OPERATION OF MATILIJA RESERVOIR

January 1, 1958 to June 30, 1958 Inclusive

The operation of Matilija Reservoir for the first six months of 1958 is shown on the attached tables and graphs. The information is summarized as follows:

Distribution of Water

Passed down Ventura River

From Inflow	437 Ac. Ft.	
From Storage	150 Ac. Ft.	
Overflow	62,594 Ac. Ft.	
Matilija Conduit Sales:		
Ventura River Valley	1 Ac. Ft.	
		63,182 Ac. Ft.

Diverted to Ojai Valley

Matilija Conduit:

Spreading	1,223 Ac. Ft.	
Sales	115 Ac. Ft.	
		1,338 Ac. Ft.

Net Amount Captured in Storage	384 Ac. Ft.
Total Inflow without correction for Evaporation	64,904 Ac. Ft.
Net Evaporation (Rainfall exceeded Evaporation)	- 215 Ac. Ft.
Net Inflow to Reservoir	64,689 Ac. Ft.

Precipitation

Total rainfall July 1, 1957 to June 30, 1958 at Matilija Dam was 52.65 inches. Rainfall recorded at the upper end of Matilija Reservoir totalled 59.79 inches for the same period. Heaviest concentration for the season recorded at the station at the upper end of the Reservoir occurred during three storm periods as follows:

December 15 and 16, 1957	9.26 inches
February 2, 3 & 4, 1958	9.00 inches
April 1, 2, and 3, 1958	9.80 inches

Evaporation

Evaporation rates for the six-month period at stations located above and below the dam are shown in a table attached to this report.

Matilija Reservoir

Inflow to the Reservoir on June 30, 1958 was 24 c.f.s. compared to 2 c.f.s. a year ago. The dam was overflowing at the rate of approximately 19 c.f.s. on June 30, 1958.

Ojai Valley

Diversion from the Matilija Project to Ojai Spreading Grounds began on January 2, 1958 and is continuing at present date./ A total of 1,223 acre feet was spread during the period. Spreading records are attached to this report.

Groundwater elevations in the valley average 80 feet higher than the elevation a year ago and 24 feet higher than the elevation during the wet year of 1952. A hydrograph of a well in this vicinity showing groundwater elevations is attached to this report.

Ventura River

The groundwater elevations average 6 feet higher than the elevation a year ago. A hydrograph of a well showing groundwater elevations in this vicinity is attached to this report.

C. White
Engineer-Manager
Ventura County Flood Control Dist.

COUNTY OF VENTURA
DEPARTMENT OF PUBLIC WORKS
COURTHOUSE
VENTURA, CALIFORNIA

January 21, 1959

FROM: Engineer-Manager, Ventura County Flood Control District

TO: Chief of Water Resources

SUBJECT: SUMMARY OF OPERATION OF MATILIJA RESERVOIR

Transmitted herewith is a report on "Summary of Operation of Matilija Reservoir" by Ventura County Flood Control District for the period January 1, 1948 to December 31, 1958, inclusive.

In accordance with the provisions of an agreement between Ventura County Flood Control District and Ventura River Municipal Water District, operation and maintenance of Matilija Reservoir was taken over by Ventura River Municipal Water District, effective January 1, 1959.

C. White
Engineer-Manager

CW:he

First Endorsement

FROM: Chief of Water Resources

TO: Director of Public Works

SUBJECT: SUMMARY OF OPERATION OF MATILIJA RESERVOIR

Forwarded herewith is a report on "Summary of Operation of Matilija Reservoir" by Ventura County Flood Control District for the period January 1, 1948 to December 31, 1958, inclusive, for your information and further transmission to the Board of Supervisors, Ventura County Flood Control District, for their information and files.

H. P. Needham
Chief of Water Resources

HPN:he

COUNTY OF VENTURA
DEPARTMENT OF PUBLIC WORKS
COURTHOUSE
VENTURA, CALIFORNIA

January 26, 1959

Board of Supervisors
Ventura County Flood Control District
Ventura, California

Subject SUMMARY OF OPERATION OF MATILIJA RESERVOIR

There are forwarded herewith copies of the "Summary of Operation of Matilija Reservoir" by Ventura County Flood Control District for the period January 1, 1948 to December 31, 1958, inclusive, for the information and files of the Board and its members.

