WARM SPRINGS VALLEY
GROUND WATER PUMPAGE INVENTORY
WATER YEAR 1996

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PURPOSE AND SCOPE

This document is intended to quantify groundwater use in Warm Springs Valley and inventory ground water resources allocated by the Nevada Division of Water Resources (Office of the State Engineer) for that period beginning October 1, 1995 and ending September 30, 1996 (hereinafter referred to as the 1996 water year).

Warm Springs Valley (AKA: Palomino Valley) lies north and east of the Reno-Sparks area approximately 12 miles along S.R. 445 (Pyramid Lake Highway) encompassing an area of about 250 square miles. Very little dependable surface water exists at the valley floor so underground sources provide the majority of the water placed to beneficial use. Warm Springs Creek from the north and Cottonwood Creek from the south drain into the valley from the surrounding mountains and are fully appropriated before they reach the valley floor. Mullen Creek intercepts drainage that overflows from Warm Springs Valley and conveys it to Pyramid Lake Valley on the northeast. Warm Springs and Cottonwood Creeks are perennial near the mountains but only reach the valley floor during periods of heavy runoff and, on rare occasion, overflow into Mullen Creek which is ephemeral.

SUB AREAS

The sub areas herein do not represent drainage sub basins as defined by the State Engineer. The boundaries of the sub areas were determined by the intensity of water use and physical features. The sub areas are: West (W), Central (C), and South (S) (see map).

PROCEDURES AND SUMMARY

The 1996 pumpage inventory was conducted primarily during September and October of 1996. All permitted and certificated water rights were also field checked at least once during the growing season to verify culture and water use estimates. Those areas under irrigation from multiple rights from the same well

will have the total pumpage pro-rated over the entire area under irrigation regardless of culture. This means that the pumpage is divided up amongst the valid permits and uniformly "spread out" over the place of use actually irrigated. This becomes fairly complex when temporary rights enter the picture. In any event, the total pumpage will be as accurate as the meter readings can be.

Total pumpage from all sources, including domestic wells, was estimated as **5098** acre-feet (see page 5). This represents a significant increase over the 1995 pumping level. The increase is largely attributable to the timing of precipitation events, reports of significant area storms "missing" the valley and some instances of pumping in excess of the allowed duty.

Irrigation continues to represent the primary consumption of water with alfalfa, onion, garlic and turf as the major crops. A total of **4664** acre-feet was pumped to this use (see page 5). The greatest concentration of irrigated land lies east of the Pyramid Lake Highway in the central sub area on and near land formerly controlled by MCO Properties, Inc. The next largest area of irrigation is in the west sub area scattered along the Winnemucca Ranch Road north of Range Land Road and on the Winnemucca Ranch. Additional irrigated land lies scattered about the valley in 0.5 to 20.0 acre fields usually accompanied by single family dwellings.

Domestic pumpage was estimated from a count of domestic wells drilled in the valley as **345** acre-feet. The count was cross referenced to Washoe County Assessor's records for parcels with dwellings to increase accuracy. Since the landscaping is typically minimal unless a water right (permit) is attendant, the annual duty was estimated based upon a diversion rate of 1000 gallons per day. This yields an annual duty of 1.12 acre-feet annually per well in use.

Stock watering was estimated based upon the number of animals watered at **21** acre-feet.

Recreation accounted for just over **2** acre-feet at the Washoe County Regional Shooting Facility and at the Air Sailing, Inc.

glider strip.

Quasi-municipal use accounted for **52** acre-feet at the Reno-Sparks Indian Colony by Hungry Valley Utility District (H.V.U.D.), the volunteer fire station (T.M.F.P.D.) and Palomino Valley General Improvement District (P.V.G.I.D.).

Industrial and other uses accounted for just over **14** acre-feet with the major use being environmental remediation at the old Rocketdyne sites.

SUPPLEMENTAL RIGHTS

18.15 acres of the irrigated land on the Winnemucca Ranch are supplemental to Warm Springs Creek water in the amount of 64.60 acre-feet. Additionally, 18 acres in the name of MCO Properties, Inc. are supplemental to the waters of Piute Creek in the amount of 72.00 acre-feet. There are also a few underground rights that are supplemental to other underground rights. These are accounted for in the supplemental adjustment column and explained in the remarks column.

ERRATA

Certain lands in the central area formerly under the control of MCO Properties, Inc. have been stripped of their water rights by deed and the land sold to third parties. In subsequent years the third parties have consolidated their remaining water rights on the same lands. Although the land to which water is appurtenant under several portions of permits owned by second parties is irrigated, their water rights have not been exercised since January 15, 1992. The specific certificated permits referred to are as follows: 28071, 28076, 28444, 28447, 30109, 30110, 30111, 30112, 30115, 30116, 30118 and 30119.

RECHARGE

The State Engineer maintains neither snow courses nor precipitation gauges in the mountains surrounding Warm Springs Valley. Stream flow measurements are also not regularly

performed. Subsequently, recharge to Warm Springs Valley has been estimated by empirical methods as described in Report 43[1]. That estimate, by the Eakin method, was placed at 6,000 acre-feet annually.

Runoff was estimated by D. O. Moore in Report 43 as 14,000 acre-feet annually, primarily from Warm Springs Creek and Cottonwood Creek. Whereas Mullen Creek drains the valley only in the amount of about 70 acre-feet annually. No playa exists in Warm Springs Valley which leads one to believe that actual recharge from runoff may be somewhat higher than the Eakin method would otherwise suggest. On the other hand, the declining water levels in nearby wells indicates that recharge is being captured prior to reaching this part of the aquifer.

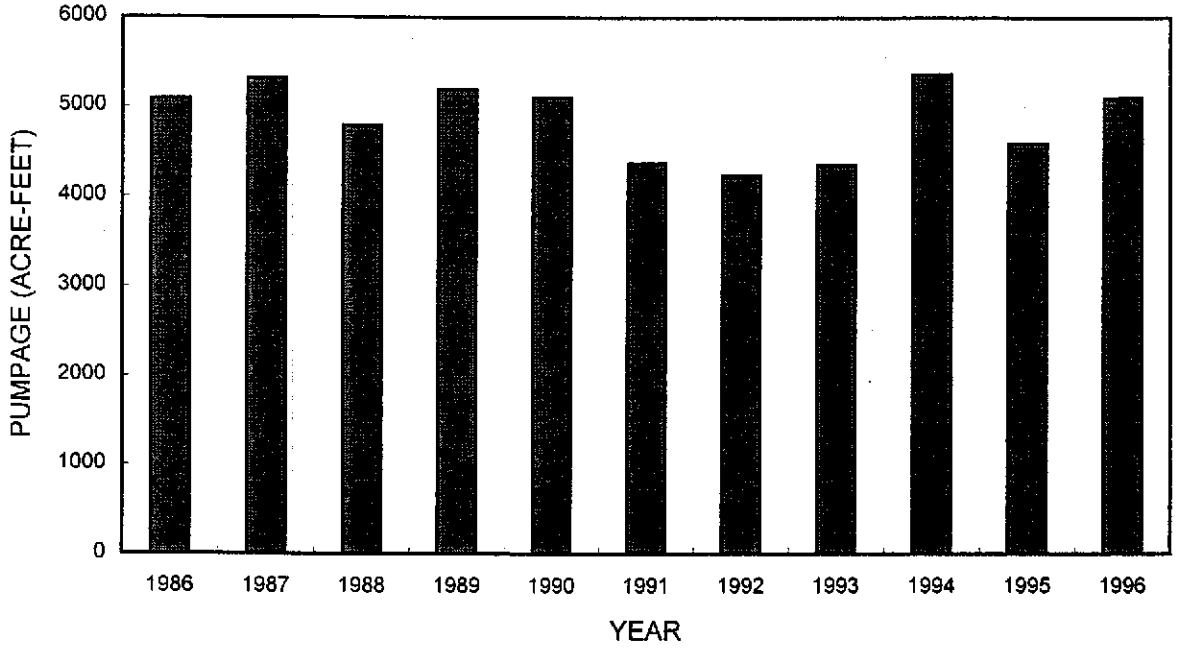
Recharge from irrigation is not readily estimated and is dependant upon several variables: rate of water application, total depth of wetting, direct evapotranspiration rates, crop type and infiltration and percolation rates which are in turn dependant upon soil type and structure. Based upon Report 43 the rate of recharge from irrigation is likely minimal.

A water budget assumes that for a steady state condition the total input of water must equal the total draw on the water. Therefore the actual recharge of the valley must not exceed the total draw on the groundwater of the valley in a steady state or "pre-development" condition. This assumption is the basis for any estimate of perennial yield from a given groundwater system. Using a water budget Report 43 arrived at a perennial yield of **3000 acre-feet** annually due to the observed draws on the groundwater in Warm Springs Valley and the difficulty in capturing all of the water that otherwise is "lost" through natural evapotranspiration. This is the figure utilized by the State Engineer in water planning decisions.

A more recent series of studies have verified many of the assumptions that were made in Report 43 and confirmed that the methodology utilized was reasonably accurate[2].

[1] Please see entry (1) in the selected bibliography.
[2] Please see entries (2) and (3) in the selected bibliography.

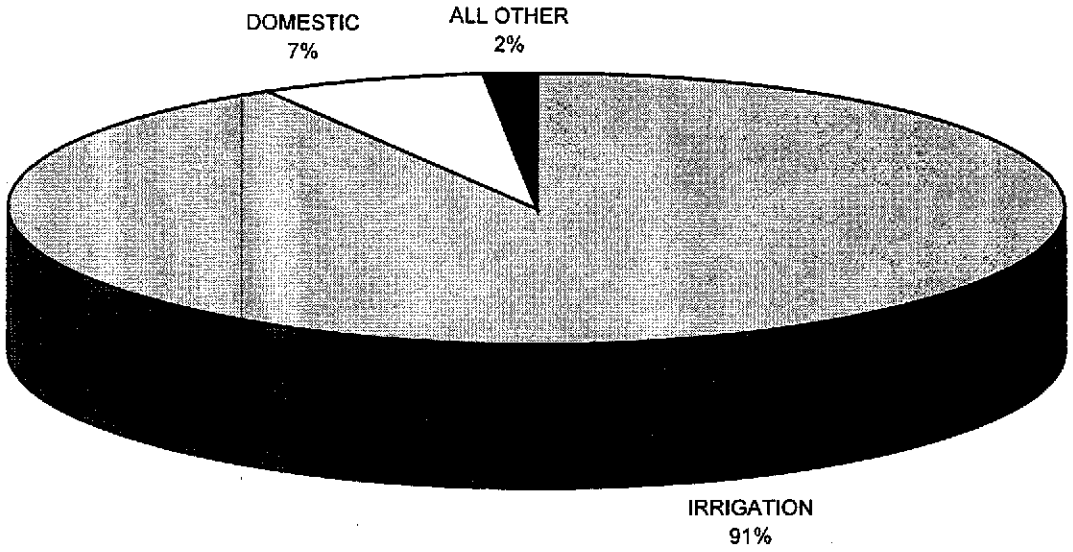
TOTAL PUMPAGE BY WATER YEAR



Perennial yield is estimated at 3,000 acre-feet

PUMPAGE BY USE TYPE

Water Year 1996



LEGEND

A number of abbreviations are used in the tables of this report. The following two pages are a brief discussion of the columns of the report and definitions of abbreviations utilized.

APPEARING IN THE WATER RIGHTS SUMMARY

COLUMN HEADING	DESCRIPTION
APP. NO.	Application number in the records of the State Engineer. If an application is issued this number becomes the permit number. AKA: File number.
STATUS	Status of the corresponding application at the end of the water year. See: Abbreviations.
DUTY	Amount of water requested in the application or allowed by the terms of the permit. All figures are in acre-feet annually (AFA).
USE	Type of beneficial use to which water is applied.
19**	Amount of water pumped under the corresponding application number. Figures are in acre-feet annually (AFA).

APPEARING IN THE PUMPAGE INVENTORY

PERMIT	See: "APP. NO." above.
STAT	See: "STATUS" above.
MOU	See: "USE" above.
PERMITTEE	Owner of record in the Office of the State Engineer. Not necessarily the actual owner of the land to which the water is appurtenant.
PLACE OF USE	Forty (40) acre subdivisions in which the water is permitted to be placed to beneficial use.
Q1 Q2 SEC T R	Abbreviation of "One quarter of one quarter of a Section in a Township and Range." AKA: Legal.
UNITS/ACRES	Number of units (head of stock, number of parcels, etc...) or acreage to be irrigated under the terms of the corresponding permit.
DUTY	Amount of water allowed to be pumped over the course of a year. All figures in acre-feet annually (AFA).
SUPP. ADJ.	Supplemental adjustment. The sum of this column is subtracted from the sum of the "DUTY" column to yield the actual committed resources. The permit corresponding to a figure in this column is considered to be supplemental to another permit in the amount indicated. Also used to account for the issuance of TEMPORARY permits changing (abrogating) existing permits during the water year.
UNITS USED	Actual number of units served or acres of land irrigated during the reported water year.
DUTY USED	Actual (metered or estimated) amount of water placed to beneficial use during the reported water year.
MCO PAR.#	Parcel number corresponding to the "Exhibit Map Supporting the Conveyance of Water Rights by MCO Properties, Inc." on file in the Office of the State Engineer. This column only pertains to certain areas in the Central area.
REMARKS/CULTURE	Self explanatory.

OTHER ABBREVIATIONS UTILIZED

CER	Certificated.
#####	Number appearing in a "STATUS" column indicates a certificate with number #####.
PER	Permitted.
RFA	Application that is Ready For Action, i.e. protest period has expired.
APP	Application prior to expiration of the protest period.
ABR	Abrogated, i.e. changed by subsequent application.
T-ABR	Abrogated by a temporary application.
WDN	Application, permit or certificate Withdrawn by applicant, agent or successor in interest.
EXP	Expired temporary permit. If used in remarks column date on which a temporary permit expires.
REL	Permit or certificate Relinquished to the state.
T-PER	Temporary permit. Valid for no longer than one year from date of issue.
IRR	Irrigation use.
I&D	Irrigation and domestic use.
STK	Stock watering use.
S&D	Stock watering and domestic use.
Q-M	Quasi-municipal use.
IND	Industrial use.
ENV	Environmental remediation use.
E-PER	Permitted for environmental remediation.
C-#####	Certificate number #####.
P-#####	Permit number #####.
POD	Point of diversion.
BLM	U.S.D.I. Bureau of Land Management.
GID	General Improvement District.
AF/ac.	Acre-feet per acre.
**	Quantity unable to fit format, usually extensive.

NUMERICAL LISTING BY

APPLICATION NUMBER

AND

WATER PUMPAGE SUMMARY

WARM SPRINGS VALLEY (PALOMINO VALLEY) UNDERGROUND WATER RIGHTS SUMMARY.

APP. NO.	STATUS 1996	DUTY (AFA)	USE	SUB AREA	DUTY USED BY WATER YEAR 1991	1992	1993	1994	1995	1996
13630	3638	72.00	I&D	C	0.00	0.00	0.00	0.00	0.00	0.00
23888	8283	477.80	IRR	C	378.74	335.40	475.90	536.73	161.50	385.02
24099	7599	4.00	STK	C	4.00	4.00	4.00	4.00	4.00	4.00
27395	9317	8.01	REC	W	0.43	0.50	0.60	0.56	0.35	0.86
28071	8628	6.40	IRR	C	0.00	0.00	0.00	0.00	0.00	0.00
28076	8518	36.00	IRR	C	0.00	0.00	0.00	0.00	0.00	0.00
28444	10632	26.12	IRR	C	165.68	370.13	0.00	0.00	0.00	0.00
28447	8634	14.00	I&D	C	0.00	0.00	0.00	0.00	0.00	0.00
30109	10579	17.00	IRR	C	0.00	0.00	0.00	0.00	0.00	0.00
30110	10580	20.00	IRR	C	0.00	0.00	0.00	0.00	0.00	0.00
30111	10581	40.00	IRR	C	0.00	96.17	0.00	0.00	0.00	0.00
30112	10582	0.00	IRR	C	0.00	96.17	0.00	0.00	0.00	0.00
30115	T-ABR	0.00	IRR	C	0.00	0.00	0.00	0.00	0.00	0.00
30116	10586	12.00	IRR	C	0.00	0.00	0.00	0.00	0.00	0.00
30118	10588	3.00	IRR	C	0.00	0.00	0.00	0.00	0.00	0.00
30119	10589	22.00	IRR	C	0.00	0.00	0.00	0.00	0.00	0.00
32363	12348	24.00	IRR	C	0.00	0.00	13.00	13.00	23.38	11.89
34668	10495	8.00	I&D	S	8.00	8.00	8.00	1.00	3.23	4.21
34670	9862	40.00	IRR	C	40.00	40.00	33.33	17.70	22.32	20.93
35486	10034	8.00	IRR	C	8.00	8.00	8.00	8.00	8.00	8.00
35565	11087	0.16	REC	W	0.22	0.23	0.27	0.21	0.17	0.33
39166	10496	80.00	IRR	C	80.00	80.00	66.67	35.39	44.63	41.87
39167	10457	160.00	IRR	C	100.00	100.00	160.00	160.00	160.00	160.00
39593	PER	64.60	I&D	W	64.60	64.60	12.53	0.00	0.00	0.00
39849	PER	20.00	REC	W	0.27	9.13	0.42	0.48	0.73	1.04
40587	11180	80.00	IRR	C	80.00	80.00	0.00	0.00	0.00	0.00
42403	11875	0.02	Q-M	C	0.02	0.02	0.02	0.02	0.02	0.01
43005	11238	100.00	IRR	C	100.00	69.20	100.00	100.00	100.00	40.67
43006	11181	8.00	I&D	S	8.00	8.00	8.00	8.00	8.00	7.00
45095	10798	8.00	I&D	W	8.00	8.00	8.00	8.00	8.00	9.90
46199	13137	172.00	IRR	C	172.00	172.00	108.25	59.48	75.96	62.64
47562	12057	16.00	I&D	W	8.25	10.45	11.60	13.31	10.85	11.37
47599	13820	8.00	IRR	W	2.84	8.02	6.00	4.06	1.85	1.53
48819	12354	5.20	STK	W	7.84	7.84	0.00	5.00	7.84	2.85
49262	12469	8.00	IRR	C	9.21	8.00	0.00	0.00	0.00	0.00
49445	13822	20.00	IRR	W	20.00	20.00	2.79	7.97	0.00	0.00
49530	12470	20.00	IRR	C	23.01	20.00	0.00	0.00	0.00	0.00
49669	11974	235.40	IRR	W	0.00	0.00	0.00	70.00	144.30	48.50
49670	11975	300.00	IRR	W	0.00	0.00	0.00	86.00	184.70	61.82
50021	13542	29.87	STK	C	29.87	12.00	11.90	29.87	18.74	14.10
50054	PER	10.00	I&D	S	2.19	2.19	6.06	10.65	6.26	7.37
50056	PER	4.00	I&D	S	0.45	9.50	1.83	1.45	0.41	0.54
50764	PER	24.00	I&D	S	0.00	0.00	0.00	0.00	0.00	28.65

** NOTE: "DUTY" COLUMN IS AS OF 9-30-95. **

WARM SPRINGS VALLEY (PALOMINO VALLEY) UNDERGROUND WATER RIGHTS SUMMARY.

APP. NO.	STATUS 1996	DUTY (AFA)	USE	SUB AREA	DUTY USED BY WATER YEAR 1991	1992	1993	1994	1995	1996
51002	13241	12.00	I&D	W	14.56	14.81	16.74	17.30	11.47	14.85
51169	PER	8.00	I&D	C	1.71	0.00	2.49	3.70	3.70	3.80
51170	PER	2.00	I&D	C	1.12	1.12	0.08	0.71	0.00	0.88
51474	PER	7.00	I&D	C	0.00	0.00	2.17	3.24	3.24	3.33
51883	PER	10.00	IRR	W	3.89	4.74	5.22	2.45	5.24	4.70
51971	CAN	0.00	Q-M	S	0.00	0.00	0.00	0.00	0.00	0.00
52089	PER	18.38	Q-M	W	0.00	0.00	0.00	2.52	0.70	0.00
52202	13311	16.00	IRR	S	20.72	21.54	25.77	27.13	26.16	27.52
52573	RFA		IRR	W						0.00
52708	PER	4.00	IRR	C	0.00	0.00	0.00	0.00	0.00	0.00
52842	13312	4.00	I&D	S	5.18	5.39	6.44	6.78	6.54	6.88
52868	13916	52.00	I&D	S	35.50	46.13	55.89	52.00	36.15	42.65
52869	13917	28.00	I&D	S	32.63	28.00	30.10	28.00	18.93	22.96
52903	RFA		IRR	C						0.00
52904	RFA		IRR	C						0.00
53174	RFA		IRR	S						0.00
53175	RFA		IRR	S						0.00
53218	RFA		IRR	S						0.00
53242	PER	20.00	IRR	C			6.00	6.00	5.53	6.81
53243	PER	5.98	IRR	S				0.00	0.00	0.00
53263	13918	20.00	I&D	S		14.58	21.50	20.00	13.52	16.40
53275	14073	4.00	I&D	S	0.00	0.00	0.32	4.00	1.38	2.91
53277	PER	8.00	IRR	S						0.00
53278	PER	10.00	IRR	S						0.00
53279	RFA		IRR	S						0.00
53303	12897	58.80	I&D	C	12.60	89.13	134.80	139.22	178.80	88.58
53304	12898	5.59	I&D	C	3.30	2.92	3.41	3.84	4.31	3.69
53305	12899	65.20	I&D	C	49.23	43.11	65.20	67.34	86.48	98.27
53306	12900	20.40	I&D	C	12.03	10.65	15.11	17.04	19.11	16.45
53307	12901	32.12	I&D	C	18.94	16.77	23.79	26.84	30.09	25.90
53308	12902	127.88	I&D	C	75.39	66.77	94.74	106.84	119.79	103.02
53313	PER	165.32	Q-M	W	18.51	12.97	22.65	37.23	32.56	44.22
53343	PER	16.00	I&D	S		0.00	0.00	0.00	0.00	2.40
53344	PER	40.00	IRR	S			0.00	0.00	40.00	60.62
53345	PER	10.00	IRR	C		0.00	0.00	0.00	0.00	0.00
53346	PER	16.00	IRR	W			0.00	0.00	0.95	1.79
53347	PER	6.00	I&D	S	0.00	0.00	0.00	0.00	0.00	0.20
53674	PER	4.00	IRR	C			0.00	0.00	0.00	0.00
53676	PER	4.00	IRR	S			0.00	0.00	0.00	0.09
53677	14074	5.20	IRR	W	5.20	5.20	7.12	1.11	1.57	1.05
53678	14075	66.80	IRR	W	66.80	66.80	91.46	14.29	20.13	13.54
53694	PER	13.50	IRR	S					0.00	0.00
53864	PER	4.00	IRR	S					0.00	1.57

