	37E	Y	3	11.5		46		Hans & Karen L. Van Der Hoek						F, I	1210.74	Meter	
79907	PER	SE	NE	29	44N	37E	N		9.4	9.4	37.6	37.6	Hans & Karen L. Van Der Hoek						F, I			
80960	PER	SE	NE	29	44N	37E	Y	3	30		85.5		Hans & Karen L. Van Der Hoek						F, I			
80961	PER	SE	NE	29	44N	37E	Y	3	30		120		Hans & Karen L. Van Der Hoek						F, I			
83821	PER	NW	NW	29	44N	37E	Y	83819-20	96.12	271.82	384.48	1087.28	Home Ranch LLC	Alfalfa		Pivot		132	F, I	101.88	Meter	
83820	PER	NE	SW	29	44N	37E	Y	83819, 83821	155.12		620.48		Home Ranch LLC	Alfalfa		Pivot		145	F, I	228.86	Meter	
83819	PER	NE	SW	29	44N	37E	Y	83820-21	96.12		466.80		Home Ranch LLC									
14811	CER	NE	NE	33	44N	37E	Y	19410, 25465	101.31	276.96	405.24	1107.84	Hill, Debra J.	Grain	2	Pivot	85%	77	F, I	181.18	N	
19410	CER	NE	NE	33	44N	37E	N	14811	49.29		197.16		Hill, Debra J.	Grain	2	Flood	60%	47	F, I	156.67	N	
25465	CER	NE	NW	33	44N	37E	Y	14811	127.28		509.12		Hill, Debra J.	Alfalfa	3.1	Pivot	85%	126	F, I	459.53	N	
21704	CER	NE	SE	33	44N	37E	N	22944	155.15	155.15	620.60	620.60	Hill, Madaline Deloris	Alfalfa	3.1	Pivot	85%	126	F, I	459.53	N	
22944	CER	NE	SE	33	44N	37E	N	21704	155.15		620.60		Hill, Madaline Deloris						F, I			
21522	CER	NE	SW	33	44N	37E	Y	22945	155.34	155.34	501.36	501.36	Amato, Robert J. and Rhonda M.	Grain	2	Pivots	85%	125	F, I	294.12	N	
22945	CER	NE	SW	33	44N	37E	Y	21522	155.34		357.58		Amato, Robert J. and Rhonda M.									
80182	PER	SE	SW	4	43N	37E	Y	80182, 83, 82882, 84, 86	9.95	234.31	39.8	937.24	Winnemucca Farms INC	Potatoes		Pivot		116	F, I	378.47	Meter	
80183	PER	SE	SW	4	43N	37E	Y	80182, 83, 82882, 84, 86	34.69		138.76		Winnemucca Farms INC	Grain		Pivot		122	F, I	454.68	Meter	
82882	PER	SE	SW	4	43N	37E	Y	80182, 83, 82882, 84, 86	18.58		74.32		Winnemucca Farms INC									
82884	PER	SE	SW	4	43N	37E	Y	80182, 83, 82882, 84, 86	122.76		491.04		Winnemucca Farms INC									
82886	PER	SE	SW	4	43N	37E	Y	80182, 83, 82882, 84, 86	164.48		657.92		Winnemucca Farms INC									
78075	PER	SE	NE	4	43N	37E	N		117.1	117.1	468.40	468.40	Van Vliet Gary R.	Alfalfa	3.1	Pivot	85%	125	F, I	455.88	N	
84179	PER	NE	SE	6	43N	37E	Y	84176-84180 (Surface)	435.62	612.6	712.92	2450.4	Brumlet Revocable Trust	Alfalfa	3.1	Pivot	85%	112	F, I	367.62	N	A
														Pasture	2.5	Flood	60%	15	F, I	56.25	N	A
84176	PER	NE	SW	6	43N	37E	Y	84176-84180 (Surface)	307		1228.00		Brumlet Revocable Trust	Alfalfa	3.1	Pivots	85%	193	F, I	633.49	N	A
84177	PER	LT	3	7	43N	37E	Y	84176-84180 (Surface)	171.8		165.87		Brumlet Revocable Trust	Alfalfa	3.1	Flood	60%	21	F, I	97.65	N	A