M. C. Lorenz
Director

HPN:he

Attach.

SUMMARY OF OPERATION OF MATILIJA RESERVOIR
Ventura County Flood Control District
January 1, 1948 to December 31, 1958, Inclusive

1948 - Inflow was passed through the sluice gate (elevation 1000) until March 14, 1948, at which time the gate was closed. Water surface reached the outlet pipe (elevation 1025) on April 2, 1948. Maximum amount stored during the year was 351 acre feet at elevation 1029.90. This small amount of storage occurred during a period when the flow from North Fork Creek met the needs of the upper surface diversions. All water was released down Ventura River during the summer months.

1949 - Maximum amount stored during this year was 902 acre feet at elevation 1046.68. This occurred on April 25, 1949. All water was released down Ventura River during the summer months.

1950 - Maximum amount stored during this year was 1890 acre feet at elevation 1066.68. This occurred on May 7, 1950. A total of 1300 acre feet of this water was released down Ventura River. Release was stopped on October 26, 1950, at which time water surface elevation was 1038.26, storage equalled 590 acre feet.

1951 - Maximum amount stored was 692 acre feet at elevation 1041.30, which occurred on March 7, 1951. The pipe line to Ojai Spreading Grounds was completed in the spring months of this year. During the period May 8, 1951 to June 16, 1951, 253 acre feet of stored water were diverted to spreading grounds. The remainder of the water was released down Ventura River. Sluice gate elevation was reached on July 26, 1951. All inflow passed through the sluice gate with no storage until January 1952. The inflow reached a low of 0.35 second feet during the fall.

1952 - There was no shortage of water during this year. Rainfall was heavy and the reservoir filled and overflowed for the first time since completion on January 15, 1952. Overflow continued until June 17, 1952. Sale of water started during this year and water was again diverted to spreading. Table No. 8 shows distribution of the water during this year.

1953 - The amount in storage on January 1, 1953 was 6960 acre feet. The reservoir again filled and overflowed in January of this year. Overflow stopped in April. Table No. 9 shows distribution of the water.

1954 - The amount in storage on January 1, 1954 was 5097 acre feet. The reservoir filled and overflowed in February of this year. Overflow stopped in June. Table No. 10 shows distribution of the water.

1955 - The amount in storage on January 1, 1955 was 5100 acre feet. The reservoir did not fill this year. Maximum storage was 6220 acre feet which occurred on May 13, 1955. No water was spread during this year. Table No. 11 shows distribution of the water.

1956 - The amount in storage on January 1, 1956 was 4545 acre feet. The reservoir filled and overflowed during January. Overflow stopped in June. Table No. 12 shows distribution of the water.

1957 - The amount in storage on January 1, 1957 was 4572 acre feet. The reservoir filled and overflowed during March. Overflow stopped in May. Due to lowered water levels in wells down Ventura River, additional allocations were made to both Ojai and Ventura River late in the summer of this year. A 10" line was installed near the pipe line crossing on Ventura River at McCaleb's. An additional 277 acre feet were released down Ventura River through this line in October to assist in alleviating the ground water shortage in the area. Water users in the Ojai were allowed additional allocations for irrigation purposes. Heavy rainfall in December added 2078 acre feet in storage during the month. Table No. 13 shows the distribution of the water.

1958 - The amount in storage on January 1, 1958 was 6616 acre feet. The reservoir filled and overflowed approximately February 1, 1958. Overflow did not stop until October. Construction of Robles-Casitas Diversion Dam, pipe lines etc. in Ventura River below Matilija Dam was in progress throughout most of the summer. The usual amount of water was not released down Ventura River during this year, since it would hamper construction operations at the Robles Diversion. Due to heavy rainfall in the year 1957-58, water needs in this area were taken care of. Storage in the reservoir on December 31, 1958 was 6767 acre feet. Table No. 14 shows the distribution of water. In accordance with the provisions of an agreement between the Ventura County Flood Control District and Ventura River Municipal Water District, the maintenance and operation of Matilija Reservoir, Matilija Dam, Matilija Conduit and appurtenant works was taken over by Ventura River Municipal Water District on January 1, 1959.