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APP. NO.	STATUS 1996	DUTY (AFA)	USE	SUB AREA	DUTY USED BY WATER YEAR 1991	1992	1993	1994	1995	1996
53865	PER	20.00	IRR	C				20.00	20.00	0.00
54164	RFA		IRR	C						0.00
54165	PER	8.00	IRR	S				0.00	0.32	0.00
54166	PER	12.00	I&D	W		0.00	0.00	0.00	0.00	0.00
54167	PER	8.00	IRR	S				0.00	0.00	0.00
54168	PER	8.00	IRR	C				0.00	0.00	0.00
54169	PER	20.00	IRR	C				0.00	0.00	0.00
54197	PER	8.00	IRR	S				0.00	0.00	0.00
54198	PER	8.00	IRR	S				0.00	0.00	0.00
54199	PER	8.00	IRR	S				0.00	0.00	0.00
54265	PER	20.00	I&D	S	0.00	0.00	0.00	0.00	0.00	0.00
54411	PER	12.00	IRR	W				0.00	0.00	0.00
54412	PER	4.00	IRR	S			0.00	0.00	0.00	0.08
54413	PER	40.00	I&D	S	0.00	0.00	0.00	0.00	0.00	0.00
54460	ABR	0.00	IRR	C				0.00	0.00	0.00
54461	T-ABR	0.00	IRR	C				0.00	0.00	0.00
54462	T-ABR	0.00	IRR	C				0.00	0.00	0.00
54463	T-ABR	0.00	IRR	C				0.00	0.00	0.00
54464	T-ABR	0.00	IRR	C				0.00	0.00	0.00
54465	T-ABR	0.00	IRR	C				0.00	0.00	0.00
54466	T-ABR	0.00	IRR	C				0.00	0.00	0.00
54467	PER	4.00	IRR	C				0.00	0.00	0.00
54468	PER	16.00	IRR	C				0.00	0.00	0.00
54469	T-ABR	0.00	IRR	C				0.00	0.00	0.00
54470	T-ABR	0.00	IRR	C				0.00	0.00	0.00
54471	T-ABR	0.00	IRR	C				0.00	0.00	0.00
54614	PER	6.00	IRR	W					0.00	0.01
54615	PER	6.00	I&D	W		0.00	0.00	0.00	0.00	0.00
54616	PER	4.00	I&D	W		0.00	0.00	0.00	0.00	0.00
54889	14080	10.00	IRR	W	0.00	14.77	4.63	10.06	4.17	4.98
55118	PER	16.00	IRR	C					0.00	0.00
55119	PER	16.00	IRR	C					0.00	0.00
55326	PER	8.00	IRR	S				0.00	0.00	0.00
55483	PER	4.00	IRR	S				0.00	0.00	0.00
55600	14076	540.00	I&D	C		540.00	505.26	725.93	640.86	820.66
55603	14068	180.00	IRR	C		177.28	180.00	190.61	122.34	180.00
55604	14069	47.60	IRR	C		42.70	47.60	50.41	29.47	43.36
55605	14070	11.72	IRR	C		11.54	11.72	12.41	7.97	11.72
55606	14071	304.68	IRR	C		300.07	304.68	322.65	207.08	304.68
55607	14072	4.24	IRR	C		46.88	4.24	4.49	2.88	4.24
55608	14077	192.00	I&D	C		52.57	78.49	193.80	186.71	127.40
55653	PER	8.00	Q-M	C			0.00	0.00	0.00	7.60
55656	PER	4.00	IRR	S		0.00	2.00	2.20	2.91	2.66

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55657	PER	4.00	I&D	C					0.00	0.00
55658	PER	28.00	IRR	C			0.00	0.00	0.00	0.00
55659	PER	4.00	IRR	C			0.00	0.00	0.00	0.00
55973	PER	1.12	IRR	C					0.00	0.00
55974	PER	8.00	IRR	C					0.00	0.00
55975	PER	14.84	IRR	C					0.00	0.00
56164	PER	2.50	I&D	W		0.00	0.00	0.00	0.00	0.00
56284	PER	12.00	IRR	S				0.00	0.00	0.00
56472	PER	4.00	IRR	S			0.00	0.39	1.38	0.00
56576	PER	4.00	IRR	S			0.00	0.00	1.26	3.19
56613	PER	0.00	Q-M	W		0.00	0.00	0.00	0.00	0.00
56927	PER	5.00	IRR	S			0.00	0.00	0.00	0.00
56928	PER	4.00	IRR	W					0.00	0.00
56929	PER	20.00	IRR	C					0.00	0.92
56930	PER	1.20	IRR	W			0.00	0.00	0.00	0.00
56931	PER	7.20	IRR	W			0.00	0.00	0.00	0.00
56932	PER	12.50	IRR	C			0.00	0.00	0.00	0.00
56933	PER	17.50	IRR	C			0.00	0.00	0.00	0.00
56934	PER	3.60	IRR	W			0.00	0.00	0.00	0.00
56963	PER	8.00	IRR	W			0.00	0.00	0.00	0.00
57084	14031	409.48	IRR	C			417.29	410.46	224.88	379.69
57085	14078	13.12	IRR	C			92.52	95.56	17.40	19.79
57086	14032	112.40	IRR	C			112.40	116.09	149.09	169.36
57087	14033	0.00	IRR	C			0.00	0.00	0.00	0.00
57088	14034	9.08	IRR	C			9.08	9.38	12.04	13.69
57089	14035	0.00	IRR	C			0.00	0.00	0.00	0.00
57090	14036	57.32	IRR	C			58.41	57.46	31.48	53.13
57091	14037	0.00	IRR	C			0.00	0.00	0.00	0.00
57092	14038	68.80	IRR	C			70.11	68.97	37.78	63.79
57093	14039	86.00	IRR	C			87.64	86.21	47.23	79.76
57094	14040	150.60	IRR	C			153.47	150.96	82.71	139.62
57095	14041	127.60	IRR	C			127.60	131.79	169.25	192.25
57175	PER	4.00	IRR	C					0.00	0.00
57202	PER	8.00	IRR	C			0.00	0.00	0.00	0.00
57444	PER	11.20	IRR	C			8.30	11.86	7.61	11.20
57445	PER	24.00	IRR	C			17.78	25.42	16.31	24.00
57446	PER	20.80	IRR	C			15.41	22.03	14.14	20.80
57447	PER	13.97	IRR	C			10.37	14.83	9.52	13.97
57448	PER	5.50	IRR	C			4.07	5.82	3.74	5.50
57526	PER	4.00	IRR	S			0.00	0.00	0.00	0.00
57663	PER	10.00	IRR	W					0.00	0.00
57664	PER	8.00	IRR	C			0.00	2.00	4.00	3.00
57899	E-PER	80.65	ENV	C			0.00	0.00	0.58	5.52

** NOTE: "DUTY" COLUMN IS AS OF 9-30-95. **

WARM SPRINGS VALLEY (PALOMINO VALLEY) UNDERGROUND WATER RIGHTS SUMMARY.

APP. NO.	STATUS 1996	DUTY (AFA)	USE	SUB AREA	DUTY USED BY WATER YEAR 1991	1992	1993	1994	1995	1996
57983	PER	4.00	IRR	S					0.00	0.45
58057	PER	1.00	IRR	S			0.00	0.00	0.00	0.00
58290	PER	10.00	IRR	S					0.00	0.00
58359	RFA		IRR	S						0.00
58507	14042	8.96	IRR	C			5.06	9.25	11.88	13.49
58508	14043	52.00	IRR	C			29.37	53.71	68.97	78.34
58509	14044	2.60	IRR	C			1.47	2.69	3.45	3.93
58566	PER	8.00	IRR	C					0.00	0.00
58918	RFA		IRR	S						0.00
59853	RFA		IRR	S						0.00
59854	RFA		IRR	S						0.00
60214	RFA		Q-M	W						0.00
60384	RFA		IND	W						0.00
60385	RFA		IND	W						0.00
60448	T-PER	100.00	IRR	C					100.00	0.00
60498	T-PER	40.00	IRR	C					27.19	12.81
60499	T-PER	60.00	I&D	C					40.78	19.22
60500	T-PER	13.16	I&D	C					8.94	4.22
60501	T-PER	6.84	I&D	C					4.65	2.19
60502	T-PER	40.00	I&D	C					27.19	12.81
60503	T-PER	16.00	I&D	C					0.00	16.00
60504	T-PER	12.00	I&D	C					0.00	12.00
60505	T-PER	20.00	I&D	C					0.00	20.00
60506	T-PER	16.00	I&D	C					0.00	16.00
60507	T-PER	47.82	IRR	C					0.00	47.82
60508	T-PER	8.08	IRR	C					0.00	8.08
60509	T-PER	20.00	I&D	C					0.00	20.00
60510	T-PER	120.00	IRR	C					100.00	20.00
60626	T-PER	79.40	IRR	C					94.23	40.69
60627	T-PER	40.60	IRR	C					48.18	20.80
60629	RFA		IRR	S						0.00
60916	E-PER	322.87	ENV	C					0.00	2.55
60975	E-PER	16.13	ENV	S					0.18	0.48
61162	E-PER	16.13	ENV	C					0.00	5.80
61923	PER	40.00	I&D	C						1.00
61942	RFA		IRR	C						0.00
62157	T-RFA		IRR	C						0.00
62158	T-PER	60.00	I&D	C						27.28
62159	T-PER	13.16	I&D	C						5.99
62160	T-PER	6.84	I&D	C						3.11
62161	T-PER	40.00	I&D	C						18.19
62162	T-PER	20.00	I&D	C						9.10
62163	T-PER	20.00	I&D	C						9.10
62164	T-PER	47.82	I&D	C						21.74
62165	T-PER	8.08	I&D	C						3.67
62166	T-RFA		IRR	C						0.00
62389	T-PER	76.00	IRR	C						6.21
62390	T-PER	79.40	IRR	C						6.49
62391	T-PER	164.60	IRR	C						13.44
62425	APP		IRR	S						0.00

** NOTE: "DUTY" COLUMN IS AS OF 9-30-95. **

WARM SPRINGS VALLEY (PALOMINO VALLEY) UNDERGROUND WATER RIGHTS SUMMARY.

APP. NO.	STATUS 1996	DUTY (AFA)	USE	SUB AREA	DUTY USED BY WATER YEAR					
					1991	1992	1993	1994	1995	1996

PERMITTED DUTY 7703.46 PERMITTED PUMPAGE 4759.75

Note: The "Permitted Duty" shown above is too high by about 595 AF due to "doubling up" of temporary permits in the given water year.

** NOTE: "DUTY" COLUMN IS AS OF 9-30-95. **

PUMPAGE BY PERMIT

PUMPAGE SUMMARY BY SUB AREA
INCLUDING DOMESTIC USE ESTIMATE

CENTRAL	4385 Acre-feet
SOUTH	428 Acre-feet
WEST	285 Acre-feet

WARM SPRINGS VALLEY CENTRAL: 1996

PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
13630	3638	I&D	MCO Properties, Inc.	NE	SW	18	22	22	2.00			0.00	0.00		POD in the SW¼ SE¼ Sec. 18
13630	3638	I&D	MCO Properties, Inc.	NW	SW	18	22	22	16.00			0.00	0.00		Parcels are covered by brush
13630	3638	I&D							18.00	72.00		0.00	0.00		Supplemental to Piute Creek
23888	8283	IRR	Tehama Holdings, Inc.	SE	SW	5	22	21	9.90			3.50	11.28		
23888	8283	IRR	Tehama Holdings, Inc.	NE	SE	5	22	21	3.20			0.60	1.93		
23888	8283	IRR	Tehama Holdings, Inc.	NW	SE	5	22	21	8.10			2.80	9.03		
23888	8283	IRR	Tehama Holdings, Inc.	SW	SE	5	22	21	39.70			38.50	124.10		
23888	8283	IRR	Tehama Holdings, Inc.	SE	SE	5	22	21	32.60			26.30	84.77		Portions ABR by 60448-T, exp. 12-31-95
23888	8283	IRR	Tehama Holdings, Inc.	NE	NE	8	22	21	24.80			17.50	56.41		Portions ABR by 62391-T, exp. 09-10-97
23888	8283	IRR	Tehama Holdings, Inc.	NW	NE	8	22	21	36.40			30.10	97.02		Portions ABR by 60510-T, exp. 12-31-95
23888	8283	IRR	Tehama Holdings, Inc.	NE	NW	8	22	21	5.90			0.15	0.48		Portions ABR by 60627-T, exp. 12-31-95
23888	8283	IRR							160.60	642.40		119.45	385.02		MCO well #3; Alfalfa
24099	7599	STK	U.S.D.I. - BLM	NW	NE	7	22	21	172	4.00		172	4.00		Horses
28071	8628	IRR	Reno Sparks Indian Colony	NW	SW	4	22	21	0.97			0.00	0.00	39	
28071	8628	IRR	Washoe County	SE	NW	4	22	21	0.63			0.00	0.00	57	
28071	8628	IRR							1.60	6.40		0.00	0.00		MCO well #2
28076	8518	IRR	MCO Properties, Inc.	NE	NW	16	22	21	1.00			0.00	0.00	90	
28076	8518	IRR	Messenger Molding, Inc. & Washoe Co.	NE	NW	16	22	21	2.50			0.00	0.00	91	
28076	8518	IRR	McNaughton, Arthur Francis, III	NE	NW	16	22	21	3.75			0.00	0.00	91	
28076	8518	IRR	Washoe County	NW	NW	16	22	21	0.63			0.00	0.00	91	Actually 0.625 Acres
28076	8518	IRR	Zenz, Donald J. & Donna R.	NW	NW	16	22	21	1.13			0.00	0.00	91	Actually 1.125 Acres
28076	8518	IRR							9.00	36.00		0.00	0.00		MCO well #5
28444	10632	IRR	Reno Sparks Indian Colony	NE	NE	5	22	21	2.00			0.00	0.00	24	
28444	10632	IRR	Foster, Raymond A. & Bertha T.	NE	NE	5	22	21	1.00			0.00	0.00	25	
28444	10632	IRR	Gleason, John T. & Theresa G.	NW	NE	5	22	21	1.25			0.00	0.00	29	This por. ABR by 53278, 07-05-96
28444	10632	IRR	Speck, Gene E.	NW	NE	5	22	21	1.25			0.00	0.00	29	This por. ABR by 53278, 07-05-96
28444	10632	IRR	Reno Sparks Indian Colony	NW	NE	5	22	21	1.03			0.00	0.00	38	
28444	10632	IRR							6.53	26.12		0.00	0.00		MCO well #1
28447	8634	I&D	Reno Sparks Indian Colony	SW	SW	4	22	21	1.50			0.00	0.00	49	
28447	8634	I&D	MCO Properties, Inc. (McCoy ?)	SW	SW	4	22	21	2.00			0.00	0.00	52	
28447	8634	I&D							3.50	14.00		0.00	0.00		MCO well #2
30109	10579	IRR	MCO Properties, Inc. (Burgess?)	NW	NW	5	22	21	1.06			0.00	0.00	8	

WARM SPRINGS VALLEY CENTRAL: 1996

PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
30109	10579	IRR	MCO Properties, Inc. (Burgess?)	NE	NW	5	22	21	0.94			0.00	0.00	8	
30109	10579	IRR	Seher, Ray	SW	SW	32	23	21	1.00			0.00	0.00	4	
30109	10579	IRR	Washoe County	SW	SW	32	23	21	1.25			0.00	0.00	4	
30109	10579	IRR							4.25	17.00		0.00	0.00		MCO well #1
30110	10580	IRR	MCO Properties, Inc. (Carpenter?)	NE	NW	5	22	21	4.99			0.00	0.00	12	
30110	10580	IRR	MCO Properties, Inc. (Carpenter?)	SE	NW	5	22	21	0.01			0.00	0.00	12	
30110	10580	IRR							5.00	20.00		0.00	0.00		MCO well #1
30111	10581	IRR	Miller, Marilyn B.	NW	NW	5	22	21	6.00			0.00	0.00	101	
30111	10581	IRR	Miller, Marilyn B.	NE	NE	6	22	21	4.00			0.00	0.00	101	Supplemental to 30112
30111	10581	IRR							10.00	40.00		0.00	0.00		MCO well #1
30112	10582	IRR	Miller, Marilyn B.	NW	NW	5	22	21	6.00			0.00	0.00	101	
30112	10582	IRR	Miller, Marilyn B.	NE	NE	6	22	21	4.00			0.00	0.00	101	Supplemental to 30111; Duty under 30111
30112	10582	IRR							10.00	40.00	40.00	0.00	0.00		MCO well #1
30115	10585	IRR	Cochrane, Jack	NE	SE	9	22	21	7.98			0.00	0.00	71	This por. ABR by 62164-T, exp. 08-06-97
30115	10585	IRR	Cochrane, Jack	NW	SE	9	22	21	4.00			0.00	0.00	87	This por. ABR by 62164-T, exp. 08-06-97
30115	10585	IRR							11.98	47.81		0.00	0.00		MCO well #5; Duty = 3.99114 AF/ac.
30116	10586	IRR	Shammas, George A. & Patricia M.	NE	SW	9	22	21	1.00			0.00	0.00	79	
30116	10586	IRR	Rowe, Richard J. & Evelyn K.	NW	SE	9	22	21	2.00			0.00	0.00	84	This por. ABR by 53277, 07-09-96
30116	10586	IRR							3.00	12.00		0.00	0.00		MCO well #5
30118	10588	IRR	MCO Properties, Inc.	SW	NE	9	22	21	0.75			0.00	0.00	67	
30118	10588	IRR	Cochrane, Jack	SE	NE	9	22	21	2.02			0.00	0.00	69	ABR by 60508-T & 62165-T, exp. 12-31-95
30118	10588	IRR							2.77	11.08		0.00	0.00		MCO well #5 & 08-06-97
30119	10589	IRR	Demopoulos, Gerald & Delores	SW	SW	4	22	21	1.00			0.00	0.00	43	
30119	10589	IRR	Reno Sparks Indian Colony	SW	SW	4	22	21	3.50			0.00	0.00	48	
30119	10589	IRR	Lopez-Gonzalez, Max & Gail	SE	SW	4	22	21	1.00			0.00	0.00	55	
30119	10589	IRR							5.50	22.00		0.00	0.00		MCO well #2
32363	12348	IRR	Fischer, George J. & Ethellou	SW	SE	10	22	21	6.00	24.00		6.00	11.89		Model Farm
34670	9862	IRR	Pepple & Stewart	NE	SW	32	23	21	10.00	40.00		10.00	20.93		Grain, pasture & garden
35486	10034	IRR	Claypool, John G. & Susan D.	NW	SE	32	23	21	2.00	8.00		2.00	8.00		Alfalfa

WARM SPRINGS VALLEY CENTRAL: 1996

PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
39166	10496	IRR	Pepple & Stewart	NE	SW	32	23	21	15.70			15.70	32.87		
39166	10496	IRR	Pepple & Stewart	NW	SW	32	23	21	4.30			4.30	9.00		
39166	10496	IRR	Pepple & Stewart						20.00	80.00		20.00	41.87		Grain, pasture & garden
39167	10457	IRR	Douglas, Brent N.	NE	SE	4	22	21	5.60			5.60	22.40		
39167	10457	IRR	Douglas, Brent N.	NW	SE	4	22	21	34.40			34.40	137.60		
39167	10457	IRR							40.00	160.00		40.00	160.00		Alfalfa
40587	11180	IRR	Newell, George W. & Lolita L.	NE	SE	16	22	21	20.00	80.00		0.00	0.00		
42403	11875	Q-M	Truckee Meadows Fire Prot. District	NE	SE	6	22	21	**	0.02		**	0.01		Fire Station
43005	11238	IRR	Wells, Clifford E. & Jacquline C.	SE	NE	31	23	21	17.30			17.30	28.15		
43005	11238	IRR	Wells, Clifford E. & Jacquline C.	SW	NW	32	23	21	7.70			7.70	12.52		
43005	11238	IRR							25.00	100.00		25.00	40.67		Garlic
46199	13137	IRR	Claypool, John G. Susan D.	NE	SE	32	23	21	19.00			19.00	27.68		Same well as 60125-T
46199	13137	IRR	Claypool, John G. Susan D.	NW	SE	32	23	21	24.00			24.00	34.96		
46199	13137	IRR							43.00	172.00		43.00	62.64		Grain
49262	12469	IRR	Hayes, Hayes, Titus & Davis	SE	NW	32	23	21	2.00	8.00		0.00	0.00		Fallow
49530	12470	IRR	Hayes, Edward J. & Constance G.	SE	NW	32	23	21	5.00	20.00		0.00	0.00		Fallow
50021	13542	STK	U.S.D.I. - BLM	NW	NE	7	22	21	1500	29.87		843	14.10		Horses - Same POD as 24099
51169	PER	I&D	Hemenway, Raymond F. & Gerda T.	SW	SE	14	22	21	2.00	8.00		2.00	3.80		Truck garden & orchard: Same POD as 51474
51170	PER	I&D	Hemenway, Raymond F. & Gerda T.	SE	SE	14	22	21	0.50	2.00		0.00	0.88		Domestic only
51474	PER	I&D	Hemenway, Raymond F. & Gerda T.	SW	SE	14	22	21	1.75	7.00		1.75	3.33		Truck garden & orchard: Same POD as 51169
52708	PER	IRR	Palomino Valley G.I.D.	SE	SE	16	22	21	1.00			0.00	0.00		Meter required
53242	PER	I&D	Bonham, Harold F. & Sally M.	NW	NW	13	22	21				0.00	0.00		
53242	PER	I&D	Bonham, Harold F. & Sally M.	SW	NW	13	22	21				0.45	1.53		Pasture grass, alfalfa & orchard
53242	PER	I&D	Bonham, Harold F. & Sally M.	SE	NW	13	22	21				0.30	1.02		Pasture grass, alfalfa & orchard
53242	PER	I&D	Bonham, Harold F. & Sally M.	NE	SW	13	22	21				0.25	0.85		Pasture grass, alfalfa & orchard

