WARM SPRINGS VALLEY
GROUNDWATER PUMPAGE
1987

1987 PUMPAGE INVENTORY

WARM SPRINGS VALLEY

The 1987 pumpage inventory was conducted on March 8-10, 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 100 acres in 1987. All other crops were limited to 1 and 2 acre fields. Pumpage for irrigation of alfalfa and potatoes was based on a figure of 4.0 acre-feet of water per acre of land. Other crops were estimated individually. Total irrigation pumpage was estimated to be 5,082 acre-feet for 1987.

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. A more accurate count of actual dwellings connected to domestic wells will be obtained for the 1988 pumpage report.

Stockwatering was estimated at 10.41 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 1987 for all uses including domestic wells was estimated to be 5,318.0 acre-feet annually.

WARM SPRINGS VALLEY WATER RIGHTS - DUTIES IN ACRE-FEET

APP. NO.	CERT. NO.	STATUS	OWNER OF RECORD	DUTY	MDU	1986	1987	1988
13630	3638	CER	MCO PROPERTIES	72.00	IRR	0.00	0.00	
13632	4459	CER	PRATT PROPERTIES	8.68	STK	1.00	1.00	
20745	5944	CER	P.V. FARMS	34.83	IND	0.00	0.00	
20746	5943	CER	PRATT PROPERTIES INC.	26.76	IND	2.00	2.00	
23688	8283	CER	PRATT PROPERTIES	846.12	IRR	642.48	642.48	
24099	7599	CER	MCO PROPERTIES INC	52.00	STK	0.00	0.00	
24099	7599	CER	UNITED STATES OF AMERICA - B.L.M.	4.00	STK	4.00	4.00	
25277	8513	CER	AREA-WEST INC.	180.00	IRR	180.00	180.00	
27395	9317	CER	AIR SAILING INC.	8.02	REC	8.02	8.02	
27667	8627	CER	AREA-WEST INC.	145.75	IRR	145.75	0.00	
28071	8678	CER	MCO PROPERTIES INC.	51.88	IRR	51.68	0.00	
28076	8518	CER	MCO PROPERTIES INC.	102.80	IRR	102.80	102.80	
28444	10632	CER	MCO PROPERTIES INC.	734.40	IRR	530.40	530.40	
28445	8519	CER	AREA-WEST INC OF NEVADA	397.20	IRR	397.20	397.20	
28446	8633	CER	AREA-WEST INC.	14.25	IRR	14.25	0.00	
28447	8634	CER	MCO PROPERTIES INC.	55.20	IRR	55.20	27.60	
30108	10578	CER	MCO PROPERTIES INC.	16.00	IRR	16.00	16.00	
30109	10579	CER	MCO PROPERTIES INC.	114.00	IRR	114.00	114.00	
30110	10580	CER	MCO PROPERTIES INC.	144.80	IRR	144.80	144.80	