84180	PER	LT	3	7	43N	37E	Y	84176-84180 (Surface)	435.62		1029.56		Brumlet Revocable Trust									

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84178	PER	NW	SE	7	43N	37E	Y	84176-84180 (Surface)	171.8		521.33		Brumlet Revocable Trust	Alfalfa	3.1	Flood	60%	109	F, I	506.85	N	A
83528	PER	SE	NE	8	43N	37E	Y	83528-31	218.69	441.69	874.76	1766.76	Winnemucca Farms INC	Alfalfa		Pivot		226	F, I	729.81	Meter	
83530	PER	NE	NE	8	43N	37E	Y	83528-31	100.30		401.20		Winnemucca Farms INC	Alfalfa		Pivot		146	F, I	596.63	Meter	
83531	PER	NE	NE	8	43N	37E	Y	83528-31	131.10		524.40		Winnemucca Farms INC						F, I			
83529	PER	SW	NW	8	43N	37E	Y	83528-31	145.50		596.80		Winnemucca Farms INC	Alfalfa		Pivot		60	F, I	145.36	Meter	
82260	PER	NW	NE	9	43N	37E	Y	4		1317.56	156.36	5270.24	Blane & Nina Smith Trust	Alfalfa Seed		Pivot		225	F, I	470.50	Meter	
82256	PER	NE	SE	9	43N	37E	Y	4			1127.20		Blane & Nina Smith Trust	Mint		Pivot		127	F, I	341.72	Meter	
68633	CER	SE	NE	10	43N	37E	Y	68634	*245*	*245*	218.41	980	Western Lithium Corp a Nevada Corp	Grain		Pivot		30	F, I	83.36	Meter	
68634	CER	SW	NE	10	43N	37E	Y	68633	*245*		761.59		Western Lithium Corp a Nevada Corp	Grain		Pivot		202	F, I	557.68	Meter	
82253	CER	NE	NE	16	43N	37E	Y	4	307.27		1229.08		Blane & Nina Smith Trust	Alf. Seed		Pivot		130	F, I	337.67	Meter	
82254	CER	NE	SE	16	43N	37E	Y	4	307.26		1229.04		Blane & Nina Smith Trust	Alf-Seed		Pivot		120	F, I	445.81	Meter	
														Grain		Pivot		120	F, I		Meter	
14741	CER	SE	SE	8	43N	37E	Y	14739	305.9	305.9	1223.60	1233.60	Mc Clintick Farms INC	Grain		Flood		28	F, I			
69479	CER	SE	SE	8	43N	37E			39.1	39.1	156.40	156.4	Mc Clintick Farms INC	Alf-Seed		Flood		102	F, I	956.38	Meter	
														Grain		Flood		76	F, I			
17251	CER	SE	NW	16	43N	37E	N		135.16	135.16	540.64	540.64	Mc Clintick Farms INC	Mint	3.1	Pivot	85%	125	F, I	455.88	N	
														Grain	2	Flood	60%	16	F, I	53.33	N	
22460	CER	NE	SW	17	43N	37E	Y	17353	124.92		499.68		Mc Clintick Farms INC	Grain	2	Flood	60%	20	F, I	66.67	N	
69480	CER	NE	SW	17	43N	37E			39.19	39.19	156.76	156.76	Mc Clintick Farms INC	Grain		Pivot		130	F, I	397.20	Meter	
14739	CER	NE	NE	17	43N	37E	Y	14741	305.9		1233.60		Mc Clintick Farms INC	Grain	2	Pivot	85%	139	F, I	327.06	N	
17353	CER	NE	SE	17	43N	37E	Y	22460	244.87	244.87	979.48	979.48	Mc Clintick Farms INC	Alfalfa	3.1	Pivot	85%	130	F, I	474.12	N	
14649	CER	NW	NE	20	43N	37E	Y	14740	155.45	230.30	622.00	921.2	Mc Clintick Farms INC	Alfalfa	3.1	Pivot	85%	122	F, I	444.94	N	
														Grain	2	Flood	60%	15	F, I	50.00	N	
