

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

DIVISION OF WATER RESOURCES

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KELLY CREEK AREA (HYDROGRAPHIC BASIN 4-066)

CROP INVENTORY

2012

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Table of Contents

ABSTRACT.....	1
HYDROGRAPHIC BASIN SUMMARY	2
PURPOSE AND SCOPE.....	3
DESCRIPTION OF THE STUDY AREA.....	3
FIGURE 1. LOCATION MAP OF KELLY CREEK AREA, BASIN 4-066	4
FIGURE 2. MAP OF KELLY CREEK AREA IRRIGATED ACREAGE.....	5
METHODS TO ESTIMATE IRRIGATED ACREAGE	6
METHODS TO ESTIMATE PUMPAGE	6
APPENDIX A	7
KELLY CREEK AREA HISTORICAL CROP INVENTORY	8
APPENDIX B	9
EXPLANATION OF COLUMN HEADINGS	10
2012 KELLY CREEK AREA CROP INVENTORY	12

ABSTRACT

This inventory represents the status and usage of all permitted and certificated groundwater rights for irrigation purposes located within Kelly Creek Area, Hydrographic Basin 4-066, for the year 2012. **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 2012, the permitted and certificated groundwater rights for irrigation purposes totaled **2,650 acres** with a total duty of 8,532 acre-feet within Kelly Creek Area. An estimated **1,562 acres** were irrigated and 6,208 acre-feet were pumped during 2012.

HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER	066, REGION 4
HYDROGRAPHIC BASIN NAME	KELLY CREEK AREA
COUNTIES	HUMBOLDT AND ELKO
MAJOR COMMUNITIES	N/A
DESIGNATED BASIN	ALL
DENIALS BASED UPON WATER AVAILABILITY	N/A
ESTIMATED IRRIGATION PUMPAGE 2012 (ACRE-FEET)	6,208*
STATE ENGINEER'S ORDERS	
NO. 536 – DESIGNATION OF BASIN	MAY 9, 1975
NO. 1087 - WELL SPACING	DECEMBER 30, 1993

COMMITTED GROUNDWATER RESOURCE FOR IRRIGATION PURPOSES: 7,469.66 ACRE-FEET
DATE: FEBRUARY 2013

NOTE: Committed groundwater resource data are accurate for February 2013. 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 Kelly Creek Area Hydrographic Basin 4-066, for the year 2012.

DESCRIPTION OF THE STUDY AREA

The Kelly Creek Area Hydrographic Basin is located in north central Nevada (Figure 1). Silver State Valley occupies approximately 300 square miles in Humboldt and Elko Counties. The adjacent hydrographic basins are Winnemucca Segment (4-070) to the southwest, Little Humboldt Valley (4-067) to the north and west, Clovers Area (4-064) to the south and east, and Pumpnickel Valley (4-065) to the south.

Kelly Creek Area is bounded on the north and east by the Snowstorm Mountain Range, to the south by the Humboldt River and the Red House Flat and to the west by the Dry Hills and the Osgood Mountains. The valley is approximately 13 miles wide by 32 miles long with basin elevations ranging from approximately 4,000 feet above mean sea level on the valley floor to approximately 8,000 feet above mean sea level in the surrounding mountains. Irrigation occurs primarily in the central part of the basin (Figure 2).