WARM SPRINGS VALLEY CENTRAL: 1996

PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
53242	PER	I&D	Bonham, Harold F. & Sally M.	NW	SW	13	22	21				1.00	3.41		Pasture grass, alfalfa & orchard
53242	PER	I&D	Bonham, Harold F. & Sally M.	SW	SW	13	22	21				0.00	0.00		
53242	PER	I&D							5.00	20.00		2.00	6.81		
53303	12897	I&D	Tehama Holdings, Inc.	NW	NW	4	22	21	33.70	134.80		14.70	88.58		Alfalfa; MCO well #2
															Por. ABR by 62389-T, exp. 09-10-97
53304	12898	I&D	Tehama Holdings, Inc.	SW	NE	5	22	21	1.15	5.59		1.15	3.69		Alfalfa; MCO well #3
53305	12899	I&D	Pratt, Tom & Lanette	NW	NW	4	22	21	5.90			5.90	35.57		
53305	12899	I&D	Pratt, Tom & Lanette	SW	NW	4	22	21	10.40			10.40	62.70		
53305	12899	I&D							16.30	65.20		16.30	98.27		Alfalfa; MCO well #2
53306	12900	I&D	Tehama Holdings, Inc.	SW	NE	5	22	21	5.10	20.40		5.10	16.45		Alfalfa; MCO well #3
53307	12901	I&D	Tehama Holdings, Inc.	NW	SE	5	22	21	8.03	32.12		8.03	25.90		Alfalfa; MCO well #3
53308	12902	I&D	Tehama Holdings, Inc.	NW	SE	5	22	21	11.97			11.97	38.57		
53308	12902	I&D	Tehama Holdings, Inc.	SE	SW	5	22	21	0.30			0.30	0.97		
53308	12902	I&D	Tehama Holdings, Inc.	NE	SW	5	22	21	15.70			15.70	50.59		
53308	12902	I&D	Tehama Holdings, Inc.	SE	NW	5	22	21	2.60			2.60	8.38		
53308	12902	I&D	Tehama Holdings, Inc.	SW	NE	5	22	21	1.40			1.40	4.51		
53308	12902	I&D							31.97	127.88		31.97	103.02		Alfalfa; MCO well #3
53345	PER	IRR	Kazmerski, Dora I. Higgins	SW	SE	6	22	21							
53345	PER	IRR	Kazmerski, Dora I. Higgins	SE	SE	6	22	21							
53345	PER	IRR	Kazmerski, Dora I. Higgins	NE	SE	6	22	21							
53345	PER	IRR	Kazmerski, Dora I. Higgins	NW	SE	6	22	21							
53345	PER	IRR							2.50	10.00		0.00	0.00		
53674	PER	IRR	Malo, M. Daniel & Cheryl L.	NW	SE	15	22	21	1.00	4.00		0.00	0.00		
53865	PER	I&D	Meade, Lester E. & Donna M.	SE	NE	31	23	21				0.00	0.00		
53865	PER	I&D	Meade, Lester E. & Donna M.	SW	NW	32	23	21				0.00	0.00		
53865	PER	I&D							5.00	20.00		0.00	0.00		Dry
54168	PER	I&D	Dalton, Leo F. & Janet L.	SW	SW	16	22	21	2.00	8.00		0.00	0.00		Meter required: Well in the wrong place
54169	PER	I&D	Baptiste, Steven L.	NW	NW	14	22	21	5.00	20.00		0.00	0.00		Meter required

WARM SPRINGS VALLEY CENTRAL: 1996

PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
54460	ABR	IRR	Cochrane, Jack	NE	SE	9	22	21							
54460	ABR	IRR	Cochrane, Jack	SE	SE	9	22	21							
54460	ABR	IRR	Cochrane, Jack	NW	NW	10	22	21							
54460	ABR	IRR	Cochrane, Jack	SW	NW	15	22	21							
54460	ABR	IRR	Cochrane, Jack		SW	15	22	21							
54460	ABR	IRR	Cochrane, Jack	E2	NE	16	22	21							ABR by 61923, 09-23-96
54460	ABR	IRR	Cochrane, Jack	E2	SE	16	22	21							ABR by 60498-T, exp. 12-31-95
54460	ABR	IRR							0.00	0.00		0.00	0.00		Meter required
54461	T-ABR	I&D	Cochrane, Jack	NE	SE	9	22	21							
54461	T-ABR	I&D	Cochrane, Jack	SE	SE	9	22	21							
54461	T-ABR	I&D	Cochrane, Jack	NW	NW	10	22	21							
54461	T-ABR	I&D	Cochrane, Jack	SW	NW	15	22	21							
54461	T-ABR	I&D	Cochrane, Jack		SW	15	22	21							
54461	T-ABR	I&D	Cochrane, Jack	E2	NE	16	22	21							ABR by 62158-T, exp. 08-06-97
54461	T-ABR	I&D	Cochrane, Jack	E2	SE	16	22	21							ABR by 60499-T, exp. 12-31-95
54461	T-ABR	I&D							15.00	60.00		0.00	0.00		Meter required
54462	T-ABR	I&D	Cochrane, Jack	NE	SE	9	22	21							
54462	T-ABR	I&D	Cochrane, Jack	SE	SE	9	22	21							
54462	T-ABR	I&D	Cochrane, Jack	NW	NW	10	22	21							
54462	T-ABR	I&D	Cochrane, Jack	SW	NW	15	22	21							
54462	T-ABR	I&D	Cochrane, Jack		SW	15	22	21							
54462	T-ABR	I&D	Cochrane, Jack	E2	NE	16	22	21							ABR by 62159-T, exp. 08-06-97
54462	T-ABR	I&D	Cochrane, Jack	E2	SE	16	22	21							ABR by 60500-T, exp. 12-31-95
54462	T-ABR	I&D							3.29	13.16		0.00	0.00		Meter required
54463	T-ABR	I&D	Cochrane, Jack	NE	SE	9	22	21							
54463	T-ABR	I&D	Cochrane, Jack	SE	SE	9	22	21							
54463	T-ABR	I&D	Cochrane, Jack	NW	NW	10	22	21							
54463	T-ABR	I&D	Cochrane, Jack	SW	NW	15	22	21							
54463	T-ABR	I&D	Cochrane, Jack		SW	15	22	21							
54463	T-ABR	I&D	Cochrane, Jack	E2	NE	16	22	21							ABR by 62160-T, exp. 08-06-97
54463	T-ABR	I&D	Cochrane, Jack	E2	SE	16	22	21							ABR by 60501-T, exp. 12-31-95
54463	T-ABR	I&D							1.71	6.84		0.00	0.00		Meter required
54464	T-ABR	I&D	Cochrane, Jack	NE	SE	9	22	21							
54464	T-ABR	I&D	Cochrane, Jack	SE	SE	9	22	21							
54464	T-ABR	I&D	Cochrane, Jack	NW	NW	10	22	21							

WARM SPRINGS VALLEY CENTRAL: 1996

PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
54464	T-ABR	I&D	Cochrane, Jack	SW	NW	15	22	21							
54464	T-ABR	I&D	Cochrane, Jack		SW	15	22	21							
54464	T-ABR	I&D	Cochrane, Jack	E2	NE	16	22	21							ABR by 62161-T, exp. 08-06-97
54464	T-ABR	I&D	Cochrane, Jack	E2	SE	16	22	21							ABR by 60502-T, exp. 12-31-95
54464	T-ABR	I&D							10.00	40.00		0.00	0.00		Meter required
54465	T-ABR	I&D	Washoe County	NE	SE	9	22	21							
54465	T-ABR	I&D	Washoe County	SE	SE	9	22	21							
54465	T-ABR	I&D	Washoe County	NW	NW	10	22	21							
54465	T-ABR	I&D	Washoe County	SW	NW	15	22	21							
54465	T-ABR	I&D	Washoe County		SW	15	22	21							
54465	T-ABR	I&D	Washoe County	E2	NE	16	22	21							
54465	T-ABR	I&D	Washoe County	E2	SE	16	22	21							ABR by 60503-T, exp. 12-31-95
54465	T-ABR	I&D							4.00	16.00		0.00	0.00		Meter required
54466	T-ABR	I&D	Fralick, Kathleen & Washoe County	NE	SE	9	22	21							
54466	T-ABR	I&D	Fralick, Kathleen & Washoe County	SE	SE	9	22	21							
54466	T-ABR	I&D	Fralick, Kathleen & Washoe County	NW	NW	10	22	21							
54466	T-ABR	I&D	Fralick, Kathleen & Washoe County	SW	NW	15	22	21							
54466	T-ABR	I&D	Fralick, Kathleen & Washoe County		SW	15	22	21							
54466	T-ABR	I&D	Fralick, Kathleen & Washoe County	E2	NE	16	22	21							
54466	T-ABR	I&D	Fralick, Kathleen & Washoe County	E2	SE	16	22	21							ABR by 60504-T, exp. 12-31-95
54466	T-ABR	I&D							3.00	12.00		0.00	0.00		Meter required
54467	PER	IRR	Newell, George W. & Lolita L.	NE	SE	9	22	21							
54467	PER	IRR	Newell, George W. & Lolita L.	SE	SE	9	22	21							
54467	PER	IRR	Newell, George W. & Lolita L.	NW	NW	10	22	21							
54467	PER	IRR	Newell, George W. & Lolita L.	SW	NW	15	22	21							
54467	PER	IRR	Newell, George W. & Lolita L.		SW	15	22	21							
54467	PER	IRR	Newell, George W. & Lolita L.	E2	NE	16	22	21							
54467	PER	IRR	Newell, George W. & Lolita L.	E2	SE	16	22	21							
54467	PER	IRR							1.00	4.00		0.00	0.00		Meter required
54468	PER	IRR	Newell, George & Lolita & Washoe Co.	NE	SE	9	22	21							
54468	PER	IRR	Newell, George & Lolita & Washoe Co.	SE	SE	9	22	21							
54468	PER	IRR	Newell, George & Lolita & Washoe Co.	NW	NW	10	22	21							Washoe County por. is 15.0 Acre-feet
54468	PER	IRR	Newell, George & Lolita & Washoe Co.	SW	NW	15	22	21							
54468	PER	IRR	Newell, George & Lolita & Washoe Co.		SW	15	22	21							
54468	PER	IRR	Newell, George & Lolita & Washoe Co.	E2	NE	16	22	21							

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PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
54468	PER	IRR	Newell, George & Lolita & Washoe Co.	E2	SE	16	22	21							
54468	PER	IRR							4.00	16.00		0.00	0.00		Meter required
54469	T-ABR	I&D	Cochrane, Jack	NE	SE	9	22	21							
54469	T-ABR	I&D	Cochrane, Jack	SE	SE	9	22	21							
54469	T-ABR	I&D	Cochrane, Jack	NW	NW	10	22	21							
54469	T-ABR	I&D	Cochrane, Jack	SW	NW	15	22	21							
54469	T-ABR	I&D	Cochrane, Jack		SW	15	22	21							
54469	T-ABR	I&D	Cochrane, Jack	E2	NE	16	22	21							ABR by 62162-T, exp. 08-06-97
54469	T-ABR	I&D	Cochrane, Jack	E2	SE	16	22	21							ABR by 60505-T, exp. 12-31-95
54469	T-ABR	I&D							5.00	20.00		0.00	0.00		Meter required
54470	T-ABR	I&D	Washoe County	NE	SE	9	22	21							
54470	T-ABR	I&D	Washoe County	SE	SE	9	22	21							
54470	T-ABR	I&D	Washoe County	NW	NW	10	22	21							
54470	T-ABR	I&D	Washoe County	SW	NW	15	22	21							
54470	T-ABR	I&D	Washoe County		SW	15	22	21							
54470	T-ABR	I&D	Washoe County	E2	NE	16	22	21							
54470	T-ABR	I&D	Washoe County	E2	SE	16	22	21							ABR by 60506-T, exp. 12-31-95
54470	T-ABR	I&D							4.00	16.00		0.00	0.00		Meter required
54471	T-ABR	I&D	Cochrane, Jack	NE	SE	9	22	21							
54471	T-ABR	I&D	Cochrane, Jack	SE	SE	9	22	21							
54471	T-ABR	I&D	Cochrane, Jack	NW	NW	10	22	21							
54471	T-ABR	I&D	Cochrane, Jack	SW	NW	15	22	21							
54471	T-ABR	I&D	Cochrane, Jack		SW	15	22	21							
54471	T-ABR	I&D	Cochrane, Jack	E2	NE	16	22	21							ABR by 62163-T, exp. 08-06-97
54471	T-ABR	I&D	Cochrane, Jack	E2	SE	16	22	21							ABR by 60509-T, exp. 12-31-95
54471	T-ABR	I&D							5.00	20.00		0.00	0.00		Meter required
55118	PER	I&D	Hess, James E. & Ann D. & Washoe Co.	S2	NW	3	22	21	4.00	16.00		0.00	0.00		Meter required; Washoe Co. Por. = 7.5 AFA
55119	PER	I&D	Hess, Timothy & Patricia & Washoe Co.	SE	NW	3	22	21	4.00	16.00		0.00	0.00		Meter required; Washoe Co. Por. = 3.5 AFA
55600	14076	I&D	Fahnestock Enterprises, Inc.	S2	NE	8	22	21	62.13			40.00	179.38		
55600	14076	I&D	Fahnestock Enterprises, Inc.	S2	N2	9	22	21	161.81			143.00	641.28		Turf and trees
55600	14076	I&D							135.00	540.00		183.00	820.66		Well WT-1

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PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
55603	14068	IRR	Capurro, Capurro & Oppio	NE	SE	8	22	21	35.42			26.26	14.93		Onion
55603	14068	IRR	Capurro, Capurro & Oppio	NW	SE	8	22	21	1.74			0.00	0.00		Fallow
55603	14068	IRR	Capurro, Capurro & Oppio	SE	SE	8	22	21	12.05			2.00	1.34		Grain
55603	14068	IRR	Capurro, Capurro & Oppio	NE	SW	9	22	21	40.35			40.35	27.05		Onion
55603	14068	IRR	Capurro, Capurro & Oppio	NW	SW	9	22	21	40.39			40.39	27.07		Onion
55603	14068	IRR	Capurro, Capurro & Oppio	SW	SW	9	22	21	40.26			34.00	22.79		Grain
55603	14068	IRR	Capurro, Capurro & Oppio	SE	SW	9	22	21	40.24			34.50	23.13		Garlic
55603	14068	IRR	Capurro, Capurro & Oppio	NW	SE	9	22	21	40.32			37.00	13.41		Grain
55603	14068	IRR	Capurro, Capurro & Oppio	SW	SE	9	22	21	40.20			38.00	13.42		Grain
55603	14068	IRR	Capurro, Capurro & Oppio	NE	NW	16	22	21	40.18			40.00	26.81		Grain
55603	14068	IRR	Capurro, Capurro & Oppio	NW	NW	16	22	21	27.42			15.00	10.05		Grain
55603	14068	IRR							45.00	180.00		307.50	180.00		MCO well #5
55604	14069	IRR	Capurro, Capurro & Oppio	NE	SE	8	22	21	35.42			26.26	4.24		Fallow
55604	14069	IRR	Capurro, Capurro & Oppio	NW	SE	8	22	21	1.74			0.00	0.00		Fallow
55604	14069	IRR	Capurro, Capurro & Oppio	SE	SE	8	22	21	12.05			2.00	0.32		Fallow
55604	14069	IRR	Capurro, Capurro & Oppio	NE	SW	9	22	21	40.35			40.35	6.52		Fallow
55604	14069	IRR	Capurro, Capurro & Oppio	NW	SW	9	22	21	40.39			40.39	6.52		Fallow
55604	14069	IRR	Capurro, Capurro & Oppio	SW	SW	9	22	21	40.26			34.00	5.49		Onion
55604	14069	IRR	Capurro, Capurro & Oppio	SE	SW	9	22	21	40.24			34.50	5.57		Onion
55604	14069	IRR	Capurro, Capurro & Oppio	NW	SE	9	22	21	40.32			37.00	3.23		Onion
55604	14069	IRR	Capurro, Capurro & Oppio	SW	SE	9	22	21	40.20			38.00	3.23		Onion
55604	14069	IRR	Capurro, Capurro & Oppio	NE	NW	16	22	21	40.18			40.00	5.82		Garlic
55604	14069	IRR	Capurro, Capurro & Oppio	NW	NW	16	22	21	27.42			15.00	2.42		Garlic: Supplemental to 55607
55604	14069	IRR							11.90	47.60		307.50	43.36		MCO well #5
55605	14070	IRR	Capurro, Capurro & Oppio	NE	SE	8	22	21	35.42			26.26	1.15		Fallow
55605	14070	IRR	Capurro, Capurro & Oppio	NW	SE	8	22	21	1.74			0.00	0.00		Fallow
55605	14070	IRR	Capurro, Capurro & Oppio	SE	SE	8	22	21	12.05			2.00	0.09		Fallow
55605	14070	IRR	Capurro, Capurro & Oppio	NE	SW	9	22	21	40.35			40.35	1.76		Fallow
55605	14070	IRR	Capurro, Capurro & Oppio	NW	SW	9	22	21	40.39			40.39	1.76		Fallow
55605	14070	IRR	Capurro, Capurro & Oppio	SW	SW	9	22	21	40.26			34.00	1.48		Onion
55605	14070	IRR	Capurro, Capurro & Oppio	SE	SW	9	22	21	40.24			34.50	1.51		Onion
55605	14070	IRR	Capurro, Capurro & Oppio	NW	SE	9	22	21	40.32			37.00	0.87		Onion
55605	14070	IRR	Capurro, Capurro & Oppio	SW	SE	9	22	21	40.20			38.00	0.87		Onion
55605	14070	IRR	Capurro, Capurro & Oppio	NE	NW	16	22	21	40.18			40.00	1.58		Garlic
55605	14070	IRR	Capurro, Capurro & Oppio	NW	NW	16	22	21	27.42			15.00	0.65		Garlic
55605	14070	IRR							2.93	11.72		307.50	11.72		MCO well #5

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PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
55606	14071	IRR	Capurro, Capurro & Oppio	NE	SE	8	22	21	35.42			26.26	29.79		Fallow
55606	14071	IRR	Capurro, Capurro & Oppio	NW	SE	8	22	21	1.74			0.00	0.00		Fallow
55606	14071	IRR	Capurro, Capurro & Oppio	SE	SE	8	22	21	12.05			2.00	2.27		Fallow
55606	14071	IRR	Capurro, Capurro & Oppio	NE	SW	9	22	21	40.35			40.35	45.78		Fallow
55606	14071	IRR	Capurro, Capurro & Oppio	NW	SW	9	22	21	40.39			40.39	45.83		Fallow
55606	14071	IRR	Capurro, Capurro & Oppio	SW	SW	9	22	21	40.26			34.00	38.58		Onion
55606	14071	IRR	Capurro, Capurro & Oppio	SE	SW	9	22	21	40.24			34.50	39.15		Onion
55606	14071	IRR	Capurro, Capurro & Oppio	NW	SE	9	22	21	40.32			37.00	22.69		Onion
55606	14071	IRR	Capurro, Capurro & Oppio	SW	SE	9	22	21	40.20			38.00	22.72		Onion
55606	14071	IRR	Capurro, Capurro & Oppio	NE	NW	16	22	21	40.18			40.00	40.85		Garlic
55606	14071	IRR	Capurro, Capurro & Oppio	NW	NW	16	22	21	27.42			15.00	17.02		Garlic
55606	14071	IRR							76.17	304.68		307.50	304.68		MCO well #5
55607	14072	IRR	Capurro, Capurro & Oppio	NE	SE	8	22	21	35.42			26.26	0.41		Fallow
55607	14072	IRR	Capurro, Capurro & Oppio	NW	SE	8	22	21	1.74			0.00	0.00		Fallow
55607	14072	IRR	Capurro, Capurro & Oppio	SE	SE	8	22	21	12.05			2.00	0.03		Fallow
55607	14072	IRR	Capurro, Capurro & Oppio	NE	SW	9	22	21	40.35			40.35	0.64		Fallow
55607	14072	IRR	Capurro, Capurro & Oppio	NW	SW	9	22	21	40.39			40.39	0.64		Fallow
55607	14072	IRR	Capurro, Capurro & Oppio	SW	SW	9	22	21	40.26			34.00	0.54		Onion
55607	14072	IRR	Capurro, Capurro & Oppio	SE	SW	9	22	21	40.24			34.50	0.54		Onion
55607	14072	IRR	Capurro, Capurro & Oppio	NW	SE	9	22	21	40.32			37.00	0.32		Onion
55607	14072	IRR	Capurro, Capurro & Oppio	SW	SE	9	22	21	40.20			38.00	0.32		Onion
55607	14072	IRR	Capurro, Capurro & Oppio	NE	NW	16	22	21	40.18			40.00	0.56		Garlic
55607	14072	IRR	Capurro, Capurro & Oppio	NW	NW	16	22	21	27.42			15.00	0.24		Garlic: Supplemental to 55604
55607	14072	IRR							11.90	47.60	43.36	307.50	4.24		MCO well #5
55608	14077	I&D	Fahnestock Enterprises, Inc.	S2	NE	8	22	21	62.13			40.00	27.85		
55608	14077	I&D	Fahnestock Enterprises, Inc.	S2	N2	9	22	21	161.81			143.00	99.55		Turf and trees
55608	14077	I&D							48.00	192.00		183.00	127.40		MCO well #6
55653	PER	Q-M	Palomino Valley G.I.D.	EXTENSIVE					**	8.00		**	7.60		Meter req; Road maint. E of Pyramid Lake Hwy
55653	PER	Q-M	Palomino Valley G.I.D.	EXTENSIVE											Actual diversion from well under P-46199
55657	PER	I&D	Malo, M. Daniel & Cheryl L.	NW	SE	15	22	21	1.00	4.00		0.00	0.00		Same well as 55658 & 55659
55658	PER	IRR	Malo, M. Daniel & Cheryl L.	NW	SE	15	22	21	7.00	28.00		0.00	0.00		Same well as 55657 & 55659
55659	PER	IRR	Malo, M. Daniel & Cheryl L.	NW	SE	15	22	21	1.00	4.00		0.00	0.00		Same well as 55657 & 55658

