Table 1. Ground-water and vegetation study sites in the Owens Valley, California, 1982–88

[na, not applicable; nc, not collected; USGS, U.S. Geological Survey. Wells USGS 4 and USGS 11 dropped from study; USGS 9 selected for evapotranspiration monitoring, but used sparingly]

Site designation (figure 2)	Well number	Latitude (north)	Longitude (west)	Site name	Monitoring at site		
					Wells	Evapotrans-piration	Dewater-ing
A	USGS 1	37° 25' 06"	118° 21' 02"	Laws	Shallow	Intermittent	na.
B	USGS 12	37° 19' 25"	118° 21' 31"	Warm Springs slow site	Nested	nc	Slow.
C	USGS 2	37° 17' 02"	118° 20' 15"	Warm Springs weather site	Shallow	Continuous	na.
D	USGS 2A	37° 17' 00"	118° 20' 11"	Collins Road fast site	Nested	nc	Fast.
E	USGS 3	37° 25' 06"	118° 21' 02"	Klondike Lake site	Shallow	Intermittent	na.
F	USGS 5	37° 06' 48"	118° 14' 29"	Big Pine weather site	Shallow	Continuous	na.
G	USGS 6	36° 56' 23"	118° 13' 40"	Blackrock Spring site	Shallow	Intermittent	na.
H	USGS 13	36° 47' 57"	118° 09' 33"	Independence slow site	Shallow	nc	Slow.
I	USGS 9	36° 47' 11"	118° 09' 40"	South Independence site	Shallow	nc	na.
J	USGS 7	36° 49' 07"	118° 09' 28"	North Independence site	Shallow	Intermittent	na.
K	USGS 8	36° 48' 08"	118° 09' 11"	Independence fast site	Nested	nc	Fast.
L	USGS 10	36° 47' 45"	118° 09' 00"	Independence weather site	Shallow	Continuous	na.
M	USGS 14	37° 08' 35"	118° 15' 03"	Steward Lane west	Nested	nc	na.
N	USGS 16	37° 08' 41"	118° 14' 05"	Steward Lane east	Nested	nc	na.
O	USGS 17	37° 04' 47"	118° 14' 26"	Fish Springs	Nested	nc	na.
P	USGS 15	36° 48' 10"	118° 10' 32"	Independence spring field	Nested	nc	na.
Q	USGS 19	36° 44' 07"	118° 08' 55"	Manzanar airport	Nested	nc	na.
R	USGS 18	36° 44' 27"	118° 04' 44"	Reward Road east	Nested	nc	na.
S	USGS 20	36° 41' 54"	118° 03' 39"	Northeast of Alabama Gates	Nested	nc	na.

Table 2. Characteristics and purpose of ground-water flow models developed for the Owens Valley, California

Model	Characteristics	Purpose	Reference
Half-valley models of Bishop and Independence areas.	Finite-element code; 5 layers; includes Round Valley and Owens Lake.	Identify computer codes, appropriate discretization, and boundaries of ground-water flow system.	Danskin (1988).
Half-valley model of Independence area.	Finite-element code; 2 layers.	Identify the effect of parameter uncertainty on model results.	Yen (1985).
Valleywide (preliminary).	Finite-difference code; 2 layers; includes Round Valley and Owens Lake.	Confirm initial hydrogeologic concepts and ground-water budget. Identify necessary data and concepts.	Danskin (1988); figure 2.
Dewatering.	Variable grid spacing with minimum 10-foot by 10-foot cell; 3 layers.	Determine vertical hydraulic conductivity and leakance.	Figure 2.
Cross-sectional (vertical slice).	Vertical section along parallel ground-water flowlines.	Determine ground-water flow characteristics from alluvial fans to valley floor and effect of depositional facies.	Figure 2.
Valleywide (final).	Finite-difference code; 2 layers; detailed hydrogeology, recharge, and discharge.	Verify regional hydrologic concepts and ground-water budget. Evaluate historical conditions. Predict valleywide effects of possible changes in water management. Provide boundary conditions for well-field models.	Figure 2.
Well field.....	Fine spatial discretization; each model uses 2 or 3 layers and covers from 1/4 to 1/2 of Owens Valley.	Testing and prediction of localized effects.	Hutchison (1988); Hutchison and Radell (1988a); Radell (1989); Los Angeles Department of Water and Power (1988).
Regression.....	Statistical regression equations.	Prediction of effects at specific wells; no testing of concepts.	Hutchison (1986d, 1991).

Table 3. Native plant communities in the Owens Valley, California

[Adapted from Sorenson and others, 1991]

Native plant community	Species name	Common name	Characteristics
High-ground-water alkaline meadow.	*Distichlis spicata*	Saltgrass	Vegetation is highly salt tolerant and grows in areas where the water table ranges from land surface to 4 feet below land surface most of the year. Site L (figure 2) is an example.
	Glycyrrhiza lepidota	Wild licorice	
	Juncus balticus	Wire rush	
	Sida leprosa	Alkali mallow	
	Sporobolus airoides	Alkali sacaton	
High-ground-water alkaline scrub.	*Atriplex torreyi*	Nevada saltbush	Vegetation is highly tolerant of alkalinity and salinity; generally found where the water table ranges from 3 to 10 feet below land surface. Predominant plant species are phreatophytic and require contact between the rooting zone and the water table. Community also may contain plant species characteristic of the high-ground-water alkaline meadow community. Sites B, H, and K (figure 2) are examples.
	Sarcobatus vermiculatus	Greasewood	
	Chrysothamnus nauseosus	Rubber rabbitbrush	
	Suaeda torreyana	Inkweed	
Dryland alkaline scrub	*Ambrosia dumosa*	Burrobush	Vegetation is found where there is no connection between the water table and the rooting zone. Soils are well drained and usually alkaline or saline. Site K (figure 2) has some of these species.
	Artemisia spinescens	Bud sage	
	Atriplex confertifolia	Shadscale	
	Atriplex polycarpa	Allscale	
	Ceratoides lanata	Winterfat	
	Hymenoclea salsola	Cheesebush	
	Lycium cooperi	Peach thorn	
	Psorothamnus sp.	Dalea	
	Stephanomeria pauciflora	Desert milkaster	
Dryland nonalkaline scrub	*Artemisia tridentata*	Big sagebrush	Vegetation generally is intolerant of high alkalinity or salinity. Found on coarse, well-drained soils, often on alluvial fans that border the valley.
	Chrysothamnus teretifolius	Green rabbitbrush	
	Eriogonum fasciculatum	California buckwheat	
	Ephedra nevadensis	Nevada squawtea	
	Purshia glandulosa	Desert bitterbrush	

Table 4. Historical periods of similar water use in the Owens Valley, California

Time period	Characteristics of water use
Pre-1913	Prior to the first export of water from the Owens Valley. Installation of canals to dewater the valley floor and supply water for farming and ranching.
1913–69	Export of surface water from the Owens Valley by diversion of the Owens River and tributary streams into the Los Angeles Aqueduct. General decrease of farming and ranching in the valley. Brief periods of pumping to augment local surface-water supplies.
1970–84	Export of some additional surface water. Beginning export of ground water with the addition of new wells and second aqueduct. Major fish hatcheries switch supply from surface water to ground water. Decrease in consumptive use of water by remaining ranches.
1985–88	Continued export of surface and ground water. Design of cooperative water-management plan between Inyo County and the Los Angeles Department of Water and Power. Installation and initial operation of enhancement and mitigation wells.

Table 5. Composition of native plant communities, ground-water-level and precipitation data, and range in evapotranspiration estimates at vegetation study sites in the Owens Valley, California

[nc, not collected; —, not available; USGS, U.S. Geological Survey. Vegetation data from the Los Angeles Department of Water and Power (R.H. Rawson, written commun., 1984, 1987); evapotranspiration estimates from Duell, 1990. Estimated annual evapotranspiration from the saturated ground-water system equals average annual evapotranspiration for 1984–85 minus annual precipitation for 1984]

Site designation (figure 2 and table 1)	Well number (table 1)	Native high-ground-water plant community (table 3)	Most common plant types		Total vegetative cover (percent)	Range of ground-water levels for 1984 (feet below land surface)	Annual precipitation for 1984 (inches)	Annual evapotranspiration for 1984–85 (inches)			Estimated annual evapotranspiration from the saturated ground-water system for 1984–85 (inches)
			Common name	Percentage of total vegetation				Maximum	Average	Minimum	
A	USGS 1	Alkaline meadow.	Alkali sacaton...	43	42	10.5–15.5	nc	33.6	32.3	30.9	—
			Russian thistle ..	22							
C	USGS 2	Alkaline meadow.	Saltgrass	34	35	10.2–11.4	5.9	21.8	18.5	14.8	12.6
			Rubber rabbitbrush.	25							
E	USGS 3	Alkaline scrub.	Rubber rabbitbrush.	24	26	10.2–10.9	nc	23.6	23.6	23.5	—
			Alkali sacaton...	23							
			Mormon tea	8							
F	USGS 5	Alkaline scrub.	Saltgrass	34	24	8.0–9.0	6.3	18.9	15.2	11.9	8.9
			Greasewood	27							
G	USGS 6	Alkaline meadow.	Saltgrass	30	33	7.1–8.9	nc	25.8	24.3	22.8	—
			Alkali sacaton...	13							
			Rubber rabbitbrush.	9							
J	USGS 7	Alkaline meadow.	Nevada saltbush.	29	50	4.7–7.2	nc	33.0	32.0	31.0	—
			Alkali sacaton...	21							
			Rubber rabbitbrush.	16							
L	USGS 10 ..	Alkaline meadow.	Saltgrass	20	72	.1–3.9	3.1	44.8	40.5	33.1	37.4
			Alkali sacaton...	17							
			Baltic rush	15							

Table 6. Selected surface-water gaging stations and pumped wells in the Owens Valley, California

[Station code and name used by the Los Angeles Department of Water and Power; pumped wells are assigned a station code if well discharge affects a surface-water discharge measurement]

Station code	Station name
ABQG	A Drain above Big Pine Canal.
AGMY	Aberdeen Ditch at Los Angeles Aqueduct.
AHPC	Aberdeen Ditch wells 106, 110–114, 355.
AIRG	Aberdeen–Blackrock bypass ditch at intake.
BALC	Bairs Creek (north fork) at base of mountains.
BAOU	Bairs Creek (south fork) at base of mountains.
BAZW	Bairs Creek at Los Angeles Aqueduct.
BBKY	Bairs Creek well 353.
BBWA	Baker Creek at Los Angeles Aqueduct Station (4-foot flume).
BERW	Big Pine Canal at intake.
BFRS	Big Pine Creek at Cartmell well.
BGNW	Big Pine Creek at U.S. Geological Survey.
BKFW	Birch Creek above mill site.
BKJO	Birch Creek at Tungsten City Road.
BKQY	Birch Creek below highway.
BTTG	Blackrock Ditch at Los Angeles Aqueduct.
CLUA	Coldwater Canyon Creek at end of pipeline.
DKWM	Division Creek below intake (overflow).
DMBW	Division Creek powerhouse no. 1.
DNWY	Division Creek wells 108, 109, 351, 356.
FPGS	Fish Slough at Los Angeles station no. 2.
FPVK	Fish Slough at Owens River.
FXEK	Freeman Creek at Keough.
FZLE	Fuller Creek at Forest Service boundary.
GBUB	George Creek at base of mountains.
GCYT	George Creek at Los Angeles Aqueduct.
GFXM	George Creek wells 76, 343.
GKAX	Giroux Ditch (lower).
GKQG	Giroux Ditch (upper).
GOEI	Goodale Creek at base of mountains.
HCKU	North Haiwee Reservoir inflow.
HTIE	Hogback Creek at base of mountains.
HTXW	Hogback Creek at Los Angeles Aqueduct.
HVSY	Horton Creek above Owens River Canal.
ICPN	Independence Creek at Junction Station.
IDMA	Independence Creek at Los Angeles Aqueduct
KCXC	Keough Hot Springs above diversions.
KXCQ	Klondike Drain at Owens River.
LBOI	Los Angeles Aqueduct at Alabama Gates.
LGUJ	Laws Ditch at railroad.
LMUO	Little Pine Creek at McMurray Meadows Road.
LONX	Lone Pine Creek at base of mountains.
LOXZ	Lone Pine Creek at overhead no. 19.
LZPC	Lubkin Creek at Los Angeles Aqueduct.
LZUD	Lubkin Creek over Los Angeles Aqueduct.
MJAA	McGee Creek at Aberlour Ranch.
MLUA	South (lower) McNally Canal at O.V.P.A. (Owens Valley Protective Association).
MMDA	North (upper) McNally Canal at O.V.P.A. (Owens Valley Protective Association).
OBQD	Oak Creek (north fork) at base of mountains.
OCPK	Oak Creek (south fork) at base of mountains.
OEFN	Oak Creek at Los Angeles Aqueduct.
OLZR	Owens River at Pleasant Valley Reservoir, total.
ONYF	Owens River at Tinemaha Reservoir.
OQFE	Owens River below intake spillgates.
OUKR	Owens Valley runoff.
PXHU	Owens River transit loss, Pleasant Valley Reservoir to Tinemaha Reservoir.
RDQW	Rawson Creek at base of mountains.
RHSG	Red Mountain Creek at Forest Service boundary.
RICU	Red Mountain Creek diversion above station.
SGUQ	Sawmill Creek at base of mountains.
SHAY	Sawmill Creek at Los Angeles Aqueduct.
SHTW	Sawmill Creek wells 155, 159, 339.
SKLG	Shepherd Creek at base of mountains.
SKRO	Shepherd Creek at Los Angeles Aqueduct.
SLQU	Shepherd Creek well 345.
SMJS	Silver Canyon Creek at base of mountains.
SMQA	Silver Canyon Creek at base of mountains, site no. 2.
SMWI	Silver Canyon Creek at old Clark Ranch (at well 251).
SYZS	Symmes Creek at base of mountains.
SZGA	Symmes Creek at Los Angeles Aqueduct.
TAPE	Taboose Creek at base of mountains.
TBLX	Taboose Creek at Owens River.
TCQF	Taboose Creek wells 116, 342, 347.
TERG	Thibaut Creek at intake.
THWP	Tinemaha Creek at Forest Service boundary.
TIEE	Tinemaha Creek at railroad crossing.
TLRC	Tinemaha Reservoir evaporation, including precipitation.
TLYR	Tinemaha Reservoir evaporation pan.
TYEX	Tuttle Creek at Canyon Road.
TZQU	Tuttle Creek flow into Los Angeles Aqueduct.