14740	CER	NE	NE	20	43N	37E	Y	14649	228.45		893.84		Mc Clintick Farms INC	Mint	3.1	Flood	60%	66	F, I	341.00	N	
19355	CER	NE	NE	20	43N	37E	Y	22696	171.11	200	684.44	800	Mc Clintick Farms INC	Alf-seed	3	Flood	60%	73	F, I	365.00	N	
22686	CER	SE	NE	20	43N	37E	N		3.14	3.14	12.56	12.56	Mc Clintick Farms INC	Alf-seed	3	Flood	60%	133	F, I	665.00	N	
22687	CER	SE	NE	20	43N	37E	N		4.99	4.99	19.96	19.96	Mc Clintick Farms INC	Mint	3.1	Flood	60%	37	F, I	191.17	N	
22696	CER	SE	NE	20	43N	37E	Y	19355	200		677.74		Mc Clintick Farms INC						F, I			
20073	CER	SW	SW	26	43N	37E	N		173.5	173.5	694.00	694.00	Mc Clintick Farms INC	Alfalfa	3.1	Flood	60%	42	F, I	217.00	N	
														Alfalfa	3.1	Pivot	85%	133	F, I	485.06	N	
18670	CER	NE	NW	28	43N	37E	N		125.64	125.64	502.56	502.56	Mc Clintick Farms INC	Alfalfa		Pivots		203	F, I			
15612	CER	NE	NW	28	43N	37E	N	osw	148.70	148.70	594.80	594.80	Mc Clintick Farms INC	Mint		Flood		37	F, I	623.94	Meter	
														Alf-seed		Flood		37	F, I			
82252	PER	NE	NE	21	43N	37E	Y	4	316		1264.00		Blane & Nina Smith Trust	Mint		Pivot		67	F, I	443.65	Meter	
														Alf-seed		Pivot		67	F, I			
82255	PER	NE	NW	21	43N	37E	Y	4	157.82		631.28		Blane & Nina Smith Trust	Alf-seed		Pivot		134	F, I	557.76	Meter	
82257	PER	NE	SE	21	43N	37E	Y	4			573.60		Blane & Nina Smith Trust	Alf-seed		Pivot		134	F, I			
82258	PER	NE	SE	21	43N	37E	Y	4			23.2		Blane & Nina Smith Trust	Grain		Pivot		67	F, I	746.51	Meter	
82259	PER	NE	SE	21	43N	37E	Y	4			269.2		Blane & Nina Smith Trust	Mint		Pivot		67	F, I			
82261	PER	NE	SE	21	43N	37E	Y	4			85.37		Blane & Nina Smith Trust									
82262	PER	NE	SE	21	43N	37E	Y	4			54.79		Blane & Nina Smith Trust									
15224	CER	NE	SW	27	43N	37E	Y	5	631.1	710.2	2524.40	2840.10	Brant, John H & E.H.	Alfalfa		Pivot		130	F, I	141.64	Meter	
16702	CER	SW	NE	28	43N	37E	Y	5	309.3		1237.20		Brant, John H & E.H.	Alfalfa		Pivot		136	F, I	341.09	Meter	
17761	CER	SE	NE	28	43N	37E	Y	5	316.7		1266.80		ST. Clair Rodney & Virginia	Alfalfa	3.1	Pivot	85%	65	F, I	237.06	N	
														Alfalfa	3.1	Flood	60%	64	F, I	330.67	N	
28039	CER	NE	NW	27	43N	37E	Y	5	90.52		362.08		ST. Clair Rodney & Virginia	Alfalfa	3.1	Pivot	85%	130	F, I	474.12	N	
28040	CER	NE	NW	27	43N	37E	Y	5	293.5		1174.00		ST. Clair Rodney & Virginia	Alfalfa	3.1	Flood	60%	22	F, I	113.67	N	
17695	CER	SW	NE	29	43N	37E	N		153.6	153.6	614.40	614.40	Jacaway, Jodi S.	Grain	2	Pivot	85%	124	F, I	291.76	N	

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45884	CER	SE	SW	29	43N	37E	N		150.6	150.6	602.40	602.40	Williams, Jean M.	Alfalfa	3.1	Pivot	85%	85	F, I	310.00	N	
