

SUMMARY OF WATER CONDITIONS

APRIL 1, 1970

CONSIDERING ALL FACTORS, 1970 WILL BE A SLIGHTLY BELOW NORMAL WATER SUPPLY YEAR IN MOST AREAS OF CALIFORNIA. ALTHOUGH COMPREHENSIVE APRIL 1 SNOW SURVEYS SHOW THAT ONLY 75 PERCENT OF NORMAL SNOW WATER EXISTS IN THE MOUNTAINS, RESERVOIR STORAGE IS EXCELLENT AND ALMOST ALL GROUND WATER BASINS SHOW SIGNIFICANT RISES FROM LEVELS OF ONE YEAR AGO.

THE SEASON TO DATE HAS BEEN UNIQUE IN SEVERAL RESPECTS. HEAVY RAINS THROUGHOUT NORTHERN CALIFORNIA IN JANUARY WASHED THE SNOW OFF THE LOWER ELEVATIONS AND RAPIDLY REFILLED SURFACE AND GROUND WATER STORAGE. WITH ONLY MINOR STORM ACTIVITY SINCE THAT TIME, COUPLED WITH GENERALLY ABOVE NORMAL TEMPERATURES, NO RENEWAL OF THE SNOWPACK HAS OCCURRED BELOW THE 7,000-FOOT LEVEL. THE HIGH, EARLY SEASON FLOWS ARE REFLECTED IN THE FORECASTS PRESENTED FOR TOTAL WATER YEAR RUNOFF. HOWEVER, MUCH OF THIS WATER HAS ALREADY DRAINED OFF THE WATERSHEDS DURING THE PRECEDING MONTHS.

THE APRIL THROUGH JULY FORECASTS, ALSO PRESENTED IN THE DISCUSSIONS OF HYDROGRAPHIC AREAS WHICH FOLLOW, ARE MORE INDICATIVE OF CALIFORNIA'S REMAINING 1970 RUNOFF AMOUNTS. THESE HAVE BEEN REDUCED SOMEWHAT FROM THOSE REPORTED ONE MONTH AGO DUE TO BELOW NORMAL PRECIPITATION DURING THE PAST MONTH. EXCEPT FOR THE NORTHERN WATERSHEDS AND SEVERAL STREAMS IN THE CENTRAL LAHONTAN AREA, ALL MAJOR RIVERS DRAINING FROM SIERRA WATERSHEDS WILL PRODUCE BELOW NORMAL RUNOFF FOR THE PERIOD. FORECASTS HAVE BEEN REDUCED BY OVER 10 PERCENT FOR SIX STREAMS, THE LARGEST REDUCTION OCCURRING IN THE AMERICAN RIVER BASIN, INFLOW TO FOLSOM RESERVOIR.

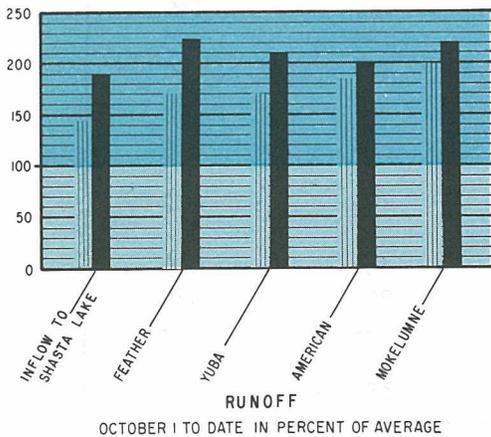
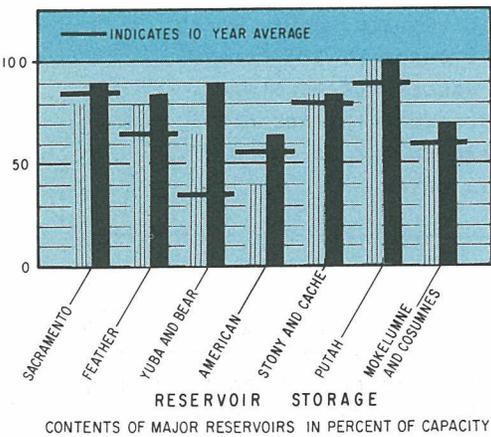
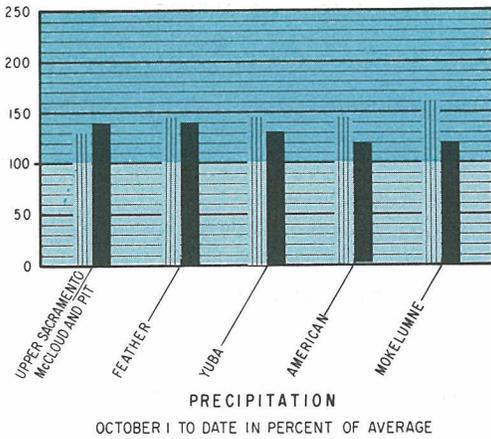
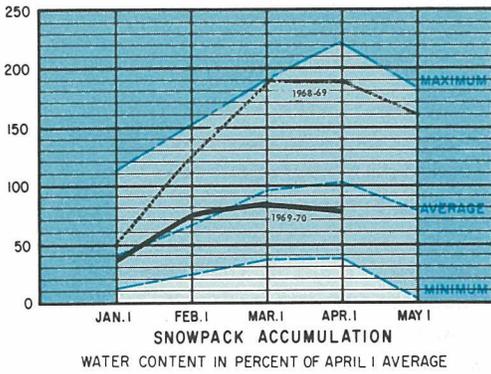
DAILY SNOW SENSOR REPORTS SHOW THAT PEAK SNOW WATER CONTENT OCCURRED IN MID-MARCH, TWO WEEKS EARLIER THAN NORMAL. THUS, IN ADDITION TO THE SNOWPACK BEING SOMEWHAT MEAGER THIS YEAR, IT IS OFF TO A FAST START IN RELEASING ITS WATER TO THE STREAM CHANNELS.

RESERVOIR STORAGE REMAINS WELL ABOVE AVERAGE AND WILL SUSTAIN NORMAL WATER USE SCHEDULES FOR ALL USERS WHO HAVE ACCESS TO THESE SUPPLIES. STORAGE IS 125 PERCENT OF NORMAL ON A STATEWIDE BASIS. RESERVOIRS SERVING THE CENTRAL VALLEY ARE HOLDING ABOUT 125 PERCENT OF NORMAL APRIL 1 SUPPLIES. SOURCES OF IMPORTED SUPPLIES ARE ALSO EXCELLENT WITH THE MAJOR SOURCE FOR SOUTHERN CALIFORNIA, LAKE MEAD ON THE COLORADO RIVER, NOW STORING 16,597,000 ACRE-Feet WHICH IS AVERAGE FOR THIS DATE.