Table 7. Percent of long-term average annual runoff for the Owens Valley, California, water years 1935–88

[Data for station OUKR (table 6) (M.L. Blevins, Los Angeles Department of Water and Power, written commun., 1988). Average runoff (469,604 acre-feet per year equals 100 percent) was calculated for base period, water years 1935–84]

Water year	Percent of average annual runoff	Water year	Percent of average annual runoff
1935	78	1962	94
1936	94	1963	107
1937	110	1964	69
1938	156	1965	96
1939	92	1966	73
1940	94	1967	141
1941	131	1968	80
1942	114	1969	196
1943	108	1970	99
1944	89	1971	79
1945	114	1972	69
1946	111	1973	106
1947	86	1974	107
1948	67	1975	88
1949	70	1976	64
1950	72	1977	55
1951	80	1978	134
1952	132	1979	98
1953	82	1980	142
1954	80	1981	89
1955	77	1982	143
1956	115	1983	189
1957	91	1984	132
1958	122	1985	98
1959	74	1986	158
1960	58	1987	78
1961	53	1988	68

Table 8. Mean annual discharge at selected gaging stations on the Owens River–Los Angeles Aqueduct system in the Owens Valley, California.

[—, not available. Measured discharge data in acre-feet per year from the Los Angeles Department of Water and Power (M.L. Belvins, written commun., 1988). Values for the Los Angeles Aqueduct at the North Haiwee Reservoir are estimates]

Station name	Station code (table 6)	Water years			
		1935–69	1945–69	1953–69	1970–84
Owens River at the Pleasant Valley Reservoir.	OLZR	250,000	260,000	260,000	330,000
Owens River at the Tinemaha Reservoir.	ONYF	—	—	320,000	390,000
Los Angeles Aqueduct at the Alabama Gates.	LBOI	—	320,000	330,000	450,000
Los Angeles Aqueduct at the North Haiwee Reservoir.	HCKU	320,000	340,000	350,000	480,000

Table 9. Location of wells and values from aquifer tests in the Owens Valley, California

[ft, foot; ft/d, foot per day; ft^2/d, foot squared per day; m, meter; —, not available. Table includes all wells owned or operated, as of 1988, by the Los Angeles Department of Water and Power or the U.S. Geological Survey (USGS); some additional low-capacity agricultural or domestic wells are present in the Owens Valley. Aquifer-test methods are described in text and include distance drawdown (DD); Jacob-Cooper (JC); leaky aquifer (LK); modified Hantush (MH); Neuman (N); specific capacity (SC); and Theis (T). These aquifer-test methods are described in Bear (1979), Driscoll (1986), Hantush (1960), Lohman (1979), Neuman (1975), and Neuman and Witherspoon (1971)]

Well number	Latitude (north)	Longitude (west)	Universal Transverse Mercator (UTM) coordinates (m)		Ground-water flow model		Most recent well depth (ft)	Transmis-sivity (ft^2/d)	Average hori-zontal hydraulic conduc-tivity (ft/d)	Storage coefficient	Aqui-fer test meth-od	Comments
			East	North	Row	Col-umn						
1	36˚47'49"	118˚09'41"	396,385	4,072,776	130	22	314	1,300	4	—	SC	—
2	36˚47'55"	118˚09'51"	396,140	4,072,964	129	21	502	3,000	12	—	SC	—
3	36˚48'10"	118˚09'57"	395,997	4,073,428	128	21	272	—	—	—	—	—
5	36˚48'18"	118˚10'10"	395,678	4,073,679	128	21	146	—	—	—	—	—
7	36˚48'53"	118˚10'34"	395,096	4,074,765	126	21	504	—	—	—	—	—
9	36˚49'16"	118˚10'46"	394,808	4,075,477	125	20	378	—	—	—	—	—
11	36˚42'28"	118˚07'10"	400,012	4,062,840	147	23	301	—	—	—	—	—
12	36˚41'45"	118˚06'31"	400,964	4,061,504	150	23	485	—	—	—	—	—
13	36˚40'41"	118˚05'42"	402,158	4,059,518	153	24	330	—	—	—	—	—
14	36˚49'02"	118˚11'54"	393,118	4,075,067	124	18	231	3,100	14	—	SC	—
15	36˚49'16"	118˚11'37"	393,544	4,075,493	124	18	225	4,300	16	—	SC	—
16	36˚49'29"	118˚11'21"	393,946	4,075,888	124	19	343	2,400	7	—	SC	—
17	36˚47'19"	118˚09'27"	396,721	4,071,848	131	22	399	—	—	—	—	—
18	36˚46'39"	118˚09'21"	396,855	4,070,613	133	21	287	—	—	—	—	—
20	36˚47'05"	118˚09'20"	396,890	4,071,414	132	22	485	—	—	—	—	—
21	36˚42'59"	118˚07'42"	399,229	4,063,805	145	22	177	—	—	—	—	—
22	36˚47'58"	118˚09'55"	396,042	4,073,058	129	21	161	—	—	—	—	—
23	36˚49'22"	118˚11'29"	393,745	4,075,675	124	19	336	—	—	—	—	—
24	36˚46'53"	118˚09'21"	396,860	4,071,045	133	22	368	—	—	—	—	—
25	36˚46'45"	118˚09'21"	396,857	4,070,798	133	21	308	—	—	—	—	—
26	36˚48'05"	118˚10'10"	395,673	4,073,278	129	21	332	—	—	—	—	—
27	36˚46'23"	118˚09'19"	396,899	4,070,120	134	21	310	—	—	—	—	—
28	36˚48'09"	118˚10'22"	395,377	4,073,405	128	20	140	—	—	—	—	—
29	36˚49'36"	118˚11'32"	393,676	4,076,107	123	19	352	—	—	—	—	—
30	36˚48'12"	118˚10'29"	395,205	4,073,500	128	20	220	—	—	—	—	—
31	36˚46'32"	118˚09'20"	396,877	4,070,397	134	21	458	—	—	—	—	—
32	36˚46'10"	118˚09'15"	396,993	4,069,718	135	21	365	—	—	—	—	—
33	36˚48'20"	118˚10'45"	394,811	4,073,751	127	20	370	—	—	—	—	—
34	36˚45'51"	118˚09'13"	397,036	4,069,132	136	21	121	—	—	—	—	—
35	36˚48'31"	118˚10'55"	394,568	4,074,093	127	19	230	—	—	—	—	—
36	36˚49'46"	118˚11'30"	393,729	4,076,415	123	19	458	—	—	—	—	—
37	36˚45'40"	118˚09'16"	396,957	4,068,794	136	21	201	—	—	—	—	—
38	36˚45'50"	118˚09'14"	397,010	4,069,101	136	21	342	—	—	—	—	—
39	36˚49'59"	118˚11'31"	393,709	4,076,816	122	19	603	—	—	—	—	—
40	36˚50'13"	118˚11'34"	393,640	4,077,248	121	19	480	—	—	—	—	—

Table 9. Location of wells and values from aquifer tests in the Owens Valley, California—continued

Well number	Latitude (north)	Longitude (west)	Universal Transverse Mercator (UTM) coordinates (m)		Ground-water flow model		Most recent well depth (ft)	Transmissivity (ft^2/d)	Average horizontal hydraulic conductivity (ft/d)	Storage coefficient	Aquifer test method	Comments
			East	North	Row	Column						
41	36˚45'24"	118˚09'16"	396,951	4,068,301	137	20	130	—	—	—	—	—
42	36˚45'15"	118˚09'12"	397,047	4,068,022	137	20	214	—	—	—	—	—
43	36˚45'26"	118˚09'18"	396,902	4,068,363	137	20	272	—	—	—	—	—
44	36˚50'26"	118˚11'41"	393,472	4,077,651	121	19	500	—	—	—	—	—
44A	36˚47'29"	118˚08'06"	398,733	4,072,132	132	25	—	—	—	—	—	—
45	36˚45'04"	118˚09'01"	397,316	4,067,680	138	21	330	—	—	—	—	—
45A	36˚48'05"	118˚08'26"	398,250	4,073,247	130	25	—	—	—	—	—	—
46	36˚50'27"	118˚12'01"	392,977	4,077,688	120	19	476	—	—	—	—	—
47	37˚14'22"	118˚18'29"	383,975	4,122,036	46	26	703	—	—	—	—	—
48	36˚50'40"	118˚12'03"	392,932	4,078,089	120	19	381	770	2	—	SC	
49	36˚52'23"	118˚13'45"	390,477	4,081,295	113	16	150	—	—	—	—	—
52	36˚52'13"	118˚13'39"	390,592	4,080,985	114	16	126	—	—	—	—	—
53	36˚52'38"	118˚13'57"	390,156	4,081,761	113	16	159	—	—	—	—	—
54	36˚52'50"	118˚14'01"	390,062	4,082,132	112	16	234	—	—	—	—	—
55	36˚52'07"	118˚13'35"	390,688	4,080,799	114	17	183	—	—	—	—	—
56	36˚48'28"	118˚11'17"	394,021	4,074,007	127	18	89	91,000	530	0.047	JC	—
57	36˚48'15"	118˚11'06"	394,289	4,073,603	127	19	347	47,000	144	.0011	JC	—
58	36˚53'03"	118˚14'02"	390,042	4,082,533	111	16	237	—	—	—	—	—
59	36˚48'35"	118˚11'25"	393,826	4,074,226	126	18	277	46,000	180	.0006	JC	—
60	36˚48'03"	118˚10'58"	394,483	4,073,231	128	19	275	44,000	180	.0005	JC	—
61	36˚48'44"	118˚11'34"	393,606	4,074,506	126	18	196	—	—	—	—	—
63	36˚47'51"	118˚10'28"	395,221	4,072,852	129	20	442	—	—	—	—	—
65	36˚48'24"	118˚11'15"	394,069	4,073,883	127	19	345	39,000	120	—	JC	—
66	36˚46'48"	118˚09'49"	396,164	4,070,899	132	20	310	35,000	120	—	JC	—
67	36˚46'35"	118˚09'49"	396,159	4,070,498	133	20	312	—	—	—	—	—
68	36˚47'02"	118˚09'52"	396,095	4,071,331	132	20	378	10,000	29	—	JC	—
69	36˚46'45"	118˚10'08"	395,692	4,070,812	132	20	324	45,000	170	—	JC	—
70	36˚44'37"	118˚09'25"	396,711	4,066,855	139	19	161	—	—	—	—	—
72	36˚44'10"	118˚08'58"	397,370	4,066,015	141	20	301	3,000	46	—	MH	—
73	36˚46'22"	118˚09'53"	396,055	4,070,099	134	20	314	20,000	75	—	SC	—
74	36˚46'12"	118˚09'54"	396,027	4,069,791	134	20	250	—	—	—	—	—
75	36˚43'53"	118˚08'47"	397,637	4,065,488	142	20	287	3,600	14	—	SC	—
76	36˚42'17"	118˚08'06"	398,619	4,062,518	147	20	174	5,100	34	—	JC	—
77	36˚49'00"	118˚11'36"	393,563	4,074,999	125	18	271	—	—	—	—	—
80	36˚43'56"	118˚08'13"	398,481	4,065,570	142	21	443	—	—	—	—	—
81	36˚49'33"	118˚12'42"	391,940	4,076,037	122	16	57	—	—	—	—	—
82	36˚42'03"	118˚07'46"	399,110	4,062,080	148	21	268	7,400	28	.0003	JC	—
83	36˚42'34"	118˚07'52"	398,972	4,063,037	146	21	317	—	—	—	—	—
84	36˚44'17"	118˚08'45"	397,695	4,066,227	141	21	312	—	—	—	—	—
85	36˚49'32"	118˚12'11"	392,708	4,075,996	123	17	261	—	—	—	—	—

Table 9. Location of wells and values from aquifer tests in the Owens Valley, California—continued