30111	10581	CER	MCO PROPERTIES INC.	106.40	IRR	106.40	106.40	
30112	10582	CER	MCO PROPERTIES INC. (SUPP. TO 30111)	97.17	IRR	0.00	0.00	
30113	10583	CER	MCO PROPERTIES INC.	68.80	IRR	68.80	68.80	
30114	10584	CER	MCO PROPERTIES INC.	37.20	IRR	0.00	37.20	
30115	10585	CER	MCO PROPERTIES INC.	139.69	IRR	0.00	1.96	
30116	10586	CER	MCO PROPERTIES INC.	120.00	IRR	0.00	13.16	
30116	10586	CER	LESTER R. & KATHALEEN G. SPRINGMEYER	40.00	IRR	0.00	0.00	
30117	10587	CER	MCO PROPERTIES INC.	60.00	IRR	0.00	58.60	
30118	10588	CER	MCO PROPERTIES INC.	102.76	IRR	0.00	74.44	
30119	10589	CER	MCO PROPERTIES INC.	200.00	IRR	200.00	0.00	
30341	10506	CER	MCCULLOCH PROPERTIES INC.	5.77	STK	0.22	0.22	
31065	10546	CER	AREA-WEST INC. OF NEVADA	540.00	IRR	428.80	485.60	
32363		PER	MCCULLOCH PROPERTIES INC.	24.00	IRR	4.00	4.00	
34668	10495	CER	JEAN BAPTISTE & FRANK GARIADOR	8.00	IRR	8.00	8.00	
34670	9862	CER	BILLY G. & JERRY L. NELMS	40.00	IRR	40.00	40.00	
35486	10034	CER	JOHN G. & SUSAN CLAYPOOL	8.00	IRR	8.00	8.00	
35365	11687	CER	AIR SAILING INC.	0.15	REC	0.15	0.15	
39166	10496	CER	BILLY G. & JERRY L. NELMS	80.00	IRR	80.00	80.00	
39167	10457	CER	BRENT N. DOUGLAS	160.00	IRR	152.00	152.00	
39949		PER	WASHOE COUNTY	19.98	REC	1.00	8.50	
40587	11180	CER	MCO PROPERTIES INC.	80.00	IRR	0.00	0.00	
42403		PER	TRUCKEE MEADOWS FIRE PROTECTION DISTRICT	3.07	QM	0.05	0.05	
43005	11238	CER	CLIFFORD E. & JACQUELINE C. WELLS	100.00	IRR	100.00	100.00	
43006	11181	CER	MCO PROPERTIES INC.	8.00	IRR	2.00	2.00	
45095	10798	CER	THOMAS R. & JACQUELINE HILDENBRAND	8.00	IRR	8.00	8.00	
46199		PER	MCO PROPERTIES INC.	172.00	IRR	172.00	172.00	
46562		PER	BILL L. & WANDA WALKER	16.00	IRR	13.90	13.90	
47564		PER	MCO PROPERTIES INC.	8.00	IRR	8.00	4.00	
47599		PER	LEWIS H. & NORA POLIZZI	8.00	IRR	2.00	3.00	
48519		PER	INTERMOUNTAIN LAND COMPANY	5.19	STK	5.19	5.19	
49036		PER	RENO-SPARKS INDIAN COLONY	183.70	QM	0.00	0.00	
49037		PER	RENO-SPARKS INDIAN (SUPP. TO 49036)	0.00	QM	0.00	0.00	
49175		PER	MCO PROPERTIES INC.	4.00	IRR	0.00	0.00	
49262		PER	MCO PROPERTIES INC. (COWMAN)	8.00	IRR	8.00	8.00	