SUMMARY OF WATER CONDITIONS IN PERCENT OF AVERAGE					
HYDROGRAPHIC AREA	PRECIPITATION OCTOBER 1 TO DATE	SNOW WATER CONTENT	RESERVOIR STORAGE	RUNOFF	
				OCTOBER 1 TO DATE	WATER YEAR FORECAST
North Coastal	125	80	120	175	150
San Francisco Bay	120	--	130	185	175
Central Coastal	85	--	120	90	90
South Coastal	70	--	165	85	90
Central Valley					
Sacramento Basin	130	75	120	205	155
San Joaquin and Tulare Lake Basins	95	75	140	150	105
Lahontan	110	80	140	200	120
Colorado Desert	80	--	--	--	--
ENTIRE STATE	110	75	125	185	140

SACRAMENTO RIVER BASIN

SNOWPACK - MEASUREMENTS OF SNOWPACK WERE OBTAINED AT 99 SNOW COURSES AND 31 AERIAL SNOW DEPTH MARKERS ON OR ABOUT APRIL 1. ALSO, READINGS OF WATER CONTENT WERE OBTAINED FROM 11 SNOW SENSORS. THESE MEASUREMENTS INDICATE THAT SNOWPACK WATER CONTENT WAS 75 PERCENT OF AVERAGE, AS COMPARED TO 190 PERCENT ONE YEAR AGO. SNOWPACK AT THE HIGHER ELEVATIONS REMAINS NEAR NORMAL WHILE THE LOW ELEVATION COURSES HAVE LITTLE OR NO SNOW. FOURTEEN SNOW COURSES IN THIS AREA REPORTED NO SNOW ON THE APRIL 1 SURVEY.



PRECIPITATION - FROM OCTOBER 1, 1969, THROUGH MARCH 31, 1970, PRECIPITATION OVER THE SACRAMENTO VALLEY AVERAGED 130 PERCENT OF NORMAL. ALL MOUNTAIN SUBDRAINAGES AND MOST OF THE VALLEY FLOOR ARE WELL ABOVE NORMAL FOR THIS DATE, ALTHOUGH AMOUNTS ARE SLIGHTLY LESS THAN FOR THE CORRESPONDING PERIOD ONE YEAR AGO. SEASONAL TOTALS VARIED FROM A HIGH OF 93.23 INCHES AT COBB, IN THE PUTAH CREEK DRAINAGE, TO 11.02 INCHES AT ALTURAS, IN THE PIT RIVER DRAINAGE.

DURING MARCH PRECIPITATION AVERAGED 80 PERCENT OF NORMAL OVER THE AREA. EXTREMES VARIED FROM A HIGH OF 7.30 INCHES AT INDIAN ROCK, IN THE FEATHER RIVER DRAINAGE, TO 0.86 INCH AT MT. SHASTA CITY.

RESERVOIR STORAGE - APRIL 1 STORAGE IN THIRTY-FOUR MAJOR SACRAMENTO VALLEY RESERVOIRS IS ABOUT 13,584,000 ACRE- FEET. THIS IS 120 PERCENT OF THEIR AVERAGE APRIL 1 STORAGE AND 85 PERCENT OF THEIR AGGREGATE CAPACITY. STORAGE IS 2,035,000 ACRE- FEET MORE THAN THAT OF ONE YEAR AGO. ALMOST HALF OF THE WATER IS CONTAINED IN SHASTA AND OROVILLE LAKES WHERE A COMBINED STORAGE OF 6,602,000 ACRE- FEET WAS RECORDED ON APRIL 1.

RUNOFF - RUNOFF DURING MARCH TOTALED 2,626,000 ACRE- FEET FOR 105 PERCENT OF NORMAL FOR STREAMS DRAINING FROM SACRAMENTO VALLEY WATERSHEDS. ONLY THE YUBA AND AMERICAN RIVERS WERE BELOW NORMAL, BY ABOUT 5 PERCENT, FOR THE MONTH. RUNOFF TO DATE FOR THE WATER YEAR HAS AMOUNTED TO 19,519,000 ACRE- FEET, 205 PERCENT OF NORMAL FOR THE SIX- MONTH PERIOD. THE FEATHER RIVER RETAINS THE LEAD AS THE LARGEST PRODUCER, ON A PERCENTAGE BASIS, AVERAGING 118 PERCENT DURING MARCH AND 227 PERCENT OF AVERAGE FOR THE WATER YEAR TO DATE.

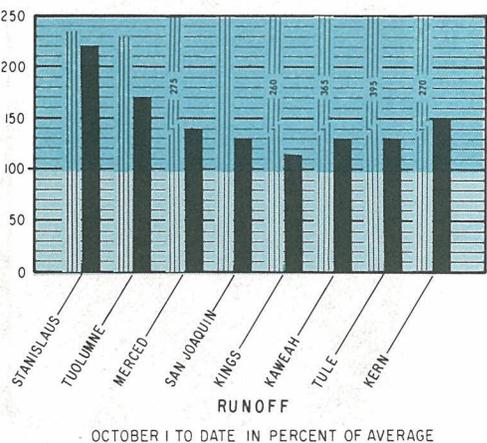
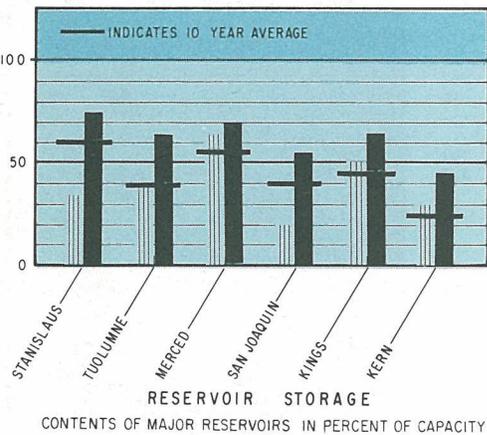
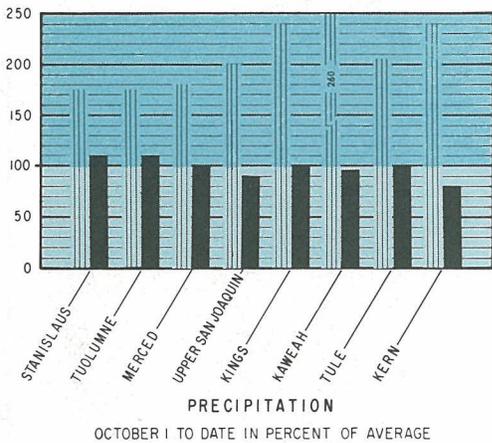
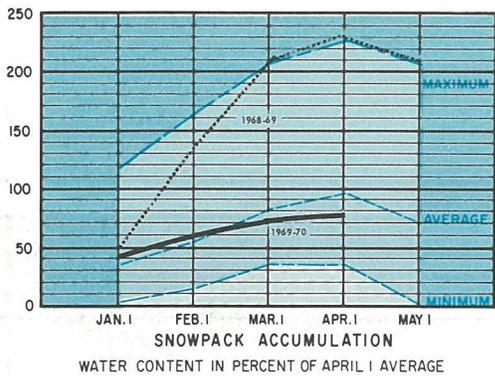
SAN JOAQUIN RIVER AND TULARE LAKE BASINS