Well number	Latitude (north)	Longitude (west)	Universal Transverse Mercator (UTM) coordinates (m)		Ground-water flow model		Most recent well depth (ft)	Transmissivity (ft^2/d)	Average horizontal hydraulic conductivity (ft/d)	Storage coefficient	Aquifer test method	Comments
			East	North	Row	Column						
86	36˚42'51"	118˚08'04"	398,681	4,063,565	145	21	302	—	—	—	—	—
87	36˚41'55"	118˚07'29"	399,529	4,061,829	148	21	195	11,000	63	0.0003	JC	—
88	36˚50'25"	118˚12'53"	391,688	4,077,643	120	17	509	—	—	—	—	—
89	36˚41'45"	118˚07'19"	399,773	4,061,518	149	22	347	14,000	44	.002	JC	—
90	36˚43'12"	118˚08'19"	398,316	4,064,216	144	21	321	—	—	—	—	—
92	36˚45'46"	118˚09'54"	396,017	4,068,990	135	19	332	37,000	130	.00082	JC	—
95	36˚42'05"	118˚07'59"	398,788	4,062,146	147	20	375	7,500	30	.0003	JC	—
96	36˚45'58"	118˚09'54"	396,022	4,069,360	135	19	378	23,000	67	—	JC	—
97	36˚42'48"	118˚08'20"	398,283	4,063,477	145	20	319	24,000	80	.0009	JC	—
98	36˚43'03"	118˚08'16"	398,387	4,063,938	144	21	330	—	—	—	—	—
99	36˚45'22"	118˚10'07"	395,686	4,068,254	136	18	275	32,000	130	—	JC	—
103	36˚53'23"	118˚14'24"	389,505	4,083,157	110	16	260	—	—	—	—	—
104	36˚53'12"	118˚14'19"	389,625	4,082,816	111	16	226	—	—	—	—	—
105	36˚53'26"	118˚14'24"	389,507	4,083,249	110	16	199	—	—	—	—	—
106	36˚58'04"	118˚14'56"	388,827	4,091,826	96	19	145	22,000	260	—	SC	—
108	36˚56'53"	118˚14'54"	388,848	4,089,638	100	18	108	47,000	1,000	.050	DD	—
109	36˚56'55"	118˚14'41"	389,170	4,089,695	100	18	136	320,000	3,600	.11	DD	—
110	36˚58'13"	118˚15'04"	388,633	4,092,106	96	19	174	37,000	370	—	SC	—
111	36˚58'26"	118˚15'18"	388,292	4,092,511	95	18	125	48,000	570	—	SC	—
112	36˚58'27"	118˚14'52"	388,935	4,092,534	95	19	111	—	—	—	—	—
113	36˚58'43"	118˚14'56"	388,842	4,093,028	94	19	107	—	—	—	—	—
114	36˚58'42"	118˚15'10"	388,496	4,093,002	94	19	92	—	—	—	—	—
115	36˚58'34"	118˚14'53"	388,913	4,092,750	95	19	—	—	—	—	—	Never drilled.
116	37˚00'19"	118˚14'06"	390,117	4,095,970	90	23	103	—	—	—	—	—
117	36˚57'49"	118˚15'08"	388,524	4,091,368	97	18	108	5,000	108	—	SC	—
118	37˚03'16"	118˚13'37"	390,904	4,101,416	82	27	156	—	—	—	—	—
121	37˚17'25"	118˚18'46"	383,634	4,127,681	37	28	521	3,100	6	—	SC	—
122	37˚18'06"	118˚18'29"	384,070	4,128,939	36	29	532	5,100	10	—	SC	—
123	37˚18'56"	118˚18'50"	383,575	4,130,487	33	29	564	14,000	24	—	SC	—
124	37˚19'46"	118˚19'15"	382,981	4,132,037	30	29	634	2,200	3	—	SC	—
125	37˚21'03"	118˚19'34"	382,546	4,134,416	26	29	611	17,000	28	—	SC	—
126	37˚20'38"	118˚19'36"	382,486	4,133,646	27	29	581	13,000	24	—	SC	—
127	37˚20'09"	118˚19'29"	382,646	4,132,750	29	29	591	10,000	17	—	SC	—
128	37˚19'22"	118˚18'45"	383,709	4,131,287	32	30	597	7,800	13	—	SC	—
129	37˚18'33"	118˚18'39"	383,836	4,129,774	34	29	599	11,000	19	—	SC	—
130	37˚19'44"	118˚19'15"	382,980	4,131,975	30	29	716	17,000	24	—	SC	—
131	37˚21'21"	118˚19'53"	382,087	4,134,977	25	29	616	—	—	—	SC	—
132	37˚21'39"	118˚20'15"	381,553	4,135,540	24	28	602	17,000	28	—	SC	—
133	37˚22'03"	118˚20'33"	381,121	4,136,286	23	28	490	15,000	31	—	SC	—
134	37˚22'25"	118˚20'29"	381,229	4,136,962	22	29	692	—	—	—	—	—

Table 9. Location of wells and values from aquifer tests in the Owens Valley, California—continued

Well number	Latitude (north)	Longitude (west)	Universal Transverse Mercator (UTM) coordinates (m)		Ground-water flow model		Most recent well depth (ft)	Transmissivity (ft^2/d)	Average horizontal hydraulic conductivity (ft/d)	Storage coefficient	Aquifer test method	Comments
			East	North	Row	Column						
135	37°22'52"	118°21'35"	379,618	4,137,818	20	26	662	4,300	7	—	SC	—
136	37°22'43"	118°20'55"	380,598	4,137,526	20	28	647	13,000	20	—	SC	—
137	37°21'17"	118°25'03"	374,458	4,134,965	22	17	632	5,000	9	—	JC	—
138	37°21'00"	118°24'32"	375,213	4,134,430	23	18	584	5,100	10	—	JC	—
139	37°20'36"	118°24'02"	375,940	4,133,679	24	19	593	8,900	15	—	SC	—
140	37°20'11"	118°24'02"	375,929	4,132,909	26	18	632	6,800	12	—	JC	—
141	37°20'08"	118°23'29"	376,740	4,132,804	26	20	636	5,900	10	—	JC	—
145	37°18'23"	118°22'11"	378,612	4,129,540	32	21	1,187	4,000	1	—	SC	—
147	37°21'42"	118°25'20"	374,052	4,135,742	20	17	484	8,700	18	—	SC	—
148	37°21'52"	118°25'36"	373,663	4,136,056	19	16	353	7,900	23	—	SC	—
149	37°22'18"	118°25'37"	373,650	4,136,858	18	17	656	2,400	4	—	SC	—
150	36°58'48"	118°15'08"	388,548	4,093,186	94	19	—	—	—	—	—	—
151	36°58'35"	118°14'52"	388,938	4,092,780	95	20	89	—	—	—	—	—
154	36°57'50"	118°15'25"	388,104	4,091,404	96	18	81	—	—	—	—	—
155	36°54'59"	118°15'01"	388,628	4,086,127	105	16	259	—	—	—	—	—
156	36°54'50"	118°15'01"	388,625	4,085,850	105	16	—	—	—	—	—	—
157	36°54'39"	118°15'02"	388,595	4,085,511	106	15	—	—	—	—	—	—
158	36°54'29"	118°14'59"	388,666	4,085,202	106	15	173	—	—	—	—	—
159	36°54'14"	118°14'45"	389,006	4,084,735	107	16	435	—	—	—	—	—
160	36°58'16"	118°14'40"	389,227	4,092,191	96	20	113	—	—	—	—	—
161	36°50'00"	118°12'05"	392,867	4,076,857	122	18	—	—	—	—	—	—
164	36°46'26"	118°09'58"	395,933	4,070,224	133	20	88	—	—	—	—	—
165	36°46'56"	118°10'06"	395,746	4,071,151	132	20	96	39,000	790	0.0074	JC	—
166	36°46'54"	118°10'06"	395,745	4,071,089	132	20	87	120,000	3,300	.046	JC	—
169	36°43'49"	118°09'24"	396,717	4,065,376	141	19	215	—	—	—	—	—
170	36°46'17"	118°09'58"	395,930	4,069,947	134	20	90	—	—	—	—	—
172	36°36'14"	118°03'14"	405,741	4,051,250	168	26	59	—	—	—	—	—
175	36°46'37"	118°09'55"	396,012	4,070,562	133	20	109	94,000	960	.0042	JC	—
201	37°21'43"	118°23'06"	377,349	4,135,724	22	22	144	8,700	63	—	SC	—
202	37°22'09"	118°23'06"	377,360	4,136,525	21	22	544	—	—	—	—	—
203	37°09'25"	118°16'36"	386,636	4,112,845	62	25	228	8,200	46	—	SC	—
204	37°09'04"	118°16'34"	386,676	4,112,197	63	25	206	—	—	—	—	—
205	37°09'52"	118°16'40"	386,548	4,113,678	61	26	350	—	—	—	—	—
206	37°04'46"	118°15'19"	388,421	4,104,222	76	24	58	52,000	540	—	SC	—
207	37°22'30"	118°22'59"	377,542	4,137,170	20	23	174	20,000	27	—	JC	—
208	37°22'49"	118°23'26"	376,886	4,137,765	18	22	292	10,000	37	.00073	JC	—
210	37°10'13"	118°16'54"	386,212	4,114,330	60	26	352	6,300	15	—	SC	—
211	37°10'02"	118°16'48"	386,355	4,113,989	60	26	416	5,900	16	—	SC	—
212	37°09'37"	118°16'38"	386,591	4,113,216	62	26	221	6,800	38	—	SC	—
216	37°08'12"	118°16'22"	386,951	4,110,591	66	25	112	270,000	5,400	.062	JC	—

Table 9. Location of wells and values from aquifer tests in the Owens Valley, California—continued

Well number	Latitude (north)	Longitude (west)	Universal Transverse Mercator (UTM) coordinates (m)		Ground-water flow model		Most recent well depth (ft)	Transmissivity (ft^2/d)	Average horizontal hydraulic conductivity (ft/d)	Storage coefficient	Aquifer test method	Comments
			East	North	Row	Column						
217	37°07'51"	118°16'07"	387,312	4,109,939	67	25	78	290,000	6,000	0.062	JC	—
218	37°04'31"	118°15'24"	388,292	4,103,761	77	24	168	—	—	—	—	—
219	37°05'07"	118°15'22"	388,356	4,104,870	75	24	225	1,100,000	7,300	.0027	JC	—
220	37°08'39"	118°16'43"	386,444	4,111,430	64	25	152	76,000	2,100	—	SC	—
221	37°07'27"	118°15'49"	387,747	4,109,193	68	25	78	—	—	—	—	—
222	37°07'06"	118°15'34"	388,108	4,108,541	70	26	90	160,000	3,800	—	SC	—
223	37°06'40"	118°15'18"	388,493	4,107,735	71	26	159	—	—	—	—	—
224	37°06'15"	118°15'12"	388,630	4,106,962	72	26	322	230,000	800	.0028	JC	—
227	37°08'29"	118°16'34"	386,662	4,111,119	65	25	110	190,000	3,800	.013	JC	—
228	37°08'22"	118°16'29"	386,782	4,110,901	65	25	106	240,000	15,000	.041	JC	—
229	37°08'01"	118°16'14"	387,144	4,110,249	66	25	127	1,000,000	12,000	—	JC	—
230	37°07'40"	118°15'59"	387,505	4,109,597	68	25	139	—	—	—	—	—
231	37°07'14"	118°15'40"	387,963	4,108,790	69	26	120	23,000	360	—	SC	—
232	37°06'48"	118°15'24"	388,348	4,107,983	71	26	140	82,000	870	—	SC	—
233	37°06'28"	118°15'11"	388,660	4,107,363	72	26	49	210,000	2,000	.0019	JC	—
234	37°23'17"	118°24'07"	375,891	4,138,643	16	21	648	3,200	5	—	SC	—
235	37°22'46"	118°24'08"	375,852	4,137,688	18	20	264	10,000	39	—	JC	—
236	37°24'57"	118°20'04"	381,910	4,141,638	15	32	498	34,000	77	—	SC	—
237	37°23'27"	118°24'36"	375,182	4,138,962	16	20	518	2,500	5	—	SC	—
238	37°23'41"	118°24'54"	374,746	4,139,400	15	20	616	10,000	18	—	T	—
239	37°24'32"	118°20'18"	381,555	4,140,872	16	31	424	12,000	33	—	SC	—
240	37°24'08"	118°20'10"	381,741	4,140,130	17	31	609	5,500	10	—	SC	—
241	37°23'44"	118°19'52"	382,174	4,139,384	18	31	604	17,000	31	—	JC	—
242	37°23'31"	118°19'19"	382,979	4,138,972	19	32	438	12,000	33	—	SC	—
243	37°25'20"	118°19'54"	382,166	4,142,343	14	33	504	—	—	—	—	—
244	37°25'48"	118°20'07"	381,859	4,143,211	12	33	548	20,000	41	—	SC	—
245	37°26'16"	118°20'20"	381,552	4,144,078	11	32	324	7,200	25	—	JC	—
246	37°26'05"	118°20'52"	380,760	4,143,750	11	31	399	12,000	32	.002	JC	—
247	37°26'11"	118°21'32"	379,780	4,143,949	10	30	378	23,000	65	—	DD	—
248	37°25'51"	118°22'02"	379,034	4,143,344	11	28	602	98,000	169	.002	DD	—
249	37°25'38"	118°22'45"	377,971	4,142,958	11	26	500	22,000	47	—	SC	—
250	37°24'01"	118°20'31"	381,222	4,139,922	17	30	112	—	—	—	—	—
251	37°25'16"	118°19'24"	382,902	4,142,210	14	34	178	59,000	613	.0026	DD	—
252	37°27'20"	118°20'51"	380,818	4,146,061	7	32	192	30,000	215	—	SC	—
253	37°27'08"	118°20'44"	380,985	4,145,689	8	32	97	—	—	—	—	—
255	36°35'54"	118°04'10"	404,343	4,050,649	168	23	129	—	—	—	—	—
256	36°36'57"	118°04'20"	404,116	4,052,593	165	24	41	—	—	—	—	—
257	36°45'59"	118°10'32"	395,080	4,069,402	134	18	95	—	—	—	—	—
258	36°38'53"	118°05'05"	403,039	4,056,180	159	24	141	—	—	—	—	—
259	36°57'02"	118°14'52"	388,901	4,089,914	99	18	113	—	—	—	—	—

Table 9. Location of wells and values from aquifer tests in the Owens Valley, California—continued

