WARM SPRINGS VALLEY
GROUNDWATER PUMPAGE
1988

1988 PUMPAGE INVENTORY

WARM SPRINGS VALLEY

The 1988 pumpage inventory was conducted on August 25-26 and September 7, 1988. All of the permitted/certificated underground rights were field investigated and an estimate of water use was derived from these observations. Irrigation continues to be the primary source of water consumption. Alfalfa is the major crop. Potatoes covered 160 acres in 1988. All other crops were limited to 1 and 2 acre-feet of water per acre of land. Other crops were estimated individually. Total irrigation pumpage was estimated to be 4,558 acre-feet for 1988.

The primary area of irrigation lies east and south of the Pyramid Lake Highway (State Route 445) in a band approximately 1-1/2 miles wide and 3-1/2 miles long. The only other large tract of irrigated land is located approximately 3-1/2 miles west of the highway intersection with Whiskey Springs Road. It covers 133.85 acres in the north central portion of the valley. The remainder of the irrigated land is comprised of 1.0 to 5.0 acre fields primarily located within the central and southeastern portions of the basin.

Domestic pumpage was estimated from a count of domestic wells drilled within the valley. It was assumed that 75% of these wells actually served a single family dwelling. Since a large percentage of the homes had very minimal landscaping, pumpage was estimated at 1,000 gallons per day per house. Using this methodology, we estimated domestic pumpage at 207.0 acre-feet annually.

Stockwatering was estimated at 10.0 acre-feet annually.

Water was used for recreational purposes at two facilities within the valley. One is the Air Sailing, Inc., glider strip, hanger and trailers. The other is the Washoe County Regional Shooting Facility. Their combined pumpage was less than 10.0 acre-feet annually.

Quasi-municipal use accounted for only 0.05 acre-feet of annual pumpage. This figure could be increased to 184.0 acre-feet if and when the Reno-Sparks Indian Colony project becomes a reality.

In summary, irrigation accounts for the largest portion of pumpage. Domestic ranks a distant second with other uses almost insignificant by comparison.

Recharge from irrigation is not readily estimated. To determine the percentage of recharge, many variables must be accounted for: rate of water application, infiltration and percolation rates which are tied to soil type and structure, total depth of wetting and direct evaporation rates.

Total pumpage for 1988 for all uses including domestic wells was estimated to be **4788.0 acre-feet annually.**

Division of Water Resources
201 South Fall Street
Carson City, Nevada 89710
(702) 885-4380

HYDROGRAPHIC AREA SUMMARY

Date 12/2/88

HYDROGRAPHIC AREA NUMBER : 084 REGION 06
HYDROGRAPHIC AREA NAME : WARM SPRINGS VALLEY
SUBAREA : NONE
COUNTY : WASHOE
NEAREST COMMUNITIES : SPARKS
DESIGNATED : YES **RESTRICTED** NO
PREFERRED USE : NONE
PREVIOUS DENIALS: Concentration : YES **Irrigation** YES
Quasi-Municipal : NO **Stock** NO
Other : NONE
ABSTRACT: Hand Abstract : YES **Date:** 05/09/79
Computer Abstract : YES **Date:** 08/04/88
GROUND WATER MEASUREMENTS: DWR : YES **USGS:**
GROUND WATER LEVELS: Declining : **No Change:**
PUMPAGE INVENTORY AVAILABLE : YES **Date:** 1988
PUMPAGE AFY : 4,788 (INCLUDING DOMESTIC)
PERENNIAL YIELD AFY : 3,000
COMMITTED RESOURCE AFY : 6,785
REPORTS: USGS Reconnaissance : 43, 57
USGS Bulletin Series : NONE
DWR Reference Report : 120, 194
Other :

STATE ENGINEER'S ORDERS: 607 - DESIGNATION **Date:** 1/18/77
Date:
Date:
Date:
Date:

COMMENTS:

WARM SPRINGS VALLEY WATER RIGHTS - DUTIES IN ACRE-FEET

APP. NO.	CERT. NO.	STATUS	OWNER OF RECORD	DUTY	MOU	1986	1987	1988
13630	3638	CER	MCO PROPERTIES	72.00	IRR	0.00	0.00	0.00
15632	4459	CER	PRATT PROPERTIES	8.68	STK	1.00	1.00	1.00
20745	5944	CER	P.V. FARMS	34.83	IND	0.00	0.00	0.00
20746	5943	CER	PRATT PROPERTIES INC.	26.76	IND	2.00	2.00	2.00
23888	8283	CER	PRATT PROPERTIES	846.12	IRR	642.48	642.48	642.40
24099	7599	CER	MCO PROPERTIES INC	52.00	STK	0.00	0.00	0.00
24099	7599	CER	UNITED STATES OF AMERICA - B.L.M.	4.00	STK	4.00	4.00	4.00
25277	8513	ABR	AREA WEST INC.	0.00	IRR	180.00	180.00	
27395	9317	CER	AIR SAILING INC.	8.02	REC	8.02	8.02	8.02
27667	8627	CER	AREA-WEST INC.	56.20	IRR	80.00	0.00	0.00
28071	8628	CER	MCO PROPERTIES INC.	51.88	IRR	51.68	0.00	0.00
28076	8518	CER	MCO PROPERTIES INC.	102.80	IRR	102.80	102.80	102.80
28444	10632	CER	MCO PROPERTIES INC.	570.80	IRR	530.40	530.40	340.00
28445	8519	CER	AREA-WEST INC OF NEVADA	397.20	IRR	397.20	397.20	397.20
28446	8633	CER	AREA-WEST INC.	56.20	IRR	80.00	0.00	0.00
28447	8634	CER	MCO PROPERTIES INC.	55.20	IRR	55.20	27.60	0.00
30108	10578	CER	MCO PROPERTIES INC.	16.00	IRR	16.00	16.00	16.00
30109	10579	CER	MCO PROPERTIES INC.	106.00	IRR	114.00	114.00	114.00
30110	10580	CER	MCO PROPERTIES INC.	144.80	IRR	144.80	144.80	144.80
30111	10581	CER	MCO PROPERTIES INC.	106.40	IRR	106.40	106.40	53.20
30112	10582	CER	MCO PROPERTIES INC. (SUPP. TO 30111)	97.17	IRR	0.00	0.00	53.20
30113	10583	CER	MCO PROPERTIES INC.	68.80	IRR	68.80	68.80	68.80
30114	10584	CER	MCO PROPERTIES INC.	37.20	IRR	0.00	37.20	37.20
30115	10585	CER	MCO PROPERTIES INC.	140.00	IRR	0.00	1.96	41.47
30116	10586	CER	MCO PROPERTIES INC.	160.00	IRR	0.00	13.16	13.16
30117	10587	CER	MCO PROPERTIES INC.	60.00	IRR	0.00	58.60	58.60
30118	10588	CER	MCO PROPERTIES INC.	102.80	IRR	0.00	74.44	74.44
30119	10589	CER	MCO PROPERTIES INC.	124.00	IRR	200.00	0.00	0.00
30341	10508	CER	MCCULLOCH PROPERTIES INC.	5.77	STK	0.22	0.22	0.22
31065	10546	ABR	AREA-WEST INC. OF NEVADA	0.00	IRR	428.30	485.60	
32363		PER	MCCULLOCH PROPERTIES INC.	24.00	IRR	4.00	4.00	0.00
34668	10495	CER	JEAN BAPTISTE & FRANK GARIADOR	8.00	IRR	8.00	8.00	4.00
34670	9862	CER	BILLY G. & JERRY L. NELMS	40.00	IRR	40.00	40.00	40.00
35486	10034	CER	JOHN G. & SUSAN C. CLAYPOOL	8.00	IRR	8.00	8.00	8.00
35565	11087	CER	AIR SAILING INC.	0.15	REC	0.15	0.15	0.15
39166	10496	CER	BILLY G. & JERRY L. NELMS	80.00	IRR	80.00	80.00	80.00
39167	10457	CER	BRENT N. DOUGLAS	160.00	IRR	152.00	152.00	152.00
39849		PER	WASHOE COUNTY	19.98	REC	1.00	8.50	1.00
40587	11180	CER	MCO PROPERTIES INC.	80.00	IRR	0.00	0.00	0.00
42403		PER	TRUCKEE MEADOWS FIRE PROTECTION DISTRICT	3.07	QM	0.05	0.05	0.05
43005	11238	CER	CLIFFORD E. & JACQUELINE C. WELLS	100.00	IRR	100.00	100.00	100.00
43006	11181	CER	MCO PROPERTIES INC.	8.00	IRR	2.00	2.00	0.00
45095	10798	CER	THOMAS R. & JACQUELINE HILDENBRAND	8.00	IRR	8.00	8.00	8.00
46199		PER	MCO PROPERTIES INC.	172.00	IRR	172.00	172.00	172.00
47562		PER	BILL L. & WANDA WALKER	16.00	IRR	13.90	13.90	16.00
47564		PER	MCO PROPERTIES INC.	8.00	IRR	8.00	4.00	1.00
47599		PER	LEWIS H. & NORA POLIZZI	8.00	IRR	2.00	3.00	4.00
48819		PER	INTERMOUNTAIN LAND COMPANY	5.19	STK	5.19	5.19	5.19
49175		PER	MCO PROPERTIES INC.	4.00	IRR	0.00	0.00	0.00
49262		PER	MCO PROPERTIES INC. (COWMAN)	8.00	IRR	8.00	8.00	8.00
49444		PER	MCO PROPERTIES INC. (JIM HICKS)	8.00	IRR	0.00	0.00	0.00
49445		PER	MOORE & MCCROREY (1/2 INT. EA.)	56.00	IRR	0.00	32.00	0.00
49530		PER	MCO PROPERTIES INC. (COWMAN)	20.00	IRR	20.00	20.00	20.00