														Grain	2	Flood	60%	37	F, I	123.33	N	
84771	PER	SE	NE	32	43N	37E	Y	84773	120.95	120.95	483.80	483.80	Mc Clintick Farms INC	Mint	3.1	Pivot	85%	129	F, I	470.47	N	
84773	PER	SE	NE	32	43N	37E	Y	84771	120.95		483.80											
84762	PER	NE	SW	32	43N	37E	Y	6	29.31	213.08	117.40	852.32	Mc Clintick Farms INC	No Crop								
84764	PER	NE	SW	32	43N	37E	Y	6	9.5		38.00		Mc Clintick Farms INC									
84765	PER	NE	SW	32	43N	37E	Y	6	22.96		91.84		Mc Clintick Farms INC									
84766	PER	NE	SW	32	43N	37E	Y	6	72.1		288.40		Mc Clintick Farms INC									
84767	PER	NE	SW	32	43N	37E	Y	6	30.76		123.04		Mc Clintick Farms INC									
84768	PER	NE	SW	32	43N	37E	Y	6	14.4		57.60		Mc Clintick Farms INC									
84769	PER	NE	SW	32	43N	37E	Y	6	30.48		121.92		Mc Clintick Farms INC									
84770	PER	NE	SW	32	43N	37E	Y	6	24.27		97.08		Mc Clintick Farms INC									
84772	PER	NE	SW	32	43N	37E	Y	6	34.05		136.20		Mc Clintick Farms INC									
19836	CER	NE	SW	33	43N	37E	Y	7	191.2	987.04	314.50	3948.16	Key Farms, INC	Alfalfa	3.1	Pivot	85%	278	F, I	1013.88	N	
29716	CER	NE	SW	33	43N	37E	Y	7	312.7		450.30		Key Farms, INC									
12452	CER	SE	SW	33	43N	37E	Y	7	191.2		225.00		Key Farms, INC	Alfalfa	3.1	Pivot	85%	141	F, I	514.24	N	
24791	CER	SE	SW	33	43N	37E	Y	7	151		604.00		Key Farms, INC									
23638	CER	SE	SW	33	43N	37E	Y	7	462.85		277.70		Key Farms, INC									
29720	CER	SE	SW	33	43N	37E	Y	7	603.96		1508.90		Key Farms, INC									
29711	CER	NE	SE	33	43N	37E	Y	7	538.5		1231.60		Key Farms, INC	Alfalfa	3.1	Pivot	85%	137	F, I	499.65	N	
29718	CER	NE	SE	33	43N	37E	Y	7	538.5		64.80		Key Farms, INC									
62720	CER	NE	SE	33	43N	37E	Y	7	220.05		242.98		Key Farms, INC	Alfalfa	3.1	Pivot	85%	60	F, I	218.82	N	
62721	CER	NE	SE	33	43N	37E	Y	7	912.02		1267.85		Key Farms, INC	Alfalfa	3.1	Flood	60%	74	F, I	382.33	N	
29713	CER	SW	SW	34	43N	37E	Y	7	907.66		593.00		Key Farms, INC	Alfalfa	3.1	Pivot	85%	69	F, I	251.65	N	
		SW	SW	34	43N	37E							Key Farms, INC	Alfalfa	3.1	Pivot	85%	128	F, I	466.82	N	
29724	CER	NE	NE	4	42N	37E	Y	7	907.66		60.6		Key Farms, INC									
29725	CER	NE	NE	4	42N	37E	Y	7	907.66		421.97		Key Farms, INC									
26987	CER	NE	NE	4	42N	37E	Y	7	461.7		289.48		Key Farms, INC									
29722	CER	NE	NE	4	42N	37E	Y	7	907.66		1483.8		Key Farms, INC									
64625	PER	SE	NE	3	42N	37E		8	*(316.4)*		*(1137.76)*		ST. Clair Rodney & Virginia	Alfalfa		Pivot		146	F, I	1009.42	Meter	
														Grass Hay		Pivot		154	F, I			
28623	CER	SW	SE	3	42N	37E	Y	8	578.88		2315.52		ST. Clair Rodney & Virginia	No Crop					F, I			