Well number	Latitude (north)	Longitude (west)	Universal Transverse Mercator (UTM) coordinates (m)		Ground-water flow model		Most recent well depth (ft)	Transmissivity (ft^2/d)	Average horizontal hydraulic conductivity (ft/d)	Storage coefficient	Aquifer test method	Comments
			East	North	Row	Column						
260	37°03'56"	118°14'12"	390,056	4,102,659	80	26	110	—	—	—	—	—
262	37°26'43"	118°20'47"	380,900	4,144,920	9	32	97	—	—	—	—	—
265	37°27'44"	118°20'51"	380,829	4,146,801	6	33	95	—	—	—	—	—
266	37°27'35"	118°20'56"	380,702	4,146,525	6	32	53	—	—	—	—	—
269	37°26'07"	118°21'30"	379,827	4,143,825	10	30	100	28,000	374	0.006	LK	—
270	37°26'00"	118°20'16"	381,643	4,143,584	11	32	104	—	—	—	—	—
271	37°25'28"	118°20'46"	380,892	4,142,608	13	31	113	32,000	353	.00036	JC	—
272	37°25'13"	118°19'36"	382,606	4,142,121	14	33	76	—	—	—	—	—
274	37°28'09"	118°21'04"	380,520	4,147,576	5	33	250	—	—	—	—	—
275	37°26'39"	118°20'52"	380,775	4,144,798	9	32	98	—	—	—	—	—
276	37°27'41"	118°20'45"	380,975	4,146,707	6	33	79	—	—	—	—	—
277	37°22'26"	118°29'21"	368,144	4,137,189	15	8	365	—	—	—	—	—
278	37°22'56"	118°29'48"	367,495	4,138,124	13	8	488	—	—	—	—	—
279	37°22'35"	118°26'40"	372,109	4,137,405	17	14	536	—	—	—	—	—
280	37°22'05"	118°27'41"	370,594	4,136,504	17	12	513	—	—	—	—	—
281	37°23'07"	118°28'13"	369,836	4,138,427	14	11	—	—	—	—	—	—
282	37°22'04"	118°27'52"	370,323	4,136,477	17	11	—	—	—	—	—	—
284	37°29'58"	118°20'49"	380,937	4,150,930	1	35	—	—	—	—	—	—
286	37°26'17"	118°20'25"	381,429	4,144,111	11	32	122	—	—	—	—	—
287	37°16'26"	118°21'55"	378,954	4,125,929	38	20	69	—	—	—	—	—
288	37°23'42"	118°19'42"	382,419	4,139,319	19	32	101	—	—	—	—	—
289	37°26'10"	118°22'54"	377,764	4,143,948	9	26	64	—	—	—	—	—
290	37°25'42"	118°21'38"	379,620	4,143,058	11	29	147	74,000	561	.001	DD	—
291	37°28'55"	118°21'19"	380,172	4,148,999	2	33	—	—	—	—	—	—
292	37°20'01"	118°22'35"	378,065	4,132,569	27	21	500	—	—	—	—	—
294	37°05'06"	118°15'12"	388,602	4,104,836	76	25	181	—	—	—	—	—
295	37°10'15"	118°16'21"	387,026	4,114,381	60	27	618	—	—	—	—	—
296	37°12'58"	118°19'14"	382,830	4,119,463	50	23	351	—	—	—	—	—
297	37°09'30"	118°17'33"	385,232	4,113,018	61	23	70	—	—	—	—	—
298	37°11'19"	118°19'22"	382,590	4,116,414	55	21	224	—	—	—	—	—
299	37°09'21"	118°17'17"	385,623	4,112,736	62	24	111	—	—	—	—	—
304	36°59'58"	118°12'31"	392,457	4,095,293	92	26	—	—	—	—	—	—
316	37°18'26"	118°18'38"	383,857	4,129,558.	35	29	—	—	—	—	—	—
324	37°22'03"	118°21'55"	379,104	4,136,315	22	25	157	4,800	36	—	SC	—
327	36°48'19"	118°07'04"	400,287	4,073,654	130	28	101	—	—	—	—	—
328	36°48'01"	118°08'10"	398,645	4,073,119	130	25	79	—	—	—	—	—
329	37°05'50"	118°15'28"	388,225	4,106,197	73	25	100	—	—	—	—	—
330	37°05'45"	118°15'35"	388,050	4,106,045	73	24	198	—	—	—	—	—
331	37°05'46"	118°15'21"	388,396	4,106,072	74	25	303	230,000	850	—	JC	—
332	37°05'44"	118°15'32"	388,124	4,106,013	74	25	117	1,200,000	19,000	—	JC	—

Table 9. Location of wells and values from aquifer tests in the Owens Valley, California—continued

Well number	Latitude (north)	Longitude (west)	Universal Transverse Mercator (UTM) coordinates (m)		Ground-water flow model		Most recent well depth (ft)	Transmissivity (ft^2/d)	Average horizontal hydraulic conductivity (ft/d)	Storage coefficient	Aquifer test method	Comments
			East	North	Row	Column						
333	36˚50'13"	118˚13'29"	390,792	4,077,284	120	15	219	—	—	—	—	—
339	36˚55'09"	118˚15'07"	388,484	4,086,437	104	16	140	—	—	—	—	—
341	37˚09'09"	118˚18'14"	384,212	4,112,385	62	21	695	540	1	—	JC	—
342	36˚59'52"	118˚14'22"	389,711	4,095,143	91	22	239	540,000	3,200	—	JC	—
343	36˚41'42"	118˚09'15"	396,894	4,061,460	148	17	531	5,300	10	—	JC	—
344	36˚36'16"	118˚04'09"	404,375	4,051,326	167	24	354	28,000	100	0.00001	T	—
345	36˚44'23"	118˚09'48"	396,135	4,066,431	139	18	386	5,300	15	—	JC	—
346	36˚36'17"	118˚04'06"	404,450	4,051,356	167	24	430	—	—	—	—	—
347	36˚59'51"	118˚14'58"	388,821	4,095,124	91	20	226	170,000	1,200	—	SC	—
348	36˚41'46"	118˚07'19"	399,774	4,061,549	149	22	429	13,000	33	—	JC	—
349	37˚00'59"	118˚13'38"	390,825	4,097,194	89	25	144	78,000	670	—	JC	—
351	36˚55'42"	118˚14'03"	390,081	4,087,433	104	19	115	56,000	940	—	SC	—
352	37˚09'53"	118˚17'14"	385,710	4,113,721	60	24	596	26,000	51	—	JC	—
353	36˚43'05"	118˚09'28"	396,602	4,064,021	143	18	570	2,700	5	.0004	JC	—
354	37˚24'11"	118˚20'36"	381,104	4,140,231	16	30	200	—	—	—	—	—
355	36˚58'48"	118˚13'37"	390,798	4,093,157	95	23	194	33,000	193		JC	—
356	36˚55'49"	118˚13'59"	390,182	4,087,648	103	19	158	280,000	2,600	—	JC	—
357	36˚47'54"	118˚12'15"	392,571	4,072,978	128	16	598	7,900	16	—	JC	—
362	37˚00'25"	118˚13'45"	390,639	4,096,148	90	24	162	—	—	—	—	—
363	37˚02'34"	118˚12'50"	392,049	4,100,106	85	28	53	—	—	—	—	—
364	37˚01'43"	118˚13'08"	391,584	4,098,540	87	26	60	—	—	—	—	—
365	37˚25'10"	118˚19'28"	382,801	4,142,026	14	33	388	10,000	34	—	JC	—
366	36˚55'37"	118˚12'38"	392,182	4,087,252	105	22	210	—	—	—	—	—
367	36˚51'29"	118˚10'54"	394,660	4,079,578	118	22	210	—	—	—	—	—
368	36˚46'12"	118˚07'30"	399,597	4,069,749	136	25	202	—	—	—	—	—
369	36˚43'17"	118˚05'52"	401,965	4,064,328	146	26	204	170	1	—	SC	—
370	36˚56'55"	118˚14'59"	388,725	4,089,701	99	18	266	33,000	—	—	DD	—
371	37˚22'51"	118˚23'31"	376,764	4,137,828	18	22	229	7,100	32	—	JC	—
374	37˚08'40"	118˚15'03"	388,912	4,111,428	65	28	—	9,800	24	—	JC	—
375EM	37˚08'29"	118˚15'02"	388,932	4,111,088	66	28	—	11,000	25	—	JC	—
376EM	37˚23'29"	118˚19'47"	382,290	4,138,920	19	31	—	—	—	—	—	—
377EM	37˚23'16"	118˚19'36"	382,555	4,138,516	20	31	—	—	—	—	—	—
378EM	37˚10'31"	118˚17'16"	385,677	4,114,892	58	25	—	—	—	—	—	—
379EM	37˚10'28"	118˚17'10"	385,823	4,114,798	59	25	—	—	—	—	—	—
380EM	36˚55'32"	118˚13'33"	390,819	4,087,116	104	20	—	—	—	—	—	—
381EM	36˚55'23"	118˚13'27"	390,964	4,086,836	105	20	—	—	—	—	—	—
382EM	36˚52'15"	118˚13'31"	390,790	4,081,044	114	17	—	—	—	—	—	—
383EM	36˚48'27"	118˚11'44"	393,352	4,073,985	126	17	—	—	—	—	—	—
384EM	36˚47'59"	118˚11'24"	393,837	4,073,116	128	18	—	—	—	—	—	—
385EM	37˚25'07"	118˚24'06"	375,966	4,142,032	11	23	—	—	—	—	—	—

Table 9. Location of wells and values from aquifer tests in the Owens Valley, California—continued

Well number	Latitude (north)	Longitude (west)	Universal Transverse Mercator (UTM) coordinates (m)		Ground-water flow model		Most recent well depth (ft)	Transmis-sivity (ft^2/d)	Average hori-zontal hydraulic conduc-tivity (ft/d)	Storage coefficient	Aqui-fer test meth-od	Comments
			East	North	Row	Col-umn						
386EM	37°25'02"	118°24'06"	375,964	4,141,878	11	23	—	—	—	—	—	—
387EM	37°26'25"	118°20'24"	381,457	4,144,357	10	32	—	—	—	—	—	—
388EM	37°26'11"	118°20'22"	381,500	4,143,925	11	32	—	—	—	—	—	—
389EM	37°10'34"	118°17'23"	385,505	4,114,987	58	25	—	—	—	—	—	—
390EM	36°36'07"	118°03'08"	405,888	4,051,032	168	26	—	—	—	—	—	—
1T	36°46'55"	118°13'34"	390,590	4,071,184	129	12	914	—	—	—	—	—
4T	36°51'02"	118°12'02"	392,966	4,078,767	119	19	—	—	—	—	—	—
23T	36°49'26"	118°11'26"	393,820	4,075,797	124	19	13	—	—	—	—	—
24T	36°46'48"	118°09'15"	397,007	4,070,889	133	22	13	—	—	—	—	—
52T	36°52'14"	118°13'36"	390,666	4,081,015	114	17	14	—	—	—	—	—
107T	37°27'19"	118°21'36"	379,712	4,146,047	7	31	39	—	—	—	—	Reconstructed 1961.
108T	37°22'35"	118°25'47"	373,412	4,137,385	17	16	9	—	—	—	—	—
110T	37°24'30"	118°25'47"	373,466	4,140,929	12	18	23	—	—	—	—	—
110AT	37°24'30"	118°25'47"	373,466	4,140,929	12	18	53	—	—	—	—	—
136AT	36°44'07"	118°08'54"	397,468	4,065,921	141	20	19	—	—	—	—	—
232T	37°10'10"	118°16'19"	387,074	4,114,226	60	27	8	—	—	—	—	—
276T	37°28'11"	118°21'54"	379,293	4,147,656	4	31	6	—	—	—	—	—
302T	37°05'53"	118°15'27"	388,251	4,106,289	73	25	31	—	—	—	—	—
304T	37°22'26"	118°22'59"	377,540	4,137,046	20	23	7	—	—	—	—	Destroyed.
305AT	37°22'44"	118°23'27"	376,860	4,137,611	19	22	7	—	—	—	—	—
306AT	37°22'39"	118°24'11"	375,775	4,137,473	18	20	8	—	—	—	—	—
307T	37°23'15"	118°24'07"	375,890	4,138,581	17	21	7	—	—	—	—	Destroyed 1976.
308T	37°23'27"	118°24'33"	375,256	4,138,960	16	20	6	—	—	—	—	—
309T	37°23'43"	118°24'58"	374,649	4,139,463	15	19	23	—	—	—	—	—
310T	37°25'36"	118°22'50"	377,847	4,142,899	11	26	10	—	—	—	—	Destroyed 1976.
311T	37°25'52"	118°22'07"	378,911	4,143,376	11	28	29	—	—	—	—	Destroyed 1981.
312AT	37°26'12"	118°21'31"	379,805	4,143,980	10	30	7	—	—	—	—	—
313T	37°26'04"	118°20'57"	380,637	4,143,721	11	31	14	—	—	—	—	—
314T	37°17'19"	118°18'53"	383,459	4,127,499	38	28	4	—	—	—	—	—
315T	37°17'59"	118°18'29"	384,067	4,128,723	36	29	8	—	—	—	—	—
316T	37°18'28"	118°18'37"	383,883	4,129,620	34	29	8	—	—	—	—	Destroyed 1975.
317T	37°18'53"	118°18'51"	383,549	4,130,395	33	29	9	—	—	—	—	—
319T	37°19'40"	118°19'23"	382,781	4,131,854	30	29	12	—	—	—	—	—
320T	37°20'04"	118°19'28"	382,669	4,132,596	29	29	7	—	—	—	—	—
321T	37°20'35"	118°19'35"	382,510	4,133,554	28	29	9	—	—	—	—	—
322T	37°20'59"	118°19'34"	382,545	4,134,293	26	29	7	—	—	—	—	—
323T	37°21'18"	118°19'52"	382,110	4,134,885	25	29	5	—	—	—	—	—
324T	37°21'36"	118°20'14"	381,577	4,135,447	24	28	8	—	—	—	—	—
325T	37°22'00"	118°20'33"	381,120	4,136,193	23	28	5	—	—	—	—	—

Table 9. Location of wells and values from aquifer tests in the Owens Valley, California—continued