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PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
55973	PER	IRR	Palomino Valley Estates, Inc.	SW	NE	29	23	21							
55973	PER	IRR	Palomino Valley Estates, Inc.	S2	NW	29	23	21							
55973	PER	IRR	Palomino Valley Estates, Inc.	NE	SW	29	23	21							
55973	PER	IRR	Palomino Valley Estates, Inc.	NW	SE	29	23	21							
55973	PER	IRR							5.99	1.12		0.00	0.00		Meter required
55974	PER	IRR	Hayes, Edward J. & Constance G.	SW	NE	29	23	21							
55974	PER	IRR	Hayes, Edward J. & Constance G.	S2	NW	29	23	21							
55974	PER	IRR	Hayes, Edward J. & Constance G.	NE	SW	29	23	21							
55974	PER	IRR	Hayes, Edward J. & Constance G.	NW	SE	29	23	21							
55974	PER	IRR							5.99	8.00		0.00	0.00		Meter required
55975	PER	IRR	Palomino Valley Estates & Hayes, et al	SW	NE	29	23	21							
55975	PER	IRR	Palomino Valley Estates & Hayes, et al	S2	NW	29	23	21							
55975	PER	IRR	Palomino Valley Estates & Hayes, et al	NE	SW	29	23	21							
55975	PER	IRR	Palomino Valley Estates & Hayes, et al	NW	SE	29	23	21							
55975	PER	IRR							5.99	14.84		0.00	0.00		Meter required
56929	PER	I&D	Pruitt, James A. & Darlene D.	SW	SW	33	23	21	5.00	20.00		2.00	0.92		Domestic and garden
56932	PER	IRR	Stinson, George W. & Washoe County		NE	3	22	21							Washoe County Por. = 10.0 AFA
56932	PER	IRR	Stinson, George W. & Washoe County	N2	SE	3	22	21							
56932	PER	IRR							3.13	12.50		0.00	0.00		Meter required; Actually 3.125 Ac.
56933	PER	IRR	Stinson, George W.	NW	NW	15	22	21	4.38	17.50		0.00	0.00		Meter required; Actually 4.375 Ac.
57084	14031	IRR	Tehama Holdings, Inc.	NE	NW	5	22	21	10.23			10.23	37.94		
57084	14031	IRR	Tehama Holdings, Inc.	NW	NW	5	22	21	37.13			37.13	137.72		
57084	14031	IRR	Tehama Holdings, Inc.	SW	NW	5	22	21	12.61			12.61	46.77		
57084	14031	IRR	Tehama Holdings, Inc.	SW	NW	5	22	21	0.04			0.04	0.15		
57084	14031	IRR	Tehama Holdings, Inc.	NE	SE	31	23	21	0.10			0.10	0.37		
57084	14031	IRR	Tehama Holdings, Inc.	SE	SE	31	23	21	0.86			0.86	3.19		
57084	14031	IRR	Tehama Holdings, Inc.	NW	SW	32	23	21	0.46			0.46	1.71		
57084	14031	IRR	Tehama Holdings, Inc.	SW	SW	32	23	21	36.00			36.00	133.52		
57084	14031	IRR	Tehama Holdings, Inc.	SE	SW	32	23	21	4.94			4.94	18.32		
57084	14031	IRR							102.37	409.48		102.37	379.69		MCO well #1; Onion & Garlic
57085	14078	IRR	Tehama Holdings, Inc.	NW	NE	5	22	21	5.38			0.66	3.98		
57085	14078	IRR	Tehama Holdings, Inc.	NE	NW	5	22	21	4.08			2.52	15.20		

WARM SPRINGS VALLEY CENTRAL: 1996

PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
57085	14078	IRR	Tehama Holdings, Inc.	SE	SW	32	23	21	6.33			0.10	0.61		
57085	14078	IRR	Tehama Holdings, Inc.	SW	SE	32	23	21	7.34			0.00	0.00		Por. ABR by 60626, exp. 12-31-95
57085	14078	IRR							23.13	92.52		3.28	19.79		MCO well #2; Alfalfa
57086	14032	IRR	Tehama Holdings, Inc.	NW	NE	5	22	21	7.20			7.20	43.39		
57086	14032	IRR	Tehama Holdings, Inc.	SW	NE	5	22	21	0.36			0.36	2.17		
57086	14032	IRR	Tehama Holdings, Inc.	NE	NW	5	22	21	17.60			17.60	106.09		
57086	14032	IRR	Tehama Holdings, Inc.	SE	NW	5	22	21	2.94			2.94	17.71		MCO well #2; Alfalfa
57086	14032	IRR							28.10	112.40		28.10	169.36		Supplemental to P-57087
57087	14033	IRR	Tehama Holdings, Inc.	NW	NE	5	22	21	7.20			7.20	0.00		
57087	14033	IRR	Tehama Holdings, Inc.	SW	NE	5	22	21	0.36			0.36	0.00		
57087	14033	IRR	Tehama Holdings, Inc.	NE	NW	5	22	21	17.60			17.60	0.00		Duty = 3.64733 AF/ac.
57087	14033	IRR	Tehama Holdings, Inc.	SE	NW	5	22	21	2.94			2.94	0.00		MCO well #2; Alfalfa
57087	14033	IRR							28.10	102.49	102.49	28.10	0.00		Supplemental to P-57086
57088	14034	IRR	Tehama Holdings, Inc.	NW	NE	5	22	21	0.39			0.39	2.35		
57088	14034	IRR	Tehama Holdings, Inc.	SW	SE	32	23	21	1.88			1.88	11.34		MCO well #2; Alfalfa
57088	14034	IRR							2.27	9.08		2.27	13.69		Supplemental to 57089
57089	14035	IRR	Tehama Holdings, Inc.	NW	NE	5	22	21	0.39			0.39	0.00		
57089	14035	IRR	Tehama Holdings, Inc.	SW	SE	32	23	21	1.88			1.88	0.00		MCO well #2; Alfalfa
57089	14035	IRR							2.27	9.08	9.08	2.27	0.00		Supplemental to 57088
57090	14036	IRR	Tehama Holdings, Inc.	NW	NW	5	22	21	1.94			1.94	7.19		
57090	14036	IRR	Tehama Holdings, Inc.	SW	NW	5	22	21	0.66			0.66	2.45		
57090	14036	IRR	Tehama Holdings, Inc.	NE	NE	6	22	21	4.62			4.62	17.13		
57090	14036	IRR	Tehama Holdings, Inc.	SE	NE	6	22	21	7.11			7.11	26.36		MCO well #1; Onion & Garlic
57090	14036	IRR							14.33	57.32		14.33	53.13		Supplemental to 57091
57091	14037	IRR	Tehama Holdings, Inc.	NW	NW	5	22	21	1.94			1.94	0.00		
57091	14037	IRR	Tehama Holdings, Inc.	SW	NW	5	22	21	0.66			0.66	0.00		
57091	14037	IRR	Tehama Holdings, Inc.	NE	NE	6	22	21	4.62			4.62	0.00		
57091	14037	IRR	Tehama Holdings, Inc.	SE	NE	6	22	21	7.11			7.11	0.00		MCO well #1; Onion & Garlic
57091	14037	IRR							14.33	57.32	57.32	14.33	0.00		Supplemental to & duty under 57090
57092	14038	IRR	Tehama Holdings, Inc.	NW	NW	5	22	21	0.19			0.19	0.71		
57092	14038	IRR	Tehama Holdings, Inc.	NE	NE	6	22	21	13.89			13.89	51.51		
57092	14038	IRR	Tehama Holdings, Inc.	SE	NE	6	22	21	3.12			3.12	11.57		

WARM SPRINGS VALLEY CENTRAL: 1996

PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
57092	14038	IRR							17.20	68.80		17.20	63.79		MCO well #1; Onion & Garlic
57093	14039	IRR	Tehama Holdings, Inc.	NW	NW	5	22	21	0.12			0.12	0.44		
57093	14039	IRR	Tehama Holdings, Inc.	NE	NE	6	22	21	17.51			17.51	64.96		
57093	14039	IRR	Tehama Holdings, Inc.	NW	NE	6	22	21	3.58			3.58	13.28		
57093	14039	IRR	Tehama Holdings, Inc.	SW	SE	31	23	21	0.22			0.22	0.82		
57093	14039	IRR	Tehama Holdings, Inc.	SE	SE	31	23	21	0.07			0.07	0.26		
57093	14039	IRR							21.50	86.00		21.50	79.76		MCO well #1; Onion & Garlic
57094	14040	IRR	Tehama Holdings, Inc.	NW	NW	5	22	21	0.57			0.57	2.11		
57094	14040	IRR	Tehama Holdings, Inc.	NE	NE	6	22	21	3.17			3.17	11.76		
57094	14040	IRR	Tehama Holdings, Inc.	SW	SE	31	23	21	1.06			1.06	3.93		
57094	14040	IRR	Tehama Holdings, Inc.	SE	SE	31	23	21	32.22			32.22	119.49		
57094	14040	IRR	Tehama Holdings, Inc.	NE	SE	31	23	21	0.09			0.09	0.33		
57094	14040	IRR	Tehama Holdings, Inc.	SW	SW	32	23	21	0.54			0.54	2.00		
57094	14040	IRR							37.65	150.60		37.65	139.62		MCO well #1; Onion & Garlic
57095	14041	IRR	Tehama Holdings, Inc.	NE	NE	5	22	21	2.07			2.07	12.48		
57095	14041	IRR	Tehama Holdings, Inc.	NW	NE	5	22	21	13.61			13.61	82.02		
57095	14041	IRR	Tehama Holdings, Inc.	SW	NE	5	22	21	14.72			14.72	88.71		
57095	14041	IRR	Tehama Holdings, Inc.	SE	NE	5	22	21	1.30			1.30	7.83		
57095	14041	IRR	Tehama Holdings, Inc.	SE	NW	5	22	21	0.20			0.20	1.21		
57095	14041	IRR							31.90	127.60		31.90	192.25		MCO well #2; Alfalfa
57175	PER	I&D	Washoe County	SE	NW	3	22	21	1.00	4.00		0.00	0.00		Meter required
57202	PER	I&D	Cobb, John & Susan		SW	34	23	21							
57202	PER	I&D	Cobb, John & Susan	N2	SE	33	23	21							
57202	PER	I&D							2.00	8.00		0.00	0.00		Meter required
57444	PER	IRR	Carr, Fred M.	NW	SE	8	22	21				0.00	0.00		
57444	PER	IRR	Carr, Fred M.	NE	SE	8	22	21				26.26	1.10		Onion
57444	PER	IRR	Carr, Fred M.	SE	SE	8	22	21				2.00	0.08		Grain
57444	PER	IRR	Carr, Fred M.	NW	SW	9	22	21				40.39	1.68		Onion
57444	PER	IRR	Carr, Fred M.	NE	SW	9	22	21				40.35	1.68		Onion
57444	PER	IRR	Carr, Fred M.	SW	SW	9	22	21				34.00	1.42		Grain
57444	PER	IRR	Carr, Fred M.	SE	SW	9	22	21				34.50	1.44		Garlic
57444	PER	IRR	Carr, Fred M.	NW	SE	9	22	21				37.00	0.83		Grain
57444	PER	IRR	Carr, Fred M.	SW	SE	9	22	21				38.00	0.84		Grain

WARM SPRINGS VALLEY CENTRAL: 1996

PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
57444	PER	IRR	Carr, Fred M.	NW	NW	16	22	21				15.00	0.63		Grain
57444	PER	IRR	Carr, Fred M.	NE	NW	16	22	21				40.00	1.50		Grain
57444	PER	IRR							2.80	11.20		307.50	11.20		MCO well #5
57445	PER	I&D	Carr, Mark C. & Wilma F.	NW	SE	8	22	21				0.00	0.00		
57445	PER	I&D	Carr, Mark C. & Wilma F.	NE	SE	8	22	21				26.26	2.35		Onion
57445	PER	I&D	Carr, Mark C. & Wilma F.	SE	SE	8	22	21				2.00	0.18		Grain
57445	PER	I&D	Carr, Mark C. & Wilma F.	NW	SW	9	22	21				40.39	3.61		Onion
57445	PER	I&D	Carr, Mark C. & Wilma F.	NE	SW	9	22	21				40.35	3.61		Onion
57445	PER	I&D	Carr, Mark C. & Wilma F.	SW	SW	9	22	21				34.00	3.04		Grain
57445	PER	I&D	Carr, Mark C. & Wilma F.	SE	SW	9	22	21				34.50	3.08		Garlic
57445	PER	I&D	Carr, Mark C. & Wilma F.	NW	SE	9	22	21				37.00	1.79		Grain
57445	PER	I&D	Carr, Mark C. & Wilma F.	SW	SE	9	22	21				38.00	1.79		Grain
57445	PER	I&D	Carr, Mark C. & Wilma F.	NW	NW	16	22	21				15.00	1.34		Grain
57445	PER	I&D	Carr, Mark C. & Wilma F.	NE	NW	16	22	21				40.00	3.21		Grain
57445	PER	I&D							6.00	24.00		307.50	24.00		MCO well #5
57446	PER	I&D	Carr, Fred & Carr, Mark & Wilma	NW	SE	8	22	21				0.00	0.00		
57446	PER	I&D	Carr, Fred & Carr, Mark & Wilma	NE	SE	8	22	21				26.26	2.03		Onion
57446	PER	I&D	Carr, Fred & Carr, Mark & Wilma	SE	SE	8	22	21				2.00	0.15		Grain
57446	PER	I&D	Carr, Fred & Carr, Mark & Wilma	NW	SW	9	22	21				40.39	3.13		Onion
57446	PER	I&D	Carr, Fred & Carr, Mark & Wilma	NE	SW	9	22	21				40.35	3.13		Onion
57446	PER	I&D	Carr, Fred & Carr, Mark & Wilma	SW	SW	9	22	21				34.00	2.63		Grain
57446	PER	I&D	Carr, Fred & Carr, Mark & Wilma	SE	SW	9	22	21				34.50	2.67		Garlic
57446	PER	I&D	Carr, Fred & Carr, Mark & Wilma	NW	SE	9	22	21				37.00	1.55		Grain
57446	PER	I&D	Carr, Fred & Carr, Mark & Wilma	SW	SE	9	22	21				38.00	1.55		Grain
57446	PER	I&D	Carr, Fred & Carr, Mark & Wilma	NW	NW	16	22	21				15.00	1.16		Grain
57446	PER	I&D	Carr, Fred & Carr, Mark & Wilma	NE	NW	16	22	21				40.00	2.80		Grain
57446	PER	I&D							5.20	20.80		307.50	20.80		MCO well #5
57447	PER	IRR	Carr, Mark C. & Wilma F.	NW	SE	8	22	21				0.00	0.00		
57447	PER	IRR	Carr, Mark C. & Wilma F.	NE	SE	8	22	21				26.26	1.37		Onion
57447	PER	IRR	Carr, Mark C. & Wilma F.	SE	SE	8	22	21				2.00	0.10		Grain
57447	PER	IRR	Carr, Mark C. & Wilma F.	NW	SW	9	22	21				40.39	2.10		Onion
57447	PER	IRR	Carr, Mark C. & Wilma F.	NE	SW	9	22	21				40.35	2.10		Onion
57447	PER	IRR	Carr, Mark C. & Wilma F.	SW	SW	9	22	21				34.00	1.77		Grain
57447	PER	IRR	Carr, Mark C. & Wilma F.	SE	SW	9	22	21				34.50	1.79		Garlic
57447	PER	IRR	Carr, Mark C. & Wilma F.	NW	SE	9	22	21				37.00	1.04		Grain
57447	PER	IRR	Carr, Mark C. & Wilma F.	SW	SE	9	22	21				38.00	1.04		Grain

WARM SPRINGS VALLEY CENTRAL: 1996

PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
57447	PER	IRR	Carr, Mark C. & Wilma F.	NW	NW	16	22	21				15.00	0.78		Grain
57447	PER	IRR	Carr, Mark C. & Wilma F.	NE	NW	16	22	21				40.00	1.88		Grain
57447	PER	IRR							3.50	13.97		307.50	13.97		MCO well #5; Duty of base rt. = 3.99114 AF/ac
57448	PER	I&D	Carr, Mark C. & Wilma F.	NW	SE	8	22	21				0.00	0.00		
57448	PER	I&D	Carr, Mark C. & Wilma F.	NE	SE	8	22	21				26.26	0.54		Onion
57448	PER	I&D	Carr, Mark C. & Wilma F.	SE	SE	8	22	21				2.00	0.04		Grain
57448	PER	I&D	Carr, Mark C. & Wilma F.	NW	SW	9	22	21				40.39	0.83		Onion
57448	PER	I&D	Carr, Mark C. & Wilma F.	NE	SW	9	22	21				40.35	0.83		Onion
57448	PER	I&D	Carr, Mark C. & Wilma F.	SW	SW	9	22	21				34.00	0.70		Grain
57448	PER	I&D	Carr, Mark C. & Wilma F.	SE	SW	9	22	21				34.50	0.71		Garlic
57448	PER	I&D	Carr, Mark C. & Wilma F.	NW	SE	9	22	21				37.00	0.41		Grain
57448	PER	I&D	Carr, Mark C. & Wilma F.	SW	SE	9	22	21				38.00	0.41		Grain
57448	PER	I&D	Carr, Mark C. & Wilma F.	NW	NW	16	22	21				15.00	0.31		Grain
57448	PER	I&D	Carr, Mark C. & Wilma F.	NE	NW	16	22	21				40.00	0.72		Grain
57448	PER	I&D							1.38	5.50		307.50	5.50		MCO well #5; Actually 1.375 ac.
57664	PER	I&D	Cierl, Diane & Richard J.	NW	SE	16	22	21	2.00	8.00		1.00	3.00		House, garden and landscaping
57899	E-PER	ENV	Rockwell International Corporation		E2	12	22	21	**	80.65		**	5.52		Meter and monthly reporting required
58507	14042	IRR	Tehama Holdings, Inc.	NE	NE	5	22	21	1.46			1.46	8.79		
58507	14042	IRR	Tehama Holdings, Inc.	NW	NE	5	22	21	0.78			0.78	4.70		
58507	14042	IRR							2.24	8.96		2.24	13.49		MCO well #2; Alfalfa
58508	14043	IRR	Tehama Holdings, Inc.	NE	NE	5	22	21	8.43			8.43	50.80		
58508	14043	IRR	Tehama Holdings, Inc.	NW	NE	5	22	21	4.57			4.57	27.54		
58508	14043	IRR							13.00	52.00		13.00	78.34		MCO well #2; Alfalfa
58509	14044	IRR	Tehama Holdings, Inc.	NE	NE	5	22	21	0.37			0.37	2.24		
58509	14044	IRR	Tehama Holdings, Inc.	NW	NE	5	22	21	0.28			0.28	1.69		
58509	14044	IRR							0.65	2.60		0.65	3.93		MCO well #2; Alfalfa
58566	PER	IRR	Dodge, Richard P.	N2	NW	3	22	21	2.00	8.00		0.00	0.00		Meter required
60448	T-PER	IRR	Tehama Holdings, Inc.	Oppio, et al, property					25.00	100.00	100.00	0.00	0.00		MCO well #5; EXP 12-31-95; Pumped in '95
60498	T-PER	IRR	Cochrane, Jack	NE	SE	9	22	21				10.00	12.81		Grain
60498	T-PER	IRR	Cochrane, Jack	E2	NE	16	22	21				0.00	0.00		

WARM SPRINGS VALLEY CENTRAL: 1996

PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
60498	T-PER	IRR							10.00	40.00	40.00	10.00	12.81		MCO well #5; EXPIRES 12-31-95
60499	T-PER	I&D	Cochrane, Jack	NE	SE	9	22	21				15.00	19.22		Grain
60499	T-PER	I&D	Cochrane, Jack	E2	NE	16	22	21				0.00	0.00		
60499	T-PER	I&D							15.00	60.00	60.00	15.00	19.22		MCO well #5; EXPIRES 12-31-95
60500	T-PER	I&D	Cochrane, Jack	NE	SE	9	22	21				3.29	4.22		Grain
60500	T-PER	I&D	Cochrane, Jack	E2	NE	16	22	21				0.00	0.00		
60500	T-PER	I&D							3.29	13.16	13.16	3.29	4.22		MCO well #5; EXPIRES 12-31-95
60501	T-PER	I&D	Cochrane, Jack	NE	SE	9	22	21				1.71	2.19		Grain
60501	T-PER	I&D	Cochrane, Jack	E2	NE	16	22	21				0.00	0.00		
60501	T-PER	I&D							1.71	6.84	6.84	1.71	2.19		MCO well #5; EXPIRES 12-31-95
60502	T-PER	I&D	Cochrane, Jack	NE	SE	9	22	21				10.00	12.81		Grain
60502	T-PER	I&D	Cochrane, Jack	E2	NE	16	22	21				0.00	0.00		
60502	T-PER	I&D							10.00	40.00	40.00	10.00	12.81		MCO well #5; EXPIRES 12-31-95
60503	T-PER	I&D	Cochrane, Jack	NE	SE	9	22	21				0.00	0.00		
60503	T-PER	I&D	Cochrane, Jack	E2	NE	16	22	21				0.00	0.00		Actually used in W2 SE 9; Grain
60503	T-PER	I&D							4.00	16.00	16.00	4.00	16.00		MCO well #5; EXPIRES 12-31-95
60504	T-PER	I&D	Cochrane, Jack	NE	SE	9	22	21				0.00	0.00		
60504	T-PER	I&D	Cochrane, Jack	E2	NE	16	22	21				0.00	0.00		Actually used in W2 SE 9; Grain
60504	T-PER	I&D							3.00	12.00	12.00	3.00	12.00		MCO well #5; EXPIRES 12-31-95
60505	T-PER	I&D	Cochrane, Jack	NE	SE	9	22	21				0.00	0.00		
60505	T-PER	I&D	Cochrane, Jack	E2	NE	16	22	21				0.00	0.00		Actually used in W2 SE 9; Grain
60505	T-PER	I&D							5.00	20.00	20.00	5.00	20.00		MCO well #5; EXPIRES 12-31-95
60506	T-PER	I&D	Cochrane, Jack	NE	SE	9	22	21				0.00	0.00		
60506	T-PER	I&D	Cochrane, Jack	E2	NE	16	22	21				0.00	0.00		Actually used in W2 SE 9; Grain
60506	T-PER	I&D							4.00	16.00	16.00	4.00	16.00		MCO well #5; EXPIRES 12-31-95
60507	T-PER	IRR	Cochrane, Jack	NE	SE	9	22	21				0.00	0.00		Actually 11.955 acres
60507	T-PER	IRR	Cochrane, Jack	E2	NE	16	22	21				0.00	0.00		Actually used in W2 SE 9; Grain
60507	T-PER	IRR							11.96	47.82	47.82	11.96	47.82		MCO well #5; EXPIRES 12-31-95
60508	T-PER	IRR	Cochrane, Jack	NE	SE	9	22	21				0.00	0.00		