85112T	PER	NE	NE	10	42N	37E	Y	85113T, 85114T	75.03	125.6	300.11	502.4	ST. Clair Rodney & Virginia	Alfalfa		Pivot		125.6	F, I	148.36	Meter	
85113T	PER	NE	NE	10	42N	37E	Y	85112T, 85114T	37.73		150.92											
85114T	PER	NE	NE	10	42N	37E	Y	85112T, 85113T	12.84		51.37											
58879	CER	NE	NE	10	42N	37E	Y	8	146.84	578.88	587.37	2315.52	ST. Clair Rodney & Virginia	Alfalfa	3.1	Pivot	85%	148	F, I	539.76	N	
14725	CER	NE	NW	10	42N	37E	Y	8	157.5		584.08		Key, Robert F. & Rosemary	Alfalfa	3.1	Pivot	85%	149	F, I	543.41	N	
14670	CER	SE	SE	5	42N	37E	Y	22177, 17029	320	320	1129.08	1280	ST. Clair Rodney & Virginia	Alfalfa	3.1	Pivot	85%	133	F, I	485.06	N	
17029	CER	SE	SE	5	42N	37E	Y	22177, 14670	200		394.57		ST. Clair Rodney & Virginia									
22177	CER	SE	SW	5	42N	37E	Y	14670	119.67		478.68		ST. Clair Rodney & Virginia	Alfalfa	3.1	Pivot	85%	150	F, I	547.06	N	
17758	CER	SE	NE	9	42N	37E	N		135.05	135.05	364.87	364.87	ST. Clair Rodney & Virginia	Alfalfa	3.1	Pivot	85%	130	F, I	474.12	N	
27809	CER	SE	NW	9	42N	37E	Y	27810, 27811	54.92	54.92	127.61	219.68	ST. Clair Rodney & Virginia	Alfalfa	3.1	Pivot	85%	97	F, I	353.76	N	
27810	CER	SE	NW	9	42N	37E	Y	27809, 27811	54.92		46.23		ST. Clair Rodney & Virginia									
27811	CER	SE	NW	9	42N	37E	Y	27809, 27810	54.92		45.84		ST. Clair Rodney & Virginia									
16996	CER	NE	NW	4	42N	37E			156.2	156.2	624.80	624.8	Mc Clintick Farms INC	Alfalfa Seed		Pivot		137	F, I	263.35	Meter	
12010	CER	NW	NW	3	42N	37E			5	5	20	20	Earp, Doris , Doyle, Jewell, Ken									

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17805	CER	SE	SE	9	42N	37E	Y	27206	315.9	315.9	698.61	698.61	Eriksen Family Trust	Grass Hay	3	Pivot	85%	130	F, I	458.82	N	
27206	CER	SW	SW	9	42N	37E	Y	17805	123.16		492.64		Eriksen Family Trust	Grass Hay	3	Pivot	85%	131	F, I	462.35	N	
15634	CER	NW	SE	10	42N	37E	Y	28020, 20126 (surface)	61.35	240.27	245.8	960.2	Eriksen Family Trust	Grass Hay	3	Sprinklers	75%	28	F, I	100.80	N	A
20126	CER	SW	SE	10	42N	37E	Y	28020, 15634 (surface)	178.19		712.76		Eriksen Family Trust	Grass Hay	3	Sprinklers	75%	89	F, I	320.40	N	A
31088	CER	SW	SE	10	42N	37E	N		36.36	36.36	145.44	145.44	Eriksen Family Trust									
28020	CER	SW	SW	10	42N	37E	Y	20126, 15634 (surface)	79.51		318.04		Eriksen, Woodrow	Grass Hay	3	Pivot	85%	130	F, I	412.94	N	A
31089	CER	SW	SW	10	42N	37E	N		25.5	25.5	102	102	Eriksen Family Trust									
28220	CER	NE	SE	8	42N	37E	Y	9	1220.54	1220.54	41.8	5456.84	Hetrick Brothers, INC.	Alfalfa Seed	3	Pivot	85%	125	F, I	441.18	N	