MATILIJA DAM STATISTICS

1. Date Completed - 1947
2. Designed by - Donald R. Warren Company
3. Constructed by - Guy F. Atkinson Company;
   Bressie and Bevanda Construction
   Incorporated and
   W. E. Kier Construction Company
4. Height of Dam above streambed - To Crest 198 ft.
   To lowest spillway 185 ft.
5. Length along crest - 620 ft.
6. Thickness - At Top 8 ft. At Bottom 50 ft.
7. Elevation above Sea Level - Crest 1138 ft.
   Lowest Spillway 1125 ft.
8. Concrete Yardage - 51,000 cubic yards.
9. Reservoir Storage at Spillway Level - 7018 Acre Feet
10. Reservoir Area at Spillway Level - 126.8 Acres
11. Drainage Area of Matilija Creek Above Dam - 55 Square Miles
12. Spillway Capacity - 60,000 cfs at Water Surface
    Elevation 1137 ft.

TABLES

PLATES

ANNUAL INFLOW AND DISTRIBUTION OF WATER
MATILIJA RESERVOIR

Table No. 2

Year	In-flow	Amount of Inflow Passed Down River	Release From Storage Down River	Sales	Spreading	Evapo-ration	Change in Storage	Over-flow
	ACRE FT.	ACRE FT.	ACRE FT.	ACRE FT.	ACRE FT.	ACRE FT.	ACRE FT.	ACRE FT.
1949	2,417	All inflow and storage released down Ventura River.						
1950	3,135	All inflow and storage released down Ventura River.						
1951	1,169				253	Remainder of inflow and storage released down Ventura River.		
1952	46,445	35,885	114	38	3,234	317	+ 6,857	32,610
1953	5,954	4,556	1,191	397	1,118	555	- 1,863	2,227
1954	7,774	4,753	1,201	552	940	325	+ 3	2,464
1955	4,265	2,535	1,516	498	None	271	- 555	None
1956	7,608	3,871	1,367	643	1,341	359	+ 27	2,195
1957	6,714	1,771	1,669	560	478	192	+ 2,044	573
1958	68,111	65,040	150	397	2,249	124	+ 151	63,753

Maximum Instantaneous Discharge

1949 March 11 - 60 c.f.s.
1950 February 6 - 155 c.f.s.
1951 April 28 - 5.7 c.f.s.
1952 January 15 - 8,800 c.f.s.
1953 December 20 - 235 c.f.s.
1954 February 13 - 582 c.f.s.
1955 January 18 - 66 c.f.s.
1956 January 26 - 1,040 c.f.s.
1957 January 13 - 1,770 c.f.s
1958 April 3 - 6,200 c.f.s

Table No. 3

ANNUAL RAINFALL - SHELDON RANCH NEAR MATILIJA DAM

Rainfall Year July 1 to June 30, Inclusive

1947 - 48	10.25 inches
1948 - 49	12.49 inches
1949 - 50	16.54 inches
1950 - 51	11.01 inches
1951 - 52	39.63 inches
1952 - 53	13.76 inches
1953 - 54	20.30 inches
1954 - 55	16.81 inches
1955 - 56	24.53 inches
1956 - 57	18.44 inches
1957 - 58	46.11 inches

56 year average for above station = 24.70 inches

Table No. 4

ANNUAL RAINFALL

MATILIJA CREEK ABOVE RESERVOIR

A rainfall station was established and put into operation immediately above Matilija Reservoir in December, 1951. Annual totals at this station follow:

1951 - 52	51.08 inches (Partial Estimate)
1952 - 53	16.99 inches
1953 - 54	24.33 inches
1954 - 55	22.10 inches
1955 - 56	27.48 inches
1956 - 57	23.63 inches
1957 - 58	59.79 inches

7-year average for above station = 32.20 inches

The rainfall station immediately above Matilija Reservoir has only been in operation for a period of 7 years; however, by comparison, this area seems to receive approximately 25% greater rainfall than that at Sheldon's Ranch, which is located approximately one mile below the Reservoir.