WARM SPRINGS VALLEY CENTRAL: 1996

PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
60508	T-PER	IRR	Cochrane, Jack	E2	NE	16	22	21				0.00	0.00		Actually used in W2 SE 9; Grain
60508	T-PER	IRR							2.02	8.08	8.08	2.02	8.08		MCO well #5; EXPIRES 12-31-95
60509	T-PER	I&D	Cochrane, Jack	NE	SE	9	22	21				0.00	0.00		
60509	T-PER	I&D	Cochrane, Jack	E2	NE	16	22	21				0.00	0.00		Actually used in W2 SE 9; Grain
60509	T-PER	I&D							5.00	20.00	20.00	5.00	20.00		MCO well #5; EXPIRES 12-31-95
60510	T-PER	IRR	Tehama Holdings, Inc.	SE	NW	4	22	21				10.00	6.67		
60510	T-PER	IRR	Tehama Holdings, Inc.	NE	SW	4	22	21				20.00	13.33		
60510	T-PER	IRR							30.00	120.00	120.00	30.00	20.00		MCO well #3; EXPIRES 12-31-95; Onion
60626	T-PER	IRR	Tehama Holdings, Inc.	NE	NW	9	22	21	19.85	79.40	79.40	30.00	40.69		Well WT-1; Turf; EXPIRES 12-31-95
60627	T-PER	IRR	Tehama Holdings, Inc.	NE	NW	9	22	21	10.15	40.60	40.60	30.00	20.80		Well WT-1; Turf; EXPIRES 12-31-95
60916	E-PER	ENV	Rockwell International Corporation			7	22	22							
60916	E-PER	ENV	Rockwell International Corporation		E2	12	22	21							
60916	E-PER	ENV	Rockwell International Corporation		SW	12	22	21							
60916	E-PER	ENV	Rockwell International Corporation		SE	11	22	21							
60916	E-PER	ENV	Rockwell International Corporation		N2	13	22	21							
60916	E-PER	ENV	Rockwell International Corporation		NE	14	22	21							
60916	E-PER	ENV							**	322.87		**	2.55		Meter and monthly reporting required
61162	E-PER	ENV	Rockwell International Corporation		SE	18	22	22	**	16.13		**	5.80		Meter and monthly reporting required
61923	PER	I&D	Cochrane, Jack	NE	SE	9	22	21							
61923	PER	I&D	Cochrane, Jack	NW	NW	10	22	21							
61923	PER	I&D	Cochrane, Jack	NE	NE	16	22	21							
61923	PER	I&D	Cochrane, Jack	SE	NE	16	22	21							
61923	PER	I&D	Cochrane, Jack	SW	NW	15	22	21							
61923	PER	I&D	Cochrane, Jack	NE	SW	15	22	21							
61923	PER	I&D	Cochrane, Jack	NW	SW	15	22	21							
61923	PER	I&D	Cochrane, Jack	SW	SW	15	22	21							
61923	PER	I&D	Cochrane, Jack	SE	SW	15	22	21							
61923	PER	I&D							10.00	40.00		0.00	1.00		Meter required; Pump test performed
62158	T-PER	I&D	Cochrane, Jack	NE	SE	9	22	21	40.00			15.00	27.28		Onion
62158	T-PER	I&D	Cochrane, Jack	E2	NE	16	22	21	80.00			0.00	0.00		
62158	T-PER	I&D	Cochrane, Jack	NE	SE	8	22	21	35.42			0.00	0.00		

WARM SPRINGS VALLEY CENTRAL: 1996

PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
62158	T-PER	I&D	Cochrane, Jack	NW	SE	8	22	21	1.74			0.00	0.00		
62158	T-PER	I&D	Cochrane, Jack	SE	SE	8	22	21	12.05			0.00	0.00		
62158	T-PER	I&D	Cochrane, Jack	NE	SW	9	22	21	40.35			0.00	0.00		
62158	T-PER	I&D	Cochrane, Jack	NW	SW	9	22	21	40.39			0.00	0.00		
62158	T-PER	I&D	Cochrane, Jack	SW	SW	9	22	21	40.26			0.00	0.00		
62158	T-PER	I&D	Cochrane, Jack	SE	SW	9	22	21	40.24			0.00	0.00		
62158	T-PER	I&D	Cochrane, Jack	NW	SE	9	22	21	40.32			0.00	0.00		
62158	T-PER	I&D	Cochrane, Jack	SW	SE	9	22	21	40.20			0.00	0.00		
62158	T-PER	I&D	Cochrane, Jack	NE	NW	16	22	21	40.18			0.00	0.00		
62158	T-PER	I&D	Cochrane, Jack	NW	NW	16	22	21	27.42			0.00	0.00		
62158	T-PER	I&D							15.00	60.00	60.00	15.00	27.28		MCO well #5; EXPIRES 08-06-97
62159	T-PER	I&D	Cochrane, Jack	NE	SE	9	22	21	40.00			3.29	5.99		Onion
62159	T-PER	I&D	Cochrane, Jack	E2	NE	16	22	21	80.00			0.00	0.00		
62159	T-PER	I&D	Cochrane, Jack	NE	SE	8	22	21	35.42			0.00	0.00		
62159	T-PER	I&D	Cochrane, Jack	NW	SE	8	22	21	1.74			0.00	0.00		
62159	T-PER	I&D	Cochrane, Jack	SE	SE	8	22	21	12.05			0.00	0.00		
62159	T-PER	I&D	Cochrane, Jack	NE	SW	9	22	21	40.35			0.00	0.00		
62159	T-PER	I&D	Cochrane, Jack	NW	SW	9	22	21	40.39			0.00	0.00		
62159	T-PER	I&D	Cochrane, Jack	SW	SW	9	22	21	40.26			0.00	0.00		
62159	T-PER	I&D	Cochrane, Jack	SE	SW	9	22	21	40.24			0.00	0.00		
62159	T-PER	I&D	Cochrane, Jack	NW	SE	9	22	21	40.32			0.00	0.00		
62159	T-PER	I&D	Cochrane, Jack	SW	SE	9	22	21	40.20			0.00	0.00		
62159	T-PER	I&D	Cochrane, Jack	NE	NW	16	22	21	40.18			0.00	0.00		
62159	T-PER	I&D	Cochrane, Jack	NW	NW	16	22	21	27.42			0.00	0.00		
62159	T-PER	I&D							3.29	13.16	13.16	3.29	5.99		MCO well #5; EXPIRES 08-06-97
62160	T-PER	I&D	Cochrane, Jack	NE	SE	9	22	21	40.00			1.71	3.11		Onion
62160	T-PER	I&D	Cochrane, Jack	E2	NE	16	22	21	80.00			0.00	0.00		
62160	T-PER	I&D	Cochrane, Jack	NE	SE	8	22	21	35.42			0.00	0.00		
62160	T-PER	I&D	Cochrane, Jack	NW	SE	8	22	21	1.74			0.00	0.00		
62160	T-PER	I&D	Cochrane, Jack	SE	SE	8	22	21	12.05			0.00	0.00		
62160	T-PER	I&D	Cochrane, Jack	NE	SW	9	22	21	40.35			0.00	0.00		
62160	T-PER	I&D	Cochrane, Jack	NW	SW	9	22	21	40.39			0.00	0.00		
62160	T-PER	I&D	Cochrane, Jack	SW	SW	9	22	21	40.26			0.00	0.00		
62160	T-PER	I&D	Cochrane, Jack	SE	SW	9	22	21	40.24			0.00	0.00		
62160	T-PER	I&D	Cochrane, Jack	NW	SE	9	22	21	40.32			0.00	0.00		
62160	T-PER	I&D	Cochrane, Jack	SW	SE	9	22	21	40.20			0.00	0.00		
62160	T-PER	I&D	Cochrane, Jack	NE	NW	16	22	21	40.18			0.00	0.00		

WARM SPRINGS VALLEY CENTRAL: 1996

PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
62160	T-PER	I&D	Cochrane, Jack	NW	NW	16	22	21	27.42			0.00	0.00		
62160	T-PER	I&D							1.71	6.84	6.84	1.71	3.11		MCO well #5; EXPIRES 08-06-97
62161	T-PER	I&D	Cochrane, Jack	NE	SE	9	22	21	40.00			10.00	18.19		Onion
62161	T-PER	I&D	Cochrane, Jack	E2	NE	16	22	21	80.00			0.00	0.00		
62161	T-PER	I&D	Cochrane, Jack	NE	SE	8	22	21	35.42			0.00	0.00		
62161	T-PER	I&D	Cochrane, Jack	NW	SE	8	22	21	1.74			0.00	0.00		
62161	T-PER	I&D	Cochrane, Jack	SE	SE	8	22	21	12.05			0.00	0.00		
62161	T-PER	I&D	Cochrane, Jack	NE	SW	9	22	21	40.35			0.00	0.00		
62161	T-PER	I&D	Cochrane, Jack	NW	SW	9	22	21	40.39			0.00	0.00		
62161	T-PER	I&D	Cochrane, Jack	SW	SW	9	22	21	40.26			0.00	0.00		
62161	T-PER	I&D	Cochrane, Jack	SE	SW	9	22	21	40.24			0.00	0.00		
62161	T-PER	I&D	Cochrane, Jack	NW	SE	9	22	21	40.32			0.00	0.00		
62161	T-PER	I&D	Cochrane, Jack	SW	SE	9	22	21	40.20			0.00	0.00		
62161	T-PER	I&D	Cochrane, Jack	NE	NW	16	22	21	40.18			0.00	0.00		
62161	T-PER	I&D	Cochrane, Jack	NW	NW	16	22	21	27.42			0.00	0.00		
62161	T-PER	I&D							10.00	40.00	40.00	10.00	18.19		MCO well #5; EXPIRES 08-06-97
62162	T-PER	I&D	Cochrane, Jack	NE	SE	9	22	21	40.00			5.00	9.10		Onion
62162	T-PER	I&D	Cochrane, Jack	E2	NE	16	22	21	80.00			0.00	0.00		
62162	T-PER	I&D	Cochrane, Jack	NE	SE	8	22	21	35.42			0.00	0.00		
62162	T-PER	I&D	Cochrane, Jack	NW	SE	8	22	21	1.74			0.00	0.00		
62162	T-PER	I&D	Cochrane, Jack	SE	SE	8	22	21	12.05			0.00	0.00		
62162	T-PER	I&D	Cochrane, Jack	NE	SW	9	22	21	40.35			0.00	0.00		
62162	T-PER	I&D	Cochrane, Jack	NW	SW	9	22	21	40.39			0.00	0.00		
62162	T-PER	I&D	Cochrane, Jack	SW	SW	9	22	21	40.26			0.00	0.00		
62162	T-PER	I&D	Cochrane, Jack	SE	SW	9	22	21	40.24			0.00	0.00		
62162	T-PER	I&D	Cochrane, Jack	NW	SE	9	22	21	40.32			0.00	0.00		
62162	T-PER	I&D	Cochrane, Jack	SW	SE	9	22	21	40.20			0.00	0.00		
62162	T-PER	I&D	Cochrane, Jack	NE	NW	16	22	21	40.18			0.00	0.00		
62162	T-PER	I&D	Cochrane, Jack	NW	NW	16	22	21	27.42			0.00	0.00		
62162	T-PER	I&D							5.00	20.00	20.00	5.00	9.10		MCO well #5; EXPIRES 08-06-97
62163	T-PER	I&D	Cochrane, Jack	NE	SE	9	22	21	40.00			5.00	9.10		Onion
62163	T-PER	I&D	Cochrane, Jack	E2	NE	16	22	21	80.00			0.00	0.00		
62163	T-PER	I&D	Cochrane, Jack	NE	SE	8	22	21	35.42			0.00	0.00		
62163	T-PER	I&D	Cochrane, Jack	NW	SE	8	22	21	1.74			0.00	0.00		
62163	T-PER	I&D	Cochrane, Jack	SE	SE	8	22	21	12.05			0.00	0.00		
62163	T-PER	I&D	Cochrane, Jack	NE	SW	9	22	21	40.35			0.00	0.00		

WARM SPRINGS VALLEY CENTRAL: 1996

PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
62163	T-PER	I&D	Cochrane, Jack	NW	SW	9	22	21	40.39			0.00	0.00		
62163	T-PER	I&D	Cochrane, Jack	SW	SW	9	22	21	40.26			0.00	0.00		
62163	T-PER	I&D	Cochrane, Jack	SE	SW	9	22	21	40.24			0.00	0.00		
62163	T-PER	I&D	Cochrane, Jack	NW	SE	9	22	21	40.32			0.00	0.00		
62163	T-PER	I&D	Cochrane, Jack	SW	SE	9	22	21	40.20			0.00	0.00		
62163	T-PER	I&D	Cochrane, Jack	NE	NW	16	22	21	40.18			0.00	0.00		
62163	T-PER	I&D	Cochrane, Jack	NW	NW	16	22	21	27.42			0.00	0.00		
62163	T-PER	I&D							5.00	20.00	20.00	5.00	9.10		MCO well #5; EXPIRES 08-06-97
62164	T-PER	I&D	Cochrane, Jack	NE	SE	9	22	21	40.00			0.00	0.00		
62164	T-PER	I&D	Cochrane, Jack	E2	NE	16	22	21	80.00			0.00	0.00		
62164	T-PER	I&D	Cochrane, Jack	NE	SE	8	22	21	35.42			0.00	0.00		
62164	T-PER	I&D	Cochrane, Jack	NW	SE	8	22	21	1.74			0.00	0.00		
62164	T-PER	I&D	Cochrane, Jack	SE	SE	8	22	21	12.05			0.00	0.00		
62164	T-PER	I&D	Cochrane, Jack	NE	SW	9	22	21	40.35			0.00	0.00		
62164	T-PER	I&D	Cochrane, Jack	NW	SW	9	22	21	40.39			0.00	0.00		
62164	T-PER	I&D	Cochrane, Jack	SW	SW	9	22	21	40.26			0.00	0.00		
62164	T-PER	I&D	Cochrane, Jack	SE	SW	9	22	21	40.24			0.00	0.00		
62164	T-PER	I&D	Cochrane, Jack	NW	SE	9	22	21	40.32			0.00	0.00		
62164	T-PER	I&D	Cochrane, Jack	SW	SE	9	22	21	40.20			0.00	0.00		
62164	T-PER	I&D	Cochrane, Jack	NE	NW	16	22	21	40.18			13.98	21.74		Garlic
62164	T-PER	I&D	Cochrane, Jack	NW	NW	16	22	21	27.42			0.00	0.00		
62164	T-PER	I&D							11.96	47.82	47.82	13.98	21.74		MCO well #5; EXPIRES 08-06-97
62165	T-PER	I&D	Cochrane, Jack	NE	SE	9	22	21	40.00			0.00	0.00		
62165	T-PER	I&D	Cochrane, Jack	E2	NE	16	22	21	80.00			0.00	0.00		
62165	T-PER	I&D	Cochrane, Jack	NE	SE	8	22	21	35.42			0.00	0.00		
62165	T-PER	I&D	Cochrane, Jack	NW	SE	8	22	21	1.74			0.00	0.00		
62165	T-PER	I&D	Cochrane, Jack	SE	SE	8	22	21	12.05			0.00	0.00		
62165	T-PER	I&D	Cochrane, Jack	NE	SW	9	22	21	40.35			0.00	0.00		
62165	T-PER	I&D	Cochrane, Jack	NW	SW	9	22	21	40.39			0.00	0.00		
62165	T-PER	I&D	Cochrane, Jack	SW	SW	9	22	21	40.26			0.00	0.00		
62165	T-PER	I&D	Cochrane, Jack	SE	SW	9	22	21	40.24			0.00	0.00		
62165	T-PER	I&D	Cochrane, Jack	NW	SE	9	22	21	40.32			0.00	0.00		
62165	T-PER	I&D	Cochrane, Jack	SW	SE	9	22	21	40.20			0.00	0.00		
62165	T-PER	I&D	Cochrane, Jack	NE	NW	16	22	21	40.18			13.98	3.67		Garlic
62165	T-PER	I&D	Cochrane, Jack	NW	NW	16	22	21	27.42			0.00	0.00		
62165	T-PER	I&D							2.02	8.08	8.08	13.98	3.67		MCO well #5; EXPIRES 08-06-97

WARM SPRINGS VALLEY CENTRAL: 1996

PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	MCO PAR. #	REMARKS / CULTURE
62389	T-PER	IRR	Tehama Holdings, Inc.	NE	NW	9	22	21	35.00			35.00	3.11		Turf
62389	T-PER	IRR	Tehama Holdings, Inc.	NW	NW	9	22	21	35.00			35.00	3.10		Turf
62389	T-PER	IRR							19.00	76.00	76.00	70.00	6.21		Well WT-1; EXPIRES 09-10-97
62390	T-PER	IRR	Tehama Holdings, Inc.	NE	NW	9	22	21	35.00			35.00	3.24		Turf
62390	T-PER	IRR	Tehama Holdings, Inc.	NW	NW	9	22	21	35.00			35.00	3.25		Turf
62390	T-PER	IRR							19.85	79.40	79.40	70.00	6.49		Well WT-1; EXPIRES 09-10-97
62391	T-PER	IRR	Tehama Holdings, Inc.	NE	NW	9	22	21	35.00			35.00	6.72		Turf
62391	T-PER	IRR	Tehama Holdings, Inc.	NW	NW	9	22	21	35.00			35.00	6.72		Turf
62391	T-PER	IRR							10.15	40.60	40.60	70.00	13.44		Well WT-1; EXPIRES 09-10-97
				DOMESTIC WELLS					84				94.08		Duty = 1.12 acre-feet per well (1000 gal./day)
				COLUMN TOTALS						6876.42	1304.05		4384.94		
				DUTY TOTALS						5572			4385		

WARM SPRINGS VALLEY SOUTH: 1996

PERMIT	STAT	MOU	OWNER	PLACE OF USE Q1	Q2	SEC	T	R	UNITS	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	REMARKS
34668	10495	I&D	Gariador Brothers		NE	25	22	20	2.00	8.00		0.25	4.21	Alfalfa; ½ Ac. trees not in POU
43006	11181	I&D	Sendall Family Trust	NE	NW	34	22	21	2.00	8.00		2.50	7.00	Pasture & wheat; Meter required
50054	13051	I&D	McGuire, Kenneth L. & Sue C.	SE	NW	27	22	21	2.50	10.00		2.50	7.37	Alfalfa
50056	13610	I&D	Washoe County	SE	SE	36	22	20	1.00	4.00		0.50	0.54	Vegtables & house
50764	PER	I&D	Meredith, Marjorie	SW	NW	3	21	22				2.00	28.65	
50764	PER	I&D	Meredith, Marjorie	NW	SW	3	21	22						
50764	PER	I&D							6.00	24.00		2.00	28.65	Stockwatering also.
51971	CAN	Q-M	Simons, Lawrence J.	NW	NW	20	21	22	**	0.00		0.00	0.00	Cancelled 11/7/95
52202	13311	IRR	Avila, Robert J.	NW	SE	22	22	21	4.00	16.00		4.00	27.52	Alfalfa; Same well as 52842
52842	13312	I&D	Avila, Robert J.	NW	SE	22	22	21	1.00	4.00		1.00	6.88	Alfalfa; Same well as 52202
52868	13916	I&D	Wendland, Dave & Donna	NW	NE	21	22	21	13.00	52.00		13.00	42.65	Alfalfa; Same well as 52869 & 53263
52869	13917	I&D	Wendland, Dave & Donna	NW	NE	21	22	21	7.00	28.00		7.00	22.96	Alfalfa; Same well as 52868 & 53263
53243	PER	IRR	Palomino Valley GID	NE	NW	23	22	21	1.50	5.98		0.00	0.00	Meter required
53263	13918	I&D	Champion, Milton E. & Phyllis C.	NW	NE	21	22	21	5.00	20.00		5.00	16.40	Alfalfa; Same well as 52868 & 52869
53275	14073	I&D	Solari, John A. & Sheila L.	NE	NW	30	22	21	1.00	4.00		1.00	2.91	Pasture grass; Same well as 56472
53277	PER	I&D	Rowe, Evelyn K. & Richard J.	SW	SW	30	22	21	2.00	8.00		0.00	0.00	Meter required
53278	PER	IRR	Gleason, Gleason & Speck	SW	SW	30	22	21	2.50	10.00		0.00	0.00	Meter required
53343	PER	I&D	Bailey, Curtiss M. & Washoe County	NW	SE	30	22	22				0.25	1.20	
53343	PER	I&D	Bailey, Curtiss M. & Washoe County	SW	SE	30	22	22				0.25	1.20	
53343	PER	I&D							4.00	16.00		0.50	2.40	Pasture
53344	PER	I&D	Capurro, George J. & Elaine Kinerson	SW	NE	25	22	20				11.00	31.75	
53344	PER	I&D	Capurro, George J. & Elaine Kinerson	SE	NE	25	22	20				10.00	28.87	
53344	PER	I&D							10.00	40.00		21.00	60.62	Meter required; irrigation from an unpermitted well

WARM SPRINGS VALLEY SOUTH: 1996

PERMIT	STAT	MOU	OWNER	PLACE OF USE Q1	Q2	SEC	T	R	UNITS	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	REMARKS
53347	PER	I&D	Macaluso, Guiseppe & Mary	NE	NW	24	22	20						
53347	PER	I&D	Macaluso, Guiseppe & Mary	NW	NW	24	22	20						
53347	PER	I&D							1.50	6.00		0	0.20	Domestic only
53676	PER	I&D	Lee, Wallace & Clara	SE	SE	25	22	20	1.00	4.00		0.50	0.09	Same well as 54412
53694	PER	I&D	Mugni, John A. & Walker, et al	SW	SE	24	22	20						
53694	PER	I&D	Mugni, John A. & Walker, et al	SE	SE	24	22	20						Actually 3.375 acres
53694	PER	I&D							3.38	13.50		0.00	0.00	Meter required
53864	PER	I&D	Ohlson, John & Willmore, Pamela H.	NE	SE	19	22	22						
53864	PER	I&D	Ohlson, John & Willmore, Pamela H.	NE	SW	19	22	22						
53864	PER	I&D	Ohlson, John & Willmore, Pamela H.	NW	SW	19	22	22				0.20	1.57	House, corrals and landscaping.
53864	PER	I&D							1.00	4.00		0.20	1.57	
54165	PER	I&D	Furgason, Murray, Buxton & Casale	NW	SE	21	22	21						
54165	PER	I&D	Furgason, Murray, Buxton & Casale	NW	SE	21	22	21						
54165	PER	I&D							2.00	8.00		0.00	0.00	Meter required; Well plugged
54167	PER	I&D	Chang, Cherk H. & Jirovsky, James C.		SE	13	22	20	2.00	8.00		0.00	0.00	Meter required
54197	PER	IRR	Palomino Valley Estates, Inc.	SE	NE	19	22	22						
54197	PER	IRR	Palomino Valley Estates, Inc.	SW	NW	20	22	22						
54197	PER	IRR							2.00	8.00		0.00	0.00	Meter required
54198	PER	I&D	Palomino Valley Estates, Inc.	SE	NE	19	22	22						
54198	PER	I&D	Palomino Valley Estates, Inc.	SW	NW	20	22	22						
54198	PER	I&D							2.00	8.00		0.00	0.00	Meter required
54199	PER	I&D	Palomino Valley Estates, Inc.	SE	NE	19	22	22						
54199	PER	I&D	Palomino Valley Estates, Inc.	SW	NW	20	22	22						
54199	PER	I&D							2.00	8.00		0.00	0.00	Meter required
54265	PER	I&D	Minton, Elza Jr. & Marjorie & Washoe Co.	NW	NW	25	22	21	5.00	20.00		0.00	0.00	Meter required/ Washoe County has 1.0 Acre-foot
54412	PER	I&D	Lee, Wallace & Clara	SE	SE	25	22	20	1.00	4.00		0.50	0.08	Same well as 53676
54413	PER	I&D	Palimino Valley Estates, Inc.	SW	SE	36	22	20						