36241	CER	NE	NE	8	42N	37E	Y	9	1220.54		598.2		Hetrick Brothers, INC.	Alfalfa	3.1	Pivot	85%	125	F, I	455.88	N	
51715	CER	NE	NE	16	42N	37E	N		41.3	41.3	165.2	165.2	Hetrick Brothers, INC.	Alf-Seed		Flood		36	F, I	100.46	Meter	
28221	CER	NE	NE	16	42N	37E	Y	9	1220.54		290.8		Hetrick Brothers, INC.									
28222	CER	NE	NE	16	42N	37E	Y	9	1220.54		290.8		Hetrick Brothers, INC.									
28223	CER	NE	NE	16	42N	37E	Y	9	1220.54		303.2		Hetrick Brothers, INC.									
28225	CER	SE	SE	17	42N	37E	Y	9	1220.54		629.44		Hetrick Brothers, INC.	Alf-Seed		Pivot		126	F, I	245.07	Meter	
28226	CER	NE	SE	20	42N	37E	Y	9	1220.54		615.6		Hetrick Brothers, INC.	Mint		Pivot		125	F, I	177.55	Meter	
														Mint	3.1	Flood	60%	10	F, I	51.67	N	
28227	CER	NE	NW	21	42N	37E	Y	9	1220.54		1243.2		Hetrick Brothers, INC.	Alf-Seed		Pivot		128	F, I	390.63	Meter	
28228	CER	NE	NW	28	42N	37E	Y	9	1220.54		910.2		Hetrick Brothers, INC.	Alf-Seed		Pivot		127	F, I	637.04	Meter	
51718	CER	NE	NW	28	42N	37E	Y	51713	74	74	215.44	296	Hetrick Brothers, INC.	Mint	3.1	Pivot	85%	110	F, I	401.18	N	
51713	CER	NE	NW	28	42N	37E	Y	51718	74		80.56		Hetrick Brothers, INC.									
64258	CER	SE	NE	17	42N	37E	Y	9	1220.54		800		Hetrick Brothers, INC.	Alf-Seed		Pivot		194	F, I	507.69	Meter	
														Alf-Seed	3	Pivot	85%	64	F, I	225.88	N	
29068	CER	SW	NE	17	42N	37E	Y	9	1220.54		3257.08		Hetrick Brothers, INC.	Alf-Seed		Pivot		112	F, I	352.90	Meter	
51719	CER	NE	SW	20	42N	37E	Y	51714, 51717	500.97	500.97	950	2003.88	Hetrick Brothers, INC.	Grass		Pivot		130	F, I	350.11	Meter	
														Alf-Seed	3	Pivot	85%	126	F, I	444.71	N	
51714	CER	NW	NW	20	42N	37E	Y	51719, 51717	500.97		488.9		Hetrick Brothers, INC.	Alf-Seed		Pivot		126	F, I	315.66	Meter	
														Alf-Seed	3	Pivot	85%	134	F, I	472.94	N	
51717	CER	NE	NW	20	42N	37E	Y	51719, 51714	500.97		564.98		Hetrick Brothers, INC.	Alf-Seed		Pivot		131	F, I	257.08	Meter	
51716	CER	NE	NW	29	42N	37E	N		248.56	248.56	994.24	994.24	Hetrick Brothers, INC.	Alf-Seed		Pivot		325	F, I	416.98	Meter	
														Mint	3.1	Pivot	85%	81	F, I	295.41	N	
18496	CER	SE	SW	15	42N	37E	Y	83844	52	268.8	208	1075.2	Bartell Ranch LLC	Alfalfa		Pivot		158	F, I	738.65	Meter	
83844	PER	SE	SW	15	42N	37E		Buffalo Creek 18469	216.8		867.2		Bartell Ranch LLC	Pasture	2.5	Flood	60%	460	F, I	1725.00	N	A
19559	CER	NE	SW	16	42N	37E	N		26.43	26.43	105.72	105.72	Brinkerhoff, Walter	Alf-Seed	3	Pivot	85%	130	F, I	474.12	N	
14697	CER	NE	SW	16	42N	37E	N		170.52	170.52	657.2	657.2	Mc Clintick Farms INC									
14664	CER	NE	NE	18	42N	37E	N		160	160	640	640	Mc Clintick Farms INC	Alfalfa	3.1	Pivot	85%	128	F, I	466.82	N	
														Grain	2	Flood	60%	17	F, I	56.67	N	