Well number	Latitude (north)	Longitude (west)	Universal Transverse Mercator (UTM) coordinates (m)		Ground-water flow model		Most recent well depth (ft)	Transmissivity (ft^2/d)	Average horizontal hydraulic conductivity (ft/d)	Storage coefficient	Aquifer test method	Comments
			East	North	Row	Column						
326T	37°22'23"	118°20'23"	381,376	4,136,899	22	29	4	—	—	—	—	—
328T	37°28'44"	118°21'49"	379,430	4,148,671	2	31	22	—	—	—	—	—
329T	37°22'53"	118°21'39"	379,520	4,137,850	19	26	—	—	—	—	—	Destroyed.
330T	37°22'46"	118°20'50"	380,722	4,137,617	20	28	6	—	—	—	—	—
333T	37°21'46"	118°25'23"	373,980	4,135,866	20	17	12	—	—	—	—	Destroyed.
333AT	37°21'46"	118°25'23"	373,980	4,135,866	20	17	—	—	—	—	—	—
334T	37°21'15"	118°24'59"	374,556	4,134,902	22	17	7	—	—	—	—	—
335T	37°18'23"	118°22'04"	378,784	4,129,538	32	21	10	—	—	—	—	—
336T	37°20'58"	118°24'24"	375,409	4,134,365	23	18	8	—	—	—	—	—
337T	37°21'54"	118°25'30"	373,811	4,136,115	19	17	4	—	—	—	—	—
338T	37°22'21"	118°25'41"	373,553	4,136,952	18	17	2	—	—	—	—	—
345T	36°48'18"	118°07'14"	400,039	4,073,627	130	28	—	—	—	—	—	—
346T	36°48'05"	118°08'01"	398,870	4,073,240	130	26	—	—	—	—	—	—
347T	36°32'06"	118°01'57"	407,572	4,043,587	181	25	22	—	—	—	—	—
348T	36°32'28"	118°01'08"	408,798	4,044,252	180	27	810	—	—	—	—	Refer Meyer well log.
360T	36°36'20"	118°04'13"	404,277	4,051,451	167	24	106	—	—	—	—	—
361T	36°36'14"	118°04'11"	404,325	4,051,265	167	24	45	—	—	—	—	—
362T	36°41'49"	118°09'03"	397,194	4,061,672	147	18	80	—	—	—	—	—
363T	36°41'49"	118°09'08"	397,070	4,061,673	147	17	80	—	—	—	—	—
364T	36°43'52"	118°09'22"	396,768	4,065,468	141	19	150	—	—	—	—	—
365T	36°44'23"	118°09'54"	395,986	4,066,432	139	18	—	—	—	—	—	Destroyed.
372T	37°23'46"	118°24'59"	374,626	4,139,556	14	19	77	—	—	—	—	—
373T	37°23'44"	118°25'02"	374,551	4,139,495	15	19	53	—	—	—	—	—
374T	36°50'26"	118°09'34"	396,618	4,077,612	122	24	63	—	—	—	—	—
375T	36°50'26"	118°09'25"	396,841	4,077,609	122	25	53	—	—	—	—	—
376T	36°55'44"	118°12'05"	393,001	4,087,458	105	23	64	—	—	—	—	—
377T	36°55'45"	118°11'48"	393,422	4,087,483	105	24	53	—	—	—	—	—
378T	36°37'30"	118°01'24"	408,499	4,053,562	166	31	37	—	—	—	—	—
379T	36°42'51"	118°04'05"	404,610	4,063,497	148	30	74	—	—	—	—	—
380T	36°55'45"	118°12'08"	392,927	4,087,489	105	23	42	—	—	—	—	—
381T	36°55'45"	118°11'43"	393,546	4,087,482	105	24	52	—	—	—	—	—
382T	36°50'26"	118°09'40"	396,469	4,077,614	122	24	73	—	—	—	—	—
383T	36°50'26"	118°09'18"	397,014	4,077,607	122	25	65	—	—	—	—	—
384T	37°23'27"	118°25'02"	374,543	4,138,971	15	19	79	—	—	—	—	—
385T	37°23'36"	118°24'56"	374,695	4,139,246	15	19	191	12,000	72	—	T	—
386T	37°19'58"	118°23'40"	376,464	4,132,500	26	19	98	—	—	—	—	—
387T	37°21'08"	118°24'37"	375,094	4,134,678	22	18	198	—	—	—	—	—
388T	37°21'00"	118°24'33"	375,188	4,134,430	23	18	145	—	—	—	—	—
389T	37°21'14"	118°25'14"	374,186	4,134,877	22	17	81	—	—	—	—	—
390T	37°21'45"	118°25'48"	373,364	4,135,845	20	16	80	—	—	—	—	—

Table 9. Location of wells and values from aquifer tests in the Owens Valley, California—continued

Well number	Latitude (north)	Longitude (west)	Universal Transverse Mercator (UTM) coordinates (m)		Ground-water flow model		Most recent well depth (ft)	Transmissivity (ft^2/d)	Average horizontal hydraulic conductivity (ft/d)	Storage coefficient	Aquifer test method	Comments
			East	North	Row	Column						
391T	37˚22'10"	118˚26'40"	372,097	4,136,635	18	14	70	—	—	—	—	—
392T	37˚22'40"	118˚24'39"	375,087	4,137,514	18	19	111	—	—	—	—	—
393T	36˚39'24"	118˚05'31"	402,404	4,057,142	157	24	49	—	—	—	—	Skinner #4.
394T	36˚39'18"	118˚05'29"	402,451	4,056,957	157	24	62	—	—	—	—	Skinner #3.
395T	36˚39'20"	118˚05'33"	402,353	4,057,019	157	23	72	—	—	—	—	Skinner #2.
396T	36˚39'22"	118˚05'28"	402,478	4,057,080	157	24	70	—	—	—	—	Skinner #1.
398T	36˚42'11"	118˚07'30"	399,510	4,062,322	148	22	20	—	—	—	—	—
399T	36˚42'11"	118˚07'13"	399,932	4,062,317	148	22	20	—	—	—	—	—
400T	36˚42'34"	118˚06'58"	400,312	4,063,022	147	23	21	—	—	—	—	—
401T	36˚44'09"	118˚08'55"	397,444	4,065,983	141	20	21	—	—	—	—	Deepened to 42 ft in 1977.
402T	36˚43'56"	118˚08'01"	398,779	4,065,567	142	22	20	—	—	—	—	Deepened to 42 ft in 1977.
403T	36˚44'55"	118˚09'04"	397,238	4,067,404	138	20	21	—	—	—	—	Deepened to 42 ft in 1977.
404T	36˚45'16"	118˚09'14"	396,998	4,068,054	137	20	20	—	—	—	—	—
405T	36˚47'54"	118˚08'55"	397,527	4,072,917	130	23	20	—	—	—	—	—
406T	36˚48'03"	118˚08'25"	398,274	4,073,185	130	25	21	—	—	—	—	—
407T	36˚47'54"	118˚09'47"	396,239	4,072,932	129	21	20	—	—	—	—	Deepened to 42 ft in 1977.
408T	36˚48'41"	118˚10'28"	395,240	4,074,393	127	21	21	—	—	—	—	—
409T	36˚48'34"	118˚10'46"	394,792	4,074,183	127	20	21	—	—	—	—	Deepened to 42 ft in 1977.
410T	36˚48'18"	118˚11'26"	393,794	4,073,702	127	18	21	—	—	—	—	—
411T	36˚50'05"	118˚11'31"	393,712	4,077,001	122	19	20	—	—	—	—	—
412T	36˚49'45"	118˚11'27"	393,803	4,076,383	123	19	20	—	—	—	—	—
413T	36˚53'05"	118˚14'04"	389,993	4,082,596	111	16	20	—	—	—	—	Deepened to 42 ft in 1977.
414T	36˚53'07"	118˚14'07"	389,920	4,082,658	111	16	20	—	—	—	—	—
415T	36˚55'29"	118˚13'51"	390,372	4,087,029	104	19	21	—	—	—	—	Deepened to 42 ft in 1977.
416T	36˚55'44"	118˚13'44"	390,552	4,087,489	104	19	20	—	—	—	—	Deepened to 23 ft in 1977.
417T	36˚56'51"	118˚14'12"	389,886	4,089,563	100	19	21	—	—	—	—	Deepened to 63 ft in 1977.
418T	36˚58'26"	118˚13'02"	391,654	4,092,468	96	24	21	—	—	—	—	Deepened to 42 ft in 1977.
419T	36˚58'26"	118˚13'21"	391,185	4,092,474	96	23	24	—	—	—	—	Deepened to 29 ft in 1977.
420T	37˚00'03"	118˚13'12"	391,445	4,095,460	92	25	20	—	—	—	—	—
421T	37˚00'33"	118˚13'49"	390,543	4,096,396	90	24	21	—	—	—	—	Deepened to 65 ft in 1977.
422T	37˚05'40"	118˚14'43"	389,332	4,105,874	74	26	20	—	—	—	—	—
423T	37˚05'26"	118˚14'26"	389,746	4,105,437	75	27	21	—	—	—	—	—

Table 9. Location of wells and values from aquifer tests in the Owens Valley, California—continued

Well number	Latitude (north)	Longitude (west)	Universal Transverse Mercator (UTM) coordinates (m)		Ground-water flow model		Most recent well depth (ft)	Transmissivity (ft^2/d)	Average horizontal hydraulic conductivity (ft/d)	Storage coefficient	Aquifer test method	Comments
			East	North	Row	Column						
424T	37˚05'17"	118˚14'09"	390,162	4,105,155	76	27	20	—	—	—	—	—
425T	37˚06'32"	118˚14'55"	389,057	4,107,481	72	27	21	—	—	—	—	Deepened to 42 ft in 1977.
426T	37˚06'51"	118˚14'34"	389,583	4,108,059	71	28	21	—	—	—	—	—
427T	37˚07'11"	118˚14'12"	390,134	4,108,669	70	29	21	—	—	—	—	—
428T	37˚10'16"	118˚16'03"	387,471	4,114,406	60	28	21	—	—	—	—	Deepened to 41 ft in 1977.
429T	37˚10'20"	118˚15'44"	387,941	4,114,523	60	28	21	—	—	—	—	—
430T	37˚20'08"	118˚23'29"	376,740	4,132,804	26	20	22	—	—	—	—	Deepened to 42 ft in 1977.
431T	37˚20'14"	118˚24'00"	375,979	4,133,000	25	18	21	—	—	—	—	Deepened to 26 ft in 1977.
431AT	37˚20'14"	118˚24'00"	375,979	4,133,000	25	18	—	—	—	—	—	—
432T	37˚21'46"	118˚22'58"	377,547	4,135,813	22	22	21	—	—	—	—	—
433T	37˚23'50"	118˚21'17"	380,086	4,139,599	17	28	21	—	—	—	—	—
433AT	37˚23'50"	118˚21'17"	380,086	4,139,599	17	28	—	—	—	—	—	—
434T	37˚23'52"	118˚21'07"	380,333	4,139,657	17	28	21	—	—	—	—	—
435T	37˚25'03"	118˚21'36"	379,651	4,141,855	13	28	21	—	—	—	—	Deepened to 54 ft in 1977.
436T	37˚24'56"	118˚21'38"	379,599	4,141,640	14	28	21	—	—	—	—	—
437T	37˚24'47"	118˚21'41"	379,521	4,141,364	14	28	21	—	—	—	—	Deepened to 53 ft in 1978.
438T	37˚25'12"	118˚23'19"	377,124	4,142,169	12	25	21	—	—	—	—	—
439T	37˚25'08"	118˚23'37"	376,679	4,142,053	12	24	10	—	—	—	—	—
440T	36˚46'59"	118˚08'43"	397,804	4,071,218	133	23	21	—	—	—	—	—
441T	36˚46'14"	118˚08'30"	398,110	4,069,828	135	23	21	—	—	—	—	—
442T	36˚44'23"	118˚06'41"	400,773	4,066,376	142	25	21	—	—	—	—	Deepened to 42 ft in 1977.
443T	36˚44'23"	118˚07'48"	399,111	4,066,395	141	23	21	—	—	—	—	—
444T	36˚42'32"	118˚06'08"	401,552	4,062,946	148	25	21	—	—	—	—	—
445T	36˚40'38"	118˚05'36"	402,306	4,059,424	153	25	21	—	—	—	—	—
446T	36˚39'01"	118˚04'51"	403,389	4,056,422	159	25	21	—	—	—	—	—
447T	36˚47'04"	118˚09'48"	396,195	4,071,392	132	21	21	—	—	—	—	Deepened to 63 ft in 1977.
448T	36˚47'51"	118˚07'57"	398,964	4,072,807	131	26	21	—	—	—	—	—
449T	36˚45'55"	118˚07'26"	399,690	4,069,224	137	25	20	—	—	—	—	Deepened to 42 ft in 1977.
450T	36˚49'38"	118˚08'58"	397,492	4,076,122	125	25	21	—	—	—	—	—
451T	36˚49'21"	118˚09'34"	396,593	4,075,609	125	23	20	—	—	—	—	—
452T	36˚49'53"	118˚12'19"	392,518	4,076,646	122	17	21	—	—	—	—	—
453T	36˚50'56"	118˚12'27"	392,344	4,078,590	119	18	21	—	—	—	—	—
454T	36˚53'58"	118˚14'04"	390,014	4,084,229	109	17	21	—	—	—	—	—
455T	36˚57'16"	118˚12'53"	391,849	4,090,308	100	23	21	—	—	—	—	—
456T	36˚57'36"	118˚12'03"	393,094	4,090,908	100	25	21	—	—	—	—	—

Table 9. Location of wells and values from aquifer tests in the Owens Valley, California—continued