WARM SPRINGS VALLEY WATER RIGHTS - DUTIES IN ACRE-FEET

APP. NO.	CERT. NO.	STATUS	OWNER OF RECORD	DUTY	MOU	1986	1987	1988
49669	11974	CER	INTERMOUNTAIN LAND COMPANY	235.40	IRR	235.40	235.40	235.40
49670	11975	CER	INTERMOUNTAIN LAND COMPANY	300.00	IRR	300.00	300.00	300.00
49709		PER	MCO PROPERTIES INC.	86.00	IRR	86.00	86.00	86.00
49710		PER	MCO PROPERTIES INC.	150.60	IRR	150.60	150.60	150.60
49711		PER	AREA-WEST OF NEVADA	139.40	IRR	139.40	139.40	0.00
49712		PER	AREA-WEST OF NEVADA	85.60	IRR	85.60	85.60	55.20
49713		PER	MCO PROPERTIES INC.	32.12	IRR	0.00	32.12	0.00
49714		PER	MCO PROPERTIES INC.	127.88	IRR	0.00	127.88	0.00
50054		PER	KENNETH L. & SUE C. MCGUIRE	10.00	IRR	0.00	0.00	0.00
50055		PER	MOORE & MCCROREY (1/2 INT. EA.)	16.00	IRR			0.00
50056		PER	ORLANDO & NINA B. BOANINI	12.00	IRR	0.00	0.00	4.00
50513		PER	AREA-WEST INC.	180.00	IRR	180.00	180.00	180.00
50514		PER	AREA WEST INC.	540.00	IRR			422.40
50867		PER	AREA-WEST INC. OF NEVADA	117.60	IRR		23.72	68.42
50868		WDN	AREA-WEST INC. OF NEVADA	0.00	IRR	117.60	117.60	117.60
50869		PER	AREA-WEST INC. OF NEVADA	99.60	IRR		127.60	127.60
50873		PER	AREA-WEST INC. OF NEVADA	23.80	IRR			17.85
50874		PER	AREA-WEST INC. (SUPP. TO 50873)	23.80	IRR			17.85
51002		PER	THOMAS R. & JACQUELINE HILDENBRAND	12.00	IRR		0.00	0.00
51169		PER	RAYMAND F. & GERDA T. HEMENWAY	8.00	IRR			0.00
51170		PER	RAYMOND F. & GERDA T. HEMENWAY	2.00	DTH			2.00
51474		PER	RAYMOND F. & GERDA T. HEMENWAY	7.00	IRR			0.00
51534		PER	LAWRENCE J. SIMOMS	2.02	QM			0.00
51883		PER	EARL E. YORK	20.00	IRR			5.00
51971		PER	LAWRENCE J. SIMONS	2.02	QM			0.00
51972		PER	LAWRENCE J. SIMONS	2.02	QM			0.00
51973		PER	LAWRENCE J. SIMONS	2.02	QM			0.00
51974		PER	LAWRENCE J. SIMONS	2.02	QM			0.00
51975		PER	LAWRENCE J. SIMONS	2.02	QM			0.00
51976		PER	LAWRENCE J. SIMONS	2.02	QM			0.00
51977		PER	LAWRENCE J. SIMONS	2.02	QM			0.00
52089		PER	RENO-SPARKS INDIAN COLONY	91.85	QM	0.00	0.00	0.00
52090		PER	RENO-SPARKS INDIAN (SUPP. TO 49036)	91.85	QM	0.00	0.00	0.00
52201		RFA	DIK S. BUXTON	0.00	IRR			0.00
52202		RFA	ROBERT J. AVILA	0.00	IRR			0.00
52456		APP	AREA WEST INC. OF NEVADA	0.00	IRR			
52457		APP	AREA WEST INC. OF NEVADA	0.00	IRR			
52573		APP	ROBERT K. PETERSON	0.00	IRR			
52708		APP	GEORGE W. & LOLITA NEWELL	0.00	IRR			
				========		========	========	========
				6784.68		5,140	5,291	4,581

STATIC WATER LEVEL REPORT

FOR WARM SPRINGS VALLEY

Several wells were measured during the pumpage inventory. Generally, wells that were isolated from the areas of extensive irrigation pumpage showed no significant change in static water levels. Those wells within close proximity to irrigation wells reflected some lowering which is to be expected at this time of year.

A trend in water levels will not be noted until the spring-time static levels are measured prior to the commencement of irrigation pumpage in 1989.

WARM SPRINGS VALLEY WELL MEASUREMENTS (1983-88)