FIGURE 1. LOCATION MAP OF KELLY CREEK AREA, BASIN 4-066

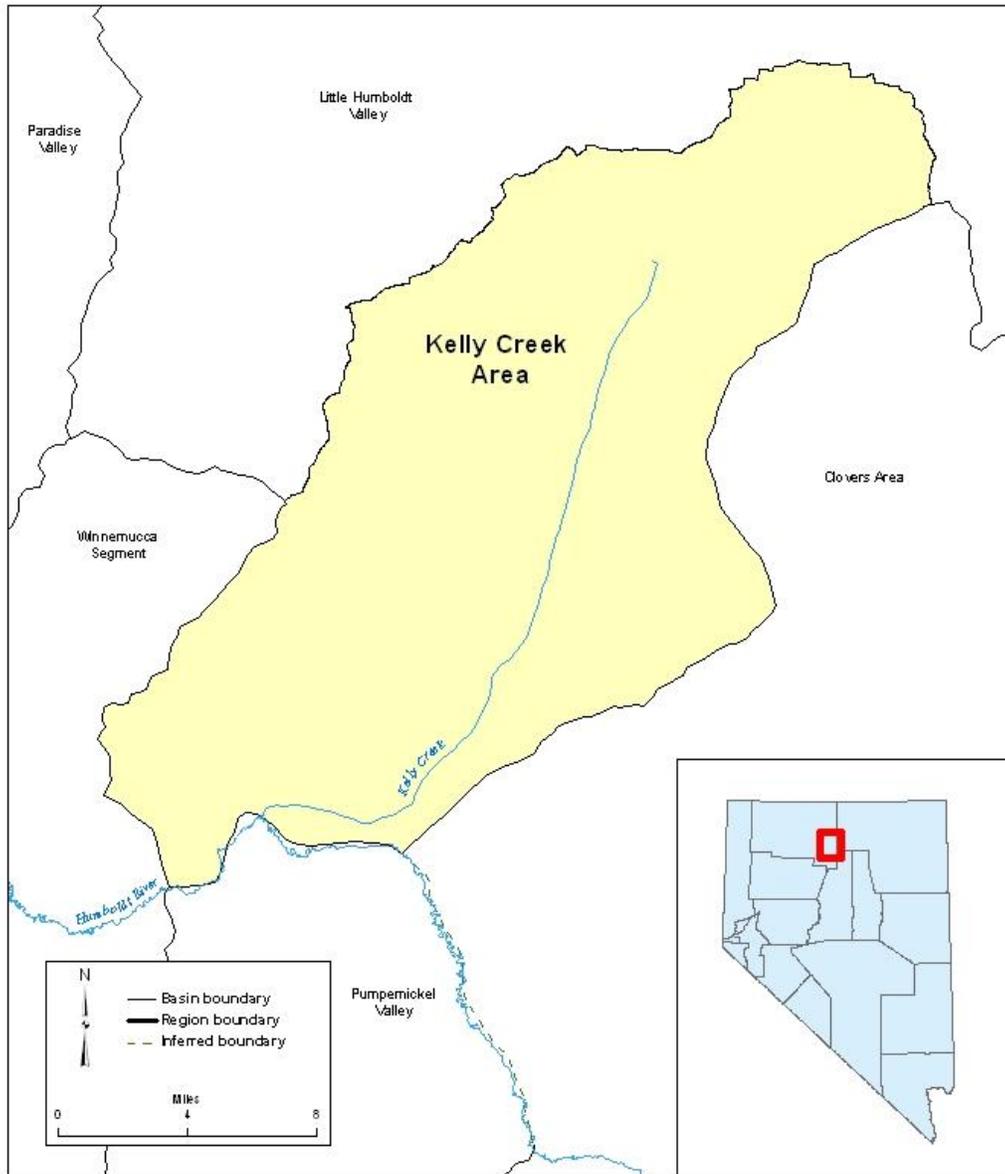
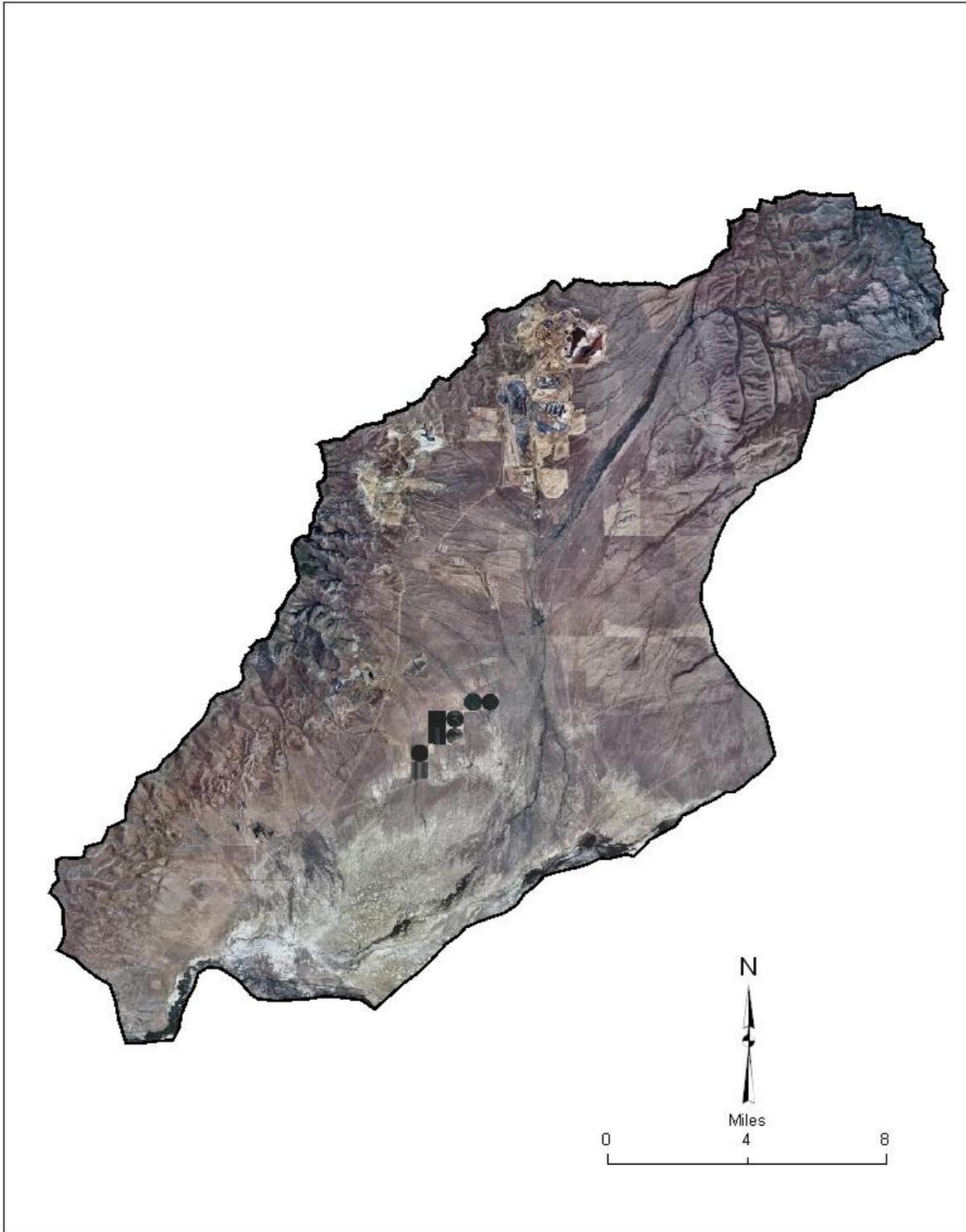


