STATE OF NEVADA
DEPARTMENT OF CONSERVATION & NATURAL RESOURCES

DIVISION OF WATER RESOURCES

DIVISION OF WATER PLANNING

PETER G. MORROS, STATE ENGINEER

Warm Springs Valley
Groundwater Pumpage 1986

1986 PUMPAGE INVENTORY

WARM SPRINGS VALLEY

The 1986 pumpage inventory was conducted during April and May of 1987. All of the permitted/certificated underground rights were field investigated and an estimate of water use was derived from these observations. Irrigation is the primary water consumer in Warm Springs Valley. Alfalfa is the major crop raised in the valley. Approximately 100 acres of potatoes is the next largest crop. A small orchard (2 acres) and vineyard (1 acre) are the only other crops noted in the basin. Therefore, pumpage for all irrigation in the valley was based on a figure of 4.0 acre-feet of water per acre of land. The total pumpage for irrigation was estimated to be 4,850 acre-feet annually.

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.

Industrial pumpage was estimated to be only 4.0 acre-feet annually. After the rocket engine test facilities were shut down and subsequently sold, their use has been primarily for quasi-municipal and domestic purposes.

Stockwatering was estimated at 10.5 acre-feet of pumpage 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 1986 for all uses including domestic wells was estimated to be 4,990.0 acre-feet annually.

WARM SPRINGS VALLEY WATER RIGHTS-ALL DUTIES IN ACRE-FEET

APP#	CERT#	STATUS	OWNER OF RECORD	DUTY	MOU	1986	1987	1988
13630	3638	CER	MCO PROPERTIES	72	IRR	0		
15632	4459	CER	PRATT PROPERTIES	8.68	STK	1		
20745	5944	CER	P.V. FARMS	34.83	IND	1.83		
20746	5943	CER	NORTH AMERICAN AVIATION	82.43	IND	2		
23888	8283	CER	PRATT PROPERTIES	846.12	IRR	642.48		
24099	7599	CER	SIERRA PACIFIC POWER COMPANY	56	STK	4		
25277	8513	CER	P.V. FARMS	180	IRR	180		
27395	9317	CER	AIR SAILING INC.	8.02	REC	8.02		
27667	8627	CER	P.V. FARMS	145.75	IRR	145.75		
28071	8628	CER	MCO PROPERTIES INC	51.88	IRR	51.88		
28076	8518	CER	MCO PROPERTIES INC	102.8	IRR	102.8		
28444	10632	CER	PRATT PROPERTIES INC	734.4	IRR	530.4		
28445	8519	CER	AREA WEST INC OF NEVADA	397.21	IRR	397.2		
28446	8633	CER	P.V. FARMS (SUPPLEMENTAL)	14.25	IRR	14.25		
28447	8634	CER	PRATT PROPERTIES	55.2	IRR	55.2		
30108	10578	CER	MCO PROPERTIES INC	16	IRR	16		
30109	10579	CER	MCO PROPERTIES INC	114	IRR	114		
30110	10580	CER	MCO PROPERTIES INC	144.8	IRR	144.8		
30111	10581	CER	MCO PROPERTIES	106.4	IRR	106.4		
30112	10582	CER	MCO PROPERTIES INC	97.17	IRR	0		
30113	10583	CER	P.V. FARMS	68.8	IRR	68.8		
30114	10584	CER	MCO PROPERTIES INC	37.2	IRR	0		
30115	10585	CER	MCO PROPERTIES INC	139.69	IRR	0		
30116	10586	CER	LESTER R. & KATHALEEN G. SPRINGMEYER	160	IRR	0		
30117	10587	CER	MCO PROPERTIES INC	60	IRR	0		
30118	10588	CER	MCO PROPERTIES INC	102.78	IRR	0		
30119	10589	CER	MCO PROPERTIES INC	200	IRR	200		
30341	10508	CER	MCCULLOCH PROPERTIES	5.77	STK	0.22		
31065	10546	CER	AREA WEST INC OF NEVADA	540	IRR	428.8		
32363		PER	MCCULLOCH PROPERTIES	24	IRR	4		
34668	10495	CER	GARIODOR BROTHERS	8	IRR	8		
34670	9862	CER	BILLY G. AND JERRY L. NELMS	40	IRR	40		
35486	10034	CER	CLAYPOOL, JOHN G. & SUSAN	8	IRR	8		
35565	11087	CER	AIR SAILING INCORPORATED	0.15	DOM	0.15		
39166	10496	CER	NELMS, BILLY G. & JERRY L.	80	IRR	80		
39167	10457	CER	DOUGLAS, BRENT N.	160	IRR	152		
39849		PER	WASHOE COUNTY	19.98	REC	1		
40587	11180	CER	MCO PROPERTIES	80	IRR	0		
42403		PER	TRUCKEE MEADOWS FIRE PROTECTION DIST	3.07	QM	0.05		
43005	11238	CER	WELLS, WELLS	100	IRR	100		
TOTALS BY YEAR				5105.38		3609.03	0	0

