

Table I

Climatological Data at Hesperia\*

Month	Temperature			Precipitation		
	Mean	Record	Record	Mean	Maximum	Minimum
	monthly	highest	lowest	monthly	monthly	monthly
	Degrees Fahrenheit	Degrees Fahrenheit	Degrees Fahrenheit	Inches	Inches	Inches
Jan..	46.6	82	10	1.51	5.80	0
Feb..	49.7	88	14	1.34	6.27	0
Mar..	52.9	90	20	1.04	4.65	0
Apr..	58.0	97	24	.49	3.44	0
May..	65.3	108	30	.09	1.07	0
Jun..	73.4	115	34	.02	.35	0
Jul..	82.0	119	46	.09	1.32	0
Aug..	80.8	112	44	.12	1.06	0
Sep..	74.8	110	40	.25	3.00	0
Oct..	64.7	110	30	.31	2.02	0
Nov..	53.0	88	14	.90	4.65	0
Dec..	46.4	78	12	1.06	5.77	0
Period of record	**62.3	119	10	**7.22	6.27	0

\* 34°25'16"N latitude; 117°18'12"W longitude; 3,305 feet above mean sea level.

\*\* Mean annual.

NOTE: Period of record for temperature is 23 years (Jan 1951 - Dec 1973).  
Period of record for precipitation is 42 years (Oct 1904-Sep 1915)  
and (Oct 1942 - Sep 1973)

Data supplied by San Bernardino County Flood Control District for station FCD No. 92.

Table 2

## Climatological Data at Squirrel Inn No. 2\*

Month	Temperature			Precipitation			Snowfall		
	Mean	Record	Record	Mean	Maximum	Minimum	Mean	Maximum	Minimum
	monthly	highest	lowest	monthly	monthly	monthly	monthly	monthly	monthly
	Degrees Fahrenheit	Degrees Fahrenheit	Degrees Fahrenheit	Inches	Inches	Inches	Inches	Inches	Inches
Jan.....	38.8	71	0	7.90	50.29	0	18.8	115.7	0
Feb.....	39.9	71	9	8.21	30.12	0	37.1	98.5	0
Mar.....	43.0	79	-7	6.50	29.02	0	17.0	84.0	0
Apr.....	47.6	82	13	4.08	21.24	0	8.4	83.6	0
May.....	52.0	86	10	1.32	9.88	0	2.3	32.5	0
Jun.....	61.2	99	10	.19	3.20	0	0.6	22.0	0
Jul.....	69.4	97	25	.17	5.01	0	0	(T)	0
Aug.....	69.4	99	36	.21	1.70	0	0	0	0
Sep.....	65.2	96	22	.74	9.23	0	0	(T)	0
Oct.....	56.1	96	18	1.79	8.97	0	0.6	10.0	0
Nov.....	47.1	80	9	3.64	24.62	0	3.9	52.3	0
Dec.....	40.2	73	5	6.76	30.70	0	11.1	62.5	0
Period									
of	**52.4	99	-7	**41.51	50.29	0	**99.8	115.7	0
record									

\* 34°14'N Latitude; 117°14'W Longitude; 5,680 feet above mean sea level.

\*\* Mean annual.

T Indicates less than 0.01 inch of precipitation.

NOTE: Period of record for temperature is 56 years (Jan 1911 - Dec 1923 and Jan 1929 - Dec 1971)  
 Period of record for precipitation is 62 years (Jan 1910 - Dec 1971)  
 Period of record for snowfall is 61 years (Jan 1911 - Dec 1971)

Station Discontinued January 1972.

Data is from "Climatological Data, California," National Oceanic and Atmospheric Administration.