Table No. 5

EVAPORATION IN FEET ABOVE AND BELOW MATILIJA RESERVOIR

1952

Month	Monthly Coeff. State Bulletin No. 54 Table-10	SOPER RANCH Lat. 34°-28.83' Long. 119°-17.56' Pan Evap.	SOPER RANCH Lat. 34°-28.83' Long. 119°-17.56' Lake Evap.	ABOVE MATILIJA RESERVOIR Lat. 34°-29.63' Long. 119°-19.68' Pan Evap.	ABOVE MATILIJA RESERVOIR Lat. 34°-29.63' Long. 119°-19.68' Lake Evap.
Jan.	0.96				
Feb.	.77				
Mar.	.92				
Apr.	.87	.363	.316	.352	.306
May	.90	.483	.435	.556	.500
Jun.	.99	.468	.463	.561	.555
Jul.	.95	.612	.581	.703	.668
Aug.	1.02	.672	.685	.767	.783
Sep.	1.10	.621	.683	.663	.729
Oct.	1.12	.373	.418	.428	.479
Nov.	1.12	.295	.330	.234	.262
Dec.	1.03	.200	.206	.184	.190
TOTAL	0.98				

1953

Jan.	0.96	.216	.207	.162	.156
Feb.	.77	.380	.293	.324	.249
Mar.	.92	.351	.323	.349	.321
Apr.	.87	.351	.305	.402	.350
May	.90	.510	.459	.561	.505
Jun.	.99	.501	.496	.566	.560
Jul.	.95	.711	.675	.825	.784
Aug.	1.02	.635	.648	.743	.758
Sep.	1.10	.552	.607	.616	.678
Oct.	1.12	.533	.597	.512	.573
Nov.	1.12	.348	.390	.305	.342
Dec.	1.03	.370	.381	.295	.304
TOTAL	0.98	5.458	5.381	5.660	5.580

1954

Jan.	0.96	.260	.250	.190	.182
Feb.	.77	.386	.297	.262	.202
Mar.	.92	.257	.236	.232	.213
Apr.	.87	.317	.276	.361	.314
May	.90	.336	.302	.441	.397
Jun.	.99	.440	.436	.573	.567
Jul.	.95	.595	.565	.747	.710
Aug.	1.02	.567	.578	.667	.680
Sep.	1.10	.557	.613	.639	.703
Oct.	1.12	.412	.461	.457	.512
Nov.	1.12	.320	.358	.268	.300
Dec.	1.03	.222	.229	.172	.177
TOTAL	0.98	4.669	4.601	5.009	4.957

Table No. 5

EVAPORATION IN FEET ABOVE AND BELOW MATILIJA RESERVOIR

1955

Month	Monthly Coeff. State Bulletin No. 54 Table-10	SOPER RANCH Lat. 34°-28.83' Long. 119°-17.56' Pan Evap.	SOPER RANCH Lat. 34°-28.83' Long. 119°-17.56' Lake Evap.	ABOVE MATILIJA RESERVOIR Lat. 34°-29.63' Long. 119°-19.68' Pan Evap.	ABOVE MATILIJA RESERVOIR Lat. 34°-29.63' Long. 119°-19.68' Lake Evap.
Jan.	0.96	.163	.156	.090	.086
Feb.	.77	.241	.186	.200	.154
Mar.	.92	.310	.285	.308	.283
Apr.	.87	.460	.400	.460	.400
May	.90	.339	.305	.409	.368
Jun.	.99	.424	.420	.518	.513
Jul.	.95	.565	.537	.672	.638
Aug.	1.02	.636	.649	.750	.765
Sep.	1.10	.590	.649	.652	.717
Oct.	1.12	.358	.401	.403	.451
Nov.	1.12	.269	.301	.245	.274
Dec.	1.03	.136	.140	.106	.109
TOTAL	0.98	4.491	4.429	4.813	4.758

1956

Jan.	0.96	.134	.129	.116	.111
Feb.	.77	.161	.124	.165	.127
Mar.	.92	.353	.325	.394	.362
Apr.	.87	.255	.222	.296	.258
May	.90	.284	.256	.373	.336
Jun.	.99	.441	.437	.546	.541
Jul.	.95	.551	.523	.665	.632
Aug.	1.02	.540	.551	.619	.631
Sep.	1.10	.536	.590	.620	.682
Oct.	1.12	.336	.376	.362	.405
Nov.	1.12	.444	.497	.365	.409
Dec.	1.03	.343	.353	.273	.281
TOTAL	0.98	4.378	4.383	4.794	4.775