LEGAL DESCRIPTION	LOCATION U.S.G.S.	DATE	STATIC LEVEL	CASING DIA "	USE	REMARKS
T.21N.R.20E.SEC.07	212007AC	4/11/84	148.07	6	DOM	NOT USED
	212007AC	4/10/87	146.34	6	DOM	NOT USED
	212007AC	2/25/88	147.08	6	DOM	NOT USED
T.21N.R.20E.SEC.08	212008CCAD	12/19/83	58.12	8	STOCK	POWER BOX SHOT UP
	212008CCAD	4/12/84	57.87	8	STOCK	
	212008CCAD	4/10/87	56.65	8	STOCK	PUMPED FOR SHORT PERIODS
	212008CCAD	2/25/88	56.50	8	STOCK	NOT RECENTLY PUMPED
T.22N.R.20E.SEC.02	222002CD	12/12/83	69.95	6	IRR	NOT USED
	222002CD	4/12/84	69.99	6	IRR	NOT USED
	222002CD	4/10/87	69.83	6	IRR	NOT USED
	222002CD	2/25/88	69.99	6	IRR	NOT USED
T.22N.R.21E.SEC.04	222104DAC	12/19/83	118.60	12	IRR	DURING RECOVERY
	222104DAC	4/11/84	111.20	12	IRR	MEAS. PRIOR TO IRR.
	222104DAC	4/10/87	119.95	12	IRR	POSSIBLY PUMPED PRIOR TO IRR.
	222104DAC	2/25/88	128.74	12	IRR	NO PUMPING PRIOR TO MEASUREMENT
T.22N.R.21E.SEC.05	222105AB	12/19/83	102.77	6	OBS	DURING WINTER RECOVERY PERIOD
	222105AB	4/11/84	99.04	6	OBS	MEAS. PRIOR TO IRR.
	222105AB	4/10/87	112.23	6	OBS	NEARBY IRR. WELL RECENTLY PUMPED
	222105AB	2/25/88	111.57	6	OBS	OBSERVATION WELL W/IN PIVOT AREA
	222105AB	9/ 7/88	126.49	6	OBS	NEARBY RECENT PUMPING
T.22N.R.21E.SEC.06	222106AD	12/19/83	113.30	6	IND	WELL W/IN 200'-THIS WELL ABANDONED
	222106AD	4/11/84	113.51	6	IND	WELL W/IN 200'-THIS WELL ABANDONED
	222106AD	4/10/87	118.29	6	IND	WELL W/IN 200'-THIS WELL ABANDONED
	222106AD	2/25/88	121.48	6	QM	WELL ABANDONED-NEARBY WELL FOR QM
	222106AD	9/ 7/88	122.41	6	QM	WELL ABANDONED-NEARBY WELL FOR QM
T.22N.R.21E.SEC.07	222107BD	12/19/83	65.07	8		ABANDONED
	222107BD	4/11/84	65.05	8		ABANDONED
	222107BD	4/10/87	64.19	8		ABANDONED
	222107BD	2/25/88	63.57	8		ABANDONED
	222107BD	9/ 8/88	64.54	8		ABANDONED
T.22N.R.21E.SEC.10	222110CDD	12/19/83	114.86	6	DOM	NOT USED
	222110CDD	4/11/84	115.11	6	DOM	NOT USED
	222110CDD	4/10/87	112.24	6	DOM	NOT USED
	222110CDD	2/25/88	130.00	6	DOM	NOT USED
T.22N.R.21E.SEC.16	222116BBD	12/19/83	157.80	12	IRR	
	222116BBD	4/11/84	155.35	12	IRR	
	222116BBD	4/10/87	166.13	12	IRR	PUMPED PRIOR TO MEAS.
	222116BBD	2/25/88	175.07	12	IRR	NO RECENT PUMPING
T.22N.R.21E.SEC.23	222123CDA	12/19/83	50.00	6	DOM	NOT USED
	222123CDA	4/11/84	48.91	6	DOM	NOT USED
	222123CDA	4/10/87	45.86	6	DOM	NOT USED
	222123CDA	2/25/88	45.23	6	DOM	NOT USED
T.23N.R.20E.SEC.13	232013ABCA	4/13/87	81.59	6	DOM	NOT USED
	232013ABCA	2/25/88	81.65	6	DOM	NOT USED
	232013ABCA	8/26/88	84.13	6	DOM	
T.23N.R.20E.SEC.22	232022ABB	12/12/83	11.70	12	IRR	NO PUMP IN OPEN CASING W/ COVER
	232022ABB	4/11/84	11.12	12	IRR	NO PUMP IN OPEN CASING W/ COVER
	232022ABB	4/10/87	13.04	12	IRR	NEW M.P. THRU PUMP BASE
	232022ABB	2/25/88	13.47	12	IRR	MEAS. PRIOR TO ANY PUMPAGE
T.23N.R.20E.SEC.25	232025CB	12/12/83	17.18	6	DOM	HOUSE UNOCCUPIED
	232025CB	4/11/84	18.23	6	DOM	HOUSE UNOCCUPIED
	232025CB	4/10/87	0.00	6	DOM	WELL LOCKED-HOUSE OCCUPIED
	232025CB	2/25/88	0.00	6	DOM	DISCONTINUED-UNACCESSABLE

WARM SPRINGS VALLEY WELL MEASUREMENTS (1983-88)

LEGAL DESCRIPTION	LOCATION U.S.G.S.	DATE	STATIC LEVEL	CASING DIA "	USE	REMARKS
T.23N.R.20E.SEC.35	232035ABAB	12/19/83	52.11	8	DOM	NOT USED
	232035ABAB	4/11/84	53.62	8	DOM	NOT USED
	232035ABAB	4/10/87	54.89	8	DOM	NOT USED
	232035ABAB	2/25/88	55.38	8	DOM	NOT USED
	232035ABAB	8/26/88	56.92	8	DOM	NOT USED
T.23N.R.21E.SEC.19	232119DCD	4/11/84	17.22	8	DOM	HOUSE IS UNOCCUPIED
	232119DCD	4/10/87	0.00	8	DOM	HOUSE OCCUPIED-NOT MEAS.
	232119DCD	2/25/88	0.00	8	DOM	DISCONTINUED-HOUSE OCCUPIED

SUMMARY OF GROUND WATER PUMPAGE INVENTORY FOR WARM SPRINGS VALLEY BASIN NO. 84

1988

NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE 1/4	1/4	S	T	R	ACRES	NUMBER OF ACRES IRRIGATED	AMOUNT OF WATER USED (ACRE-FEET)	REMARKS
13630	3638	MCO Properties	NE	SW	18	22N	22E	2.0			Parcels are covered by rabbit brush and sage-brush.
			NW	SW	18	22N	22E	16.0			
			SW	SE	18	22N	22E	21.4	0.0	0.0	
								39.4			
15632	4459	McCulloch Prop. Inc.	NW	SE	10	22N	21E			1.0	Stk.-400 cattle. None present during field investigation. Several horses and African deer using source.
20745	5944	P. V. Farms		SE	29	22N	21E			0.0	No use at this site.
20746	5943	N. Amer. Aviation	S2	NE	6	22N	21E				Current use for offices and light indust. (Probably restrooms only.)
			N2	SE	6	22N	21E			2.0	