Table 3

Snowfall Data at Victorville Pump Station\*

Year	Date	Inches**
1942.....	15 Mar	2.0
1943.....	21 Dec	(T)
1944.....	26 Jan	2.0
	14 Mar	(T)
1945.....	20 Jan	(T)
	2 Feb	(T)
1947.....	2 Jan	(T)
	23 Nov	(T)
	5 Dec	1.0
1948.....	5 Feb	(T)
1952.....	18 Jan	3.0
	16 Mar	1.0
1953.....	2 Mar	3.0
1954.....	13 Jan	1.5
1956.....	13 Apr	1.0
1957.....	30 Jan	9.0
1964.....	16 Feb	1.0
	23 Mar	(T)
	18 Nov	10.0
1967.....	15 Dec	4.0
1974.....	5 Jan	17.0

\* 34°32'N Latitude; 117°18'W Longitude; elevation 2,900 feet above mean sea level.

\*\* Maximum depth on ground.

T Indicates less than 0.01 inch of precipitation.

NOTE: Period of record for snowfall is 32 years (January 1942 - February 1974).

Table 4

## Runoff Data - Deep Creek near Hesperia\*

Years**	Maximum peak discharge	Date	Maximum mean daily discharge	Date
	<u>Cubic feet per second</u>		<u>Cubic feet per second</u>	
1929-30....	340	5 Mar	240	4 May
1930-31....	1,260	26 Apr	557	27 Apr
1931-32....	7,900	9 Feb	4,050	9 Feb
1932-33....	168	4 Apr	126	3 & 4 Apr
1933-34....	2,340	31 Dec	1,570	1 Jan
1934-35....	2,760	8 Apr	1,160	8 Apr
1935-36....	2,170	12 Feb	669	12 Feb
1936-37....	6,800	14 Feb	4,180	14 Feb
1937-38....	46,600	2 Mar	12,000	2 Mar
1938-39....	1,850	25 Sep	508	25 Sep
1939-40....	2,610	8 Jan	1,040	8 Jan
1940-41....	5,500	24 Dec	1,850	21 Feb
1941-42....	395	4 Apr	214	4 Apr
1942-43....	19,000	23 Jan	7,850	23 Jan
1943-44....	490	11 Mar	410	13 Mar
1944-45....	6,350	2 Feb	2,700	2 Feb
1945-46....	5,800	23 Dec	2,550	24 Dec
1946-47....	2,740	23 Nov	873	23 Nov
1947-48....	840	4 Apr	421	4 Apr
1948-49....	248	14 Apr	183	14 & 15 Apr
1949-50....	708	7 Feb	500	7 Feb
1950-51....	40	3 May	30	4 May
1951-52....	2,830	30 Dec	1,760	30 Dec
1952-53....	144	7 Jan	109	8 Jan
1953-54....	7,340	25 Jan	3,400	25 Jan
1954-55....	313	17 Feb	207	17 Feb
1955-56....	6,740	27 Jan	3,550	27 Jan
1956-57....	11,500	13 Jan	4,070	12 Jan
1957-58....	12,400	3 Apr	4,590	3 Apr
1958-59....	6,920	16 Feb	843	17 Feb
1959-60....	112	24 Apr	53	14 Mar
1960-61....	1,580	4 Aug	133	4 Aug
1961-62....	7,040	11 Feb	4,150	11 Feb
1962-63....	627	10 Feb	214	10 Feb
1963-64....	409	1 Apr	275	1 Apr
1964-65....	443	23 Apr	313	25 Apr
1965-66....	21,700	22 Nov	6,480	23Nov/29Dec
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See footnotes at end of table.

Table 4--Continued

Runoff Data - Deep Creek near Hesperia\*

Years**	Maximum peak discharge	Date	Maximum mean daily discharge	Date
	<u>Cubic feet per second</u>		<u>Cubic feet per second</u>	
1966-67.....	15,400	6 Dec	9,980	6 Dec
1967-68.....	654	20 Nov	411	20 Nov
1968-69.....	23,000	25 Jan	14,700	25 Jan
1969-70.....	559	28 Feb	343	1 Mar
1970-71.....	3,320	29 Nov	687	29 Nov
1971-72.....	8,910	24 Dec	3,240	24 Dec
1972-73.....	6,810	11 Feb	2,180	11 Feb
1973-74.....	1,020	2 Mar	391	2 Mar
1974-75.....	503	8 Mar	207	8 Mar
1975-76.....	5,050	11 Sep	1,480	9 Feb
1976-77.....	696	8 May	324	9 May
1977-78.....	24,800	4 Mar	11,000	4 Mar
1978-79.....	5,690	27 Mar	2,920	28 Mar
1979-80.....	16,400	17 Feb	7,700	17 Feb
1980-81.....	130	1 Mar	74	20 Mar
1981-82.....	2,900	11 Apr	1,180	12 Apr
1982-83.....	16,600	1 Mar	8,280	1 Mar
1983-84.....	4,690	25 Dec	2,250	25 Dec