WARM SPRINGS VALLEY WATER RIGHTS-ALL DUTIES IN ACRE-FEET

APP#	CERT#	STATUS	OWNER OF RECORD	DUTY	MOU	1986	1987	1988
43006	11181	CER	MCO PROPERTIES	8	IRR	8		
45095	10798	CER	HILDENBRAND	8	IRR	8		
46199		PER	MCO PROPERTIES	172	IRR	172		
47562		PER	MCO PROPERTIES	16	IRR	16		
47564		PER	MCO PROPERTIES INC	8	IRR	8		
47599		PER	MCO PROPERTIES	8	IRR	2		
48819		PER	INTERMOUNTAIN LAND	5.19	STK	5.19		
49036		PER	RENO SPARKS INDIAN COLONY	183.7	QM	0		
49037		PER	RENO SPARKS INDIAN COLONY	0	QM	0		
49175		PER	MCO PROPERTIES INC	4	IRR	0		
49262		PER	MCO PROPERTIES INC	8	IRR	8		
49444		PER	MCO PROPERTIES INC	8	IRR	0		
49445		PER	MOORE/MCCROREY	56	IRR	0		
49530		PER	MCO PROPERTIES INC	20	IRR	20		
49669		PER	INTERMOUNTAIN LAND	235.4	IRR	235.4		
49670		PER	INTERMOUNTAIN LAND	300	IRR	300		
49709		PER	MCO PROPERTIES INC	86	IRR	86		
49710		PER	MCO PROPERTIES INC	150.6	IRR	150.6		
49711		PER	AREA-WEST OF NEVADA	139.4	IRR	139.4		
49712		PER	AREA-WEST OF NEVADA	85.6	IRR	85.6		
49713		PER	MCO PROPERTIES INC	32.12	IRR	0		
49714		PER	MCO PROPERTIES	127.88	IRR	0		
50054		PER	KENNETH L. AND SUE C. MCGUIRE	10	IRR	10		
50055		RFA	MOORE		IRR			
50056		PER	ORLANDO AND NINA B. BOANINI	12	IRR	0		
			OTHER USES		IRR	125.52		
TOTALS BY YEAR				1683.89		1379.71	0	0

A ground water level monitoring network was begun in December of 1983. Subsequent static water level measurements were taken in April of 1984 and 1987. Some of the wells exhibited a high amount of variation between the three readings. This is attributable to the weather and a variable irrigation schedule. Proximity to nearby pumping or recently pumped wells appeared to be readily noticeable in one observation well and one abandoned well within the network.

To alleviate conflicts with well measurements falling within the early portion of the irrigation season, future measurements will be made from early to mid March. This should allow the data to be able to more accurately reflect general trends of water level changes in the valley. This will also provide more useable information from the heavily irrigated portions of the valley.

WARM SPRINGS VALLEY WELL MEASUREMENTS (1983-87)

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
T.21N.R.20E.SEC.08	212008CD	12/19/83	58.12	8	STOCK	POWER BOX SHOT UP
	212008CD	4/12/84	57.87	8	STOCK	
	212008CD	4/10/87	56.65	8	STOCK	PUMPED FOR SHORT PERIODS
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
T.22N.R.21E.SEC.04	222104DAC	12/19/83	118.60	0	IRR	DURING RECOVERY
	222104DAC	4/11/84	111.20	0	IRR	MEAS. PRIOR TO IRR.
	222104DAC	4/10/87	119.95	0	IRR	POSSIBLY PUMPED PRIOR TO IRR.
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
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
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
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
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	
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
T.23N.R.20E.SEC.13	232013ABCA	4/13/87	81.59	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
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
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
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.

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

1986

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 NW	SW SW	18 18	22N 22N	22E 22E	2.0 16.0 18.0	0.0	0.0	Parcels located w/in SW1/4 are covered by rabbit brush and sage-brush.
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			1.83	Ind. use - old rocket test fac. Since N. Amer. Aviation left, does not appear to be great amount of activity at site.
20746	5943	N. Amer. Aviation	S2 N2	NE SE	6 6	22N 22N	21E 21E			2.0	Current use for offices and light indust. (Probably restrooms only.)