Well number	Latitude (north)	Longitude (west)	Universal Transverse Mercator (UTM) coordinates (m)		Ground-water flow model		Most recent well depth (ft)	Transmis-sivity (ft^2/d)	Average hori-zontal hydraulic conduc-tivity (ft/d)	Storage coefficient	Aqui-fer test meth-od	Comments
			East	North	Row	Col-umn						
457T	36˚56'17"	118˚11'37"	393,706	4,088,466	104	25	21	—	—	—	—	Deepened to 32 ft in 1977.
458T	36˚54'57"	118˚11'46"	393,453	4,086,003	107	23	20	—	—	—	—	—
459T	36˚53'15"	118˚12'03"	392,993	4,082,866	112	21	21	—	—	—	—	—
460T	36˚53'19"	118˚12'57"	391,657	4,083,006	111	19	21	—	—	—	—	Deepened to 42 ft in 1977.
461T	36˚52'35"	118˚12'20"	392,556	4,081,638	114	20	21	—	—	—	—	—
462T	36˚53'05"	118˚11'12"	394,251	4,082,542	113	23	21	—	—	—	—	—
463T	36˚53'04"	118˚10'14"	395,687	4,082,493	114	25	21	—	—	—	—	—
464T	36˚51'50"	118˚10'13"	395,683	4,080,212	118	24	20	—	—	—	—	—
465T	36˚51'29"	118˚11'11"	394,239	4,079,583	118	21	20	—	—	—	—	—
466T	36˚53'54"	118˚10'45"	394,938	4,084,043	111	25	21	—	—	—	—	Deepened to 42 ft in 1977.
467T	36˚56'05"	118˚10'51"	394,840	4,088,082	105	27	21	—	—	—	—	Deepened to 42 ft in 1977.
468T	37˚07'29"	118˚14'18"	389,993	4,109,225	69	29	21	—	—	—	—	—
469T	37˚09'39"	118˚15'49"	387,801	4,113,261	62	28	21	—	—	—	—	Deepened to 42 ft in 1977.
470T	37˚11'09"	118˚18'11"	384,336	4,116,082	56	23	21	—	—	—	—	—
471T	37˚24'37"	118˚21'55"	379,173	4,141,061	14	27	21	—	—	—	—	—
472T	37˚12'16"	118˚18'34"	383,798	4,118,155	52	24	21	—	—	—	—	—
473T	37˚12'51"	118˚17'39"	385,168	4,119,215	51	26	21	—	—	—	—	—
474T	37˚13'41"	118˚18'05"	384,549	4,120,764	49	26	21	—	—	—	—	—
475T	37˚13'01"	118˚19'11"	382,905	4,119,554	50	23	21	—	—	—	—	Deepened to 42 ft in 1977.
476T	37˚13'46"	118˚20'36"	380,830	4,120,970	47	20	21	—	—	—	—	—
477T	37˚12'15"	118˚20'17"	381,258	4,118,159	51	20	21	—	—	—	—	—
478T	37˚14'32"	118˚20'00"	381,737	4,122,375	45	22	20	—	—	—	—	—
479T	37˚15'12"	118˚18'59"	383,257	4,123,587	44	25	20	—	—	—	—	—
480T	37˚16'56"	118˚20'09"	381,578	4,126,816	38	24	21	—	—	—	—	—
481T	37˚18'24"	118˚19'51"	382,059	4,129,522	34	26	21	—	—	—	—	—
482T	37˚16'27"	118˚21'47"	379,151	4,125,957	38	20	21	—	—	—	—	—
483T	37˚18'23"	118˚22'46"	377,750	4,129,553	32	20	21	—	—	—	—	Deepened to 42 ft in 1977.
484T	37˚19'33"	118˚21'55"	379,037	4,131,692	29	23	21	—	—	—	—	—
485T	37˚19'33"	118˚20'51"	380,612	4,131,669	30	25	21	—	—	—	—	—
486T	37˚16'56"	118˚18'33"	383,942	4,126,783	39	28	21	—	—	—	—	—
487T	37˚18'02"	118˚18'14"	384,438	4,128,811	36	30	21	—	—	—	—	—
488T	37˚19'58"	118˚18'36"	383,946	4,132,393	30	31	21	—	—	—	—	Deepened to 42 ft in 1977.
489T	37˚21'43"	118˚19'45"	382,293	4,135,653	24	30	21	—	—	—	—	—
490T	37˚22'54"	118˚19'45"	382,324	4,137,841	21	31	21	—	—	—	—	Deepened to 42 ft in 1977.

Table 9. Location of wells and values from aquifer tests in the Owens Valley, California—continued

Well number	Latitude (north)	Longitude (west)	Universal Transverse Mercator (UTM) coordinates (m)		Ground-water flow model		Most recent well depth (ft)	Transmissivity (ft^2/d)	Average horizontal hydraulic conductivity (ft/d)	Storage coefficient	Aquifer test method	Comments
			East	North	Row	Column						
491T	37°23'20"	118°19'18"	382,999	4,138,633	20	32	21	—	—	—	—	Deepened to 53 ft in 1977.
492T	37°24'48"	118°20'32"	381,218	4,141,370	15	31	21	—	—	—	—	Deepened to 63 ft in 1977.
493T	37°25'43"	118°20'30"	381,291	4,143,065	12	32	21	—	—	—	—	Deepened to 64 ft in 1977.
494T	37°26'07"	118°20'58"	380,614	4,143,814	11	31	21	—	—	—	—	—
495T	37°25'49"	118°22'07"	378,910	4,143,284	11	28	21	—	—	—	—	—
496T	37°23'51"	118°20'50"	380,750	4,139,620	17	29	21	—	—	—	—	Deepened to 42 ft in 1977.
497T	37°23'54"	118°22'15"	378,662	4,139,743	16	26	21	—	—	—	—	Deepened to 31 ft in 1977.
498T	37°23'53"	118°23'25"	376,940	4,139,737	15	23	21	—	—	—	—	—
499T	37°20'47"	118°22'00"	378,947	4,133,974	25	24	21	—	—	—	—	—
500T	37°20'51"	118°20'28"	381,213	4,134,065	26	27	20	—	—	—	—	Deepened to 43 ft in 1977.
501T	37°22'11"	118°21'56"	379,083	4,136,562	21	25	21	—	—	—	—	Deepened to 42 ft in 1977.
502T	37°01'45"	118°13'11"	391,510	4,098,603	87	26	18	—	—	—	—	—
503T	37°24'07"	118°21'06"	380,364	4,140,119	16	29	52	—	—	—	—	—
504T	36°58'53"	118°13'29"	390,997	4,093,308	95	23	35	—	—	—	—	—
505T	36°57'30"	118°14'00"	390,198	4,090,760	98	21	53	—	—	—	—	—
506T	36°56'17"	118°13'59"	390,194	4,088,511	102	19	42	—	—	—	—	—
507T	36°55'08"	118°12'57"	391,700	4,086,365	106	21	52	—	—	—	—	—
508T	36°51'28"	118°10'02"	395,947	4,079,531	119	24	21	—	—	—	—	—
509T	36°47'54"	118°09'29"	396,685	4,072,927	130	22	31	—	—	—	—	—
510T	36°44'35"	118°08'16"	398,421	4,066,773	140	22	55	—	—	—	—	—
511T	36°46'35"	118°09'16"	396,978	4,070,489	134	21	42	—	—	—	—	—
512T	37°23'39"	118°29'45"	367,590	4,139,448	11	8	20	—	—	—	—	—
513T	37°21'44"	118°22'55"	377,620	4,135,751	22	22	19	—	—	—	—	—
514T	37°21'44"	118°22'58"	377,546	4,135,752	22	22	18	—	—	—	—	—
515T	37°21'44"	118°23'01"	377,472	4,135,753	22	22	21	—	—	—	—	—
516T	37°21'44"	118°23'04"	377,398	4,135,754	22	22	21	—	—	—	—	—
517T	37°21'44"	118°23'07"	377,324	4,135,755	22	22	20	—	—	—	—	—
518T	37°16'26"	118°21'41"	379,299	4,125,924	38	20	21	—	—	—	—	—
519T	37°16'27"	118°21'43"	379,250	4,125,955	38	20	21	—	—	—	—	—
520T	37°16'28"	118°21'46"	379,177	4,125,987	38	20	21	—	—	—	—	—
521T	37°16'29"	118°21'48"	379,128	4,126,019	38	20	21	—	—	—	—	—
522T	37°16'30"	118°21'50"	379,079	4,126,050	38	20	21	—	—	—	—	—
546T	36°49'26"	118°11'24"	393,870	4,075,797	124	19	20	—	—	—	—	—
547T	36°47'24"	118°09'54"	396,054	4,072,010	131	21	—	—	—	—	—	—
548T	36°47'57"	118°10'15"	395,546	4,073,033	129	20	—	—	—	—	—	—

Table 9. Location of wells and values from aquifer tests in the Owens Valley, California—continued

Well number	Latitude (north)	Longitude (west)	Universal Transverse Mercator (UTM) coordinates (m)		Ground-water flow model		Most recent well depth (ft)	Transmis-sivity (ft^2/d)	Average hori-zontal hydraulic conduc-tivity (ft/d)	Storage coefficient	Aqui-fer test meth-od	Comments
			East	North	Row	Col-umn						
549T	36˚48'29"	118˚11'11"	394,170	4,074,036	127	19	—	—	—	—	—	—
550T	36˚48'29"	118˚10'15"	395,558	4,074,019	127	21	—	—	—	—	—	—
551T	36˚48'19"	118˚11'36"	393,547	4,073,736	127	18	—	—	—	—	—	—
552T	36˚48'35"	118˚10'56"	394,544	4,074,217	127	19	—	—	—	—	—	—
553T	36˚48'47"	118˚12'14"	392,616	4,074,611	125	17	—	—	—	—	—	—
554T	36˚49'33"	118˚11'08"	394,269	4,076,008	124	20	—	—	—	—	—	—
555T	36˚48'01"	118˚10'18"	395,473	4,073,157	129	20	—	—	—	—	—	—
556T	36˚47'59"	118˚10'35"	395,051	4,073,101	128	20	—	—	—	—	—	—
557T	36˚48'23"	118˚10'48"	394,738	4,073,844	127	20	—	—	—	—	—	—
558T	36˚48'12"	118˚10'35"	395,056	4,073,501	128	20	—	—	—	—	—	—
559T	36˚45'22"	118˚09'49"	396,132	4,068,249	137	19	—	—	—	—	—	—
560T	36˚45'10"	118˚09'55"	395,979	4,067,881	137	19	—	—	—	—	—	—
561T	36˚45'07"	118˚09'38"	396,399	4,067,783	137	19	—	—	—	—	—	—
562T	36˚44'44"	118˚09'20"	396,837	4,067,069	139	20	—	—	—	—	—	—
563T	36˚36'18"	118˚04'00"	404,600	4,051,385	167	24	—	—	—	—	—	—
564T	36˚36'27"	118˚03'33"	405,273	4,051,655	167	25	—	—	—	—	—	—
565T	37˚04'24"	118˚14'42"	389,326	4,103,532	78	25	—	—	—	—	—	—
566T	37˚06'05"	118˚14'56"	389,021	4,106,649	73	26	—	—	—	—	—	—
567T	37˚07'23"	118˚15'04"	388,856	4,109,055	69	27	—	—	—	—	—	—
568T	37˚07'53"	118˚15'06"	388,818	4,109,980	68	28	—	—	—	—	—	—
569T	37˚08'26"	118˚15'33"	388,166	4,111,006	66	27	—	—	—	—	—	—
570T	37˚08'43"	118˚16'04"	387,408	4,111,540	65	26	—	—	—	—	—	—
571T	37˚09'34"	118˚16'07"	387,355	4,113,113	62	27	—	—	—	—	—	—
572T	37˚10'21"	118˚16'33"	386,733	4,114,570	59	26	—	—	—	—	—	—
573T	37˚23'11"	118˚19'50"	382,208	4,138,366	20	31	—	—	—	—	—	—
574T	37˚23'32"	118˚20'29"	381,259	4,139,027	18	30	—	—	—	—	—	—
575T	37˚24'00"	118˚20'57"	380,582	4,139,900	17	29	—	—	—	—	—	—
576T	37˚25'00"	118˚22'45"	377,954	4,141,787	13	26	—	—	—	—	—	—
577T	37˚25'55"	118˚21'32"	379,773	4,143,456	11	29	—	—	—	—	—	—
578T	37˚26'29"	118˚21'34"	379,739	4,144,505	9	30	—	—	—	—	—	—
579T	37˚27'22"	118˚20'30"	381,335	4,146,116	7	33	—	—	—	—	—	—
580T	37˚24'30"	118˚20'53"	380,694	4,140,823	15	30	—	—	—	—	—	—
581T	36˚53'28"	118˚14'08"	389,903	4,083,306	110	16	—	—	—	—	—	—
582T	36˚54'27"	118˚13'57"	390,199	4,085,120	107	18	—	—	—	—	—	—
583T	36˚55'00"	118˚13'49"	390,410	4,086,135	106	19	—	—	—	—	—	—
584T	36˚55'35"	118˚12'56"	391,736	4,087,196	105	21	—	—	—	—	—	—
585T	36˚57'42"	118˚13'35"	390,821	4,091,122	98	22	—	—	—	—	—	—
586T	36˚58'53"	118˚13'06"	391,566	4,093,301	95	24	—	—	—	—	—	—
587T	37˚02'36"	118˚13'25"	391,185	4,100,179	84	27	—	—	—	—	—	—
588T	36˚35'25"	118˚03'21"	405,551	4,049,742	170	25	—	—	—	—	—	—

Table 9. Location of wells and values from aquifer tests in the Owens Valley, California—continued