SNOWPACK - MEASUREMENTS OF SNOWPACK WERE OBTAINED AT 107 SNOW COURSES AND 35 AERIAL SNOW DEPTH MARKERS ON OR ABOUT APRIL 1. ALSO, READINGS OF WATER CONTENT WERE OBTAINED FROM 11 SNOW SENSORS. THESE MEASUREMENTS INDICATE THAT SNOWPACK WATER CONTENT IS 75 PERCENT OF AVERAGE, AS COMPARED TO 240 PERCENT ONE YEAR AGO. SNOWPACK WATER CONTENT RANGES FROM A HIGH OF 80 PERCENT IN THE STANISLAUS RIVER BASIN TO A LOW OF 10 PERCENT IN THE TULE RIVER BASIN. SNOW SENSORS IN THE AREA INDICATED THAT MAXIMUM SNOW ACCUMULATION OCCURRED ABOUT MID-MARCH. THE SENSORS ALSO INDICATED THAT SNOWMELT OCCURRED ONLY AT LOWER ELEVATIONS DURING THE LATTER PART OF MARCH.

PRECIPITATION - FROM OCTOBER 1, 1969, THROUGH MARCH 31, 1970, PRECIPITATION WAS 95 PERCENT OF NORMAL OVER THE SAN JOAQUIN VALLEY. SEASONAL PRECIPITATION VALUES ARE ONE-THIRD TO TWO-THIRDS LESS THAN THEY WERE FOR THE CORRESPONDING PERIOD ONE YEAR AGO. CALAVERAS BIG TREES, IN THE STANISLAUS RIVER DRAINAGE, REPORTED THE GREATEST OCTOBER-MARCH TOTAL IN THE AREA OF 55.06 INCHES AS CONTRASTED TO THE LOWEST TOTAL OF 3.28 INCHES AT BAKERSFIELD FOR THE SAME PERIOD. PRECIPITATION DURING MARCH AVERAGED 85 PERCENT OF NORMAL. IT VARIED FROM 165 PERCENT OF NORMAL AT MENDOTA DAM, ON THE VALLEY FLOOR, TO 46 PERCENT AT SONORA, IN THE TUOLUMNE RIVER DRAINAGE.

RESERVOIR STORAGE - ON APRIL 1, 27 MAJOR RESERVOIRS SERVING THE SAN JOAQUIN VALLEY CONTAINED 3,605,000 ACRE-Feet WHICH IS 61 PERCENT OF THEIR COMBINED CAPACITIES AND 140 PERCENT OF THE APRIL 1 AVERAGE. THIS IS A GAIN OF 154,000 ACRE-Feet DURING THE LAST MONTH AND 1,064,000 ACRE-Feet MORE THAN WAS IN STORAGE LAST YEAR AT THIS TIME. ADDITIONAL WATER, WHICH IS NOT INCLUDED IN THE ABOVE VALUES, WILL BE AVAILABLE FOR WATER USERS FROM SAN LUIS RESERVOIR. THIS OFF-STREAM STORAGE RESERVOIR IS NOW HOLDING 1,988,000 ACRE-Feet, ABOUT 50,000 ACRE-Feet SHORT OF ITS MAXIMUM CAPACITY.

RUNOFF - MARCH RUNOFF FROM MAJOR TRIBUTARIES FEEDING THE SAN JOAQUIN RIVER BASIN AMOUNTED TO 565,000 ACRE-Feet OR 112 PERCENT OF NORMAL. THE STREAMS TRIBUTARY TO TULARE LAKE PRODUCED 227,000 ACRE-Feet WHICH IS NORMAL FOR MARCH IN THIS AREA. TOTAL RUNOFF FOR THE ENTIRE SAN JOAQUIN VALLEY WAS 3,373,000 ACRE-Feet FOR THE FIRST HALF OF THE WATER YEAR WHICH AMOUNTS TO 150 PERCENT OF NORMAL FOR THE PERIOD. THE BIGGEST PRODUCER PERCENTAGE-WISE FOR THE WATER YEAR TO DATE IS THE STANISLAUS RIVER, INFLOW TO MELONES, WITH 218 PERCENT OF NORMAL RUNOFF SINCE OCTOBER 1.