WARM SPRINGS VALLEY WATER RIGHTS - DUTIES IN ACRE-FEET

APP. NO.	CERT. NO.	STATUS	OWNER OF RECORD	DUTY	MOU	1986	1987	1988
49444		PER	MCO PROPERTIES INC. (JIM HICKS)	8.00	IRR	0.00	0.00	
49445		PER	MOORE & MCCROREY (1/2 INT. EA.)	56.00	IRR	0.00	32.00	
49530		PER	MCO PROPERTIES INC. (COWMAN)	20.00	IRR	20.00	20.00	
49669	11974	CER	INTERMOUNTAIN LAND COMPANY	235.40	IRR	235.40	235.40	
49670	11975	CER	INTERMOUNTAIN LAND COMPANY	300.00	IRR	300.00	300.00	
49709		PER	MCO PROPERTIES INC.	86.00	IRR	86.00	86.00	
49710		PER	MCO PROPERTIES INC.	150.60	IRR	150.60	150.60	
49711		PER	AREA-WEST OF NEVADA	139.40	IRR	139.40	139.40	
49712		PER	AREA-WEST OF NEVADA	85.60	IRR	85.60	85.60	
49713		PER	MCO PROPERTIES INC.	32.12	IRR	0.00	32.12	
49714		PER	MCO PROPERTIES INC.	127.88	IRR	0.00	127.88	
50054		PER	KENNETH L. & SUE C. MCGUIRE	10.00	IRR	0.00	0.00	
50055		RFA	MOORE & MCCROREY (1/2 INT. EA.)	0.00	IRR			
50056		PER	ORLANDO & NINA R. BOANINI	12.00	IRR	0.00	0.00	
50867		RFA	AREA-WEST INC. OF NEVADA	0.00	IRR		23.72	
50868		RFA	AREA-WEST INC. OF NEVADA	0.00	IRR	117.60	117.60	
50869		RFA	AREA-WEST INC. OF NEVADA	0.00	IRR		127.60	
50873		RFA	AREA-WEST INC. OF NEVADA	0.00	IRR			
50874		RFA	AREA-WEST INC. (SUPP. TO 50873)	0.00	IRR			
51002		PER	THOMAS R. & JACQUELINE HILDENBRAND	12.00	IRR		0.00	
51130		RFA	LAWRENCE J. SIMONS	0.00	IRR			
51169		RFA	RAYMAND F. & GERDA T. HEMENWAY	8.00	IRR			
51170		RFA	RAYMOND F. & GERDA T. HEMENWAY	0.00	OTH			
51474		RFA	RAYMOND F. & GERDA T. HEMENWAY	7.00	IRR			
51883		APP	EARL E. YORK	20.00	IRR			
51971		APP	LAWRENCE J. SIMONS	2.02	QM			
51972		APP	LAWRENCE J. SIMONS	2.02	QM			
51973		APP	LAWRENCE J. SIMONS	2.02	QM			
51974		APP	LAWRENCE J. SIMONS	2.02	QM			
51975		APP	LAWRENCE J. SIMONS	2.02	QM			
51976		APP	LAWRENCE J. SIMONS	2.02	QM			
51977		APP	LAWRENCE J. SIMONS	2.02	QM			
				6794.73		4,960	5,111	0

Annual measurements of the Warm Springs Valley wells were conducted on February 25, 1988. Generally, wells located around the perimeter and in the foothill areas did not exhibit any significant change of static water levels over a four to five year period. Wells located within the area of concentrated irrigation tended to exhibit definite level decreases from the 1987 measurements. In no instance could the level change be attributed to recent pumping.

The irrigation well covered by Permit 39167, Certificate 10457, and located within the NE1/4 SE1/4 of Section 4, T.22N., R.21E., M.D.B.&M., exhibited a drop in static water level from 119.95 feet on April 10, 1987, to 128.74 feet on February 25, 1988.

An observation well located within the NW1/4 NE1/4 of Section 5, T.22N., R21E., M.D.B.&M., dropped from a static level of 99.04 feet in 1986 to 111.57 feet in 1988.

The large irrigation well on the southern extreme of the agricultural area dropped from a static level of 155.35 feet in 1984 to 175.07 feet in 1988. This well is located within the NW1/4 NW1/4 of Section 16, T.22N., R.21E., M.D.B.&M.

Finally, an unused domestic well located approximately 1/2 mile east of the irrigated area dropped from a static water level of 112.24 feet to approximately 130 feet. The figure of 130 feet is only approximation because the static water level was below the bottom of the casing.

Overall, these figures are based on several years of low precipitation and recharge combined with a normal irrigation season pumpage. Additional measurements during a wet cycle will be necessary to provide conclusive evidence of a continuous downward trend in the water levels.

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
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
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
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	IRR	NOT USED
	222123CDA	4/11/84	48.91	6	IRR	NOT USED
	222123CDA	4/10/87	45.86	6	IRR	NOT USED
	222123CDA	2/25/88	45.23	6	IRR	NOT USED
T.23N.R.20E.SEC.13	232013ABCA	4/13/87	81.59	6	IRR	NOT USED
	232013ABCA	2/25/88	81.65	6	IRR	NOT USED
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		DOM	DISCONTINUED-UNACCESSABLE
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

WARM SPRINGS VALLEY WELL MEASUREMENTS (1983-88)

LEGAL DESCRIPTION	LOCATION U.S.G.S.	DATE	STATIC LEVEL	CASING DIA "	USE	REMARKS
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

1987

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			2.0	Current use for offices and light indust. (Probably restrooms only.)
			N2	SE	6	22N	21E				