SUMMARY OF GROUND WATER PUMPAGE INVENTORY FOR WARM SPRINGS VALLEY BASIN NO. 84

1988

NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE 1/4	1/4	S	T	R	ACRES	NUMBER OF ACRES IRRIGATED	AMOUNT OF WATER USED (ACRE-FEET)	REMARKS
23888	8283	Pratt Properties	SE	SW	5	22N	21E	9.90	9.90	39.60	Pivot
			NE	SE	5	22N	21E	3.20	3.20	12.80	Irrigation.
			NW	SE	5	22N	21E	8.10	8.10	32.40	
			SW	SE	5	22N	21E	39.70	39.70	158.80	
			SE	SE	5	22N	21E	32.60	32.60	130.40	
			NE	NE	8	22N	21E	24.80	24.80	99.20	
			NW	NE	8	22N	21E	36.40	36.40	145.60	
			NE	NW	8	22N	21E	5.09	5.10	23.10	
								180.90	160.53	642.40	
24099	7599	USA, MCO Prop., Inc.	N2	NE	7	22N	21E				Stk - use by BLM
			SW	NE	7	22N	21E				only. MCO not
										4.0	running cattle.
											BLM - 4.0 AF
											MCO - 52.5 AF
50513	Permit	P. V. Farms	SE	NE	8	22N	21E	3.0	3.0	12.0	Changed P.O.D.
			NE	SE	8	22N	21E	31.4	31.4	125.6	of 25277
			SE	SE	8	22N	21E	2.5	2.5	10.0	Alfalfa
			SW	NW	9	22N	21E	0.2	0.2	0.8	
			NW	SW	9	22N	21E	7.9	7.9	31.6	
								45.0	45.0	180.0	
50514	Permit	Area West, Inc.	NE	NE	8	22N	21E	7.6	0.0	0.0	22.3 Acres
			SW	NE	8	22N	21E	12.0	6.0	24.0	Alfalfa.
			SE	NE	8	22N	21E	35.5	35.5	142.0	
			NE	SE	8	22N	21E	3.3	3.3	13.2	83.3 Acres
			NW	SE	8	22N	21E	1.6	0.0	0.0	Turf.
			NW	NW	9	22N	21E	14.2	0.0	0.0	
			SW	NW	9	22N	21E	38.8	38.8	155.2	
			SE	NW	9	22N	21E	3.0	3.0	12.0	
			NE	SW	9	22N	21E	2.3	2.3	9.2	
			NW	SW	9	22N	21E	16.7	16.7	66.8	
								135.0	105.6	422.4	

SUMMARY OF GROUND WATER PUMPAGE INVENTORY FOR WARM SPRINGS VALLEY BASIN NO. 84

1988

NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE 1/4	1/4	S	T	R	ACRES	NUMBER OF ACRES IRRIGATED	AMOUNT OF WATER USED (ACRE-FEET)	REMARKS
		(Area West, Inc. Continued)	NE	SW	9	22N	21E	2.3	2.3	9.2	
			NW	SW	9	22N	21E	16.7	16.7	66.8	
								135.0	105.6	422.4	
27395	9317	Air Sailing, Inc.	SW	SE	11	23N	20E			8.02	Domestic and recreation
27667 28446	8627 8633	P. V. Farms	NE	SW	4	22N	21E	28.1	0.0	0.0	Supplemental.
28071	8628	MCO Prop., Inc.	SE	NW	4	22N	21E	4.99	0.0	0.0	Fallow
			NW	SW	4	22N	21E	7.98	0.0	0.0	
								12.97	0.0	0.0	
28444	10632	MCO Prop., Inc.	SE	SE	32	23N	21E	4.0	3.7		Total ac from measurements from MCO map. *Field measured 132.6 ac. Square potatoe field within pivot in 1988. 3.0 AF/Acre.
			SW	SE	32	23N	21E	26.3	15.5		
			NE	SW	32	23N	21E	0.0	0.0		
			SE	SW	32	23N	21E	10.0	8.5		
			NE	NE	5	22N	21E	16.1	9.4		
			NW	NE	5	22N	21E	31.0	31.0		
			SW	NE	5	22N	21E	20.0	12.8		
			SE	NE	5	22N	21E	5.2	3.1		
			NE	NW	5	22N	21E	22.7	21.5		
			SE	NW	5	22N	21E	7.4	7.0		
								142.7	112.5	340.0	
28445	8519	Area West Inc. of Nevada	SE	SE	8	22N	21E	1.1	1.1	4.4	28076 within same pivot.
			NE	SW	9	22N	21E	11.7	11.7	46.8	
			NW	SW	9	22N	21E	12.7	12.7	50.8	
			SW	SW	9	22N	21E	39.4	39.4	157.6	
			SE	SW	9	22N	21E	25.5	25.5	102.0	
			NW	NW	16	22N	21E	8.9	8.9	35.6	
								99.3	99.3	397.20	

SUMMARY OF GROUND WATER PUMPAGE INVENTORY FOR WARM SPRINGS VALLEY BASIN NO. 84

1988

NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE 1/4	1/4	S	T	R	ACRES	NUMBER OF ACRES IRRIGATED	AMOUNT OF WATER USED (ACRE-FEET)	REMARKS
28076	8518	MCO Prop., Inc.	SE	SW	9	22N	21E	9.2	9.2	36.8	28445 within same pivot.
			NE	NW	16	22N	21E	10.2	10.2	40.8	
			NW	NW	16	22N	21E	6.3	6.3	25.2	
								25.7	25.7	102.8	
28447	8634	Pratt Prop., Inc.	SW	SW	4	22N	21E	6.9	0.0	0.0	Irrigation.
			SE	SW	4	22N	21E	6.9	0.0	0.0	
								13.8	0.0	0.0	
30108	10578	MCO Prop., Inc.	NE	NE	6	22N	21E	.99	.99	3.96	Figures assume parcel is 40 ac. 30108-13, 49709-10,50869 same pivot.
			NW	NE	6	22N	21E	3.01	3.01	12.04	
								4.0	4.0	16.0	
30109	10579	MCO Prop., Inc.	NE	NW	5	22N	21E	3.54	3.54	14.16	30108-13, 49709-10,50869 same pivot.
			NW	NW	5	22N	21E	8.01	8.01	32.04	
			SW	SW	32	23N	21E	11.05	11.05	44.20	
			SE	SW	32	23N	21E	3.40	5.40	21.60	
			NW	SW	32	23N	21E	0.50	0.50	2.00	
								26.50	28.50	114.00	
30110	10580	MCO Prop., Inc.	NE	NW	5	22N	21E	6.99	6.99	27.96	30108-13, 49709-10,50869- same pivot.
			NW	NW	5	22N	21E	23.70	23.70	94.80	
			SW	NW	5	22N	21E	5.48	5.48	21.92	
			SE	NW	5	22N	21E	0.03	0.03	0.12	
								36.20	36.20	144.80	
30111	10581	MCO Prop., Inc.	NW	NW	5	22N	21E	7.39	7.39	29.56	Supplemental. 30108-13, 49709-10,50869 same pivot.
30112	10582		SW	NW	5	22N	21E	7.48	7.48	29.92	
			NE	NE	6	22N	21E	4.81	4.81	19.24	
			SE	NE	6	22N	21E	6.92	6.92	27.68	
								26.69	26.69	106.40	