WARM SPRINGS VALLEY SOUTH: 1996

PERMIT	STAT	MOU	OWNER	PLACE OF USE Q1	Q2	SEC	T	R	UNITS	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	REMARKS
54413	PER	I&D	Palimino Valley Estates, Inc.	NW	SE	36	22	20						
54413	PER	I&D	Palimino Valley Estates, Inc.	NE	SW	36	22	20						
54413	PER	I&D	Palimino Valley Estates, Inc.	SE	SW	36	22	20						
54413	PER	I&D							10.00	40.00		0.00	0.00	Meter required
55326	PER	I&D	Hallbauer, John B. & Sybal I.	NE	NE	21	22	21	2.00	8.00		0.00	0.00	Meter required
55483	PER	I&D	Brown, Donald & Carmen & Washoe Co.	SE	SW	25	22	20						
55483	PER	I&D	Brown, Donald & Carmen & Washoe Co.	SW	SE	25	22	20						
55483	PER	I&D	Brown, Donald & Carmen & Washoe Co.	NW	NE	36	22	20						
55483	PER	I&D	Brown, Donald & Carmen & Washoe Co.	NE	NW	36	22	20						Washoe County por. is 2.5 acre-feet
55483	PER	I&D							1.00	4.00		0.00	0.00	Meter required
55656	PER	IRR	Iacometti, Patrick R. Patricia A.	SW	NE	24	22	20				1.00	0.38	
55656	PER	IRR	Iacometti, Patrick R. Patricia A.	SE	NE	24	22	20				6.00	2.28	
55656	PER	IRR							1.00	4.00		7.00	2.66	Orchard & garden
56284	PER	I&D	Newell Revocable Living Trust	NW	SE	6	21	22						
56284	PER	I&D	Newell Revocable Living Trust	SW	SE	6	21	22						
56284	PER	I&D	Newell Revocable Living Trust	NW	NE	7	21	22						
56284	PER	I&D	Newell Revocable Living Trust	SW	NE	7	21	22						
56284	PER	I&D							3.00	12.00		0.00	0.00	Meter required
56472	PER	I&D	Solari, John A. & Sheila L.	NE	NW	30	22	21	1.00	4.00		0.00	0.00	Pasture grass; Same well as 53275
56576	PER	I&D	Walkins, John L.	SW	NW	25	22	21						
56576	PER	I&D	Walkins, John L.	NW	SW	25	22	21				0.75	3.19	
56576	PER	I&D							1.00	4.00		0.75	3.19	Pasture grass
56927	PER	I&D	Washoe County	NE	NW	30	22	22						Portion owned by Realty Corner CAN 5/31/96
56927	PER	I&D	Washoe County	SE	NW	30	22	22						Portion owned by Foster CAN 7/29/96
56927	PER	I&D	Washoe County	NE	SW	30	22	22						
56927	PER	I&D							1.25	5.00		0.00	0.00	Meter required; House stables & landscaping
57526	PER	I&D	Jones, Marlene & Partei, William R.	NE	NE	1	21	20						
57526	PER	I&D	Jones, Marlene & Partei, William R.	NW	NE	1	21	20						
57526	PER	I&D	Jones, Marlene & Partei, William R.	NE	NW	1	21	20						
57526	PER	I&D							1.00	4.00		0.00	0.00	Meter required

WARM SPRINGS VALLEY SOUTH: 1996

PERMIT	STAT	MOU	OWNER	PLACE OF USE Q1	Q2	SEC	T	R	UNITS	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	REMARKS
57983	PER	I&D	Shreck, James L. & Connie M.	W2	SW	9	21	22						
57983	PER	I&D	Shreck, James L. & Connie M.	SE	SW	9	21	22						
57983	PER	I&D	Shreck, James L. & Connie M.	SE	SE	8	21	22						
57983	PER	I&D	Shreck, James L. & Connie M.	N2	NW	16	21	22						
57983	PER	I&D	Shreck, James L. & Connie M.	SW	NW	16	21	22						
57983	PER	I&D	Shreck, James L. & Connie M.	N2	SW	16	21	22						
57983	PER	I&D	Shreck, James L. & Connie M.	NE	NE	17	21	22						
57983	PER	I&D	Shreck, James L. & Connie M.	SW	NE	17	21	22						
57983	PER	I&D	Shreck, James L. & Connie M.	SE	NE	17	21	22				1.00	0.45	Pasture, several bldgs. & ranch yard
57983	PER	I&D							1.00	4.00		1.00	0.45	
58057	PER	I&D	Jones, Marlene & Partei, William R.	NE	NE	1	21	20						
58057	PER	I&D	Jones, Marlene & Partei, William R.	NW	NE	1	21	20						
58057	PER	I&D	Jones, Marlene & Partei, William R.	NE	NW	1	21	20						
58057	PER	I&D							0.25	1.00		0.00	0.00	Meter required
58290	PER	IRR	Wild, Dennis L. & Donna L.	SE	SW	6	21	22						
58290	PER	IRR	Wild, Dennis L. & Donna L.	N2	NW	7	21	22						
58290	PER	IRR							2.50	10.00		0.00	0.00	Meter required
60975	E-PER	ENV	Rockwell International Corporation		SW	28	22	21						
60975	E-PER	ENV	Rockwell International Corporation	NE	SE	29	22	21						
60975	E-PER	ENV							**	16.13		**	0.48	Pumpage reported quarterly
				DOMESTIC WELLS					169				189.28	Duty = 1.12 AF per well (1000 gal./day)
				COLUMN TOTALS						465.61	0.00		428.11	
				DUTY TOTALS						466			428	

WARM SPRINGS VALLEY WEST: 1996

PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	REMARKS
27395	9317	REC	Air Sailing, Inc.	SW	SE	11	23	20		8.01		10	0.86	Travel trailers and shop (same POD as 35565).
35565	11087	REC	Air Sailing, Inc.	SW	SE	11	23	20		0.16			0.33	Same service and POD as 27395.
39593	PER	I&D	Marshall, Robert W. & Nanette	NW	SW	29	24	20						
39593	PER	I&D	Marshall, Robert W. & Nanette	S2	SW	29	24	20						
39593	PER	I&D	Marshall, Robert W. & Nanette	S2	NW	29	24	20						
39593	PER	I&D	Marshall, Robert W. & Nanette		E2	30	24	20						Supplemental to
39593	PER	I&D	Marshall, Robert W. & Nanette		N2	32	24	20						surface rights
39593	PER	I&D	Marshall, Robert W. & Nanette	S2	NW	33	24	20						
39593	PER	I&D	Marshall, Robert W. & Nanette		S2	33	24	20						
39593	PER	I&D	Marshall, Robert W. & Nanette	NW	NE	4	23	20						
39593	PER	I&D							850.00	64.60		0.00	0.00	
39849	PER	REC	Washoe County	NE	SE	18	23	21		20.00			1.04	Regional shooting facility.
45095	10798	I&D	Hildenbrand, Thomas R. & Jacqueline	NE	NE	2	22	20	2.00	8.00		2.00	9.90	Alfalfa; Same POD as 51002
47562	12057	I&D	Bailey, Wayne E.	NE	SE	35	23	20	4.00	16.00		4.00	11.37	Pasture and wood lot.
47599	13820	IRR	Polizzi, Lewis H. & Nora	NW	SW	1	22	20	3.29	8.00		3.29	1.53	Orchard, reduced duty
48819	12354	STK	Intermountain Land Company	SW	SW	8	21	20	350	5.20		350	2.85	Cattle: Oct. 1 to May 30.
49445	13822	IRR	Moore, Dennis R. - et.al.	NE	SE	15	22	20	5.00	20.00		0.00	0.00	Alfalfa.
49669	11974	IRR	Intermountain Land Company	NW	NE	22	23	20	5.20			0.00	0.00	Supplemental to 49670
49669	11974	IRR	Intermountain Land Company	SW	NE	22	23	20	33.26			33.26	19.68	Alfalfa
49669	11974	IRR	Intermountain Land Company	SE	NE	22	23	20	2.40			2.40	1.42	Alfalfa
49669	11974	IRR	Intermountain Land Company	NE	NW	22	23	20	46.62			0.00	0.00	
49669	11974	IRR	Intermountain Land Company	SE	NW	22	23	20	46.37			46.37	27.40	Alfalfa
49669	11974	IRR							133.85	235.40		82.03	48.50	Certificated duty = 1.7587 AF/ac.
49670	11975	IRR	Intermountain Land Company	NW	NE	22	23	20	5.20			0.00	0.00	Supplemental to 49669
49670	11975	IRR	Intermountain Land Company	SW	NE	22	23	20	33.26			33.26	25.07	Alfalfa
49670	11975	IRR	Intermountain Land Company	SE	NE	22	23	20	2.40			2.40	1.81	Alfalfa
49670	11975	IRR	Intermountain Land Company	NE	NW	22	23	20	46.62			0.00	0.00	
49670	11975	IRR	Intermountain Land Company	SE	NW	22	23	20	46.37			46.37	34.94	Alfalfa
49670	11975	IRR							133.85	300.00		82.03	61.82	Certificated duty = 2.2413 AF/ac.

WARM SPRINGS VALLEY WEST: 1996

PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	REMARKS
51002	13241	I&D	Hildenbrand, Thomas R. & Jacqueline	NE	NE	2	22	20	3.00	12.00		3.00	14.85	Same POD as 45095
51883	PER	IRR	York, Earl E.	NE	SW	2	22	20	30.00			10.00	0.94	Tree farm
51883	PER	IRR	York, Earl E.	NW	SW	2	22	20	40.00			40.00	3.76	Tree farm
51883	PER	IRR							70.00	10.00		50.00	4.70	
52089	PER	Q-M	Reno-Sparks Indian Colony	SE	NW	4	21	20		18.38		120	0.00	Supplemental to 53313 & 56613
53313	PER	Q-M	Reno-Sparks Indian Colony	NE	NW	4	21	20		183.70	18.38	120	44.22	Supplemental to 52089 & 56613
53346	PER	I&D	Washoe County, et.al.	NE	SW	12	22	20						
53346	PER	I&D	Washoe County, et.al.	NW	SW	12	22	20						
53346	PER	I&D							4.00	16.00		0.50	1.79	Landscaping, no crop
53677	14074	IRR	Wyatt, Dennis D.	SW	SW	26	23	20	1.30	5.20		0.00	1.05	No crop, alligator cribs; Same POD as 53678
53678	14075	IRR	Wyatt, Dennis D.	SW	SW	26	23	20	16.70	66.80		0.00	13.54	No crop, alligator cribs; Same POD as 53677
54166	PER	I&D	Guidera, Leslie C.	SE	SE	35	23	20	3.00	12.00		0.00	0.00	Meter required
54411	PER	I&D	Mazza, Thomas C. & Marie E.	SE	NW	30	23	21						
54411	PER	I&D	Mazza, Thomas C. & Marie E.	NE	SW	30	23	21						
54411	PER	I&D	Mazza, Thomas C. & Marie E.	SE	SW	30	23	21						
54411	PER	I&D							3.00	12.00		0.00	0.00	Meter required
54614	PER	I&D	Herold, Carl & Lurinda	E2	NE	14	23	20	1.50	6.00		0.00	0.01	Shed with some landscaping.
54615	PER	I&D	Fischer, Frances J.	NE	NE	14	23	20						
54615	PER	I&D	Fischer, Frances J.	SE	NE	14	23	20						
54615	PER	I&D							1.50	6.00		0.00	0.00	Meter required
54616	PER	I&D	Fischer, Frances J.	NE	NE	14	23	20						
54616	PER	I&D	Fischer, Frances J.	SE	NE	14	23	20						
54616	PER	I&D							1.00	4.00		0.00	0.00	Meter required
54889	14080	IRR	Dennis, Gregory E. & Michele C.	SW	NE	36	23	20	2.50	10.00		2.50	4.98	House and landscaping
56164	PER	I&D	Washoe County	SE	SW	12	22	20						

WARM SPRINGS VALLEY WEST: 1996

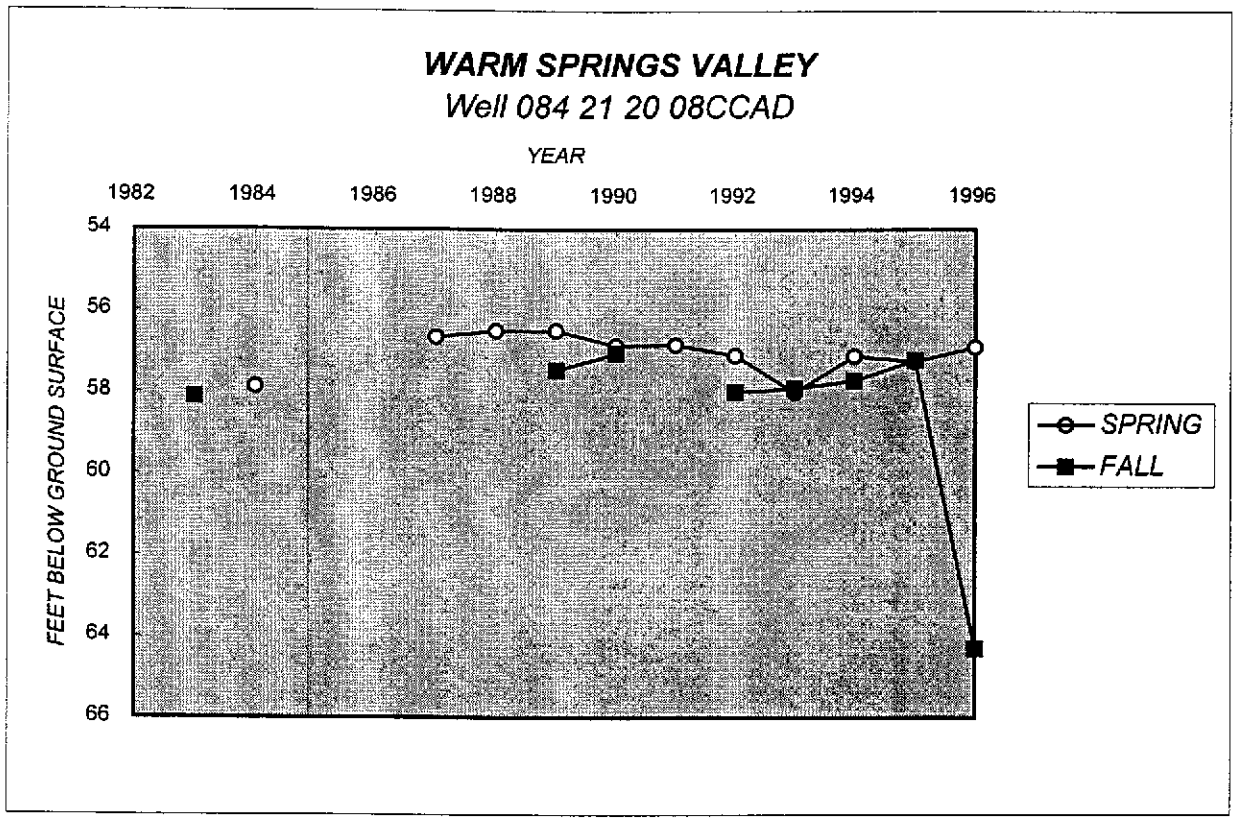
PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	REMARKS
56164	PER	I&D	Washoe County	SW	SW	12	22	20						
56164	PER	I&D	Washoe County	SW	SE	12	22	20						
56164	PER	I&D	Washoe County	SE	SE	12	22	20						
56164	PER	I&D							0.63	2.50		0.00	0.00	Meter required
56613	PER	Q-M	Reno-Sparks Indian Colony	SE	SW	33	22	20		165.32	165.32	120	0.00	Supplemental to 52089 & 53313
56928	PER	IRR	Shackelton, Sarah J.	SE	NE	35	23	20	1.00	4.00		0.00	0.00	Domestic only; Same POD as 57663
56930	PER	IRR	Stinson, George W.	NW	NE	6	22	21						
56930	PER	IRR	Stinson, George W.	SW	NE	6	22	21						
56930	PER	IRR	Stinson, George W.	NE	NW	6	22	21						
56930	PER	IRR	Stinson, George W.	SW	NW	6	22	21						
56930	PER	IRR	Stinson, George W.	SE	NW	6	22	21						
56930	PER	IRR							0.30	1.20		0.00	0.00	Meter required
56931	PER	IRR	Stinson, George W.	NW	NE	6	22	21						
56931	PER	IRR	Stinson, George W.	SW	NE	6	22	21						
56931	PER	IRR	Stinson, George W.	NE	NW	6	22	21						
56931	PER	IRR	Stinson, George W.	SW	NW	6	22	21						
56931	PER	IRR	Stinson, George W.	SE	NW	6	22	21						
56931	PER	IRR							1.80	7.20		0.00	0.00	Meter required
56934	PER	IRR	Stinson, George W.	NW	NE	6	22	21						
56934	PER	IRR	Stinson, George W.	SW	NE	6	22	21						
56934	PER	IRR	Stinson, George W.	NE	NW	6	22	21						
56934	PER	IRR	Stinson, George W.	SW	NW	6	22	21						
56934	PER	IRR	Stinson, George W.	SE	NW	6	22	21						
56934	PER	IRR							0.90	3.60		0.00	0.00	Meter required
56963	PER	IRR	Stinson, George W.	NW	NE	6	22	21						
56963	PER	IRR	Stinson, George W.	SW	NE	6	22	21						
56963	PER	IRR	Stinson, George W.	NE	NW	6	22	21						
56963	PER	IRR	Stinson, George W.	SW	NW	6	22	21						
56963	PER	IRR	Stinson, George W.	SE	NW	6	22	21						
56963	PER	IRR							2.00	8.00		0.00	0.00	Meter required
57663	PER	IRR	Shackelton, Sarah & McClain, John	SE	NE	35	23	20	2.50	10.00		0.00	0.00	Domestic only; Same POD as 56928

WARM SPRINGS VALLEY WEST: 1996

PERMIT	STAT	MOU	PERMITTEE	PLACE OF USE Q1	Q2	SEC	T	R	UNITS/ ACRES	DUTY (AF)	SUPP ADJ.	UNITS USED	DUTY USED	REMARKS
				DOMESTIC WELLS					55				61.60	Duty = 1.12 AF per well (1000 GPD)
				COLUMN TOTALS						1249.27	183.70		284.94	
				DUTY TOTALS						1066			285	

SELECTED HYDROGRAPHS

(1983 TO PRESENT)