DRAINAGE BASIN AND WATERSHED	April Through July in 1,000 Acre-Feet					
	HISTORICAL		FORECASTS			
	50-Year Average	Maximum of Record	Minimum of Record	April-July Forecast	Percent of Average	80% Prob. Range Acre-Feet
SACRAMENTO RIVER BASIN						
Upper Sacramento River						
Pit River inflow to Shasta Lake	1,012	1,796	480	1,200	119	--
McCloud River inflow to Shasta Lake	416	850	194	450	108	--
Sacramento River inflow to Shasta Lake	281	636	39	270	96	--
Total inflow to Shasta Lake	1,750	3,064	726	1,980	113	1,600 to 2,600
Sacramento River near Red Bluff	2,400	4,611	943	2,700	112	2,200 to 3,500
Feather River						
Inflow to Lake Almanor (nr Prattville)	323	675	120	290	90	--
North Fork at Pulga	1,016	2,416	254	900	89	--
Middle Fork near Clito	84	518	8	60	71	--
South Fork at Enterprise	107	267	19	90	84	--
Total inflow to Oroville Reservoir	1,861	4,676	396	1,580	85	1,280 to 2,280
Yuba River						
North Fork below Goodyears Bar	288	647	68	240	83	--
Combined inflow to Jackson Mdw. and Bowman Reservoirs	108	236	37	92	85	--
South Fork at Langs Crossings	231	481	74	190	82	--
Yuba River at Smartville	1,090	2,424	239	880	81	730 to 1,260
American River						
North Fork at North Fork Dam	262	716	48	210	80	--
Middle Fork near Auburn	550	1,406	117	430	78	--
Silver Creek below Camino Diversion Dam	179	383	43	150	84	--
Total inflow to Folsom Reservoir	1,329	3,074	257	1,040	78	890 to 1,500
Sacramento River at Sacramento						
Cosumnes River						
Cosumnes River at Michigan Bar	128	361	12	100	78	70 to 160
Mokelumne River						
North Fork near West Point	418	829	143	360	86	--
Total inflow to Pardee Reservoir	464	1,065	127	400	86	340 to 530
SAN JOAQUIN RIVER BASIN						
Stanislaus River						
Middle Fork at Sand Bar Flat near Avery	337	702	83	300	89	--
Total inflow to Melones Reservoir	711	1,710	167	600	84	500 to 850
Tuolumne River						
Cherry Creek and Eleanor Creek near Hetch Hetchy	304	560	102	285	94	--
Tuolumne River near Hetch Hetchy	592	1,392	215	600	101	--
Total inflow to Don Pedro Reservoir	1,179	2,609	385	1,080	92	940 to 1,340
Merced River						
Merced River at Pohono Bridge	356	888	121	320	90	--
Total inflow to Exchequer	599	1,491	175	520	87	450 to 700
San Joaquin River						
South Fork near Florence Lake	187	511	58	175	94	--
Big Creek below Huntington Lake	86	264	19	78	91	--
San Joaquin River at Mammoth Pool	949	2,218	254	880	93	--
Total inflow to Millerton Lake	1,173	3,355	310	1,030	88	850 to 1,300
San Joaquin River near Vernalis						
TULARE LAKE BASIN						
Kings River						
North Fork near Cliff Camp	228	478	50	200	88	--
Total inflow to Pine Flat Reservoir	1,143	2,959	280	1,000	87	800 to 1,220
Kaweah River						
Total inflow to Terminus Reservoir	261	814	69	170	65	130 to 220
Tule River						
Total inflow to Success Reservoir	56	169	2	40	71	30 to 55
Kern River						
Kern River near Kernville	336	952	75	320	95	--
Total inflow to Isabella Reservoir	410	1,086	84	380	93	280 to 500

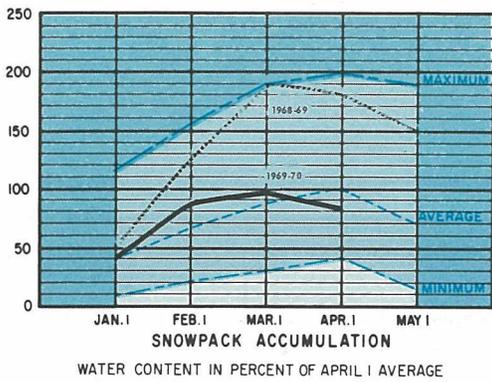
CENTRAL VALLEY STREAMS

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Water Year --- October Through September --- in 1,000 Acre-Feet												
HISTORICAL			FORECASTS									
50-Year Average	Maximum of Record	Minimum of Record	October Through January	February	March	April	May	June	July	August and September	Water Year Forecast	Percent of Average
2,848	4,698	1,484	1,995	490	450	--	--	--	--	--	4,400	154
1,215	2,353	632	755	170	161	--	--	--	--	--	1,650	136
761	1,767	171	570	115	115	--	--	--	--	--	1,090	143
5,318	9,700	2,479	4,395	865	816	840	570	330	240	404	8,460	159
7,690	15,121	3,294	6,700	1,370	1,168	1,190	800	420	290	542	12,480	162
716	1,269	396	--	--	--	--	--	--	--	--	--	--
125	4,400	819	--	--	--	--	--	--	--	--	--	--
197	637	41	--	--	--	--	--	--	--	--	--	--
253	562	67	--	--	--	--	--	--	--	--	--	--
4,159	9,492	1,295	3,460	650	676	620	550	280	130	164	6,530	157
516	1,056	162	--	--	--	--	--	--	--	--	--	--
86	292	60	--	--	--	--	--	--	--	--	--	--
335	565	114	--	--	--	--	--	--	--	--	--	--
2,226	4,544	603	1,720	275	290	320	350	160	50	35	3,200	144
537	1,234	110	--	--	--	--	--	--	--	--	--	--
996	2,575	283	--	--	--	--	--	--	--	--	--	--
291	537	83	--	--	--	--	--	--	--	--	--	--
2,525	5,787	543	1,690	320	330	430	400	170	40	20	3,400	135
												154
339	876	40	245	60	79	55	25	15	5	1	485	143
577	1,009	197	--	--	--	--	--	--	--	--	--	--
690	1,692	190	325	80	82	120	170	100	10	3	890	129
452	929	128	--	--	--	--	--	--	--	--	--	--
1,057	2,834	261	470	115	131	180	240	140	40	14	1,330	126
420	740	158	--	--	--	--	--	--	--	--	--	--
726	1,661	265	--	--	--	--	--	--	--	--	--	--
1,741	3,756	546	580	135	187	290	430	310	50	18	2,000	115
431	1,020	145	--	--	--	--	--	--	--	--	--	--
897	2,126	252	230	65	107	140	220	130	30	8	930	104
225	653	71	--	--	--	--	--	--	--	--	--	--
99	298	22	--	--	--	--	--	--	--	--	--	--
1,225	2,964	361	--	--	--	--	--	--	--	--	--	--
1,617	4,368	444	270	85	136	210	350	370	100	49	1,570	97
												110
261	542	58	--	--	--	--	--	--	--	--	--	--
1,530	3,857	392	215	60	100	200	340	360	100	45	1,420	93
383	1,105	102	85	20	43	50	70	40	10	7	325	85
124	364	19	50	15	24	20	15	4	1	1	130	105
491	1,388	147	--	--	--	--	--	--	--	--	--	--
604	1,393	175	155	40	55	90	130	110	50	35	665	110

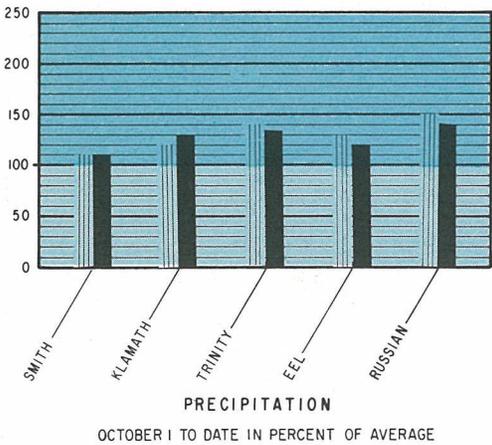
Monthly values are based on historical years of similar magnitude.