SUMMARY OF GROUND WATER PUMPAGE INVENTORY FOR WARM SPRINGS VALLEY BASIN NO. 84

1988

NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE 1/4	1/4	S	T	R	ACRES	NUMBER OF ACRES IRRIGATED	AMOUNT OF WATER USED (ACRE-FEET)	REMARKS
30113	10583	P. V. Farms	NW	NW	5	22N	21E	0.21	0.21	0.84	30108-13, 49709-10,50869 same pivot.
			NE	NE	6	22N	21E	14.20	14.20	56.80	
			SE	NE	6	22N	21E	2.79	2.79	11.16	
								17.20	17.20	68.80	
49709	Permit	MCO Prop., Inc.	SW	SW	32	23N	21E	21.5	21.5	86.0	30108-13, 49709-10,50869 same pivot.
49710	Permit	MCO Prop., Inc.	SE	SE	31	23N	21E	17.65	17.65	70.6	150.61 AF from abstract. 30108-13, 40709-10, 50869 same pivot.
			NE	NE	6	22N	21E	20.00	20.00	80.0	
								37.65	37.65	150.6	
50869	Permit	Area-West Inc. of Nev.	NE	SE	31	23N	21E	0.4	0.4	1.6	30108-13, 49709-10, and this portion of 50869 are within the same pivot.
			SW	SE	31	23N	21E	1.4	1.4	5.6	
			SE	SE	31	23N	21E	16.0	16.0	64.0	
			NW	SW	32	23N	21E	0.8	0.8	3.2	
			SW	SW	32	23N	21E	5.5	5.5	22.0	
			NW	NW	5	22N	21E	0.8	0.8	3.2	
		Sub-Total						24.9	24.9	99.6	
			NW	NE	5	22N	21E	7.0	7.0	21.0	Combined with 28444. Potatoes.
		Sub-Total						7.0	7.0	21.0	
		TOTAL						31.9	31.9	120.6	
30114	10584	MCO Prop., Inc.	SW	NE	9	22N	21E	9.1	9.1	36.4	30114-30118 same pivot.
			NW	SE	9	22N	21E	0.2	0.2	.8	
								9.3	9.3	37.2	

SUMMARY OF GROUND WATER PUMPAGE INVENTORY FOR WARM SPRINGS VALLEY BASIN NO. 84

1988

NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE 1/4	1/4	S	T	R	ACRES	NUMBER OF ACRES IRRIGATED	AMOUNT OF WATER USED (ACRE-FEET)	REMARKS
30115	10585	MCO Prop., Inc.	SW	NE	9	22N	21E	0.49	0.49	1.96	30114-30118
			SE	NE	9	22N	21E	3.00	0.0	0.0	same pivot.
			NE	SE	9	22N	21E	13.17	13.17	39.51	Potatoes raised
			NW	SE	9	22N	21E	17.89	0.0	0.0	in the NE1/4
			SW	SE	9	22N	21E	0.45	0.0	0.0	SE1/4 Section 9.
								35.00	13.66	41.47	(3 AF/Acre).
30116	10586	MCO Prop., Inc.	SW	NE	9	22N	21E	0.34	0.34	1.36	30114-30118
			SE	NW	9	22N	21E	2.95	2.95	11.80	same pivot.
			NE	SW	9	22N	21E	14.13	0.0	0.0	Turf Farm
			NW	SE	9	22N	21E	21.35	0.0	0.0	
			SW	SE	9	22N	21E	1.23	0.0	0.0	
								40.00	3.29	13.16	
30117	10587	MCO Prop., Inc.	SW	NE	9	22N	21E	6.65	6.65	26.60	30114-30118
			SE	NW	9	22N	21E	8.00	8.00	32.00	same pivot.
			NW	SE	9	22N	21E	0.35	0.0	0.0	Turf Farm
								15.00	14.65	58.60	
30118	10588	MCO Prop., Inc.	SW	NE	9	22N	21E	18.61	18.61	74.44	30114-30118
			SE	NE	9	22N	21E	6.81	0.0	0.0	same pivot.
			NW	SE	9	22N	21E	0.28	0.0	0.0	Turf Farm
								25.70	18.61	74.44	
50867	Permit	Area-West, Inc. of Nev.	SW	NE	9	22N	21E	5.93	5.93	23.72	Turf Farm &
			SE	NE	9	22N	21E	30.10	0.0		potatoes in
			NE	SE	9	22N	21E	14.90	14.90	44.70	the NE1/4 SE1/4.
								50.93	20.83	68.42	