\* Latitude 34°20'28"N; longitude 117°13'39"W; in NW 1/4 NE 1/4 SE 1/4, sec 18, T.3N, R.3W. San Bernardino County on right bank 0.5 mile upstream from confluence with West Fork Mojave River and 7 miles southeast of Hesperia. Data from U.S.G.S. Water Records of California.

\*\* 1 October to 30 September, inclusive.

Note: Period of record for discharge is 55 years (1930-1984).

Table 5

## Runoff Data - West Fork Mojave River near Hesperia\*

Year**	Maximum peak discharge	Date	Maximum mean daily discharge	Date
	<u>Cubic feet per second</u>		<u>Cubic feet per second</u>	
1929-30....	518	14 Mar	264	15 Mar
1930-31....	712	26 Apr	248	26 Apr
1931-32....	6,000	9 Feb	2,630	9 Feb
1932-33....	464	19 Jan	123	20 Jan
1933-34....	1,380	1 Jan	946	1 Jan
1934-35....	1,280	8 Apr	466	8 Apr
1935-36....	418	11 Feb	188	15 Feb
1936-37....	4,100	13 Mar	1,960	14 Feb
1937-38....	26,100	2 Mar	7,000	2 Mar
1938-39....	681	19 Dec	316	19 Dec
1939-40....	1,390	8 Jan	344	8 Jan
1940-41....	2,280	4 Mar	1,530	4 Mar
1941-42....	450	10 Dec	126	11 Dec
1942-43....	23,000	23 Jan	6,000	23 Jan
1943-44....	6,600	22 Feb	3,270	22 Feb
1944-45....	2,350	2 Feb	1,120	2 Feb
1945-46....	6,600	30 Mar	2,330	30 Mar
1946-47....	3,000	13/20Nov	1,100	20 Nov
1947-48....	700	3 Apr	203	4 Apr
1948-49....	335	20 Jan	225	20 Jan
1949-50....	706	19 Dec	322	19 Dec
1950-51....	109	28 Apr	50	27Nov/29Jan
1951-52....	6,780	15 Mar	2,340	16 Jan
1952-53....	117	20 Mar	60	20 Mar
1953-54....	2,440	25 Jan	953	25 Jan
1954-55....	261	27 Feb	140	28 Feb
1955-56....	880	27 Jan	506	27 Jan
1956-57....	562	13 Jan	237	13 Jan
1957-58....	10,200	3 Apr	3,120	3 Apr
1958-59....	2,800	16 Feb	688	16 Feb
1959-60....	856	2 Sep	37	2 Sep
1960-61....	296	6 Nov	44	6 Nov
1961-62....	3,750	11 Feb	1,430	12 Feb
1962-63....	164	18 Sep	32	18 Sep
1963-64....	198	1 Apr	112	2 Apr
1964-65....	1,460	9 Apr	492	10 Apr
1965-66....	21,200	29 Dec	4,910	29 Dec
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See footnotes at end of table.