NORTH COASTAL AREA

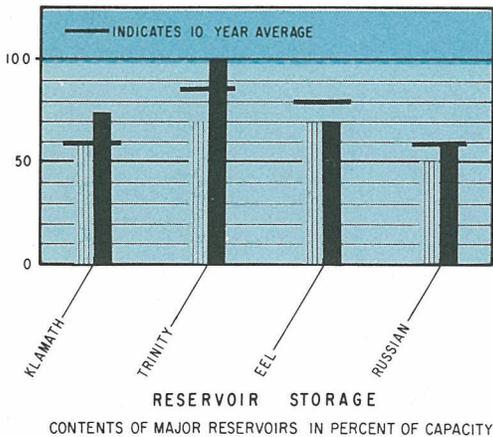


SNOWPACK - MEASUREMENTS OF SNOWPACK WERE OBTAINED AT 18 SNOW COURSES ON OR ABOUT APRIL 1. THESE MEASUREMENTS INDICATE THAT SNOWPACK WATER CONTENT IS 80 PERCENT OF AVERAGE, AS COMPARED TO 180 PERCENT ONE YEAR AGO. THE WATER CONTENT RANGED FROM 90 PERCENT IN THE SHASTA RIVER BASIN TO 80 PERCENT IN THE TRINITY RIVER BASIN.

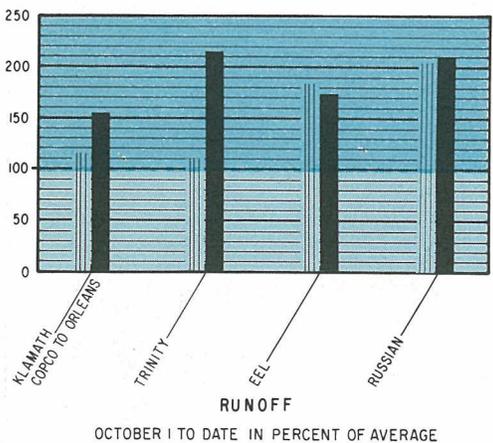
THE OREGON COOPERATIVE SNOW SURVEYS REPORTS THAT SNOWPACK WATER CONTENT IN THE UPPER KLAMATH RIVER BASIN ON APRIL 1 WAS 56 PERCENT OF NORMAL AS COMPARED TO 146 PERCENT ONE YEAR AGO.



PRECIPITATION - PRECIPITATION IN THE NORTH COASTAL AREA AVERAGED 125 PERCENT OF NORMAL FOR THE PERIOD OCTOBER 1 THROUGH MARCH 31. IT VARIED FROM 160 PERCENT OF NORMAL AT HEALDSBURG, IN THE RUSSIAN RIVER DRAINAGE, TO 89 PERCENT AT ORICK ARCATA REDWOOD COMPANY, IN THE MAD RIVER DRAINAGE. ALL SUBDRAINAGES ARE ABOVE NORMAL AND HAVE VALUES NEARLY THE SAME AS LAST YEAR FOR THE CORRESPONDING PERIOD. HONEYDEW 2WSW, IN THE MATTOLE RIVER DRAINAGE, IS THE WETTEST STATION IN THE STATE, REPORTING A SIX-MONTH TOTAL OVER 100 INCHES, ACTUALLY 109.06. FOR THE MONTH OF MARCH, PRECIPITATION AVERAGED ONLY 55 PERCENT OF NORMAL. SUBDRAINAGES VARIED FROM 50 PERCENT OF NORMAL OVER THE EEL RIVER TO 60 PERCENT IN THE KLAMATH.



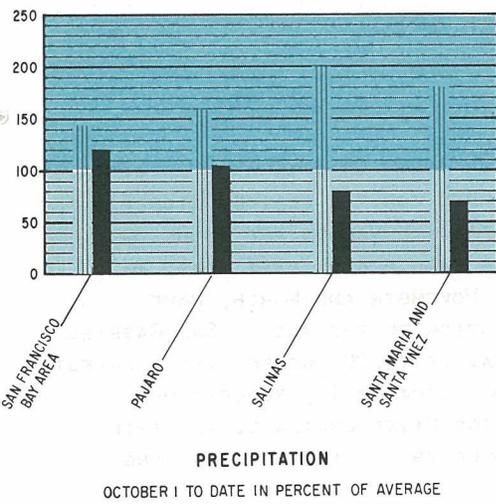
RESERVOIR STORAGE - FOUR MAJOR CALIFORNIA RESERVOIRS SERVING THIS AREA WERE STORING 2,631,000 ACRE-FEET ON APRIL 1. THIS IS 120 PERCENT OF AVERAGE STORAGE FOR THIS DATE AND ONLY ABOUT 80,000 ACRE-FEET SHORT OF THEIR AGGREGATE CAPACITY. THREE INTERSTATE RESERVOIRS ON THE KLAMATH RIVER SYSTEM, WHICH ALSO CONTRIBUTE TO THE NORTH COASTAL AREA'S WATER SUPPLY, CONTAINED 926,000 ACRE-FEET ON APRIL 1. THIS AMOUNTS TO 145 PERCENT OF AVERAGE STORAGE AND IS A GAIN OF 52,000 ACRE-FEET DURING MARCH.



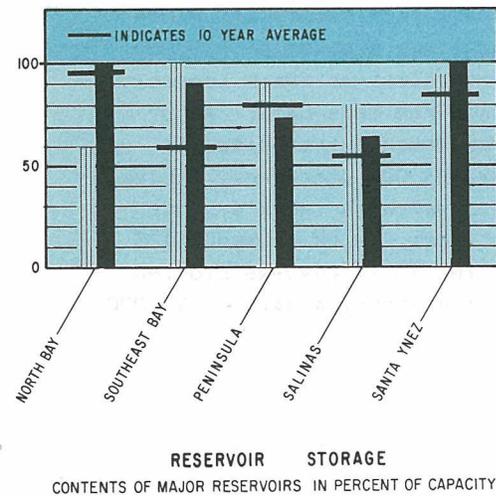
RUNOFF - MARCH RUNOFF FOR THE NORTH COASTAL AREA AMOUNTED TO 1,646,000 ACRE-FEET, 91 PERCENT OF NORMAL AND THE ONLY AREA THAT EXPERIENCED BELOW NORMAL RUNOFF DURING THE MONTH. THE PRINCIPLE CAUSE OF THIS WAS THE LOW RUNOFF OF THE EEL RIVER WHICH PRODUCED ONLY 67 PERCENT OF NORMAL MARCH FLOWS. WATER YEAR RUNOFF FOR THE FIRST SIX MONTHS HAS BEEN 175 PERCENT OF NORMAL FROM THE AREA, VARYING FROM 156 PERCENT FOR THE KLAMATH TO 213 PERCENT FOR THE TRINITY RIVER.