FIGURE 2. MAP OF KELLY CREEK AREA IRRIGATED ACREAGE



NATIONAL AGRICULTURAL IMAGERY PROGRAM (NAIP) 2010

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

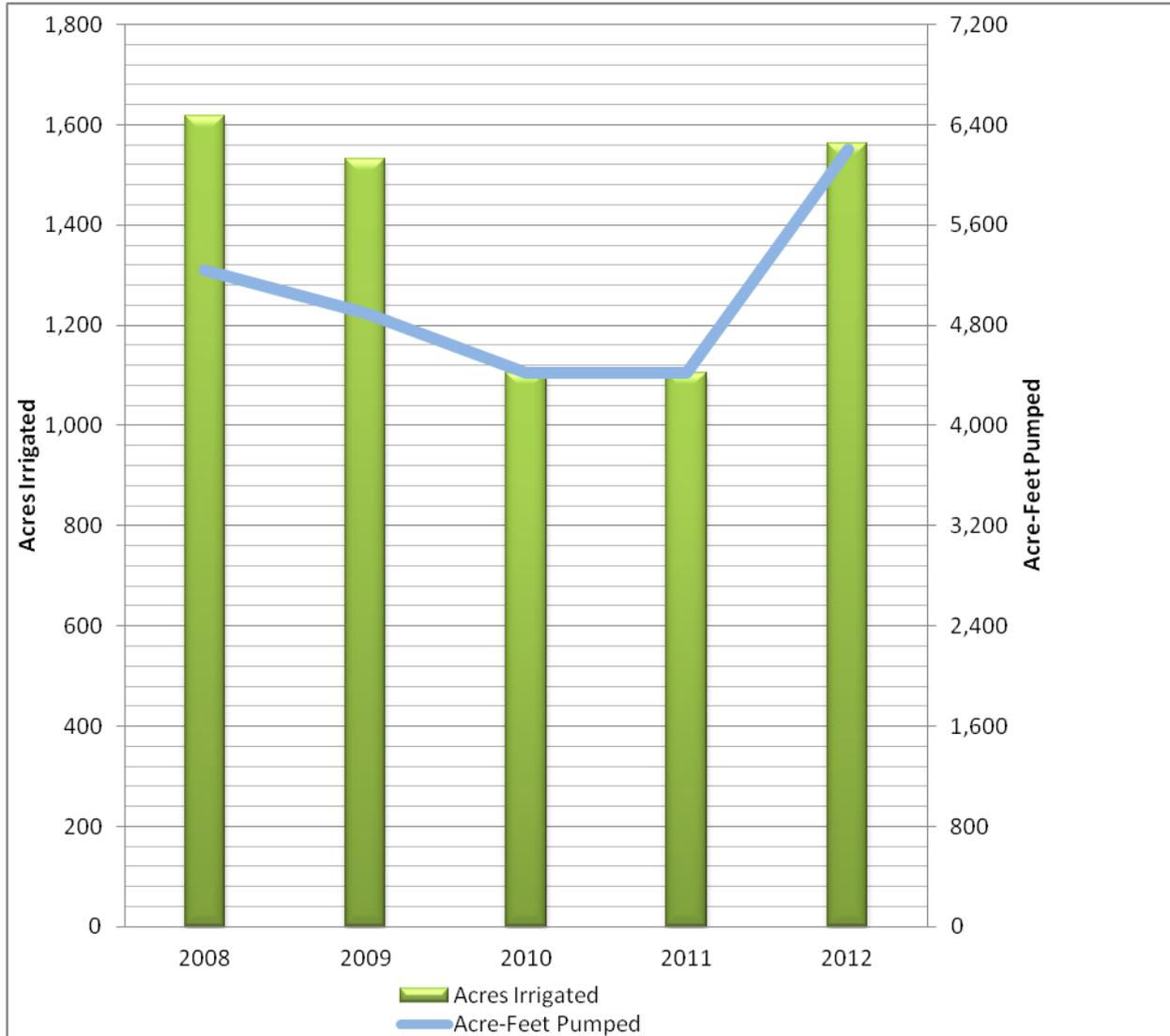
This report estimates the amount of groundwater pumped under permits and certificates issued by the State Engineer. The following methods were used to arrive at the estimated use:

- 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.
- Prior to 2006, only cultivated acreage was recorded; therefore, the acres under cultivation were then multiplied by the duty rate per acreage (4.0 AF/acre).

APPENDIX A
KELLY CREEK AREA HISTORICAL CROP INVENTORY

KELLY CREEK AREA HISTORICAL CROP INVENTORY

Year	2008	2009	2010	2011	2012
Acres Irrigated	1,617	1,532	1,106	1,106	1,562
Acre-Feet Pumped	5,239	4,899	4,424	4,424	6,208



APPENDIX B

2012 KELLY CREEK AREA CROP INVENTORY

EXPLANATION OF COLUMN HEADINGS

BASIN	The hydrographic basin in which the water right resides.
APP	The file number of the Application to Appropriate/Change Water or the Claim of Vested of Right.
CERT	The certificate number that was issued under the Application to Appropriate/Change Water.
FILE DATE	The date when the Application to Appropriate/Change Water or the Claim of Vested Right was filed in the Office of the State Engineer.
SOURCE	States the source of water: underground (UG), stream (STR), or spring (SPR).
STATUS	Indicates the status of an application: Permit (PER), Certificated, or a Claim of Vested Right (VST).
QTR	The quarter-quarter of the Section in which the point of diversion is located.
QTR	The quarter of the Section in which the point of diversion is located.
SEC	The Section 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.
SUP PERMIT NO.	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.
DUTY	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 may be listed at the end of the supplemental group in bold .
UNITS	The units associated with the duty, expressed as acre-feet annually (AFA) or acre-feet per season (AFS).
COUNTY	The County in which the point of diversion is located.