84228	PER	NW	NW	27	42N	37E	Y	10	454.21	1015.51	817.8	4062.04	Villalobos Farms	Grain	2	Flood	60%	45	F, I	150.00	N	
84221	PER	NE	SE	28	42N	37E	Y	10	180.13		720.52		Villalobos Farms	Alfalfa	3.1	Pivots	85%	130	F, I	474.12	N	
84224	PER	NE	NE	28	42N	37E	Y	10	408.41		1312.52		Villalobos Farms	Alfalfa	3.1	Pivot	85%	250	F, I	911.76	N	
84217	PER	SW	SE	29	42N	37E	Y	10	156		624.00		Villalobos Farms									
84219	PER	SW	SE	29	42N	37E	Y	10	34.9		139.6		Villalobos Farms									
84222	PER	SW	SE	29	42N	37E	Y	10	25.09		100.36		Villalobos Farms									
84225	PER	SW	SE	29	42N	37E	Y	10	80.28		321.12		Villalobos Farms									
84226	PER	SW	SE	29	42N	37E	Y	10	299.73		644.33		Villalobos Farms									
84227	PER	NE	NW	33	42N	37E	Y	10	299.73		2169.44		Villalobos Farms	Alfalfa	3.1	Pivot	85%	122	F, I	444.94	N	
84229	PER	NE	NE	32	42N	37E	Y	10	149.48		597.92		Villalobos Farms	Alfalfa	3.1	Pivot	85%	131	F, I	477.76	N	

Crop Inventory and Groundwater Pumpage for Irrigation - Quinn River Valley - Orovada Subarea, Basin 033A, 2015

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 Rates	Irrigation Method	Irrigation Efficiency %	Irrigated Acres	Acreage Estimation Method	Acre-Feet Pumped	Pumpage Estimation Method	Remarks
														Alfalfa	3.1	Flood	60%	13.5	F, I	69.75	N	
84220	PER	NE	SW	33	42N	37E	Y	10	156.42		625.68		Villalobos Farms	Alfalfa	3.1	Pivot	85%	124	F, I	452.24	N	
84218	PER	NE	SE	4	41N	37E	Y	84223	120	240	480	960.00	Villalobos Farms	Alfalfa	3.1	Pivot	85%	134	F, I	488.71	N	
84223	PER	SE	SE	4	41N	37E	Y	84218	120		480		Villalobos Farms	Alfalfa	3.1	Pivot	85%	132	F, I	481.41	N	
23392	CER	NE	SW	3	41N	37E	Y	30183, 18065	199.24	402.2	835.04	1608.08	Wilson Ranch INC.	Alfalfa	3.1	Pivot	85%	124	F, I	452.24	N	A
30183	CER	SW	NE	3	41N	37E	Y	18065, 23392	402.02		1608.08		Wilson Ranch INC.	Alfalfa	3.1	Flood	60%	165	F, I	767.25	N	A
18065	CER	SW	SE	3	41N	37E	Y	23392, 30183	352.78		1436.68		Wilson Ranch INC.	Alfalfa	3.1	Pivot	85%	139	F, I	456.25	N	A
23965	CER	NE	SE	31	42N	37E			158.4	158.4	633.6	633.6	Smith, Blaine J. & Nina Rae	Alf-Seed		Pivot		138	F, I	247.67	Meter	
16141	CER	SE	SE	33	42N	37E			116.6	116.6	466.4	466.4	Smith, Blaine J. & Nina Rae	Alf-Seed	3	Pivot	85%	127	F, I	448.24	N	
19442	CER	NE	NE	8	41N	37E			78.9	78.9	315.6	315.6	Villalobos Farms a Partnership	Alfalfa	3.1	Pivot	85%	70	F, I	255.29	N	
15547	CER	NE	NE	8	41N	37E			5.4	5.4	21.6	21.6	Villalobos Farms a Partnership									
82263	PER	NE	SE	8	41N	37E	Y	82264	39.55	155.21	158.2	620.84	Blane & Nina Smith Trust	Alf-Seed	3	Pivot	85%	139	F, I	490.59	N	
82264	PER	NE	SE	8	41N	37E	Y	82263	155.21		620.84		Blane & Nina Smith Trust									
21088	CER	NW	SE	21	41N	37E	Y	28646, 28562	267.51	307.51	1070.04	1230.04	Frey, Leon L. & Mary L.	Alfalfa	3	Flood	60%	150	F, I	750.00	N	