Table 5--Continued

Runoff Data - West Fork Mojave River near Hesperia\*

Years**	Maximum peak discharge	Date	Maximum mean daily discharge	Date
	<u>Cubic feet per second</u>		<u>Cubic feet per second</u>	
1966-67.....	6,320	6 Dec	2,880	6 Dec
1967-68.....	755	20 Nov	325	20 Nov
1968-69.....	20,000	25 Feb	11,100	25 Feb
1969-70.....	494	2 Mar	330	2 Mar
1970-71.....	2,200	29 Nov	447	29 Nov
1971-72.....	Discontinued			
1972-73.....	Discontinued			
1973-74.....	Discontinued			
1974-75.....	324	8 Mar	170	8 Mar
1975-76.....	1,510	9 Feb	886	9 Feb
1976-77.....	302	8 May	131	9 May
1977-78.....	11,300	10 Feb	4,900	10 Feb
1978-79.....	1,180	28 Mar	883	28 Mar
1979-80.....	8,380	16 Feb	3,150	16 Feb
1980-81.....	252	29 Jan	132	30 Jan
1981-82.....	3,200	17 Mar	1,240	17 Mar
1982-83.....	5,500	2 Mar	4,490	2 Mar
1983-84.....	1,180	25 Dec	559	26 Dec

\* 1929-1971: Latitude  $34^{\circ}20'27''N$ ; longitude  $117^{\circ}14'24''W$ ; in SW  $\frac{1}{4}$  SW  $\frac{1}{4}$ , Sec. 18, T.3N., R.3W., San Bernardino County, on left bank at highway bridge 0.5 mile upstream from confluence with Deep Creek and 6.5 miles southeast of Hesperia. Data from U.S.G.S. Water Records of California, discontinued September 1971.

1974-1984: Lat  $34^{\circ}20'20''N$ ; longitude  $117^{\circ}15'25''W$ ; in NW  $\frac{1}{4}$  NW  $\frac{1}{4}$ , sec. 24, T.3N., R.4W., San Bernardino County, on left bank on upstream wingwall of concrete double box culvert on Arrowhead Lake Road, 0.1 mi (0.2 km) northeast of junction with Highway 174, and 6.5 mi (10.5 km) southeast of Hesperia. Data from U.S.G.S. Water Records of California.

\*\* 1 October to 30 September, inclusive.

Note: Period of record for discharge is 51 years (1930-1971) and (1975-1984).

Table 6

Area and Gross Capacity - Mojave River Dam

Elevation	Capacity	Area	Elevation	Capacity	Area
<u>Feet above:</u> <u>mean sea</u>			<u>Feet above:</u> <u>mean sea</u>		
<u>level</u>	<u>Acre-feet</u>	<u>Acres</u>	<u>level</u>	<u>Acre-feet</u>	<u>Acres</u>
2980	0.0	2	3018	1,090	90
2981	3.3	3	3019	1,183	99
2982	7.1	4	3020	1,280	108
2983	11.2	5	3021	1,402	116
2984	15.5	5	3022	1,531	123
2985	20.0	6	3023	1,670	132
2986	27.3	7	3024	1,817	140
2987	35.4	8	3025	1,973	149
2988	44.5	10	3026	2,119	157
2989	54.3	11	3027	2,271	165
2990	65.0	12	3028	2,432	174
2991	77.8	13	3029	2,599	183
2992	91.8	14	3030	2,775	192
2993	107.0	16	3031	2,971	200
2994	123.0	17	3032	3,172	207
2995	140.0	18	3033	3,381	215
2996	158.0	19	3034	3,601	222
2997	178.0	20	3035	3,830	230
2998	199.0	21	3036	4,059	237
2999	220.0	22	3037	4,297	244
3000	243.0	23	3038	4,545	251
3001	268.0	25	3039	4,803	259
3002	294.0	26	3040	5,070	266
3003	321.0	28	3041	5,340	275
3004	349.0	29	3042	5,620	284
3005	378.0	31	3043	5,910	293
3006	412.0	33	3044	6,209	303
3007	448.0	36	3045	6,519	312
3008	485.0	39	3046	6,832	320
3009	505.0	41	3047	7,154	329
3010	565.0	44	3048	7,487	338
3011	615.0	48	3049	7,830	346
3012	668.0	53	3050	8,183	355
3013	724.0	57	3051	8,544	366
3014	782.0	62	3052	8,915	376
3015	843.0	67	3053	9,297	387
3016	921.0	74	3054	9,689	398
3017	1003.0	82	3055	10,093	409
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Table 6 -- Continued