FORECASTS - CONDITIONS AT THIS TIME INDICATE THAT RUNOFF OF THE NORTH COASTAL AREA DURING THE 1969-70 WATER YEAR WILL BE ABOUT 150 PERCENT OF AVERAGE. THE APRIL-JULY RUNOFF OF THE TRINITY RIVER AT LEWISTON IS FORECASTED TO BE ABOUT 600,000 ACRE-FEET, WHICH IS 101 PERCENT OF THE AVERAGE RUNOFF AT THIS STATION. THE U. S. SOIL CONSERVATION SERVICE, THE OREGON EXPERIMENT STATION, AND THEIR COOPERATORS, FORECAST THAT APRIL-SEPTEMBER RUNOFF INTO UPPER KLAMATH LAKE WILL BE ABOUT 465,000 ACRE-FEET OR 81 PERCENT OF THE 1953-67 AVERAGE.

SAN FRANCISCO BAY AND CENTRAL COASTAL AREAS

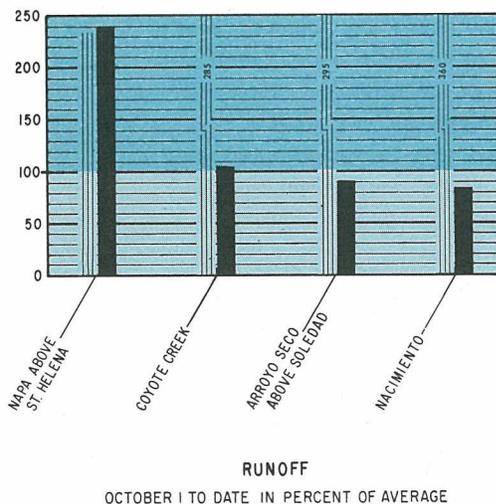


PRECIPITATION - IN THE SAN FRANCISCO BAY AND CENTRAL COASTAL AREAS, PRECIPITATION AVERAGED 95 PERCENT OF NORMAL FOR THE PERIOD OCTOBER 1 THROUGH MARCH 31. IT VARIED FROM 141 PERCENT OF NORMAL AT NAPA TO 69 PERCENT AT CACHUMA DAM IN THE SANTA YNEZ RIVER DRAINAGE. ALL SUBDRAINAGES RECEIVED SUBSTANTIALLY LESS PRECIPITATION AMOUNTS THAN IN THE CORRESPONDING PERIOD LAST YEAR. HOWEVER, THE PAJARO RIVER AND SAN FRANCISCO BAY DRAINAGES ARE STILL ABOVE NORMAL BUT THE SALINAS AND SANTA MARIA-SANTA YNEZ DRAINAGES ARE 80 PERCENT AND 70 PERCENT OF NORMAL, RESPECTIVELY, LESS THAN ONE-HALF OF LAST YEAR'S VALUES. MARCH PRECIPITATION AVERAGED 105 PERCENT OF NORMAL. IT VARIED FROM 144 PERCENT OF NORMAL AT KING CITY, IN THE SALINAS RIVER DRAINAGE, TO 51 PERCENT AT OAKLAND.



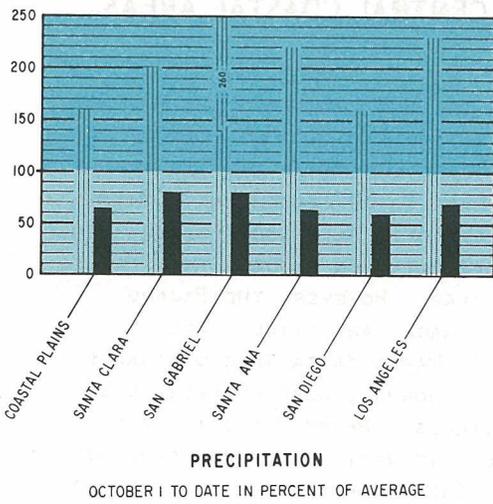
RESERVOIR STORAGE - STORAGE IN 17 MAJOR RESERVOIRS IN THE SAN FRANCISCO BAY AREA WAS 539,000 ACRE-Feet, WHICH AMOUNTS TO 125 PERCENT OF AVERAGE STORAGE FOR APRIL 1. THESE RESERVOIRS HAD A DECREASE IN STORAGE OF 6,000 ACRE-Feet DURING MARCH AND 22,000 ACRE-Feet FROM ONE YEAR AGO. SEVEN OF THESE RESERVOIRS CONTAIN WATER SUPPLIES IMPORTED FROM SIERRA WATERSHEDS.

IN THE CENTRAL COASTAL AREA, STORAGE IN SIX MAJOR RESERVOIRS WAS 729,000 ACRE-Feet ON APRIL 1, ABOUT 63,000 ACRE-Feet MORE THAN A MONTH AGO BUT 120,000 ACRE-Feet LESS THAN WAS IN STORAGE LAST YEAR AT THIS TIME. THE PRESENT STORAGE IS 120 PERCENT OF NORMAL FOR THIS DATE AND THE RESERVOIRS ARE AT 74 PERCENT OF AGGREGATE CAPACITY.