WARM SPRINGS VALLEY
Well 084 21 20 08CCAD
YEAR
1982
1984
1986
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1990
1992
1994
1996
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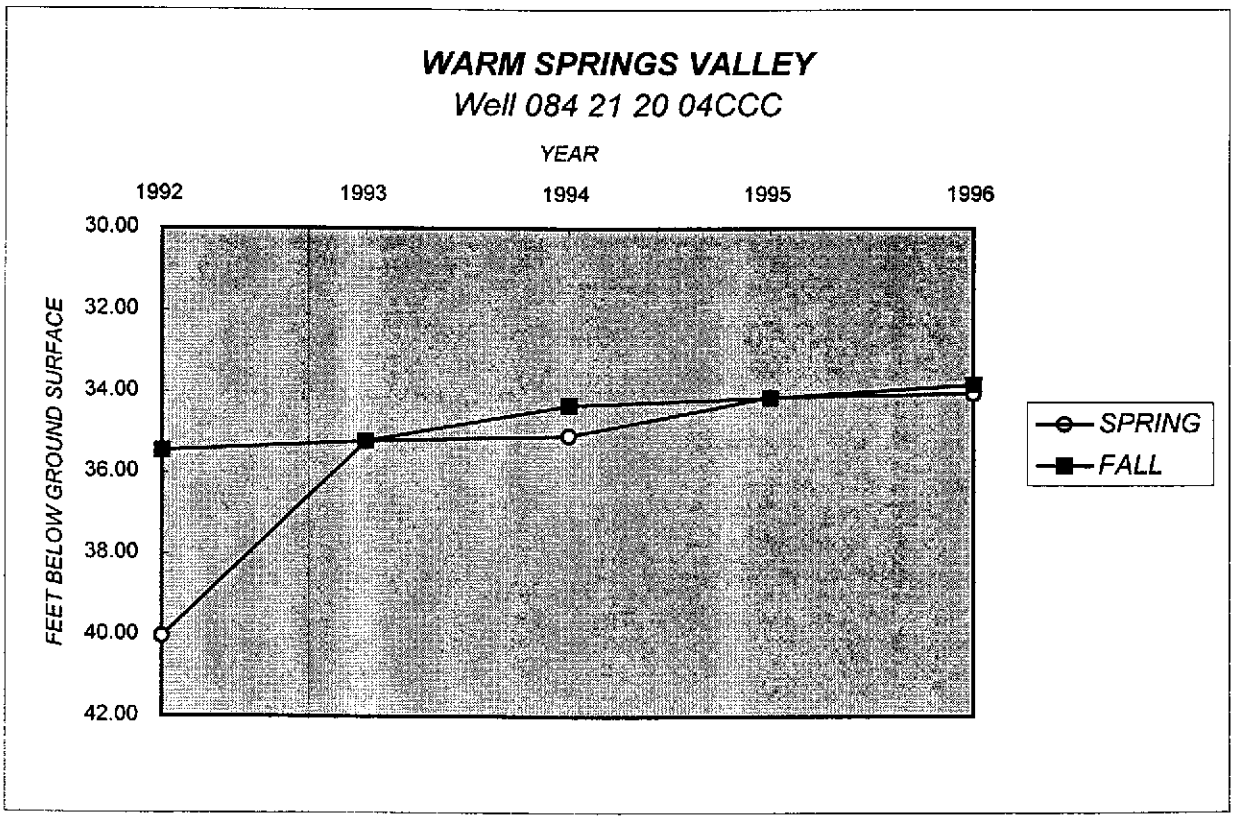
56
58
60
62
64
66
SPRING
FALL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YEAR
1992
1993
1994
1995
1996
FEET BELOW GROUND SURFACE
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38.00
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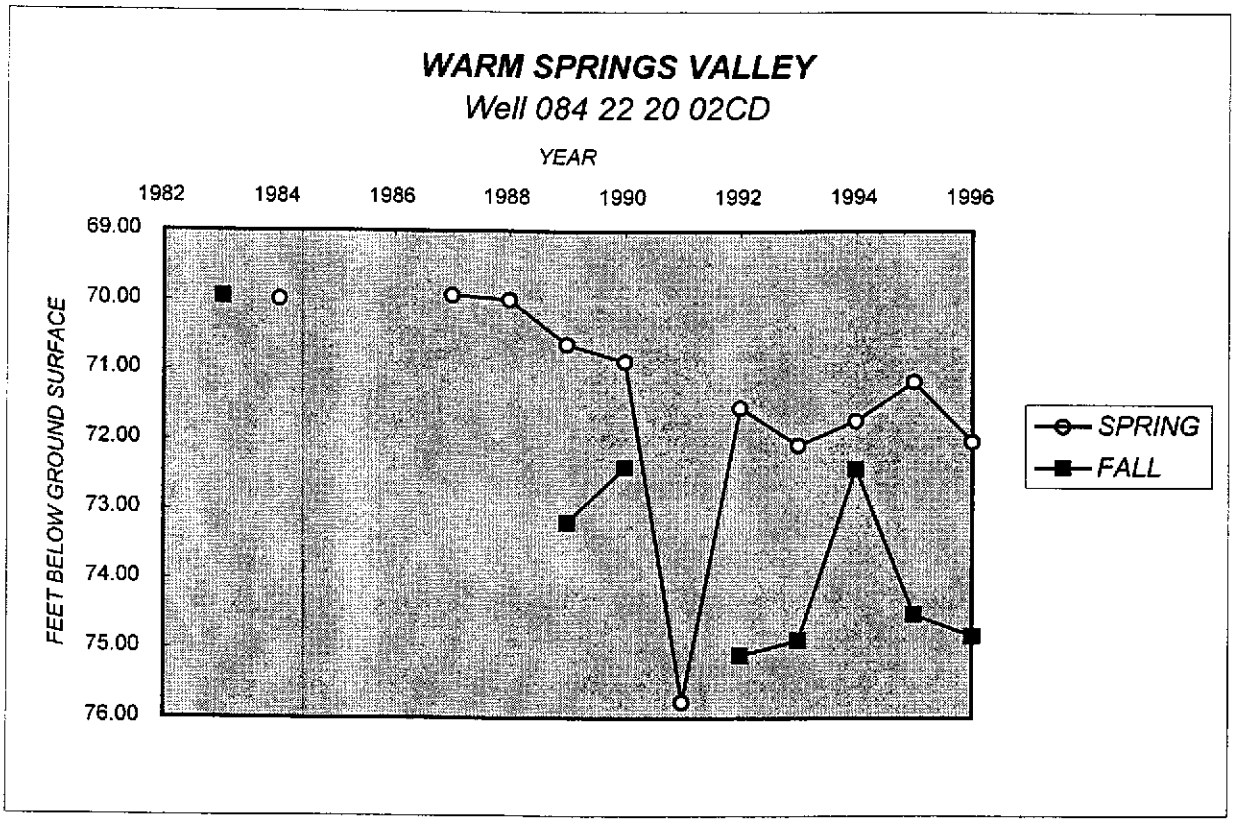
42.00
SPRING
FALL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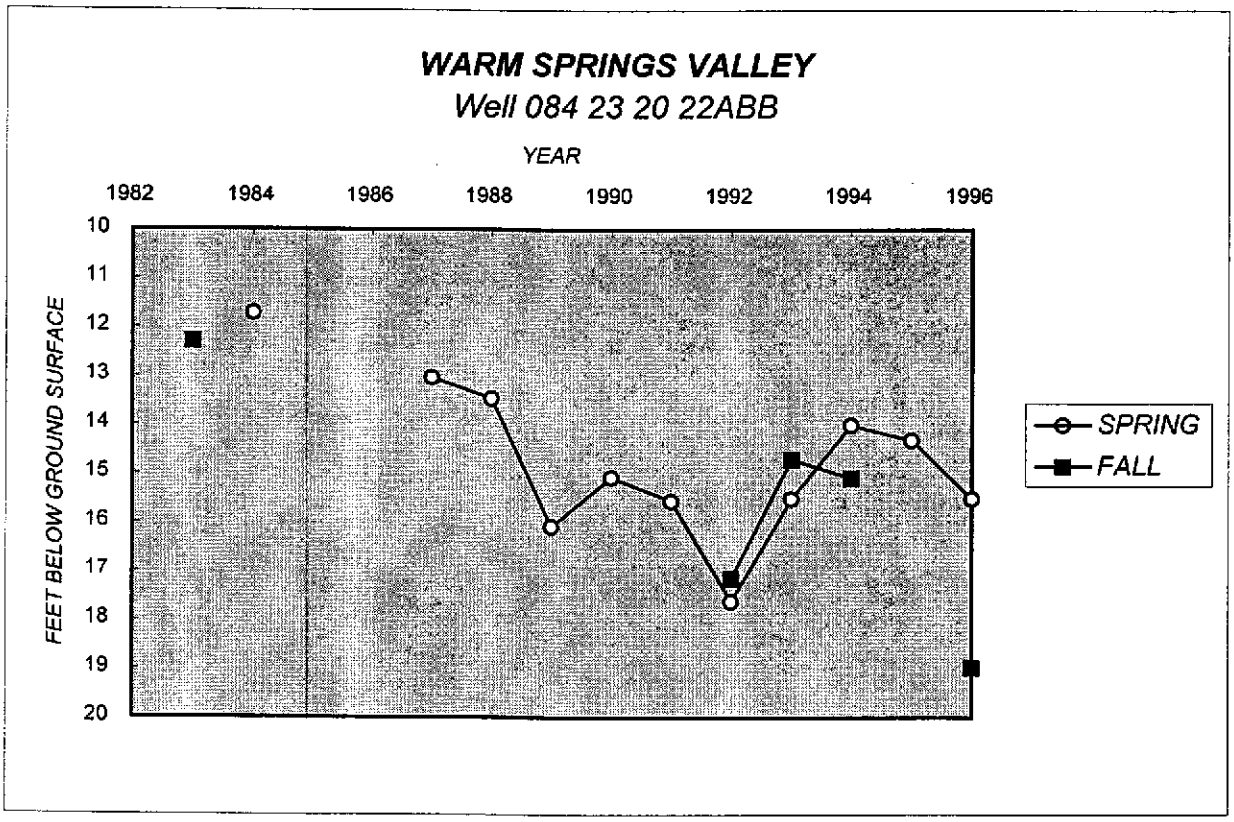
76.00
FEET BELOW GROUND SURFACE
SPRING
FALL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YEAR
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1984
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1988
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1992
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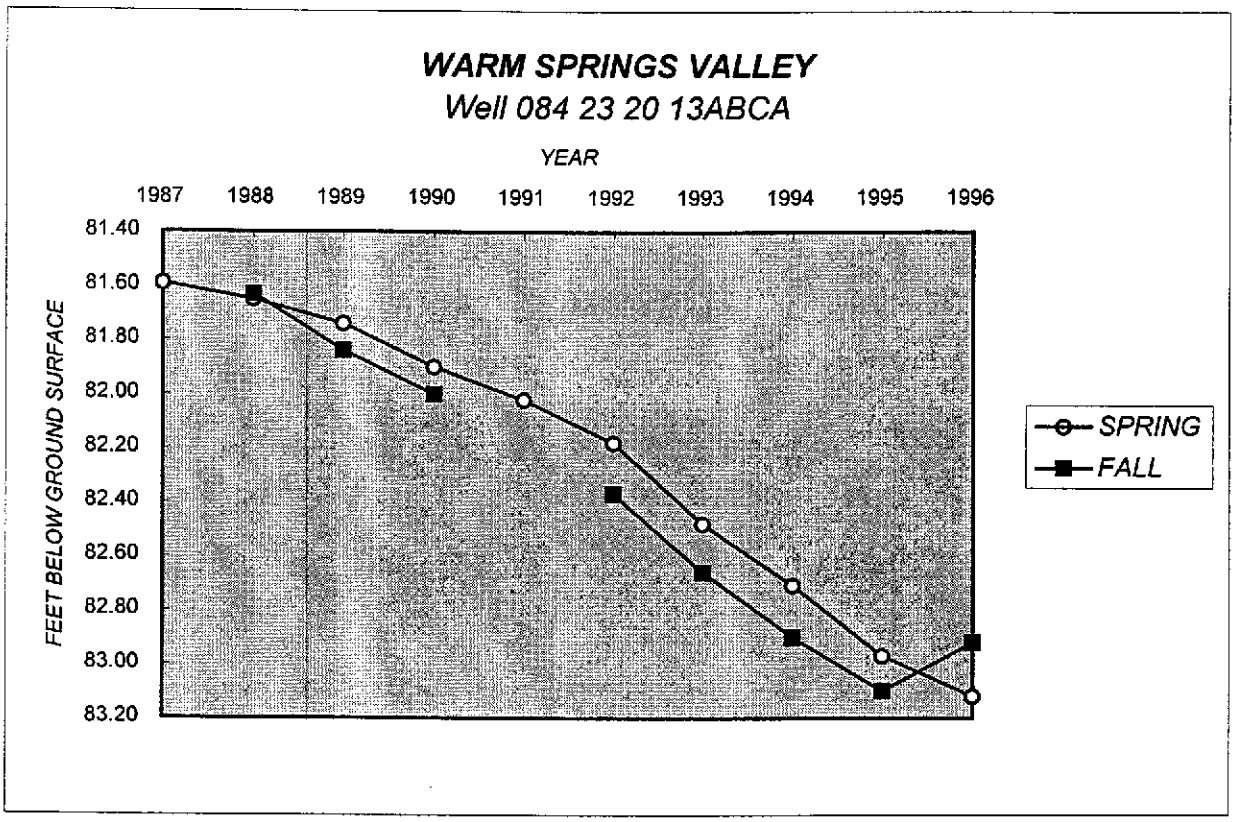
16
17
18
19
20
FEET BELOW GROUND SURFACE
SPRING
FALL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1989
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1991
1992
1993
1994
1995
1996
FEET BELOW GROUND SURFACE
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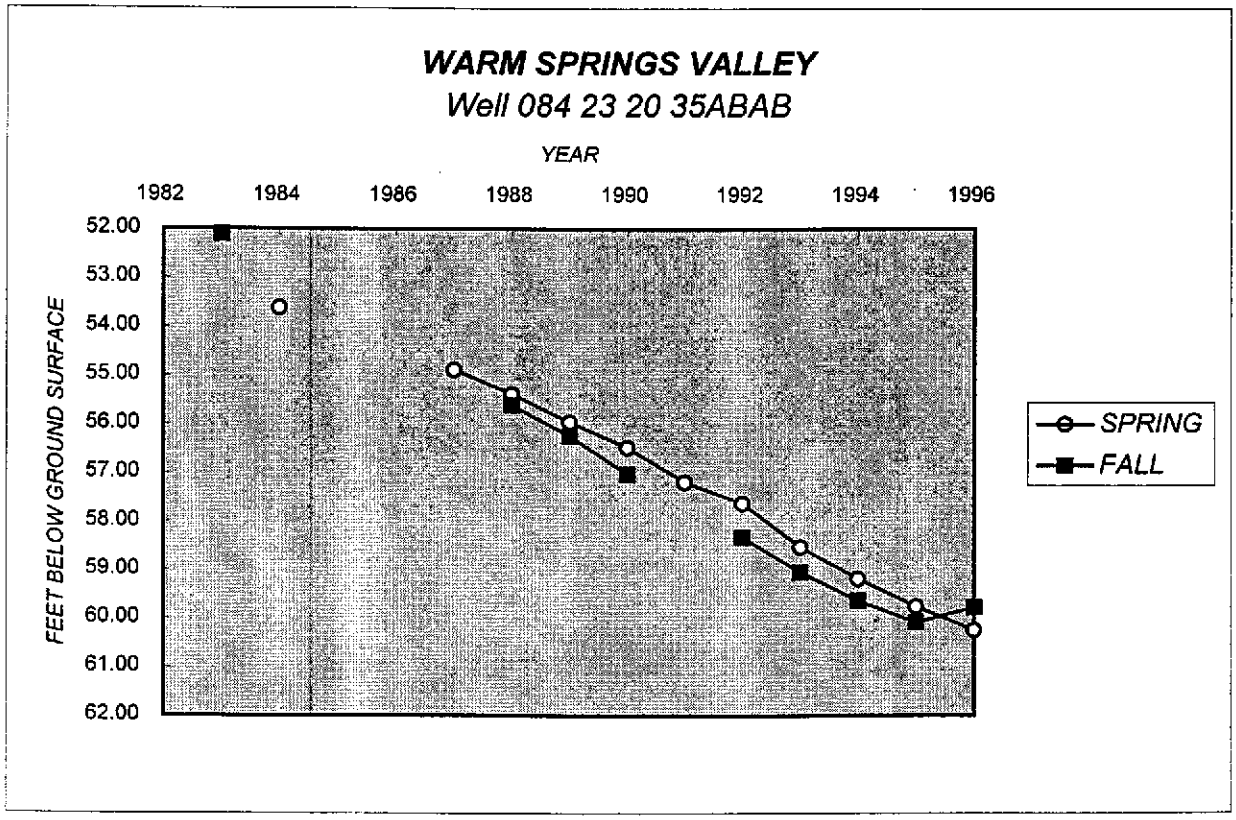
82.40
82.60
82.80
83.00
83.20
SPRING
FALL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1984
1986
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1990
1992
1994
1996
FEET BELOW GROUND SURFACE
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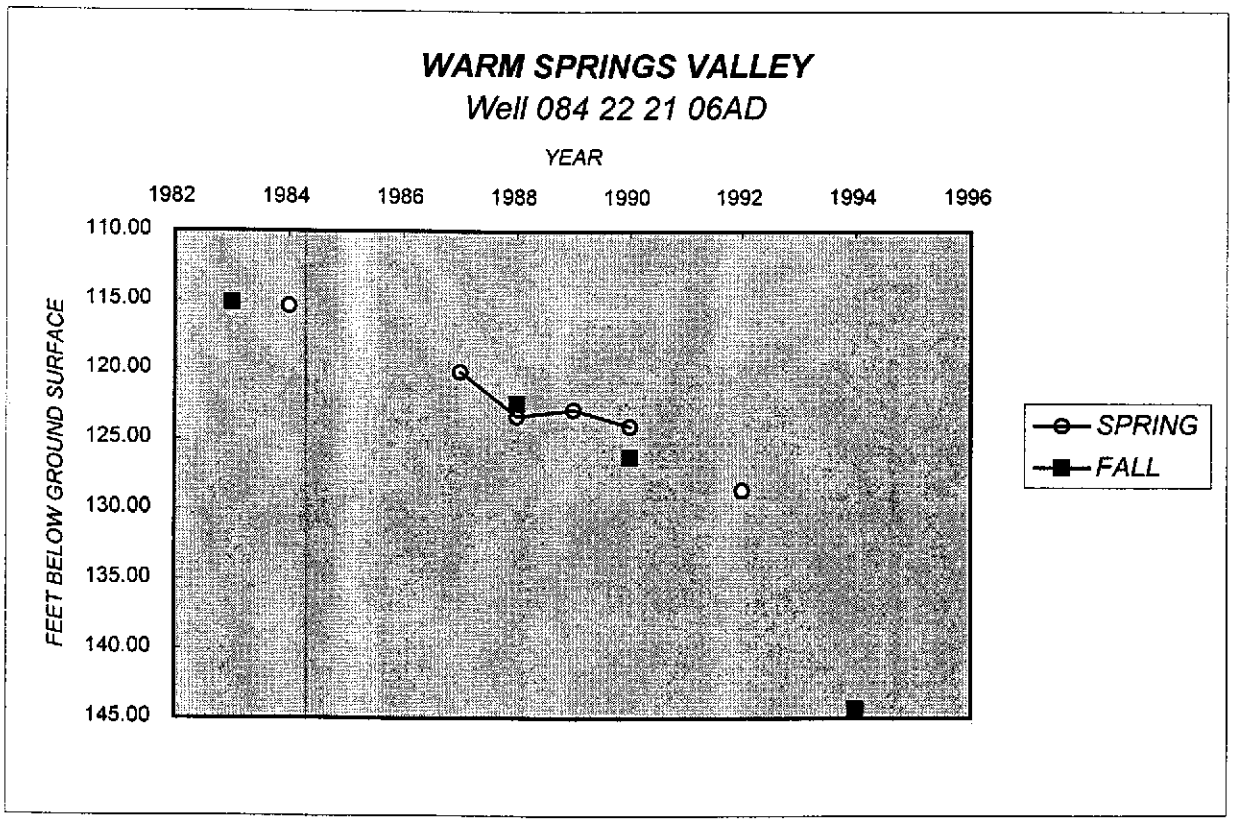
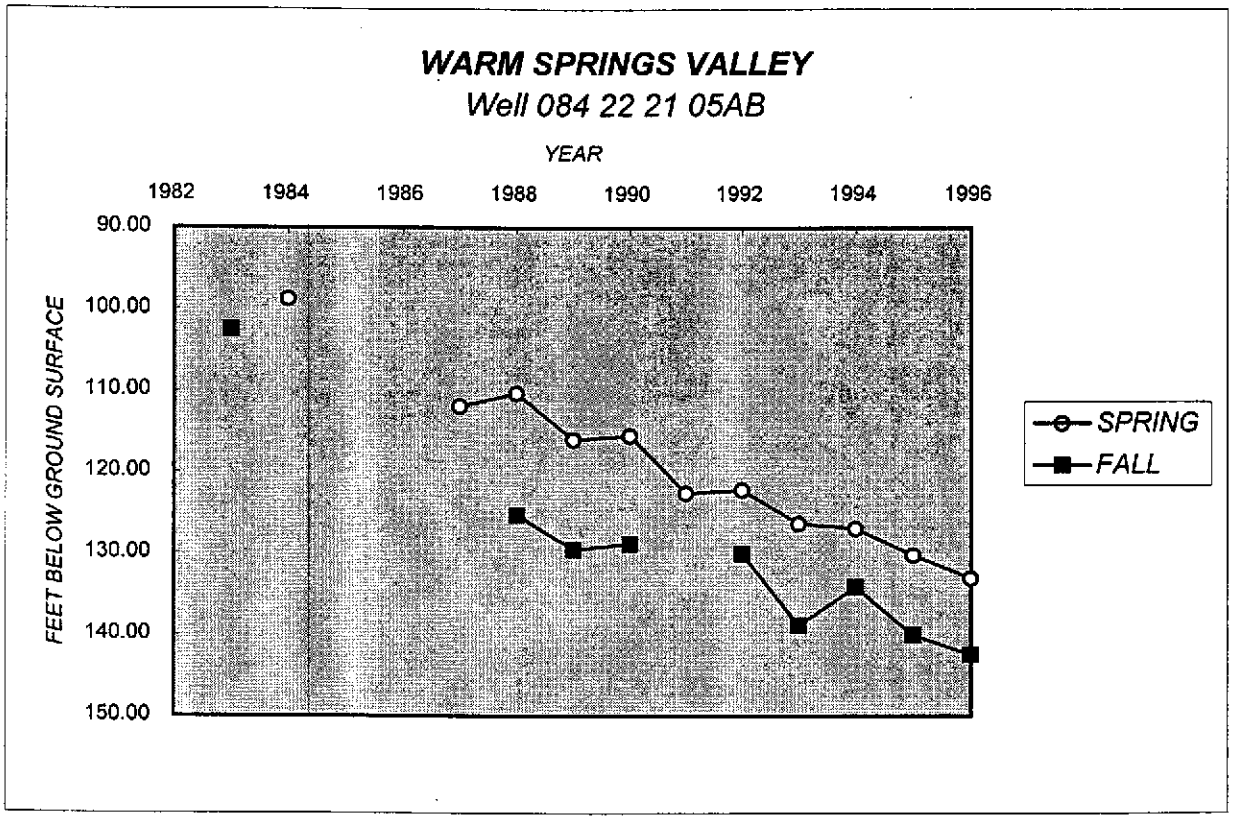
54.00
55.00
56.00
57.00
58.00
59.00
60.00
61.00
62.00
SPRING
FALL


WARM SPRINGS VALLEY
Well 084 22 21 06AD
YEAR
1982
1984
1986
1988
1990
1992
1994
1996
FEET BELOW GROUND SURFACE
110.00
115.00
120.00
125.00
130.00
135.00
140.00
145.00
SPRING
FALL