1957

Jan.	0.96	.166	.159	.124	.119
Feb.	.77	.102	.079	.083	.064
Mar.	.92	.279	.257	.356	.328
Apr.	.87	.290	.252	.357	.311
May	.90	.338	.304	.408	.367
Jun.	.99	.530	.525	.611	.605
Jul.	.95	.670	.636	.747	.710
Aug.	1.02	.617	.629	.732	.747
Sep.	1.10	.474	.521	.547	.602
Oct.	1.12	.285	.319	.298	.334
Nov.	1.12	.227	.254	.210	.235
Dec.	1.03	.220	.227	.153	.158
TOTAL	10.98	4.198	4.162	4.626	4.580

Table No. 5

EVAPORATION IN FEET ABOVE AND BELOW MATILIJA RESERVOIR

1958

Month	Monthly Coeff. State Bulletin No. 54 Table-10	SOPER RANCH Lat. 34°-28.83' Long. 119°-17.56' Pan Evap.	SOPER RANCH Lake Evap.	ABOVE MATILIJA RESERVOIR Lat. 34°-29.63' Long. 119°-19.68' Pan Evap.	ABOVE MATILIJA RESERVOIR Lake Evap.
Jan.	0.96	.195	.187	.171	.164
Feb.	.77	.117	.090	.113	.087
Mar.	.92	.148	.136	.165	.152
Apr.	.87	.380	.331	.388	.338
May	.90	.386	.347	.438	.394
Jun.	.99	.511	.506	.673	.666
Jul.	.95	.578	.549	.638	.606
Aug.	1.02	.522	.532	.616	.628
Sep.	1.10	.516	.568	.542	.596
Oct.	1.12	.437	.489	.414	.464
Nov.	1.12	.298	.334	.253	.283
Dec.	1.03	.265	.273	.205	.211
TOTAL	0.98	4.353	4.342	4.616	4.589

1959

Jan.	0.96	.195	.187	.185	.178
Feb.	.77	.138	.106	.170	.131
Mar.	.92	.375	.345	.442	.407
Apr.	.87	.315	.274	.409	.356
May	.90	.391	.352	.528	.475
Jun.	.99	.491	.486	.616	.610
Jul.	.95	.640	.608	.758	.720
Aug.	1.02	.537	.548	.681	.695
Sep.	1.10	.419	.461	.508	.559
Oct.	1.12	.498	.558	.438	.491
Nov.	1.12	.490	.549	.347	.389
Dec.	1.03	.328	.338	.254	.262
TOTAL	0.98	4.817	4.812	5.336	5.273

1960

Jan.	0.96	.163	.156	.125	.120
Feb.	.77	.225	.173	.176	.136
Mar.	.92	.352	.324	.332	.305
Apr.	.87	.561	.488	.509	.443
May	.90	.628	.565	.604	.544
Jun.	.99	.566	.560	.618	.612
Jul.	.95	.774	.735	.819	.778
Aug.	1.02	.677	.691	.767	.782
Sep.	1.10	.642	.706	.653	.718
Oct.	1.12	.464	.520	.458	.502
Nov.	1.12	.226	.253	.174	.195
Dec.	1.03	.261	.268	.189	.195
TOTAL	0.98	5.539	5.436	5.424	5.330

AMOUNT OF WATER SPREAD IN OJAI VALLEY

FROM

MATILIJA PROJECT

Table No. 6

Acre-Feet

Month	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57
Oct.	0	0	322	0	0	0	0
Nov.	0	0	300	0	0	0	0
Dec.	0	0	296	66	0	0	0
Jan.	0	77	155	0	0	41	0
Feb.	0	268	209	113	0	276	0
Mar.	0	257	311	266	0	221	236
Apr.	0	274	235	288	0	237	180
May.	0	293	123	255	0	270	63
Jun.	253	240	0	18	0	189	0
Jul.	0	301	0	0	0	95	0
Aug.	0	324	0	0	0	0	0
Sep.	0	282	0	0	0	0	0
Annual Total	253	2316	1951	1006	0	1329	479
Accumulated Total	253	2569	4520	5526	5526	6855	7334

AMOUNT OF WATER SPREAD IN OJAI VALLEY

FROM

MATILIJA PROJECT

Table No. 6

Acre-Feet

Month	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64
Oct.	0	236	0				
Nov.	0	185	0				
Dec.	0	218	5				
Jan.	260	Operation taken over by Ventura River Municipal Water Dist. Effective Jan. 1, 1959.			82		
Feb.	247						
Mar.	270	229 MO			82		
Apr.	168	198					
May	64	0					
Jun.	214	63					
Jul.	104	0					
Aug.	88	0					
Sep.	196	0					
Annual Total	1611	639					
Accumulated Total	8945	9584					