SUMMARY OF GROUND WATER PUMPAGE INVENTORY FOR WARM SPRINGS VALLEY BASIN NO. 84

1988

NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE 1/4	1/4	S	T	R	ACRES	NUMBER OF ACRES IRRIGATED	AMOUNT OF WATER USED (ACRE-FEET)	REMARKS
50868	WDN	Area-West, Inc. of Nev.	SW	NE	8	22N	21E	1.0	1.0	4.0	Turf Farm App. 52457 filed to replace 50868.
			SE	NE	8	22N	21E	1.5	1.5	6.0	
			SW	NW	9	22N	21E	1.0	1.0	4.0	
			SE	NW	9	22N	21E	25.9	25.9	103.6	
								29.4	29.4	117.6	
50873 50874	Permit	Area-West, Inc. of Nev.	NE	SE	9	22N	21E	11.9	11.9	35.7	Supplemental. Potatoes.
								11.9	11.9	35.7	
30119	10589	MCO Prop., Inc.	NW	SW	4	22N	21E	10.0	0.0	0.0	Fallow.
			SW	SW	4	22N	21E	16.0	0.0	0.0	
			SE	SW	4	22N	21E	15.0	0.0	0.0	
								41.0	0.0	0.0	
30341	10508	McCulloch Properties	S2	SE	14	22N	21E			0.22	Stk - Approx. 6 horses, 10 small African deer present.
31065	10546	Area West Inc.	NE	NE	8	22N	21E	7.6	0.0	0.0	Irrigation. Turf Farm is the primary user. Abrogated by Permit 50514. It corrects the P.O.D.
			SW	NE	8	22N	21E	12.0	6.0	24.0	
			SE	NE	8	22N	21E	35.5	35.5	142.0	
			NE	SE	8	22N	21E	3.3	3.3	13.2	
			NW	SE	8	22N	21E	1.6	0.0	0.0	
			NW	NW	9	22N	21E	14.2	0.0	0.0	
			SW	NW	9	22N	21E	38.8	38.8	155.2	
			SE	NW	9	22N	21E	3.0	3.0	12.0	
			NE	SW	9	22N	21E	2.3	2.3	9.2	
			NW	SW	9	22N	21E	16.7	16.7	66.8	
								135.0	105.6	422.4	
32363	Permit	McCulloch Properties	SW	SE	10	22N	21E	6.0	0.0	0.0	

SUMMARY OF GROUND WATER PUMPAGE INVENTORY FOR WARM SPRINGS VALLEY BASIN NO. 84

1988

NUMBER	STATUS	PLACE OF USE OWNER OF RECORD	1/4	1/4	S	T	R	ACRES	NUMBER OF ACRES IRRIGATED	AMOUNT OF WATER USED (ACRE-FEET)	REMARKS
34668	10495	Jean Baptiste & Frank Gariador, dba Gariador Bros.	NE	NE	25	22N	20E	2.0	2.0	4.0	Alfalfa. Little irrigation.
34670	9862	Billy G. & Jerry L. Nelms	NE	SW	32	23N	21E	10.0	10.0	40.0	Alfalfa.
35486	10034	John G. & Susan C. Claypool	NW	SE	32	23N	21E	2.0	2.0	8.0	Alfalfa.
35565	11087	Air Sailing, Inc.	W2	E2	11	23N	20E				Dom. & rec. Glider facility.
			W2	E2	14	23N	20E				
			N2	SW	14	23N	20E				
			N2	SE	15	23N	20E				
										0.31	
39166	10496	Billy G. & Jerry L. Nelms	NE	SW	32	23N	21E	15.7	15.7	62.8	Alfalfa.
			NW	SW	32	23N	21E	4.3	4.3	17.2	
								20.0	20.0	80.0	
39167	10457	Brent N. Douglas	NE	SE	4	22N	21E	5.6	3.6	14.4	2 ac. of oats east of pivot not irr.
			NW	SE	4	22N	21E	34.4	34.4	137.6	
								40.0	38.0	152.0	
39849	Permit	Washoe County		E2	18	23N	21E				Rec - Totalizing Meter installed on 10-27-87.
			E2	W2	18	23N	21E				
			Por	SW	17	23N	21E				
										1.0	
40587	11180	MCO Prop., Inc.	NE	SE	16	22N	21E	20.0	0.0	0.0	No pumpage in 1986-8.

SUMMARY OF GROUND WATER PUMPAGE INVENTORY FOR WARM SPRINGS VALLEY BASIN NO. 84

1988

NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE 1/4	1/4	S	T	R	ACRES	NUMBER OF ACRES IRRIGATED	AMOUNT OF WATER USED (ACRE-FEET)	REMARKS
42403	Permit	Truckee Meadows Fire Protection District	NE	SE	6	22N	21E			0.05	QM - fire station.
43005	11238	Clifford E. & Jacqueline C. Wells	SE	NE	31	23N	21E	17.3	17.3	69.2	Alfalfa.
			SW	NW	32	23N	21E	7.7	7.7	30.8	
								25.0	25.0	100.0	
43006	11181	MCO Prop., Inc.	NE	NW	34	22N	21E	2.0	0.0	0.0	Crested Wheat. Colin G. & Jeanette L. Sendall.
45095	10798	Thomas R. & Jacqueline Hildenbrand	NE	NE	2	22N	20E	2.0	2.0	8.0	Alfalfa & trees.
51002	Permit	Thomas R. & Jacqueline Hildenbrand	NE	NE	2	22N	20E	3.0	0.0	0.0	
46199	Permit	MCO Prop., Inc.	NE	SE	32	23N	21E	19.0	19.0	76.0	Alfalfa.
			NW	SE	32	23N	21E	24.0	24.0	96.0	
								43.0	43.0	172.0	
47562	Permit	Bill L. & Wanda M. Walker	NE	SE	35	23N	20E	4.0	4.0	13.9	Metered use.
47564	Permit	MCO Prop., Inc.	NE	SE	12	22N	21E	2.0	2.0	1.0	Grape vines. Little growth drip system
47599	Permit	Lewis H. & Nora Polizzi	NW	SW	1	22N	20E	2.0	2.0	4.0	Orchard - drip system. 4.0 AF/A duty will not apply until trees mature.