WARM SPRINGS VALLEY
Well 084 22 21 05AB
YEAR
1982
1984
1986
1988
1990
1992
1994
1996
FEET BELOW GROUND SURFACE
90.00
100.00
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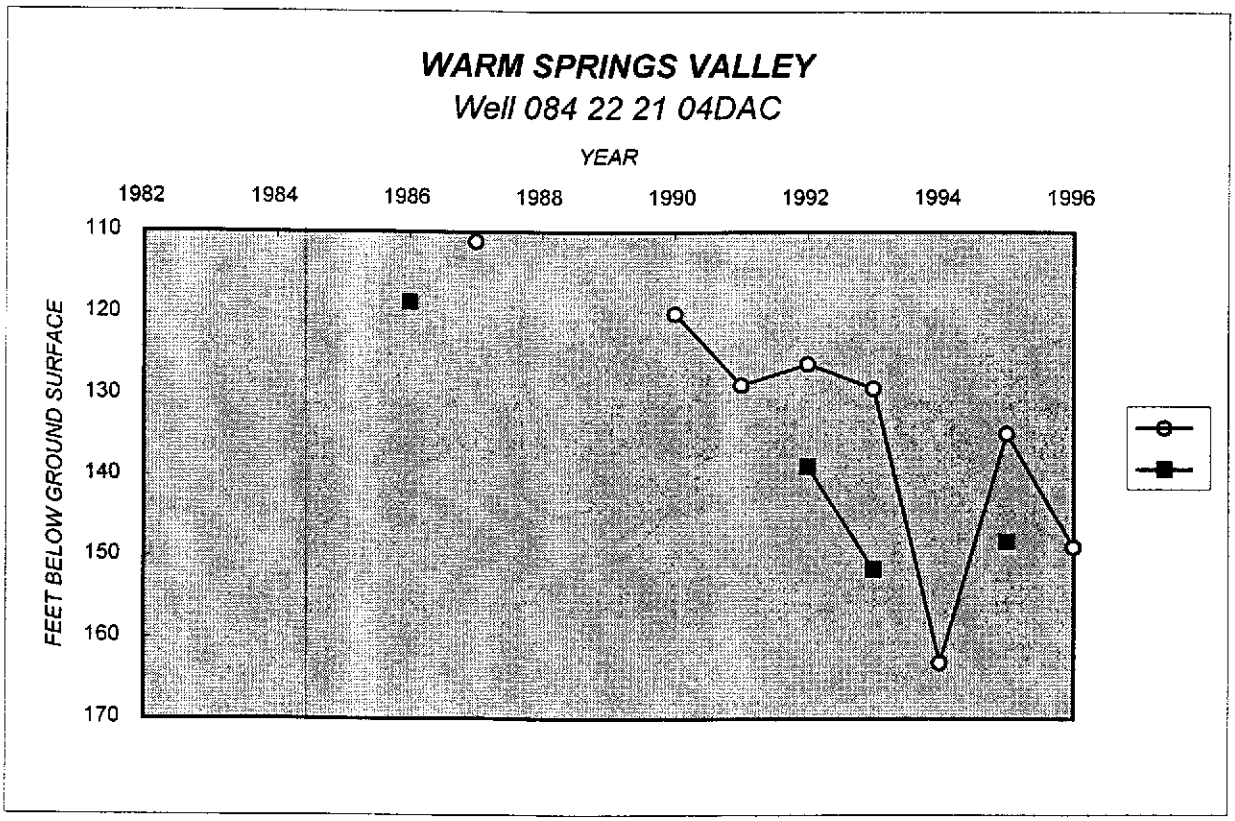
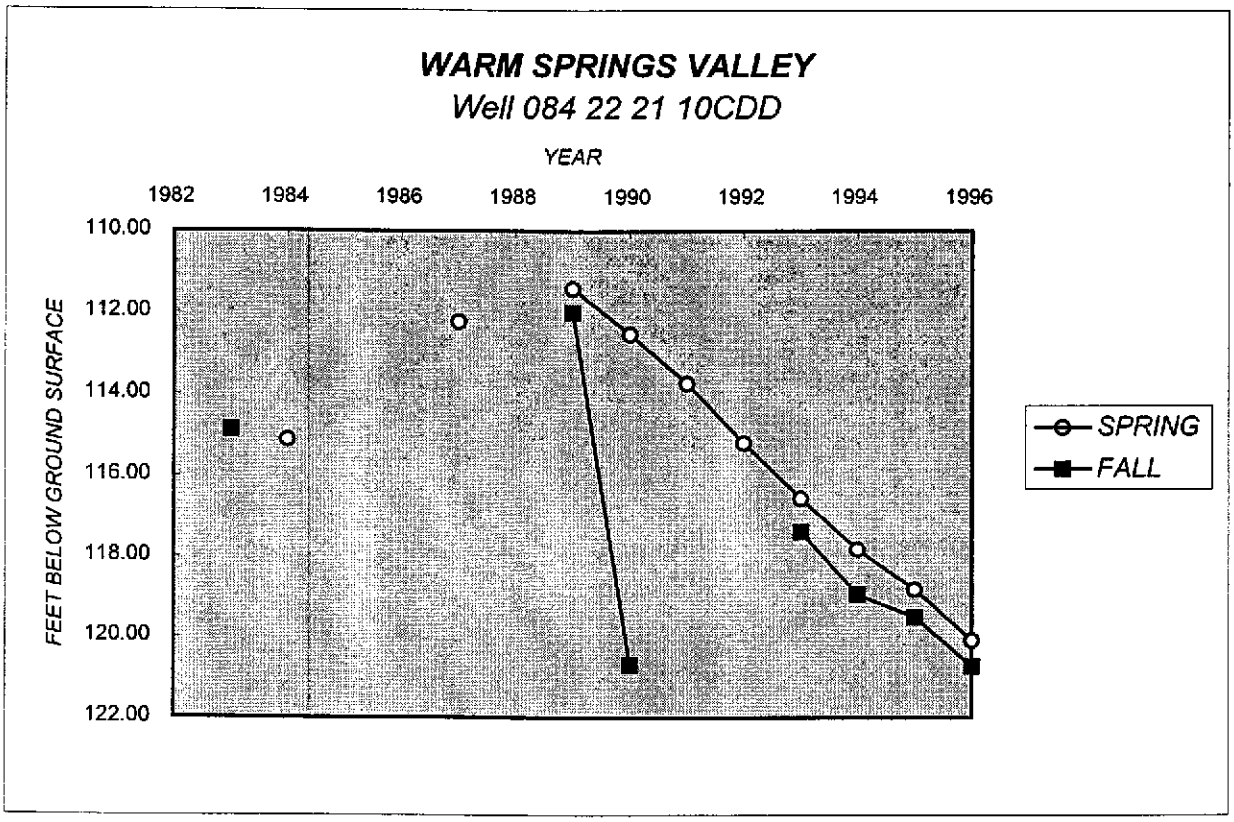
120.00
130.00
140.00
150.00
SPRING
FALL


WARM SPRINGS VALLEY
Well 084 22 21 04DAC
YEAR
1982
1984
1986
1988
1990
1992
1994
1996
110
120
130
140
150
160
170
FEET BELOW GROUND SURFACE


WARM SPRINGS VALLEY
Well 084 22 21 10CDD
YEAR
1982
1984
1986
1988
1990
1992
1994
1996
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114.00
116.00
118.00
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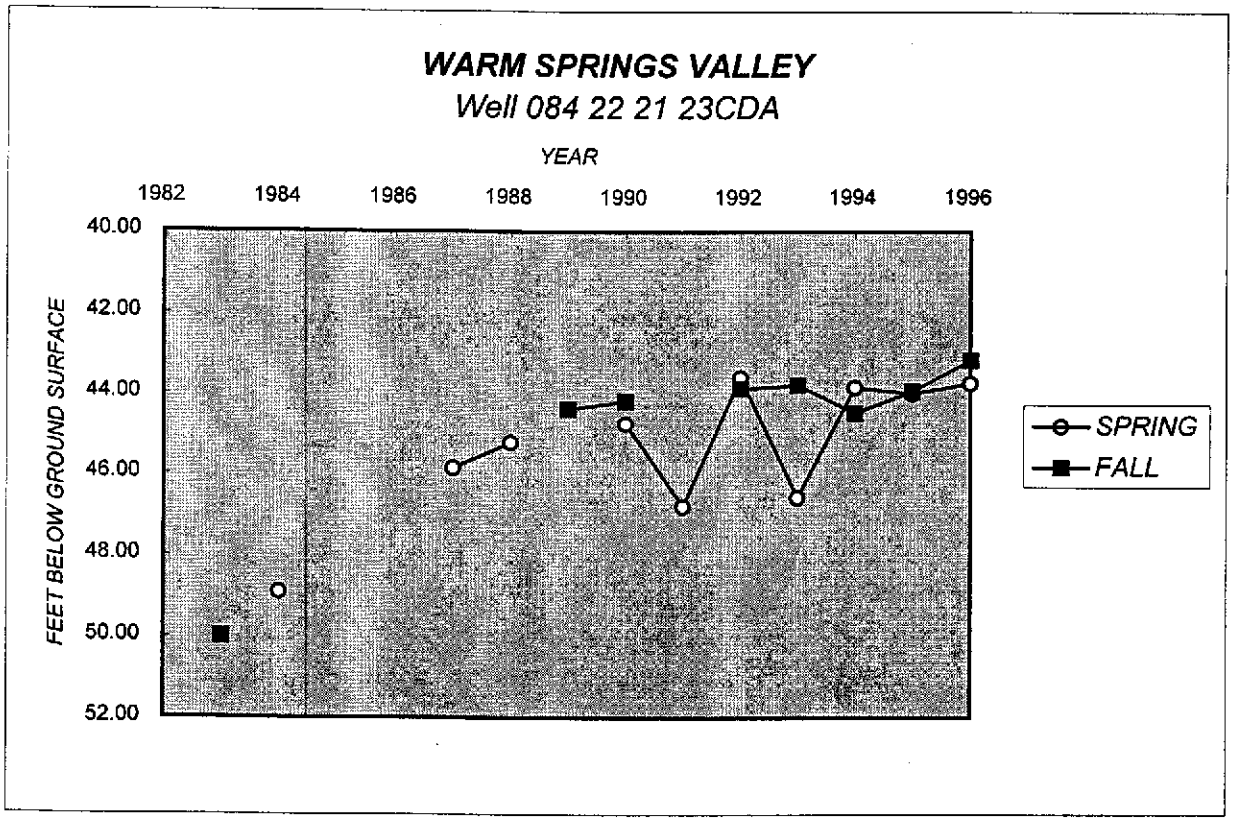
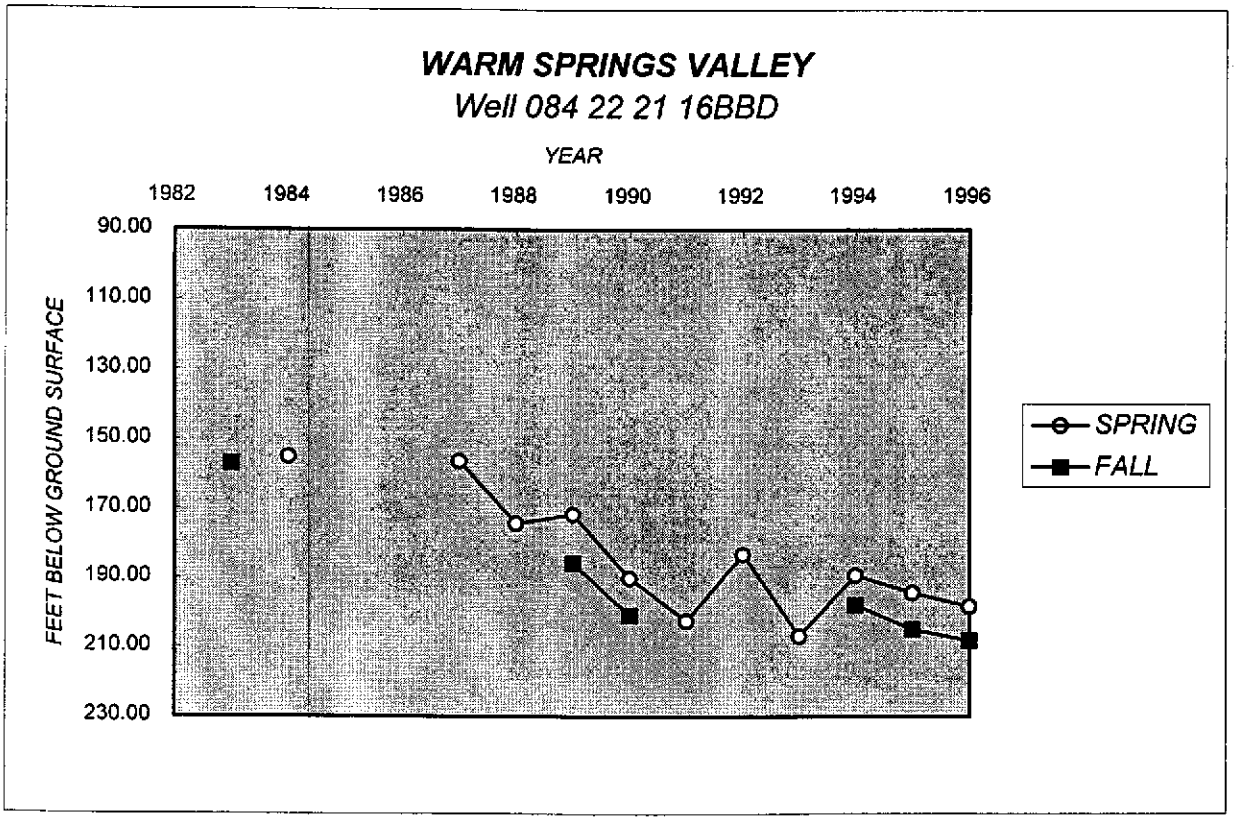
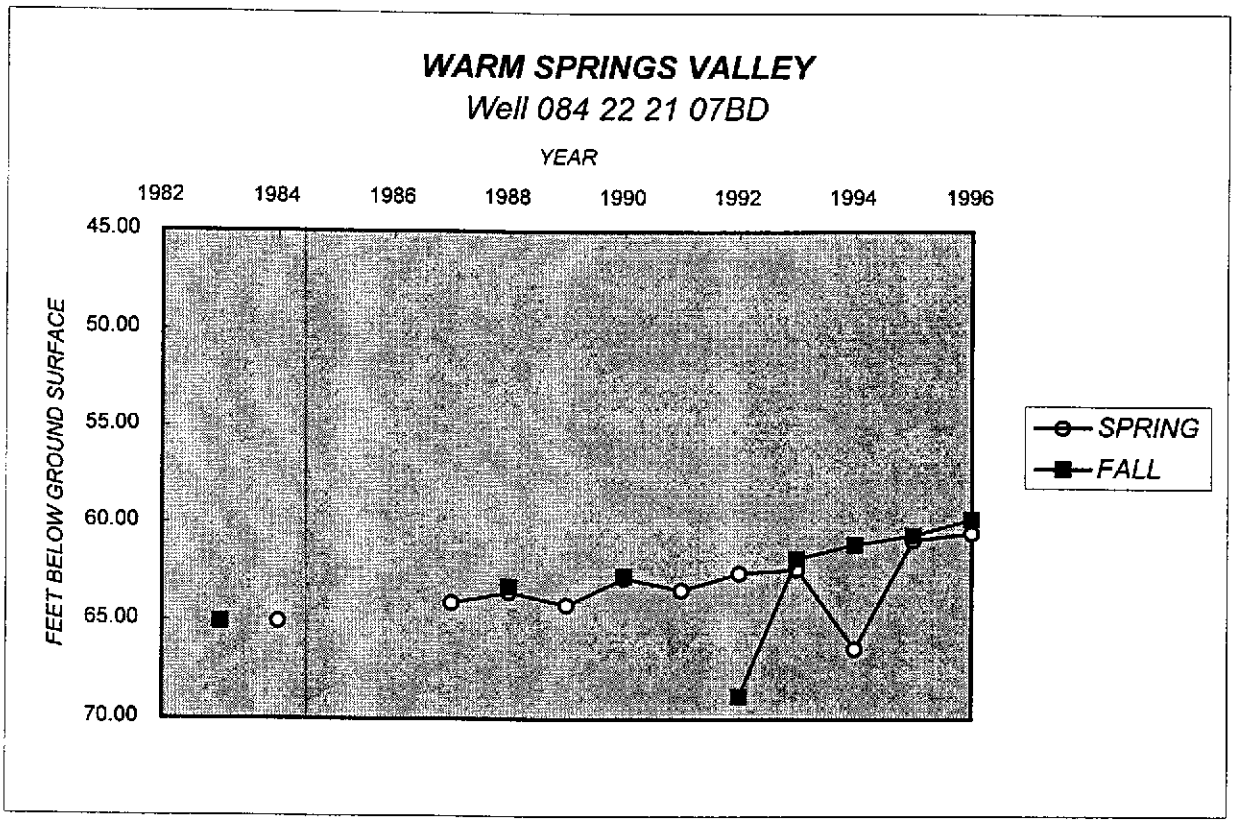
122.00
FEET BELOW GROUND SURFACE
SPRING
FALL


WARM SPRINGS VALLEY
Well 084 22 21 23CDA
YEAR
1982
1984
1986
1988
1990
1992
1994
1996
40.00
42.00
44.00
46.00
48.00
50.00
52.00
FEET BELOW GROUND SURFACE
SPRING
FALL


WARM SPRINGS VALLEY
Well 084 22 21 16BBD
YEAR
1982
1984
1986
1988
1990
1992
1994
1996
90.00
110.00
130.00
150.00
170.00
190.00
210.00
230.00
FEET BELOW GROUND SURFACE
SPRING
FALL


WARM SPRINGS VALLEY
Well 084 22 21 07BD
YEAR
1982
1984
1986
1988
1990
1992
1994
1996
45.00
50.00
55.00
60.00
65.00
70.00
FEET BELOW GROUND SURFACE
SPRING
FALL

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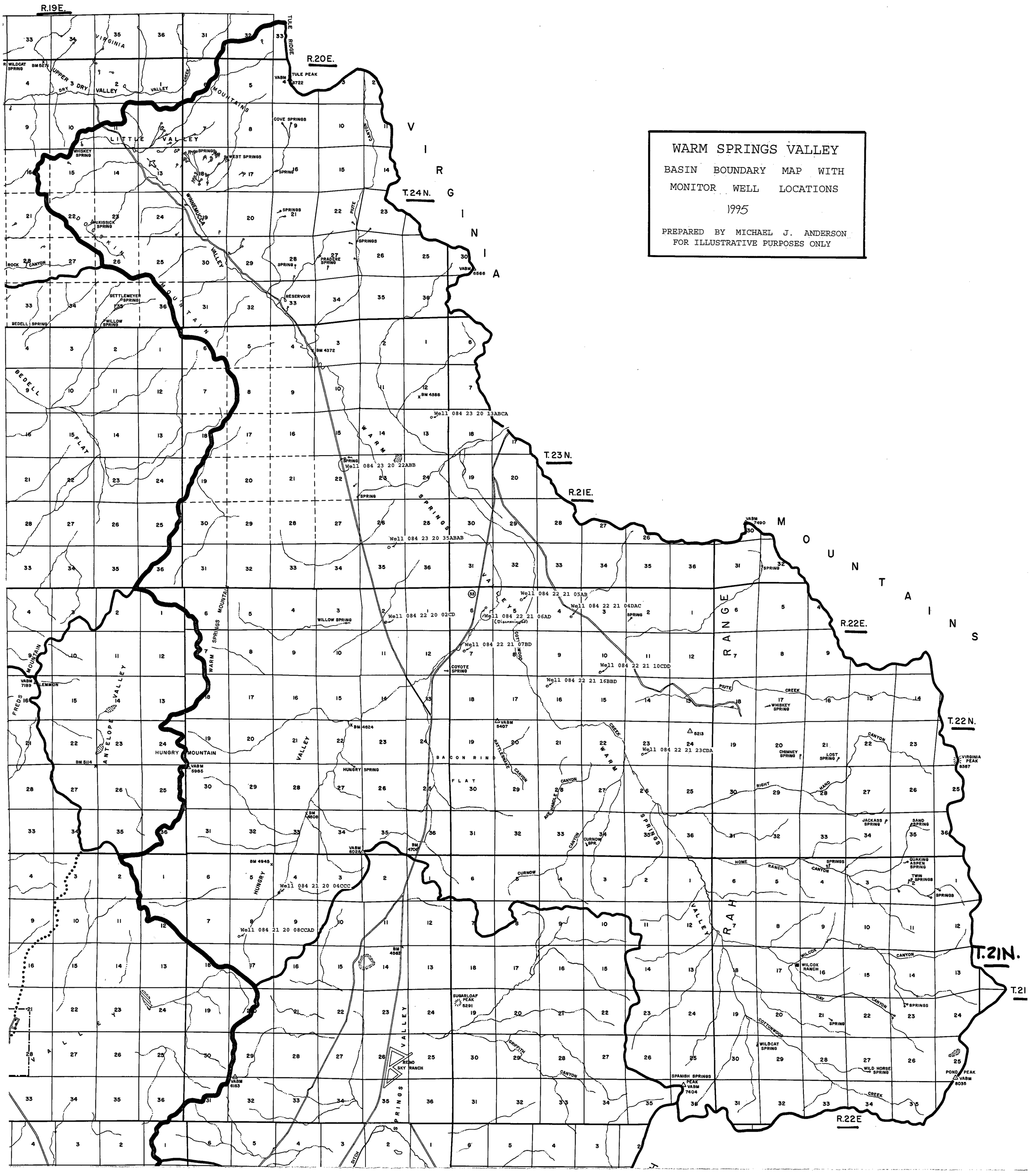
2) Ross, W.C., 1997, Hydrology and Simulated Effects of Development in Warm Springs Valley, Washoe County, Nevada: Washoe County Department of Water Resources.

3) Katzer, T., 1997, Hydrogeology of Warm Springs Valley and Feasibility of Aquifer Recharge, Storage, and Recovery with Emphases (sic.) on the Marshall and Winnemucca Ranch Areas, Washoe County, Nevada: Prepared for Robert W. Marshall.


WARM SPRINGS VALLEY
BASIN BOUNDARY MAP WITH
MONITOR WELL LOCATIONS
1995
PREPARED BY MICHAEL J. ANDERSON
FOR ILLUSTRATIVE PURPOSES ONLY
R.19E.
R.20E.
R.21E.
R.22E.
T.24N.
T.23N.
T.22N.
T.21N.
T.21
VIRGINIA
VIRGINIA MOUNTAINS
TULE RIDGE
TULE PEAK
VABM 6722
WILDCAT SPRING
BM 6271
UPPER 3 DRY VALLEY
LITTLE VALLEY
COVE SPRINGS
WHISKEY SPRING
WEST SPRINGS
WINNEMUCCA VALLEY
McKISSICK SPRING
ROCK CANYON
PRADERE SPRING
VABM 6566
SETTLEMEYER SPRING
RESERVOIR
WILLOW SPRING
BEDELL SPRING
BM 4372
BEDELL FLAT
BM 4386
Well 084 23 20 13ABCA
Well 084 23 20 22ABB
Well 084 23 20 35ABAB
WARM SPRINGS VALLEY
VABM 7490
MOUNTAINS
RANGE
Well 084 22 21 05AB
Well 084 22 21 04DAC
Well 084 22 20 02CD
Well 084 22 21 06AD
(Discontinued)
Well 084 22 21 07BD
COTTONWOOD
COYOTE SPRING
Well 084 22 21 10CDD
Well 084 22 21 16BBD
PIUTE CREEK
WHISKEY SPRING
FREDS MOUNTAIN
VABM 7189
LEMMON
ANTELOPE VALLEY
WARM SPRINGS MOUNTAIN
BM 4624
VABM 5407
5213
Well 084 22 21 23CDA
CHIMNEY SPRING
LOST SPRING
VIRGINIA PEAK 8367
BM 5114
HUNGRY MOUNTAIN
VABM 5965
HUNGRY SPRING
BACON RIND FLAT
RATTLESNAKE CANYON
WARM SPRINGS
AXE HANDLE CANYON
RIGHT HAND CANYON
JACKASS SPRING
SAND SPRING
BM 4808
VABM 6028
BM 4706
CURNOW SPR.
CURNOW
HOME RANCH
SPRINGS CANYON
QUAKING ASPEN SPRING
TWIN SPRINGS
SPRINGS
BM 4945
Well 084 21 20 04CCC
Well 084 21 20 08CCAD
HUNGRY VALLEY
BM 4563
WILCOX RANCH
WILCOX CANYON
HAY CANYON
SPRINGS
SUGARLOAF PEAK 5291
COTTONWOOD
WILDCAT SPRING
GRIFFITH CANYON
RENO SKY RANCH
VABM 6163
SPANISH SPRINGS PEAK VABM 7404
WILD HORSE SPRING
POND PEAK VABM 6035
CREEK
DITCH
R.22E