Table No. 7

ANNUAL SALE OF WATER FROM MATILIJA RESERVOIR

Year	Amount of Water Sold Acre Feet	Unit Price Acre Foot	Total Amount
1952	38.32	$ 10.00	$ 383.20
1953	397.24	10.00	3,972.40
1954	552.12	25.00	13,803.00
1955	498.47	25.00	12,461.75
1956	643.23	25.00	16,080.75
1957	560.16	25.00	14,004.00
1958	396.87	25.00	a 10,205.95
Grand Totals	3,086.41		$ 70,911.05

a Includes 947,400 gallons sold to Hasler-Case Construction Company @ 15 cents per 500 gallons.

Operation of Matilija Reservoir - 1952 **Table No. 8**

Acre Feet

Month	Reservoir First of Month		Inflow	Am't. of inflow passed down river	Released from Reservoir				Change in Storage	Am't. in Storage end of Month	Over-flow
	Water S. Elev.	Am't. in Storage			Down River	To Ojai Valley	Evapo-ration	Total			
	1	2	3	4	5	6	7	8	9	10	11
Jan	1012.34	103	17,870	10,896	0	77	-	77	+6897	7000	10,896
Feb	1125.25	7000	2,700	2,432	0	268	-	268	0	7000	2,432
Mar	1125.05	7000	12,370	12,113	0	257	-	257	0	7000	12,113
Apr	1125.15	7000	4,650	4,376	0	274	-	274	0	7000	4,376
May	1124.98	7000	2,130	1,837	0	293	-	293	0	7000	1,837
JJun	1124.92	7000	1,260	956	0	240	64	304	0	7000	956
Jul	1124.76	7000	859	555	0	301	78	379	-75	6925	0
Aug	1124.25	6925	1,108	852	0	324	92	416	-160	6765	0
Sep	1122.95	6765	725	725	114	320	85	519	-519	6246	0
Oct	1118.65	6246	589	521	0	322	52	374	-306	5940	0
Nov	1116.00	5940	745	224	0	300	+ 5	295	+226	6166	0
Dec	1117.95	6166	1,439	398	0	296	+49	247	+794	6960	0
Total			46,445	35,885	114	3272 a	317	3703	+6857		32,610

Note: No surface flow at Santa Ana Boulevard Jun. 22, 1952 until Nov. 1952.
a = Includes 20 ac. ft. sold and used in Upper Ventura River Valley.

Operation of Matilija Reservoir - 1953 **Table No. 9**

Acre Feet

Month	Reservoir First of Month		Inflow	Am't. of inflow passed down river	Released from Reservoir				Change in Storage	Am't. in Storage end of Month	Over-flow
	Water S Elev.	Am't. in Storage			Down River	To Ojai Valley	Evapo-ration	Total			
	1	2	3	4	5	6	7	8	9	10	11
Jan	1124.53	6960	1690	1491	0	155	4	159	+40	7000	1221
Feb	1124.92	7000	950	707	0	209	34	243	0	7000	637
Mar	1124.87	7000	792	446	0	311	35	346	0	7000	369
Apr	1124.85	7000	499	241	0	267	23	290	-32	6968	0
May	1124.59	6968	419	280	0	143	59	202	-63	6905	0
Jun	1124.08	6905	347	347	22	28	65	115	-115	6790	0
Jul	1123.15	6790	244	244	553	49	87	689	-689	6101	0
Aug	1117.40	6101	184	184	385	75	78	538	-538	5563	0
Sep	1112.58	5563	143	143	134	77	68	279	-279	5284	0
Oct	1110.00	5284	157	157	97	71	61	229	-229	5055	0
Nov	1107.74	5055	287	139	0	26	6	32	+116	5171	0
Dec	1108.89	5171	242	177	0	104	35	139	-74	5097	0
Total			5954	4556	1191	1515 (a)	555	3261	-1863 ~~-1903~~		2227

Note: No water passing Santa Ana Blvd. since March 27, 1953.
" " " Ventura City Intake since March 27, 1953

(a) Includes 52 acre feet sold and used in upper Ventura River Valley.