Area and Gross Capacity - Mojave River Dam

Elevation	Capacity	Area	Elevation	Capacity	Area
Feet above: mean sea			Feet above: mean sea		
Level	Acre-feet	Acres	Level	Acre-feet	Acres
3056	10,504	418	3095	35,298	941
3057	10,925	430	3096	36,248	957
3058	11,358	438	3097	37,214	975
3059	11,802	447	3098	38,198	992
3060	12,258	457	3099	39,199	1010
3061	12,712	465	3100	40,218	1027
3062	13,177	473	3101	41,264	1049
3063	13,654	480	3102	42,328	1071
3064	14,141	488	3103	43,410	1093
3065	14,640	496	3104	44,511	1115
3066	15,153	505	3105	45,630	1138
3067	15,678	514	3106	46,785	1160
3068	16,215	523	3107	47,959	1182
3069	16,764	533	3108	49,154	1205
3070	17,325	542	3109	50,368	1228
3071	17,857	553	3110	51,603	1251
3072	18,400	565	3111	52,873	1275
3073	18,953	577	3112	54,163	1299
3074	19,516	588	3113	55,476	1324
3075	20,090	600	3114	56,810	1349
3076	20,701	614	3115	58,165	1374
3077	21,323	627	3116	59,556	1399
3078	21,958	641	3117	60,969	1423
3079	22,604	655	3118	62,406	1448
3080	23,263	669	3119	63,865	1474
3081	23,949	686	3120	65,348	1499
3082	24,647	703	3121	66,884	1533
3083	25,359	720	3122	68,445	1567
3084	26,084	737	3123	70,030	1602
3085	26,823	755	3124	71,642	1637
3086	27,595	773	3125	73,278	1673
3087	28,381	791	3126	74,976	1705
3088	29,182	809	3127	76,702	1737
3089	29,997	828	3128	78,455	1769
3090	30,828	847	3129	80,236	1801
3091	31,690	865	3130	82,045	1834
3092	32,567	884	3131	83,904	1870
3093	33,461	903	3132	85,792	1906
3094	34,371	922	3133	87,709	1942
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Table 6--Continued

Area and Gross Capacity - Mojave River Dam

Elevation	Capacity	Area	Elevation	Capacity	Area
<u>Feet above</u>			<u>Feet above</u>		
<u>mean sea</u>			<u>mean sea</u>		
<u>level</u>	<u>Acre-feet</u>	<u>Acres</u>	<u>level</u>	<u>Acre-feet</u>	<u>Acres</u>
* 3134	89,672	1980	3154	136,350	2679
3135	91,665	2014	3155	139,055	2712
3136	93,707	2050	3156	141,781	2747
3137	95,780	2086	3157	144,545	2783
3138	97,886	2123	3158	147,346	2819
3139	100,024	2160	3159	150,185	2855
3140	102,195	2198	3160	153,063	2891
3141	104,410	2231	3161	155,988	2936
3142	106,658	2265	3162	158,953	2981
3143	108,940	2299	3163	161,957	3026
3144	111,257	2333	3164	165,001	3072
3145	113,608	2367	3165	168,085	3118
3146	115,995	2403	3166	171,227	3160
3147	118,418	2439	3167	174,410	3202
3148	120,876	2476	3168	177,635	3245
3149	123,370	2513	3169	180,901	3289
3150	125,900	2550	3170	184,210	3332
3151	128,457	2582	** 3171	187,546	3361
3152	131,051	2614	** 3172	190,925	3390
3153	133,682	2647			

Based on Survey of 1965.

\* Spillway Crest

\*\* Top of Dam

Table 7  
TRAVEL TIMES FOR OUTFLOW FROM  
MOJAVE RIVER DAM TO REACH  
DOWNSTREAM POINTS OF INTEREST

Location	River Miles Below Mojave River Dam	Travel Time *
	<u>Miles</u>	<u>Hours</u>
Hesperia	6	2
Victorville	15	4
Oro Grande	20	6
Helendale	32	10
Hodge	41	15
Barstow	54	17
Daggett	63	19
Soda Lake	116	30

\*Based on steady flow conditions for the peak outflow of the reservoir design flood plus contemporaneous flow from tributaries located downstream of the dam.