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

1987

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	SW	NE	5	22N	21E	8.40	0.00	0.00	Use occurred in pivot.
			SE	NW	5	22N	21E	2.60	0.00	0.00	
			NE	SW	5	22N	21E	14.70	0.00	0.00	
			SE	SW	5	22N	21E	10.90	9.90	39.60	1.0 ac fallow NW of well.
			NE	SE	5	22N	21E	3.20	3.20	12.80	
			NW	SE	5	22N	21E	28.40	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	9.85	5.92	23.68	3.85 ac rect. field east of pwr. line not irrigated.
								211.55	160.62	642.48	
24099	7599	USA, MCO Prop., Inc.	N2	NE	7	22N	21E				Stk - use by BLM only. MCO not running cattle. BLM - 4.0 AF MCO - 52.5 AF
			SW	NE	7	22N	21E			4.0	
25277	8513	P. V. Farms	SE	NE	8	22N	21E	3.0	3.0	12.0	
			NE	SE	8	22N	21E	31.4	31.4	125.6	
			SE	SE	8	22N	21E	2.5	2.5	10.0	
			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	
27395	9317	Air Sailing, Inc.	SW	SE	11	23N	20E			8.02	Domestic and recreation

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

1987

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
27667 28446	8627 8633	P. V. Farms	NE	SW	4	22N	21E	40.0	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	15.8	4.2		Total ac from measurements from MCO map. *Field measured 132.6 ac.
			SW	SE	32	23N	21E	32.5	31.1		
			NE	SW	32	23N	21E	0.9	0.0		
			SE	SW	32	23N	21E	17.5	9.1		
			NE	NE	5	22N	21E	16.1	14.2		
			NW	NE	5	22N	21E	40.0	40.0	80.0	
			SW	NE	5	22N	21E	20.0	12.3		
			SE	NE	5	22N	21E	5.2	0.6		
			NE	NW	5	22N	21E	23.7	23.1		
			SE	NW	5	22N	21E	11.9	3.1		
								183.6	137.7	530.4*	
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	
			NE	NW	16	22N	21E				Not clear if any acreage exists.
			NW	NW	16	22N	21E	8.9	8.9	35.6	
								99.3	99.3	397.20	
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	

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

1987

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
28447	8634	Pratt Prop., Inc.	SW	SW	4	22N	21E	6.9	6.9	27.6	Irrigation.
			SE	SW	4	22N	21E	6.9	0.0	0.0	
								13.8	6.9	27.6	
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	5.40	5.40	21.60	
			NW	SW	32	23N	21E	0.50	0.50	2.00	
								28.50	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	
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	

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

1987

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
30116	10586	MCO Prop., Inc.	SW	NE	9	22N	21E	0.34	0.34	1.36	30114-30118 same pivot. Springmeyer's own 10 ac.
			SE	NW	9	22N	21E	2.95	2.95	11.80	
			NE	SW	9	22N	21E	14.13	0.0	0.0	
			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 same pivot.
			SE	NW	9	22N	21E	8.00	8.00	32.00	
			NW	SE	9	22N	21E	0.35	0.0	0.0	
								15.00	14.65	58.60	
30118	10588	MCO Prop., Inc.	SW	NE	9	22N	21E	18.61	18.61	74.44	30114-30118 same pivot.
			SE	NE	9	22N	21E	6.81	0.0	0.0	
			NW	SE	9	22N	21E	0.28	0.0	0.0	
								25.70	18.61	74.44	
50867	RFA	Area-West, Inc. of Nev.	SW	NE	9	22N	21E	5.93	5.93	23.72	Turf Farm being prepared for 1988 irr. season.
			SE	NE	9	22N	21E	30.10			
								14.90			
								50.93	5.93	23.72	
50868	RFA	Area-West, Inc. of Nev.	SW	NE	8	22N	21E	1.0	1.0	4.0	This acreage was also irr. in 1986.
			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	RFA	Area-West, Inc. of Nev.	NE	SE	9	22N	21E	11.9	0.0	0.0	Being prepared for 1988. Supplemental.
								11.9	0.0	0.0	