Well number	Latitude (north)	Longitude (west)	Universal Transverse Mercator (UTM) coordinates (m)		Ground-water flow model		Most recent well depth (ft)	Transmissivity (ft^2/d)	Average horizontal hydraulic conductivity (ft/d)	Storage coefficient	Aquifer test method	Comments
			East	North	Row	Column						
589T	36˚35'46"	118˚03'55"	404,713	4,050,398	169	24	—	—	—	—	—	—
590T	36˚36'08"	118˚03'33"	405,267	4,051,070	168	25	—	—	—	—	—	—
591T	36˚36'05"	118˚03'40"	405,092	4,050,979	168	25	—	—	—	—	—	—
592T	36˚36'17"	118˚03'15"	405,717	4,051,342	168	26	—	—	—	—	—	—
593T	36˚36'57"	118˚03'30"	405,358	4,052,579	166	26	—	—	—	—	—	—
594T	36˚38'52"	118˚04'55"	403,287	4,056,146	159	24	—	—	—	—	—	—
596T	36˚41'57"	118˚07'41"	399,232	4,061,894	148	21	—	—	—	—	—	—
597T	36˚41'56"	118˚06'59"	400,274	4,061,851	149	22	—	—	—	—	—	—
598T	36˚42'24"	118˚07'51"	398,993	4,062,729	147	21	—	—	—	—	—	—
599T	36˚43'13"	118˚08'18"	398,341	4,064,247	144	21	—	—	—	—	—	—
600T	36˚43'26"	118˚07'21"	399,760	4,064,631	144	23	—	—	—	—	—	—
601T	36˚44'07"	118˚08'24"	398,212	4,065,913	141	21	—	—	—	—	—	—
602T	36˚44'21"	118˚08'37"	397,895	4,066,348	140	21	—	—	—	—	—	—
603T	36˚55'42"	118˚12'40"	392,134	4,087,407	105	22	—	—	—	—	—	—
604T	36˚51'24"	118˚11'05"	394,386	4,079,427	118	22	—	—	—	—	—	—
627T	37˚10'26"	118˚17'12"	385,773	4,114,737	59	25	—	—	—	—	—	—
628T	36˚55'30"	118˚13'29"	390,917	4,087,053	105	20	—	—	—	—	—	—
629T	36˚55'30"	118˚13'29"	390,917	4,087,053	105	20	—	—	—	—	—	—
630T	36˚55'23"	118˚13'27"	390,964	4,086,836	105	20	—	—	—	—	—	—
631T	36˚55'23"	118˚13'27"	390,964	4,086,836	105	20	—	—	—	—	—	—
632T	36˚48'28"	118˚11'40"	393,451	4,074,014	126	18	—	—	—	—	—	—
633T	36˚48'01"	118˚11'27"	393,763	4,073,178	128	18	—	—	—	—	—	—
641T	36˚44'40"	118˚09'23"	396,761	4,066,947	139	19	—	—	—	—	—	—
642T	36˚45'28"	118˚10'05"	395,738	4,068,439	136	19	—	—	—	—	—	—
643T	36˚46'00"	118˚10'26"	395,229	4,069,431	134	18	—	—	—	—	—	—
644T	36˚45'45"	118˚09'51"	396,091	4,068,958	135	19	—	—	—	—	—	—
645T	36˚46'31"	118˚09'54"	396,034	4,070,377	133	20	—	—	—	—	—	—
646T	36˚46'28"	118˚09'33"	396,554	4,070,278	134	21	—	—	—	—	—	—
647T	36˚45'44"	118˚09'15"	396,983	4,068,917	136	21	—	—	—	—	—	—
648T	36˚46'48"	118˚09'47"	396,214	4,070,898	133	20	—	—	—	—	—	—
649T	36˚46'51"	118˚09'27"	396,711	4,070,985	133	21	—	—	—	—	—	—
650T	36˚47'57"	118˚11'23"	393,861	4,073,054	128	18	—	—	—	—	—	—
651T	36˚48'27"	118˚11'48"	393,253	4,073,986	126	17	—	—	—	—	—	—
652T	36˚41'50"	118˚07'22"	399,701	4,061,673	149	21	—	—	—	—	—	—
653T	36˚41'54"	118˚07'47"	399,082	4,061,803	148	21	—	—	—	—	—	—
654T	36˚42'20"	118˚08'01"	398,744	4,062,609	147	20	—	—	—	—	—	—
655T	36˚52'41"	118˚13'59"	390,108	4,081,854	112	16	—	—	—	—	—	—
656T	36˚52'56"	118˚14'03"	390,014	4,082,318	112	16	—	—	—	—	—	—
658T	36˚53'17"	118˚14'18"	389,652	4,082,970	110	16	—	—	—	—	—	—
659T	36˚53'26"	118˚14'24"	389,507	4,083,249	110	16	—	—	—	—	—	—

Table 9. Location of wells and values from aquifer tests in the Owens Valley, California—continued

Well number	Latitude (north)	Longitude (west)	Universal Transverse Mercator (UTM) coordinates (m)		Ground-water flow model		Most recent well depth (ft)	Transmissivity (ft^2/d)	Average horizontal hydraulic conductivity (ft/d)	Storage coefficient	Aquifer test method	Comments
			East	North	Row	Column						
660T	36˚54'19"	118˚14'39"	389,157	4,084,887	107	16	—	—	—	—	—	—
661T	36˚54'58"	118˚14'57"	388,727	4,086,095	105	16	—	—	—	—	—	—
662T	36˚57'08"	118˚14'55"	388,829	4,090,100	99	18	—	—	—	—	—	—
663T	36˚57'55"	118˚14'49"	388,996	4,091,547	97	19	—	—	—	—	—	—
664T	36˚58'16"	118˚14'38"	389,277	4,092,190	96	20	—	—	—	—	—	—
665T	36˚58'10"	118˚15'02"	388,681	4,092,013	96	19	—	—	—	—	—	—
666T	36˚58'23"	118˚15'14"	388,389	4,092,418	95	18	—	—	—	—	—	—
667T	36˚58'42"	118˚15'05"	388,620	4,093,000	94	19	—	—	—	—	—	—
668T	37˚03'11"	118˚13'34"	390,976	4,101,260	82	27	—	—	—	—	—	—
669T	37˚00'55"	118˚13'34"	390,922	4,097,069	89	25	—	—	—	—	—	—
670T	37˚00'25"	118˚13'40"	390,762	4,096,147	90	24	—	—	—	—	—	—
671T	37˚00'15"	118˚14'06"	390,115	4,095,847	90	23	—	—	—	—	—	—
672T	36˚59'54"	118˚14'06"	390,107	4,095,200	91	22	—	—	—	—	—	—
673T	36˚55'29"	118˚13'32"	390,842	4,087,023	105	20	—	—	—	—	—	—
674T	36˚55'23"	118˚13'31"	390,865	4,086,838	105	20	—	—	—	—	—	—
675T	36˚59'57"	118˚15'06"	388,625	4,095,312	91	20	—	—	—	—	—	—
676T	36˚52'13"	118˚13'28"	390,864	4,080,982	114	17	—	—	—	—	—	—
677T	37˚04'37"	118˚15'24"	388,294	4,103,946	77	24	—	—	—	—	—	—
678T	37˚05'06"	118˚15'18"	388,454	4,104,838	76	25	—	—	—	—	—	—
679T	37˚05'52"	118˚15'19"	388,448	4,106,256	73	25	—	—	—	—	—	—
680T	37˚06'20"	118˚15'08"	388,731	4,107,115	72	26	—	—	—	—	—	—
681T	37˚06'40"	118˚15'12"	388,641	4,107,733	71	26	—	—	—	—	—	—
682T	37˚07'22"	118˚15'42"	387,917	4,109,037	69	26	—	—	—	—	—	—
683T	37˚08'01"	118˚16'10"	387,242	4,110,248	66	25	—	—	—	—	—	—
684T	37˚08'37"	118˚16'36"	386,616	4,111,366	64	25	—	—	—	—	—	—
685T	37˚09'02"	118˚16'31"	386,750	4,112,135	63	25	—	—	—	—	—	—
686T	37˚09'17"	118˚17'10"	385,794	4,112,610	62	24	—	—	—	—	—	—
687T	37˚09'37"	118˚16'33"	386,715	4,113,214	62	26	—	—	—	—	—	—
688T	37˚10'14"	118˚16'51"	386,286	4,114,360	60	26	—	—	—	—	—	—
689T	37˚10'30"	118˚17'18"	385,627	4,114,862	58	25	—	—	—	—	—	—
690T	37˚10'25"	118˚17'08"	385,871	4,114,705	59	25	—	—	—	—	—	—
691T	37˚09'55"	118˚17'11"	385,785	4,113,781	60	25	—	—	—	—	—	—
692T	36˚36'07"	118˚03'11"	405,813	4,051,033	168	26	—	—	—	—	—	—
693T	36˚36'05"	118˚03'15"	405,713	4,050,972	168	26	—	—	—	—	—	—
694T	36˚36'22"	118˚03'49"	404,874	4,051,506	167	25	—	—	—	—	—	—
695T	37˚02'30"	118˚13'50"	390,565	4,100,002	84	26	—	—	—	—	—	—
696T	37˚02'28"	118˚13'49"	390,589	4,099,940	84	26	—	—	—	—	—	—
697T	37˚02'29"	118˚13'47"	390,638	4,099,970	84	26	—	—	—	—	—	—
698T	37˚27'04"	118˚20'48"	380,885	4,145,567	8	32	—	—	—	—	—	—
699T	37˚26'41"	118˚20'56"	380,678	4,144,861	9	31	—	—	—	—	—	—

Table 9. Location of wells and values from aquifer tests in the Owens Valley, California—continued

Well number	Latitude (north)	Longitude (west)	Universal Transverse Mercator (UTM) coordinates (m)		Ground-water flow model		Most recent well depth (ft)	Transmissivity (ft^2/d)	Average horizontal hydraulic conductivity (ft/d)	Storage coefficient	Aquifer test method	Comments
			East	North	Row	Column						
700T	37°26'21"	118°20'23"	381,480	4,144,233	10	32	—	—	—	—	—	—
701T	37°26'07"	118°20'20"	381,548	4,143,801	11	32	—	—	—	—	—	—
702T	37°25'45"	118°21'42"	379,523	4,143,152	11	29	—	—	—	—	—	—
703T	37°25'04"	118°24'07"	375,940	4,141,940	11	23	—	—	—	—	—	—
704T	37°24'59"	118°24'05"	375,987	4,141,786	12	23	—	—	—	—	—	—
705T	37°24'59"	118°21'42"	379,502	4,141,734	13	28	—	—	—	—	—	—
707T	37°23'41"	118°19'51"	382,197	4,139,291	18	31	—	—	—	—	—	—
708T	37°23'25"	118°19'46"	382,313	4,138,796	19	31	—	—	—	—	—	—
709T	37°23'20"	118°19'36"	382,557	4,138,639	20	31	—	—	—	—	—	—
710T	37°23'53"	118°27'22"	371,113	4,139,825	12	14	—	—	—	—	—	—
711T	37°23'51"	118°27'24"	371,062	4,139,764	12	14	—	—	—	—	—	—
712T	37°23'51"	118°27'20"	371,161	4,139,763	12	14	—	—	—	—	—	—
713T	37°13'52"	118°17'03"	386,081	4,121,082	49	29	—	—	—	—	—	—
714T	37°13'52"	118°16'59"	386,180	4,121,081	49	29	—	—	—	—	—	—
715T	37°13'49"	118°17'00"	386,154	4,120,989	49	29	—	—	—	—	—	—
716T	37°09'47"	118°16'36"	386,645	4,113,523	61	26	—	—	—	—	—	—
717T	37°09'48"	118°16'32"	386,744	4,113,553	61	26	—	—	—	—	—	—
718T	37°09'45"	118°16'34"	386,693	4,113,461	61	26	—	—	—	—	—	—
719T	37°07'07"	118°13'05"	391,786	4,108,524	71	32	—	—	—	—	—	—
720T	37°07'08"	118°13'02"	391,860	4,108,554	71	32	—	—	—	—	—	—
721T	37°07'06"	118°13'02"	391,860	4,108,492	71	32	—	—	—	—	—	—
722T	36°44'20"	118°05'42"	402,235	4,066,266	143	28	—	—	—	—	—	—
723T	36°44'18"	118°05'40"	402,284	4,066,204	143	28	—	—	—	—	—	—
724T	36°44'18"	118°05'44"	402,185	4,066,205	143	28	—	—	—	—	—	—
725T	36°32'48"	118°01'28"	408,307	4,044,874	179	27	—	—	—	—	—	—
726T	36°32'46"	118°01'26"	408,356	4,044,811	179	27	—	—	—	—	—	—
727T	36°32'46"	118°01'29"	408,282	4,044,812	179	27	—	—	—	—	—	—
728T	36°52'18"	118°13'31"	390,792	4,081,137	114	17	—	—	—	—	—	—
729T	36°52'11"	118°13'31"	390,789	4,080,921	114	17	—	—	—	—	—	—
736T	37°10'32"	118°17'23"	385,504	4,114,926	58	25	—	—	—	—	—	—
1N	36°36'09"	118°04'08"	404,398	4,051,110	167	24	—	—	—	—	—	—
2N	37°10'32"	118°14'04"	390,412	4,114,860	61	32	—	—	—	—	—	—
3N	37°04'35"	118°15'10"	388,639	4,103,880	77	24	—	—	—	—	—	—
5N	37°09'45"	118°17'54"	384,720	4,113,488	60	23	—	—	—	—	—	—
6N	36°59'50"	118°14'04"	390,155	4,095,076	92	23	—	—	—	—	—	—
7N	36°58'40"	118°15'16"	388,347	4,092,942	94	19	—	—	—	—	—	—
8N	36°59'59"	118°12'29"	392,507	4,095,323	92	26	—	—	—	—	—	—
9N	36°56'46"	118°14'13"	389,859	4,089,409	100	19	—	—	—	—	—	—
11N	37°10'59"	118°15'38"	388,105	4,115,723	58	29	—	—	—	—	—	—
12N	37°03'11"	118°13'42"	390,779	4,101,263	82	26	—	—	—	—	—	—

Table 9. Location of wells and values from aquifer tests in the Owens Valley, California—continued