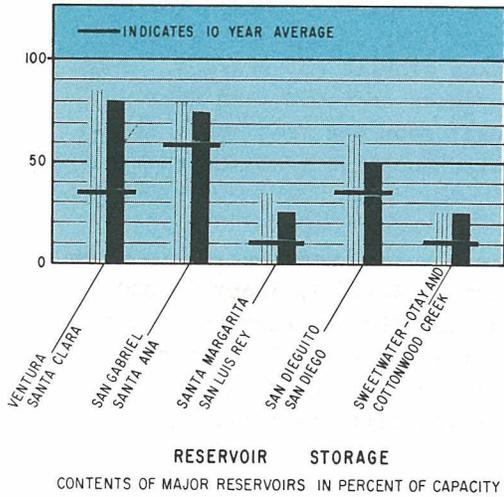


RUNOFF - MARCH RUNOFF IN MAJOR SAN FRANCISCO AND CENTRAL COASTAL AREA STREAMS WAS ABOVE NORMAL, PRODUCING 125 PERCENT OF NORMAL FLOWS. RUNOFF RANGED FROM 109 PERCENT OF NORMAL FOR THE NACIMIENTO RIVER TO 149 PERCENT FOR THE ARROYO SECO. THE WATER YEAR TO DATE HAS PRODUCED 185 PERCENT OF NORMAL FLOWS IN THE SAN FRANCISCO BAY AREA AND ONLY 90 PERCENT OF NORMAL IN THE CENTRAL COASTAL AREA.

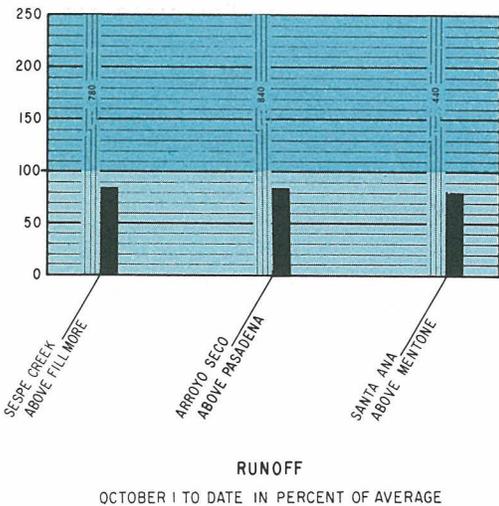
SOUTH COASTAL AREA



PRECIPITATION - IN THE SOUTH COASTAL AREA PRECIPITATION AVERAGED 70 PERCENT OF NORMAL FOR THE PERIOD OCTOBER 1, 1969, THROUGH MARCH 31, 1970. SEASONAL VALUES ARE ABOUT ONE-THIRD THAT EXPERIENCED DURING THE SAME PERIOD LAST YEAR, AS ONLY TWO OF THE PAST SIX MONTHS, NOVEMBER AND MARCH, HAVE CONTRIBUTED SIGNIFICANT PRECIPITATION TO THE AREA. SAN GABRIEL DAM CAMP REPORTED A SEASONAL TOTAL OF 19.20 INCHES, THE GREATEST IN THE AREA. MARCH PRECIPITATION AVERAGED 155 PERCENT OF NORMAL. CUYAMACA, IN THE SAN DIEGO RIVER DRAINAGE, RECEIVED 8.56 INCHES, THE HIGHEST TOTAL OVER THE ENTIRE STATE DURING THE MONTH.



RESERVOIR STORAGE - DATA FROM TWENTY-SIX MAJOR RESERVOIRS IN THIS AREA SHOW A COMBINED STORAGE OF 829,000 ACRE-FEET ON APRIL 1. THIS IS 56 PERCENT OF THEIR AGGREGATE CAPACITY AND 165 PERCENT OF AVERAGE FOR THIS DATE. ABOUT 23,000 ACRE-FEET WAS GAINED DURING MARCH BUT STORAGE IS LESS THAN THAT OF ONE YEAR AGO BY 123,000 ACRE-FEET. ELEVEN OF THE RESERVOIRS INCLUDE IMPORTED WATER IN THEIR STORAGE AND THEY ARE STORING 375,000 ACRE-FEET, WHICH IS ABOUT 125 PERCENT OF AVERAGE FOR APRIL 1. THE 15 RESERVOIRS STORING ONLY LOCAL WATER CONTAIN 454,000 ACRE-FEET, A GAIN OF 11,000 ACRE-FEET DURING MARCH.



RUNOFF - BASED ON DATA RECEIVED FOR KEY SOUTH COASTAL AREA STREAMS, RUNOFF WAS GENERALLY ABOVE NORMAL DURING MARCH, AVERAGING 120 PERCENT OF NORMAL. HOWEVER, TOTAL RUNOFF FOR THE FIRST SIX MONTHS OF THE WATER YEAR REMAINS BELOW NORMAL FOR THE THREE INDICATOR STREAMS USED, AS INDICATED ON THE GRAPH TO THE LEFT, AMOUNTING TO 85 PERCENT OF NORMAL FOR THE PERIOD.

COLORADO DESERT AREA

SNOWPACK - APRIL 1 SNOWPACK IN THE UPPER COLORADO RIVER BASIN, ACCORDING TO THE U. S. SOIL CONSERVATION SERVICE, IS ABOUT 110 PERCENT OF AVERAGE COMPARED TO 125 PERCENT ONE YEAR AGO. SNOWPACK WATER CONTENT RANGES FROM A LOW OF 66 PERCENT IN THE VIRGIN RIVER BASIN TO A HIGH OF 135 PERCENT IN THE UPPER COLORADO AREA.

PRECIPITATION - PRECIPITATION IN THE COLORADO DESERT AREA DURING OCTOBER THROUGH MARCH PERIOD AVERAGED 80 PERCENT OF NORMAL. EXTREMES VARIED FROM 177 PERCENT OF NORMAL AT IMPERIAL TO 31 PERCENT AT TWENTYNINE PALMS. THE STATEWIDE LOW SEASONAL TOTAL OF 0.75 INCH WAS REPORTED FROM TWENTYNINE PALMS. MARCH PRECIPITATION AVERAGED 160 PERCENT OF NORMAL. AMOUNTS VARIED FROM 0.83 INCH AT IMPERIAL TO 0.33 INCH AT NEEDLES.

RESERVOIR STORAGE - THE STORAGE IN LAKE MEAD ON APRIL 1 WAS 16,597,000 ACRE- FEET, ABOUT AVERAGE FOR THIS DATE AT 65 PERCENT OF CAPACITY. THERE HAS BEEN A NET INCREASE IN STORAGE OF 1,221,000 ACRE- FEET SINCE ONE YEAR AGO.

LAKE POWELL, UPSTREAM FROM LAKE MEAD, HAD 9,535,000 ACRE- FEET IN STORAGE ON APRIL 1. THIS IS 125 PERCENT OF AVERAGE STORAGE FOR THIS DATE AND REFLECTS A NET GAIN IN STORAGE OF 2,143,000 ACRE- FEET DURING THE LAST YEAR.