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

1987

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
30119	10589	MCO Prop., Inc.	NW	SW	4	22N	21E	10.0	0.0	0.0	Irrigation.
			SW	SW	4	22N	21E	20.0	0.0	0.0	
			SE	SW	4	22N	21E	20.0	0.0	0.0	
								50.0	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.
			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	1.6	6.4	
			NW	NW	9	22N	21E	14.2	14.2	56.8	
			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	121.4	485.6	
32363	Permit	McCulloch Properties	SW	SE	10	22N	21E	6.0	1.0	4.0	Small central portions irr.
34668	10495	Jean Baptiste & Frank Gariador, dba Gariador Bros.	NE	NE	25	22N	20E	2.0	2.0	8.0	Alfalfa.
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.

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

1987

NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE 1/4	1/4	S	T	R	ACRES ACRES	WATER USED IRRIGATED	AMOUNT OF (ACRE-FEET)	REMARKS
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				
										0.15	
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. 8.5 AF reading on 3-1-88 due to sys. leak.
			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 1986-7.
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	2.0	2.0	Crested Wheat.

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

1987

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45095	10798	Thomas R. & Jacqueline Hildenbrand	NE	NE	2	22N	20E	2.0	2.0	8.0	Alfalfa & trees.
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	4.0	Grape vines.
47599	Permit	Lewis H. & Nora Polizzi	NW	SW	1	22N	20E	2.0	2.0	3.0	Orchard - drip system. 4.0 AF/A duty will not apply until trees mature.
48819	Permit	Intermountain Land Company	SW	SW	8	21N	20E			5.19	Stk - 350 cattle.
49036	Permit	Reno-Sparks Indian Colony	SW	NE	4	21N	20E				Both wells drilled, No pumps. No buildings on site. Supplemental.
49037	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.
49262	Permit	MCO Prop., Inc.	SE	NW	32	23N	21E	2.0	2.0	8.0	Alfalfa.
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	Irrigation.

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

1987

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49445	Permit	Moore - 1/2 int.	NE	SE	15	22N	20E	8.0	8.0	32.0	Sorghum
		McCrorey - 1/2 int.	NW	SE	15	22N	20E	6.0	0.0		
								14.0	8.0	32.0	
50055	Permit	Moore - 1/2 int.	NE	SE	15	22N	20E	2.2	0.0	0.0	Same field
		McCrorey - 1/2 int.	NW	SE	15	22N	20E	1.8	0.0	0.0	as 49445.
								4.0	0.0	0.0	
49669	Permit	Intermountain Land	NW	NE	22	23N	20E	5.20	5.20	20.80	Irrigation. Check
49670	Permit	Company	SE	NE	22	23N	20E	33.26	33.26	133.04	totalizing meter
			SE	NE	22	23N	20E	2.40	2.40	9.60	reading.
			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	
49711	Permit	Area West of Nevada	NW	NW	4	22N	21E	33.70	33.70	134.8	Irrigation.
			NE	NE	5	22N	21E	1.15	1.15	4.6	
								34.85	34.85	139.4	
49712	Permit	Area West of Nevada	NW	NW	4	22N	21E	7.5	7.5	30.0	Irrigation.
			SW	NW	4	22N	21E	13.6	13.6	54.4	
			NE	NE	5	22N	21E	0.1	0.1	0.4	
			SE	NE	5	22N	21E	0.2	0.2	0.8	
								21.4	21.4	85.6	
49713	Permit	MCO Prop., Inc.	NE	NW	9	22N	21E	8.03	8.03	32.12	Potatoes.
49714	Permit	MCO Prop., Inc.	NE	NW	9	22N	21E	31.97	31.97	127.88	Potatoes.
50054	Permit	Kenneth L. & Sue C. McGuire	SE	NW	27	22N	21E	2.5	0.0	0.0	1986 corrected to 0.0.
50056	Permit	Orlando & Nina B. Boanini	SE	SE	36	22N	20E	3.0	0.0	0.0	Preparing ground by adding sludge.