Operation of Matilija Reservoir - 1954 **Table No. 10**

Acre Feet

Month	Reservoir First of Month		Inflow	Am't. of inflow passed down river	Released from Reservoir				Change in Storage	Am't. in Storage end of Month	Over-flow
	Water S Elev.	Am't. in Storage			Down River	To Ojai Valley	Evapo-ration	Total			
	1	2	3	4	5	6	7	8	9	10	11
Jan	1108.16	5097	961	235	0	2	+42	+ 40	+ 766	5863	0
Feb	1115.34	5863	1600	373	0	114	+24	- 90	+1137	7000	219
Mar	1124.86	7000	1600	1363	0	260	+32	-237	0	7000	964
Apr	1124.97	7000	1462	1132	0	298	-32	-330	0	7000	1037
May	1124.87	7000	645	313	0	288	-44	-332	0	7000	244
Jun	1124.82	7000	345	333	0	120	-63	-183	- 171	6829	0
Jul	1123.47	6829	240	240	492	100	-77	-669	- 669	6160	0
Aug	1117.91	6160	181	181	524	81	-75	-680	- 680	5480	0
Sep	1111.82	5480	117	117	101	91	-69	-261	- 261	5219	0
Oct	1109.36	5219	112	112	65	82	-50	-197	- 197	5022	0
Nov	1107.42	5022	165	165	19	37	-16	- 72	- 72	4950	0
Dec	1106.71	4950	346	189	0	10	+ 3	- 7	+ 150	5100	
Total			7774	4753	1201	1492	-325	-3018	+3		2464

Note: Column 4 includes amount in Column 11.
Plus signs in Column 7 indicates precipitation exceeds evaporation.
Amount spread in Ojai Valley, February to May, inclusive = 940 Acre Feet.
Lowest elevation of Reservoir = 1106.68 = 4947 Acre Feet. 12:00 M December 3.

Table No. 11

Operation of Matilija Reservoir - 1955

Acre Feet

Month	Reservoir First of Month		Inflow	Am't. of Inflow Passed Down River	Released from Reservoir				Change in Storage	Am't. in Storage End of Month	Over-flow
	Water S. Elev.	Am't. in Storage			Down River	To Ojai Valley	Evapo-ration	Total			
	1	2	3	4	5	6	7	8	9	10	11
Jan	1108.19	5100	577	188	0	0	+34	+34	+423	5523	0
Feb	1112.21	5523	493	174	0	3	+9	+6	+325	5848	0
Mar	1115.21	5848	562	194	0	17	-25	-42	+326	6174	0
Apr	1118.03	6174	434	434	138	46	0	-184	-184	5990	0
May	1116.44	5990	769	578	0	13	-29	-42	+149	6139	0
June	1117.73	6139	328	328	333	53	-53	-439	-439	5700	0
July	1113.86	5700	168	168	200	63	-63	-326	-326	5374	0
Aug	1110.84	5374	105	10	156	104	-73	-333	-333	5041	0
Sept	1107.60	5041	99	99	309	96	-67	-472	-472	4569	0
Oct	1102.82	4569	96	96	363	68	-39	-470	-470	4099	0
Nov	1097.73	4099	77	77	17	24	-12	- 53	- 53	4046	0
Dec.	1097.14	4046	557	94	0	11	+47	+36	+499	4545	0
			4265	2535	1516	498	-271	2285	-555		

Note: Column 4 includes amount in Column 11.
Plus sign in Column 7 indicates precipitation exceeds evaporation.

Table No. 1

OPERATION OF MATILIJA RESERVOIR - 1956

MONTH	RESERVOIR FIRST OF MONTH		INFLOW	AMOUNT of INFLOW PASSED DOWN RIVER	RELEASED FROM RESERVOIR ACRE FEET				CHANGE IN STORAGE	AMOUNT in STORAGE END of MONTH	OVER-FLOW
	WATER S. ELEV.	AM'T IN STORAGE			DOWN RIVER	TO OJAI VALLEY	EVAPOR-ATION	TOTAL			
JAN.	1102.57	4545	2492	6	53	41	+ 63	- 31	+ 2455	7000	6
FEB.	1124.90	7000	1217	937	0	276	- 4	- 280	0	7000	871
MAR.	1124.89	7000	673	385	0	244	- 44	- 288	0	7000	289
APR.	1124.76	7000	784	550	0	251	+ 17	- 234	0	7000	470
MAY	1124.89	7000	1068	771	0	287	- 10	- 297	0	7000	559
JUN.	1124.87	7000	482	330	16	258	- 61	- 335	- 183	6817	0
JUL.	1123.37	6817	260	260	136	209	- 71	- 416	- 416	6401	0
AUG.	1119.99	6401	162	162	240	111	- 69	- 420	- 420	5981	0
SEP.	1116.37	5981	130	130	263	108	- 70	- 441	- 441	5540	0
OCT.	1112.37	5540	97	97	287	87	- 39	- 413	- 413	5127	0
NOV.	1108.45	5127	110	110	245	58	- 45	- 348	- 348	4779	0
DEC.	1105.02	4779	133	133	127	54	- 26	- 207	- 207	4572	0
			7608	3871	1367	1984	- 359	- 3710	+ 27		2195