28646	CER	NW	SE	21	41N	37E	Y	21088, 28562	151.4		241.32		Frey, Leon L. & Mary L.									
28562	CER	NE	NE	29	41N	37E	Y	21088, 28646	156.11		624.44		Frey, Leon L. & Mary L.	Alfalfa	3.1	Flood	60%	105	F, I	542.50	N	
														Corn	2.8	Flood	60%	120	F, I	560.00	N	
15919	CER	NE	SE	29	41N	37E	Y	*Tony Creek*	130.76	130.76	523.04	523.04	Frey, Lyle L.	Alfalfa	3.1	Flood	60%	180	F, I	837.00	N	A
														Grain	2	Flood	60%	12	F, I	40.00	N	
21228	CER	NE	NE	33	41N	37E		12448 surface2130	300.2	300.2	1200.8	1200.8	Frey, Lyle L.	Alfalfa	3.1	Flood	60%	17	F, I	79.05	N	A
12448	CER	NE	NE	33	41N	37E		21228 surface2130	12		48		Frey, Lyle ET UX									
12914	CER	NE	NE	33	41N	37E			41	41	164	164	Frey, Lyle L.									
16736	CER	SW	NW	6	41N	36E	Y	Surface	187.22	187.22	748.88	748.88	McErquiaga, John	Pasture	2.5	Flood	60%	187.22	F, I	780.08	N	
20094	CER	SW	SW	27	43N	36E	Y	21252, Surface	408.5	537.3	1634	2149.2	McErquiaga, Frank									
21252	CER	SW	SW	34	43N	36E	Y	20094, Surface	300.4		1201.6		McErquiaga, Frank									

Total Suplementally Adjusted Permitted/Certificated Acreage 20,952.77

Total Suplementally Adjusted Permitted/Certificated Pumpage 83,364.21

Total Estimated Acreage **18,780.32 Acres**

Total Estimated Pumpage **62,037.80 Acre Feet**

[1] PERMITS 29380, 29381, 29382, 29383, 29384, 29385, AND 29386 HAVE A TOTAL COMBINED DUTY OF 3,951.60 AFA.
[2] PERMITS 17301, 22007, 22849, AND 27696 HAVE A TOTAL COMBINED DUTY OF 1,154.48 AFA.
[3] PERMITS 79904, 79905, 79906, 80960, AND 80961 HAVE A TOTAL COMBINED DUTY OF 338.4 AFA.
[4] PERMITS 82252, 82253, 82254, 82255, 82256, 82257, 82258, 82259, 82260, 82261, AND 82262 HAVE A TOTAL COMBINED DUTY OF 5,270.24 AFA.
[5] PERMITS 15224, 16702, 17761, 28039, AND 28040 HAVE A TOTAL COMBINED DUTY OF 2840.1 AFA
[6] PERMITS 84762, 84764, 84765, 84766, 84767, 84768,84769,84770, AND 84772 HAVE A TOTAL COMBINED DUTY OF 852.32 AFA.
[7] PERMITS 12452, 19836, 23638, 24791, 26987, 29711, 29713, 29176, 29718, 29720, 29722, 29724, 29725, 62720, AND 62721 HAVE A TOTAL COMBINED
[8] PERMITS 14725, 28623, 58879, AND 64625 HAVE A TOTAL COMBINED DUTY OF 2,315.52 AFA.
[9] PERMITS 28220, 28221, 28222, 28223, 28225, 28226, 28227, 28228, 29068, 36241, AND 64258 HAVE A TOTAL COMBINED DUTY OF 5,456.84 AFA.
[10] PERMITS 84217, 84219, 84220, 84221, 84222, 84224, 84225, 84226, 84227, 84228, AND 84229 HAVE A TOTAL COMBINED DUTY OF 4062.04 AFA.
[A] Groundwater supplemental to surface. Estimate 90% groundwater irrigation, 10% surface water irrigation.