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1986

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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	3.95 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

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1986

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27667	8627	P. V. Farms	NE	SW	4	22N	21E	40.0	40.0	160.0	Supplemental.
28446	8633										
28071	8628	MCO Prop., Inc.	SE	NW	4	22N	21E	4.99	4.99	19.96	Irrigation.
			NW	SW	4	22N	21E	7.98	7.98	31.92	
								12.97	12.97	51.88	
28444	10632	Pratt 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	

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1986

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	6.9	27.6	
								13.8	13.8	55.2	
30108	10578	MCO Prop., Inc.	NE	NE	6	22N	21E	0.4	0.4	1.6	Figures assume parcel is 40 ac. 30108-13, 49709-10 same pivot.
			NW	NE	6	22N	21E	3.6	3.6	14.4	
								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 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- 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 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 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

1986

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
49709	Permit	MCO Prop., Inc.	SW	SW	32	23N	21E	21.5	21.5	86.0	30108-13, 49709-10 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 same pivot.
			NE	NE	6	22N	21E	20.00	20.00	80.0	
								37.65	37.65	150.6	
30114	10584	MCO Prop., Inc.	SW	NE	9	22N	21E	9.1			30114-30118 same pivot.
			NW	SE	9	22N	21E	0.2			
								9.3	0.0	0.0	
30115	10585	MCO Prop., Inc.	SW	NE	9	22N	21E	0.49			30114-30118 same pivot.
			SE	NE	9	22N	21E	3.00			
			NE	SE	9	22N	21E	13.17			
			NW	SE	9	22N	21E	17.89			
			SW	SE	9	22N	21E	0.45			
								35.00	0.0	0.0	
30116	10586	Lester R. & Kathleen G. Springmeyer	SW	NE	9	22N	21E	0.34			30114-30118 same pivot.
			SE	NW	9	22N	21E	2.95			
			NE	SW	9	22N	21E	14.13			
			NW	SE	9	22N	21E	21.35			
			SW	SE	9	22N	21E	1.23			
								40.00	0.0	0.0	
30117	10587	MCO Prop., Inc.	SW	NE	9	22N	21E	6.65			30114-30118 same pivot.
			SE	NW	9	22N	21E	8.00			
			NW	SE	9	22N	21E	0.35			
								15.00	0.0	0.0	
30118	10588	MCO Prop., Inc.	SW	NE	9	22N	21E	18.61			30114-30118 same pivot.
			SE	NE	9	22N	21E	6.81			
			NW	SE	9	22N	21E	0.28			
								25.70	0.0	0.0	

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1986

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	10.0	40.0	Irrigation.
			SW	SW	4	22N	21E	20.0	20.0	80.0	
			SE	SW	4	22N	21E	20.0	20.0	80.0	
								50.0	50.0	200.0	
30341	10508	McCulloch Properties	S2	SE	14	22N	21E			0.22	Stk - Approx. 6 horses, 10 small African deer present.
31065	10546	Area West of Nevada	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	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	107.2	428.8	
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	Irrigation.
34670	9862	Billy G. & Jerry L. Nelms	NE	SW	32	23N	21E	10.0	10.0	40.0	Irrigation.
35486	10034	John G. & Susan C. Claypool	NW	SE	32	23N	21E	2.0	2.0	8.0	Irrigation.

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

1986

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
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	Irrigation.
			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 - No total. installed. Est. min. use @ 1 AF/yr. Range open 3 days per week.
			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	Appeared no water pumped last year.
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	Irrigation.
			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	8.0	Irrigation.

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

1986

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
45095	10798	Thomas R. & Jacqueline Hildenbrand	NE	NE	2	22N	20E	2.0	2.0	8.0	
46199	Permit	MCO Prop., Inc.	NE	SE	32	23N	21E	19.0	19.0	76.0	
			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	16.0	
47564	Permit	MCO Prop., Inc.	NE	SE	12	22N	21E	2.0	2.0	8.0	Grape vines.
47599	Permit	Lewis H. & Nora Polizzi	NW	SW	1	22N	20E	2.0	2.0	2.0	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				1 well drilled, no pump. 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	Irrigation.
49530	Permit	MCO Prop., Inc.	SE	NW	32	23N	21E	5.0	5.0	20.0	Irrigation.
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

1986

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
49445	Permit	Moore - 1/2 int.	NE	SE	15	22N	20E	8.0			Being prepared for 1st planting.
		McCrorey - 1/2 int.	NW	SE	15	22N	20E	6.0			
								14.0	0.0	0.0	
49669	Permit	Intermountain Land Company	NW	NE	22	23N	20E	5.20	5.20	20.80	Irrigation. 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	
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	0.0	0.0	Irrigation.
49714	Permit	MCO Prop., Inc.	NE	NW	9	22N	21E	31.97	0.0	0.0	Irrigation.
50054	Permit	Kenneth L. & Sue C. McGuire	SE	NW	27	22N	21E	2.5	2.5	10.0	Irrigation.
50055	RFA	Dennis R. & Genie M. Moore; Jan S. McCrovey									
50056	Permit	Orlando & Nina B. Boanini	SE	SE	36	22N	20E	3.0	0.0	0.0	Preparing ground by adding sludge.