Table No. 13

OPERATION OF MATILIJA RESERVOIR - 1957

MONTH	RESERVOIR FIRST OF MONTH		INFLOW	AMOUNT of INFLOW PASSED DOWN RIVER	RELEASED FROM RESERVOIR ACRE FEET				CHANGE IN STORAGE	AMOUNT in STORAGE END of MONTH	OVER-FLOW
	WATER S. ELEV.	AM'T IN STORAGE			DOWN RIVER	TO OJAI VALLEY	EVAPOR-ATION	TOTAL			
JAN.	1102.85	4572	1047	73	0	9	+ 67	+ 58	+ 1032	5604	0
FEB.	1112.96	5604	842	26	0	0	+ 46	+ 46	+ 862	6466	0
MAR.	1120.45	6466	1150	305	40	242	- 31	- 313	+ 532	6998	305
APR.	1124.84	6998	510	309	0	203	+ 4	- 199	+ 2	7000	268
MAY	1124.85	7000	372	299	0	85	- 26	- 111	- 38	6962	0
JUN.	1124.55	6962	240	240	222	73	- 70	- 365	- 365	6597	0
JUL.	1121.58	6597	129	129	423	101	- 79	- 603	- 603	5994	0
AUG.	1116.47	5994	77	77	170	146	- 77	- 393	- 393	5601	0
SEP.	1112.94	5601	66	66	184	107	- 60	- 351	- 351	5250	0
OCT.	1109.66	5250	82	82	630	43	- 11	- 684	- 684	4566	0
NOV.	1102.79	4566	107	95	0	22	- 18	- 40	- 28	4538	0
DEC.	1102.50	4538	2092	70	0	7	+ 63	+ 56	+ 2078	6616	0
			6714	1771	1669	1038	- 192	2899	+ 2044		573

OPERATION OF MATILIJA RESERVOIR - 1958

Table No. 14

MONTH	RESERVOIR FIRST OF MONTH		INFLOW	AMOUNT of INFLOW PASSED DOWN RIVER	RELEASED FROM RESERVOIR ACRE FEET				CHANGE IN STORAGE	AMOUNT in STORAGE END of MONTH	OVER-FLOW
	WATER S. ELEV.	AM'T IN STORAGE			DOWN RIVER	TO OJAI VALLEY	EVAPOR-ATION	TOTAL			
JAN.	1121.74	6616	781	0	150	261	+ 14	397	+ 384	7000	
FEB.	1125.90	7000	14,060	13,945	0	247	+ 132	115	0	7000	13,869
MAR.	1125.13	7000	13,849	13,688	0	271	+ 110	161	0	7000	13,637
APR.	1125.28	7000	30,290	30,195	0	173	+ 78	95	0	7000	30,078
MAY	1125.14	7000	3,879	3,743	0	91	- 45	136	0	7000	3,619
JUN.	1125.01	7000	1,694	1,324	0	296	- 74	370	0	7000	1,255
JUL.	1124.95	7000	1,071	813	0	185	- 73	258	0	7000	813
AUG.	1124.93	7000	577	359	0	145	- 73	218	0	7000	359
SEP.	1124.92	7000	470	153	0	251	- 66	317	0	7000	123
OCT.	1124.85	7000	496	213	0	277	- 60	337	- 54	6946	0
NOV.	1124.42	6946	479	222	0	214	- 37	251	+ 6	6952	0
DEC.	1124.48	6952	465	385	0	235	- 30	265	- 185	6767	0
			68,111	65,040	150	2646	- 124	2920	+ 151		63,753