Well number	Latitude (north)	Longitude (west)	Universal Transverse Mercator (UTM) coordinates (m)		Ground-water flow model		Most recent well depth (ft)	Transmis-sivity (ft^2/d)	Average hori-zontal hydraulic conduc-tivity (ft/d)	Storage coefficient	Aqui-fer test meth-od	Comments
			East	North	Row	Col-umn						
13N	37˚10'23"	118˚17'39"	385,106	4,114,654	59	24	—	—	—	—	—	—
14N	36˚35'19"	118˚03'21"	405,549	4,049,557	170	25	—	—	—	—	—	—
15N	36˚35'14"	118˚03'21"	405,547	4,049,403	171	25	—	—	—	—	—	—
16N	37˚22'19"	118˚23'30"	376,774	4,136,842	20	22	—	—	—	—	—	—
17N	37˚05'02"	118˚15'09"	388,675	4,104,712	76	25	—	—	—	—	—	—
18N	36˚43'37"	118˚08'42"	397,755	4,064,993	143	20	—	—	—	—	—	—
19N	36˚36'10"	118˚04'08"	404,398	4,051,141	167	24	—	—	—	—	—	—
20N	37˚21'36"	118˚25'52"	373,262	4,135,569	20	15	—	—	—	—	—	—
22N	37˚09'28"	118˚17'24"	385,453	4,112,954	61	23	—	—	—	—	—	—
25N	37˚09'30"	118˚17'03"	385,972	4,113,008	62	25	—	—	—	—	—	—
83-1	37˚25'06"	118˚21'02"	380,489	4,141,936	14	30	—	—	—	—	—	USGS well.
83-2	37˚17'02"	118˚20'15"	381,433	4,127,003	37	24	—	—	—	—	—	USGS well.
83-2A	37˚17'00"	118˚20'11"	381,530	4,126,940	38	24	—	4,700	53	—	DD	USGS well.
83-2K	37˚17'00"	118˚20'11"	381,530	4,126,940	38	24	—	2,800	68	—	JC	USGS well.
83-3	37˚13'40"	118˚18'15"	384,302	4,120,737	49	26	—	—	—	—	—	USGS well.
83-4	37˚11'24"	118˚17'54"	384,762	4,116,538	55	24	—	—	—	—	—	USGS well.
85-5	37˚06'48"	118˚14'29"	389,705	4,107,965	71	28	—	—	—	—	—	USGS well.
83-6	36˚56'23"	118˚13'40"	390,666	4,088,689	102	20	—	—	—	—	—	USGS well.
83-7	36˚49'07"	118˚09'28"	396,737	4,075,176	126	23	—	—	—	—	—	USGS well.
83-7A	36˚49'38"	118˚09'44"	396,352	4,076,136	124	23	—	—	—	—	—	USGS well.
83-8N	36˚48'08"	118˚09'11"	397,136	4,073,353	129	23	—	540	12	—	JC	USGS well.
83-8P	36˚48'08"	118˚09'11"	397,136	4,073,353	129	23	—	900	45	—	JC	USGS well.
83-9	36˚47'11"	118˚09'40"	396,396	4,071,605	131	21	—	—	—	—	—	USGS well.
83-10	36˚47'45"	118˚09'00"	397,400.	4,072,641	130	23	—	—	—	—	—	USGS well.
83-11	36˚45'28"	118˚09'41"	396,333	4,068,431	136	19	—	—	—	—	—	USGS well.
83-12G	37˚19'25"	118˚21'31"	379,624	4,131,437	30	23	—	2,800	60	—	N	USGS well.
83-12N	37˚19'25"	118˚21'31"	379,624	4,131,437	30	23	—	1,200	31	—	JC	USGS well.
83-13A	36˚47'57"	118˚09'33"	396,587	4,073,020	129	22	—	1,200	33	—	JC	USGS well.
83-13G	36˚47'57"	118˚09'33"	396,587	4,073,020	129	22	—	—	—	—	—	USGS well.
83-14A	37˚08'35"	118˚15'03"	388,909	4,111,274	66	28	—	9,700	24	—	JC	USGS well.
83-14B	37˚08'35"	118˚15'03"	388,909	4,111,274	66	28	—	—	—	—	—	USGS well.
83-14C	37˚08'35"	118˚15'03"	388,909	4,111,274	66	28	—	—	—	—	—	USGS well.
83-15A	36˚48'10"	118˚10'32"	395,130	4,073,439	128	20	—	—	—	—	—	USGS well.
83-15B	36˚48'10"	118˚10'32"	395,130	4,073,439	128	20	—	—	—	—	—	USGS well.
83-15C	36˚48'10"	118˚10'32"	395,130	4,073,439	128	20	—	—	—	—	—	USGS well.
84-16A	37˚08'41"	118˚14'05"	390,343	4,111,440	66	31	—	6,100	68	—	JC	USGS well.
84-16B	37˚08'41"	118˚14'05"	390,343	4,111,440	66	31	—	—	—	—	—	USGS well.
84-17A	37˚04'47"	118˚14'26"	389,731	4,104,236	77	26	—	800	11	—	JC	USGS well.
84-17B	37˚04'47"	118˚14'26"	389,731	4,104,236	77	26	—	—	—	—	—	USGS well.
84-17C	37˚04'47"	118˚14'26"	389,731	4,104,236	77	26	—	—	—	—	—	USGS well.

Table 9. Location of wells and values from aquifer tests in the Owens Valley, California—continued

Well number	Latitude (north)	Longitude (west)	Universal Transverse Mercator (UTM) coordinates (m)		Ground-water flow model		Most recent well depth (ft)	Transmissivity (ft^2/d)	Average horizontal hydraulic conductivity (ft/d)	Storage coefficient	Aquifer test method	Comments
			East	North	Row	Column						
84-18A	36˚44'27"	118˚04'44"	403,676	4,066,466	143	30	—	1,000	26	—	JC	USGS well.
84-18B	36˚44'27"	118˚04'44"	403,676	4,066,466	143	30	—	—	—	—	—	USGS well.
84-18C	36˚44'27"	118˚04'44"	403,676	4,066,466	143	30	—	—	—	—	—	USGS well.
84-19A	36˚44'07"	118˚08'55"	397,443	4,065,922	141	20	—	2,600	62	—	JC	USGS well.
84-19B	36˚44'07"	118˚08'55"	397,443	4,065,922	141	20	—	—	—	—	—	USGS well.
84-20A	36˚41'54"	118˚03'39"	405,236	4,061,733	151	30	—	5,000	126	—	JC	USGS well.
84-20B	36˚41'54"	118˚03'39"	405,236	4,061,733	151	30	—	—	—	—	—	USGS well.
84-20C	36˚41'54"	118˚03'39"	405,236	4,061,733	151	30	—	—	—	—	—	USGS well.
BTWN2	37˚21'52"	118˚23'47"	376,344	4,136,016	21	20	—	—	—	—	—	Bishop town well #2.
BTWN4	37˚21'41"	118˚26'23"	372,501	4,135,735	19	14	—	—	—	—	—	Bishop town well #4.
DOW	36˚36'09"	118˚04'10"	404,348	4,051,111	167	24	—	—	—	—	—	Dow well.
LPSTA	36˚37'10"	118˚02'24"	407,002	4,052,962	166	29	—	—	—	—	—	Lone Pine Station well.
MEYER	36˚35'18"	118˚03'22"	405,523	4,049,526	170	25	—	—	—	—	—	Meyer well.
MT.WH	36˚49'53"	118˚14'39"	389,050	4,076,690	120	12	—	—	—	—	—	Mt. Whitney Fish Hatchery well.

Table 10. Ground-water budget for the aquifer system of the Owens Valley, California [1]

[Values in acre-feet per year. Positive numbers indicate recharge to the aquifer system; negative numbers ( ) indicate discharge from the aquifer system]

Component	Average values		Likely range of average values for water years 1970–84	
	Water years 1963–69	Water years 1970–84	Minimum	Maximum
Precipitation	2,000	2,000	0	5,000
Evapotranspiration	(112,000)	(72,000)	(50,000)	(90,000)
Tributary streams	106,000	103,000	90,000	115,000
Mountain-front recharge between tributary streams	26,000	26,000	15,000	35,000
Runoff from bedrock outcrops within the valley fill	1,000	1,000	0	2,000
Owens River and Los Angeles Aqueduct system:				
Channel seepage	(16,000)	(3,000)	0	(20,000)
Spillgates	6,000	6,000	3,000	10,000
Lower Owens River	(5,000)	(3,000)	(1,000)	(8,000)
Reservoirs and small lakes	1,000	1,000	(5,000)	5,000
Canals, ditches, and ponds	32,000	31,000	15,000	60,000
Irrigation and watering of livestock	18,000	10,000	5,000	20,000
Pumped and flowing wells	(20,000)	(98,000)	(90,000)	(110,000)
Springs and seeps	(26,000)	(6,000)	(4,000)	(10,000)
Underflow:				
Into the aquifer system	4,000	4,000	3,000	10,000
Out of the aquifer system	(10,000)	(10,000)	(5,000)	(20,000)
Total recharge	196,000	184,000	170,000	210,000
Total discharge	(189,000)	(192,000)	(175,000)	(225,000)
Change in ground-water storage[2]	7,000	(8,000)	(5,000)	(15,000)

[1] Values of water-budget components for individual years may vary considerably from the average values presented in this table. Uncertainties in the measurement and estimation of each water-budget component for water years 1970–84 are reflected in the likely range of average values. The likely ranges for total recharge, total discharge, and change in ground-water storage are estimated separately for the overall aquifer system and are somewhat less than what would be computed by summing the individual ranges for respective water-budget components.

[2] Positive change in storage indicates water going into ground-water storage; negative ( ) change in storage indicates water coming out of ground-water storage.

Table 12. Map coordinates for the ground-water flow model of the aquifer system of the Owens Valley, California

[Coordinates are calculated at the outside edge of the finite-difference model grid]

Corner of model grid	Map coordinates				
	Model grid (row, column)	Latitude (north) (decimal value in parentheses)	Longitude (west) (decimal value in parentheses)	Universal Transverse Mercator (UTM) coordinates, zone 11, in meters	
Northwest	(0.0, 0.0)	37° 26' 14" (37.4371)	118° 34' 12" (118.5700)	361,101	4,144,319
Northeast	(0.0, 40.0)	37° 30' 16" (37.5044)	118° 18' 27" (118.3076)	384,423	4,151,436
Southwest	(180.0, 0.0)	36° 29' 44" (36.4955)	118° 11' 36" (118.1933)	393,126	4,039,368
Southeast	(180.0, 40.0)	36° 33' 43" (36.5619)	117° 56' 01" (117.9337)	416,449	4,046,485

Table 13. Recharge and discharge approximations for the ground-water flow model of the aquifer system of the Owens Valley, California

[Type of boundary condition: Franke and others (1987). Ground-water flow model approximation: McDonald and Harbaugh (1988). Recharge and discharge components defined in text. Temporal variation in stress: A, annually varying rate; C, constant rate; $\overline{C}$, constant rate for several years]

Type of boundary condition	Ground-water flow model approximation	Recharge (R) or discharge (D) component	Temporal variation in stress
Specified flux	Well package	Precipitation (R)	C
		Spillgate releases (R)	C
		Underflow (R,D)	C
		Canals and ditches (R)	$\overline{C}$
		Irrigation (R)	$\overline{C}$
		Watering of livestock (R)	$\overline{C}$
		Tributary streams (R)	A
		Miscellaneous water use (R)	A
		Mountain-front runoff (R)	A
		Pumpage (D)	A
		Runoff from bedrock within the valley (R)	A
Head-dependent flux	River package	Lakes (R,D)	A
		Lower Owens River (R,D)	A
		River–aqueduct system (R,D)	A
		Sewage ponds (R,D)	A
		Tinemaha Reservoir (R,D)	A
Head-dependent flux	Evapotranspiration package	Evapotranspiration (D)	A
Head-dependent flux	Drain package	Springs and seeps (D)	A

Table 14. Simulated water-management alternatives for the Owens Valley, California

[na, not applicable, because the solution does not depend on initial head]

Simulated water-management alternative	Description	Type of simulation	Initial conditions	Related figures (number)
1	Continue 1988 operations	Steady state	na	26 and 27
2	Continue 1988 operations with variations in recharge of plus or minus 10 percent of the 1988 steady-state value. Simulates long-term change in climatic conditions.	Steady state	na	28
3	Continue 1988 operations with variations in pumpage from 0 to 125 percent of the 1988 steady-state value.	Steady state	na	29
4	A 9-year sequence consisting of: 3 years of drought 3 years of average conditions 3 years of wet conditions.	Transient (9 years).	Results for water-management alternative 1.	30, 31, 32, and 33

Table 15. Average pumpage from well fields in the Owens Valley, California

[ns, not simulated; wy, water years. Values in acre-feet per year. Values for 1-year responses are in excess of 1988 steady-state pumpage]

Time period	Well fields (figure 17)										
						Independence South					
	Laws	Bishop	Big Pine	Taboose–Aberdeen	Thibaut–Sawmill	Indepen-dence–Oak	Symmes–Shepherd	Bairs–George	Subtotal	Lone Pine	Total
1963–88 wy...	11,805	9,754	20,477	15,336	8,657	7,134	7,335	1,765	16,234	1,539	83,802
1963–69 wy...	5,290	6,091	668	1,783	339	3,382	2,044	327	5,753	259	20,182
1970–84 wy...	12,429	10,699	25,994	18,950	10,167	7,789	8,336	2,199	18,324	1,997	98,559
1985–88 wy...	20,868	12,623	34,453	25,505	17,549	11,245	12,842	2,651	26,738	2,062	139,798
1988 steady state.	29,391	11,962	37,113	22,386	21,169	11,497	11,500	1,952	24,949	2,305	149,275
1-year unit response (figure 34).	10,000	10,000	10,000	10,000	10,000	4,608	4,609	783	10,000	ns	60,000
1-year response (figure 35).	10,280	5,518	14,873	16,894	4,427	9,412	10,140	3,408	22,960	2,018	76,970