SUMMARY OF GROUND WATER PUMPAGE INVENTORY FOR WARM SPRINGS VALLEY BASIN NO. 84

1988

NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE 1/4	1/4	S	T	R	ACRES	NUMBER OF ACRES IRRIGATED	AMOUNT OF WATER USED (ACRE-FEET)	REMARKS
48819	Permit	Intermountain Land Company	SW	SW	8	21N	20E			5.19	Stk - 350 cattle.
52089	Permit	Reno-Sparks Indian Colony	SW	NE	4	21N	20E				Both wells drilled, No pumps. Power to well sites.
52090	Permit		W2	SE	4	21N	20E				
			S2	NW	4	21N	20E				
				SW	4	21N	20E				
										0.0	
49175	Permit	MCO Prop., Inc.	SE	SW	36	23N	20E	1.0	0.0	0.0	Irrigation. No use.
49262	Permit	MCO Prop., Inc.	SE	NW	32	23N	21E	2.0	2.0	8.0	Alfalfa. 49262 & 49530 are in the same field.
49530	Permit	MCO Prop., Inc.	SE	NW	32	23N	21E	5.0	5.0	20.0	Alfalfa.
49444	Permit	MCO Prop., Inc.	Lt	02	14	22N	20E	2.0	0.0	0.0	Crested wheat.
49445	Permit	Moore - 1/2 int.	NE	SE	15	22N	20E	8.0	0.0	0.0	
		McCrorey - 1/2 int.	NW	SE	15	22N	20E	6.0	0.0	0.0	
								14.0	0.0	0.0	
50055	Permit	Moore - 1/2 int.	NE	SE	15	22N	20E	2.2	0.0	0.0	Same field as 49445.
		McCrorey - 1/2 int.	NW	SE	15	22N	20E	1.8	0.0	0.0	
								4.0	0.0	0.0	
49669	Permit	Intermountain Land Company	NW	NE	22	23N	20E	5.20	5.20	20.80	Alfalfa. Check totalizing meter reading.
49670	Permit		SE	NE	22	23N	20E	33.26	33.26	133.04	
			SE	NE	22	23N	20E	2.40	2.40	9.60	
			NE	NW	22	23N	20E	46.62	46.62	186.48	(Lot 1)
			SE	NW	22	23N	20E	46.37	46.37	185.48	(Lot 4)
								133.85	133.85	535.40	

SUMMARY OF GROUND WATER PUMPAGE INVENTORY FOR WARM SPRINGS VALLEY BASIN NO. 84

1988

NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE 1/4	1/4	S	T	R	ACRES	NUMBER OF ACRES IRRIGATED	AMOUNT OF WATER USED (ACRE-FEET)	REMARKS
49711	Permit	Area West of Nevada	NW	NW	4	22N	21E	33.70	0.0	0.0	Fallow.
			NE	NE	5	22N	21E	1.15	0.0	0.0	
								34.85	0.0	0.0	
49712	Permit	Area West of Nevada	NW	NW	4	22N	21E	7.5	0.0	0.0	Alfalfa.
			SW	NW	4	22N	21E	13.6	13.6	54.4	
			NE	NE	5	22N	21E	0.1	0.0	0.0	
			SE	NE	5	22N	21E	0.2	0.2	0.8	
								21.4	13.8	55.2	
49713	Permit	MCO Prop., Inc.	NE	NW	9	22N	21E	8.03	0.0	0.0	
49714	Permit	MCO Prop., Inc.	NE	NW	9	22N	21E	31.97	0.0	0.0	
50054	Permit	Kenneth L. & Sue C. McGuire	SE	NW	27	22N	21E	2.5	0.0	0.0	
50056	Permit	Orlando & Nina B. Boanini	SE	SE	36	22N	20E	3.0	1.0	4.0 est	Pasture mix.
51169	Permit	Raymond F. & Gerda T. Hemenway	SW	SE	14	22N	21E	2.0	0.0	0.0	
51170	Permit	Raymond F. & Gerda T. Hemenway	SE	SE	14	22N	21E	0.5	0.5	2.0	Vegetable Garden
51474	Permit	Raymond F. & Gerda T. Hemenway	SW	SE	14	22N	21E	1.75	0.0	0.0	

SUMMARY OF GROUND WATER PUMPAGE INVENTORY FOR WARM SPRINGS VALLEY BASIN NO. 84

1988

NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE 1/4	1/4	S	T	R	ACRES	NUMBER OF ACRES IRRIGATED	AMOUNT OF WATER USED (ACRE-FEET)	REMARKS
51534	Permit	Lawrence J. Simons	SE	SW	20	21N	22E	2.02 A.F.		0.0	Quasi-Municipal
51971	Permit		NW	NW	20	21N	22E	2.02 A.F.		0.0	Quasi-Municipal
51972	Permit		SW	NW	20	21N	22E	2.02 A.F.		0.0	Quasi-Municipal
51973	Permit		NW	SW	20	21N	22E	2.02 A.F.		0.0	Quasi-Municipal
51974	Permit		SW	SW	20	21N	22E	2.02 A.F.		0.0	Quasi-Municipal
51975	Permit		NE	NW	20	21N	22E	2.02 A.F.		0.0	Quasi-Municipal
51976	Permit		SE	NW	20	21N	22E	2.02 A.F.		0.0	Quasi-Municipal
51977	Permit		NE	SW	20	21N	22E	2.02 A.F.		0.0	Quasi-Municipal
51883	Permit	Earl E. York	NE	SW	2	22N	20E	20.0 A.F.		5.0 est	Drip System
			NW	SW	2	22N	20E				trees/cantelopes.