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 Y/N	Indicates whether or not a crop was in production during the water year. A “Y” in this column signifies a crop was in production while a “N” signifies no crop was in production.
TYPE	The common name description of the plants under cultivation (e.g. alfalfa).
IRR	The method by which the water is applied to the crop and ground (e.g. pivot).
IRR ACRES	The estimate of the number of acres irrigated associated with a particular water right.
DUTY USED/ PUMPAGE	The estimate of the amount of water pumped under a particular water right, expressed in acre-feet. One acre-foot equals 325,851 gallons.

CROP INVENTORY AND GROUNDWATER PUMPAGE FOR IRRIGATION, KELLY CREEK AREA, BASIN 066, 2012

Basin	App	Cert	File Date	Status	Source	QTR	QTR	SEC	TwN	Rng	Sup	Sup Permit No.	Permitted Acres	Duty	Units	County	Owner of Record	Crop Y/N	Type	Irr by:	Irr Acres	Duty Used	Units	
66	78852		8/26/2009	PER	UG		LT01	8	36N	41E	N		19.745	78.98	AFA	HU	GENE AND JO CHRISTISON FAMILY TRUST	N	no crop	wheel lines	0	0	AFA	
													19.745	78.98	AFA						0	0		
66	82001T		7/6/2012	PER	UG		LT01	8	36N	41E	N		20	80	AFA	HU	SANTA FE PACIFIC GOLD	Y	starter crop	wheel lines	20	40	AFA	
													20	80	AFA						20	40		
66	60154		6/23/1994	PER	UG	NW	SE	24	37N	41E	N		85	340	AFA	HU	GENE AND JO CHRISTISON FAMILY TRUST	N	no crop	not pumped	0	0	AFA	
													85	340	AFA						0	0		
66	80903		6/16/2011	PER	UG	LT		0	1	37N	42E	Y	80903-80905, 80908-80911	70	280	AFA	HU	CRAWFORD FAMILY LIVING TRUST DTD 3/17/2004	Y	alfalfa	4 pivots sec 1	0	0.0	AFA
66	80904		6/16/2011	PER	UG	LT		0	1	37N	42E	Y	80903-80905, 80908-80911	70	280	AFA	HU	CRAWFORD FAMILY LIVING TRUST DTD 3/17/2004	Y	alfalfa	4 pivots sec 1	0	0.0	AFA
66	80905		6/16/2011	PER	UG	LT		0	1	37N	42E	Y	80903-80905, 80908-80911	500	397.74	AFA	HU	CRAWFORD FAMILY LIVING TRUST DTD 3/17/2004	Y	alfalfa	4 pivots sec 1	125	500.0	AFA
66	80908		6/16/2011	PER	UG	LT		0	1	37N	42E	Y	80903-80905, 80908-80911	292.9	583.41	AFA	HU	CRAWFORD FAMILY LIVING TRUST DTD 3/17/2004	Y	alfalfa	4 pivots sec 1	125	500.0	AFA
66	80909		6/16/2011	PER	UG	LT		0	1	37N	42E	Y	80903-80905, 80908-80911	137.1	275.45	AFA	HU	CRAWFORD FAMILY LIVING TRUST DTD 3/17/2004	Y	alfalfa	4 pivots sec 1	0	0.0	AFA
66	80910		6/16/2011	PER	UG	LT		0	1	37N	42E	Y	80903-80905, 80908-80911	137.1	200.33	AFA	HU	CRAWFORD FAMILY LIVING TRUST DTD 3/17/2004	Y	alfalfa	4 pivots sec 1	0	0.0	AFA
66	80911		6/16/2011	PER	UG	LT		0	1	37N	42E	Y	80903-80905, 80908-80911	137.1	179.14	AFA	HU	CRAWFORD FAMILY LIVING TRUST DTD 3/17/2004	Y	alfalfa	4 pivots sec 1	0	0.0	AFA
66	81006		7/27/2011	PER	UG	LT		0	1	37N	42E	Y	80903-80905, 80908-80911	137.1	275.45	AFA	HU	CRAWFORD FAMILY LIVING TRUST DTD 3/17/2004	Y	alfalfa	4 pivots sec 1	125	500.0	AFA
66	81007		7/27/2011	PER	UG	LT		0	1	37N	42E	Y	80903-80905, 80908-80911	500	198.87	AFA	HU	CRAWFORD FAMILY LIVING TRUST DTD 3/17/2004	Y	alfalfa	4 pivots sec 1	125	500.0	AFA
													500	2000	AFA					500	2000			
66	28768	9061	10/3/1974	CER	UG	NE	SW	2	37N	42E	Y	All	1594.5	435.33	AFA	HU	CRAWFORD FM TR AND KADE & ELIZABETH CR	Y	alfalfa	pivot SE Sec 2	126	504.0	AFA	
66	29154	9556	1/16/1975	CER	UG	NW	NW	2	37N	42E	Y	All	637.1	1004.55	AFA	HU	CRAWFORD FM TR AND KADE & ELIZABETH CR	Y	alfalfa	pivot NW Sec 2	126	504.0	AFA	
66	29885	9557	1/6/1976	CER	UG	NE	SW	36	38N	42E	Y	All	320	1000	AFA	HU	CRAWFORD FAMILY TRUST	Y	alfalfa	pivot SE Sec 36	126	504.0	AFA	
66	29886	9558	1/6/1976	CER	UG	NW	SW	36	38N	42E	Y	All	320	1000	AFA	HU	CRAWFORD FAMILY TRUST	Y	alfalfa	pivot SW Sec 36	126	504.0	AFA	
66	29887	9559	1/6/1976	CER	UG	NW	SW	2	37N	42E	Y	All	1594.5	870.66	AFA	HU	CRAWFORD FAMILY TRUST	Y	alfalfa	pivot SW Sec 2	126	504.0	AFA	
66	29888	9560	1/6/1976	CER	UG	NE	NW	10	37N	42E	Y	All	277.6	640	AFA	HU	CRAWFORD FAMILY TRUST	Y	alfalfa	pivot NE Sec10	126	504.0	AFA	
66	29889	9561	1/6/1976	CER	UG	NE	NW	10	37N	42E	Y	All	317.4	640	AFA	HU	CRAWFORD FAMILY TRUST	N	no crop	W1/2 Sec 10	0	0.0	AFA	
66	29890	9562	1/6/1976	CER	UG	NE	SW	10	37N	42E	Y	All	637.4	686.19	AFA	HU	CRAWFORD FAMILY TRUST	Y	alfalfa	wheel lines	160	640.0	AFA	
66	29891	9563	1/6/1976	CER	UG	NE	NW	2	37N	42E	Y	All	637.1	1004.55	AFA	HU	CRAWFORD FAMILY TRUST	Y	alfalfa	pivot NE Sec 2	126	504.0	AFA	
66	41522	10167	6/13/1980	CER	UG	NE	NW	10	37N	42E	Y	All	637.4	235.63	AFA	HU	CRAWFORD FAMILY TRUST	N	no crop	W1/2 Sec 10	0	0.0	AFA	
66	43848	10536	6/5/1981	CER	UG	SW	SW	2	37N	42E	Y	All	637.1	653.3	AFA	HU	CRAWFORD FAMILY TRUST	Y	alfalfa	counted w/29887	0	0.0	AFA	
												Supplemental Totals	1594.5	5098.49							1042	4168.0		
66	62822		1/29/1997	PER	UG	NW	NE	15	37N	42E	Y	62823	197.44	723.95	AFA	HU	GENE & JO CHRISTISON FAMILY TRUST	N	no crop	well drilled	0	0	AFA	
66	62823		1/29/1997	PER	UG	NW	NE	15	37N	42E	Y	62822	197.44	723.95	AFA	HU	GENE & JO CHRISTISON FAMILY TRUST	N	no crop	well drilled	0	0	AFA	
												Supplemental Totals	394.88	789.76							0	0		
66	35494	11033	6/1/1978	CER	UG	NE	SE	18	37N	43E	N		36.18	144.72	AFA	HU	NEWMONT USA LIMITED	N	no crop	no irr equip	0	0	AFA	
													0	0						0	0			
																			Basin Totals:		1562	6208.0		