THE WATER SURFACE ELEVATION OF THE SALTON SEA ON APRIL 1, MEASURED FROM DATUM AT FIG TREE JOHNS GAGE, WAS 231.20 FEET BELOW MEAN SEA LEVEL. THIS REPRESENTS A RISE OF 0.05 FOOT DURING MARCH AND A DROP OF 0.20 FOOT FROM THE LEVEL OF ONE YEAR AGO.

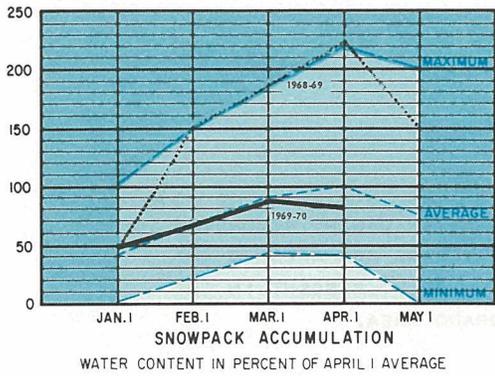
RUNOFF - OCTOBER THROUGH MARCH RUNOFF OF THE COLORADO RIVER, INFLOW TO LAKE POWELL, CORRECTED FOR REGULATION OF UPPER COLORADO RIVER STORAGE PROJECT RESERVOIRS, WAS 2,771,000 ACRE- FEET OR 108 PERCENT OF NORMAL. UNIMPAIRED RUNOFF OF THE COLORADO RIVER DURING MARCH WAS 439,000 ACRE- FEET OR 75 PERCENT OF NORMAL.

FORECAST APRIL 1, 1970 - THE U. S. BUREAU OF RECLAMATION, REGION 4, SALT LAKE CITY, UTAH, FORECASTS THAT FLOW IN THE COLORADO RIVER, INFLOW TO LAKE POWELL, DURING APRIL-JULY 1970 WILL BE:

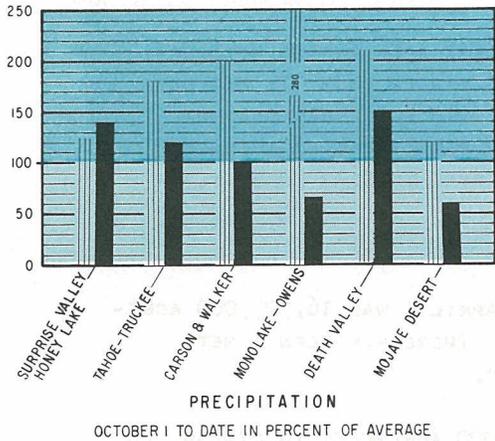
MAXIMUM	10,000,000 ACRE- FEET
MEAN	7,500,000 ACRE- FEET
MINIMUM	5,000,000 ACRE- FEET

THE HISTORICAL APRIL-JULY INFLOW FROM THE PARIA AND LITTLE COLORADO RIVERS BETWEEN LAKE POWELL AND GRAND CANYON HAS AVERAGED ONLY 51,700 ACRE- FEET. THEREFORE, THE FORECAST FOR APRIL-JULY INFLOW TO LAKE POWELL CAN BE CONSIDERED AS ESSENTIALLY EQUIVALENT TO THE FORECAST FOR FLOW OF THE COLORADO RIVER NEAR GRAND CANYON, ASSUMING NO COLORADO RIVER STORAGE PROJECT RESERVOIRS.

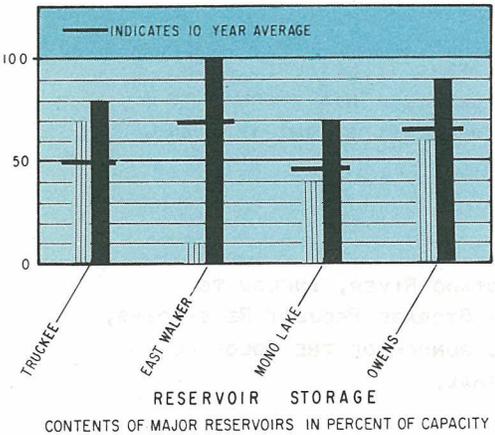
LAHONTAN AREA



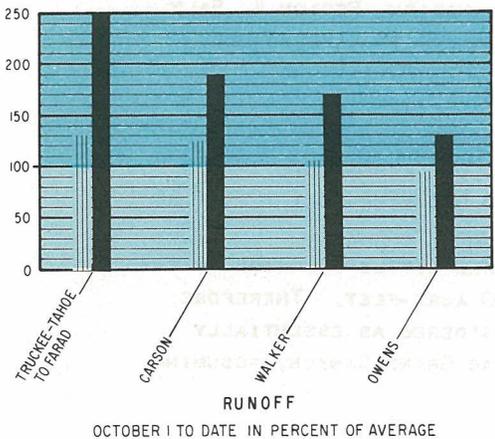
SNOWPACK - MEASUREMENTS OF SNOWPACK WERE OBTAINED AT 62 SNOW COURSES AND 33 AERIAL SNOW DEPTH MARKERS ON OR ABOUT APRIL 1. THESE MEASUREMENTS INDICATE THAT SNOWPACK WATER CONTENT WAS 80 PERCENT OF AVERAGE, AS COMPARED TO 240 PERCENT ONE YEAR AGO. IT RANGED FROM A HIGH OF 95 PERCENT IN THE MONO LAKE BASIN TO A LOW OF 60 PERCENT IN THE SURPRISE RIVER BASIN.



PRECIPITATION - OCTOBER THROUGH MARCH PRECIPITATION AVERAGED 110 PERCENT OF NORMAL FOR THE LAHONTAN AREA. SUB-DRAINAGES FROM THE WALKER RIVER NORTH ARE NORMAL OR ABOVE. HOWEVER, THE MONO LAKE-OWENS DRAINAGE RECEIVED ONLY 65 PERCENT OF NORMAL FOR THIS PERIOD, ONLY ABOUT ONE-FOURTH OF LAST YEAR'S RECORD VALUE. PRECIPITATION DURING MARCH AVERAGED 50 PERCENT OF NORMAL OVER THE AREA. EXTREMES VARIED FROM 76 PERCENT OF NORMAL AT CEDARVILLE, IN THE SURPRISE VALLEY DRAINAGE, TO NO MEASURABLE PRECIPITATION AT DEATH VALLEY.



RESERVOIR STORAGE - APRIL 1 STORAGE IN SEVEN MAJOR CALIFORNIA RESERVOIRS IN THE LAHONTAN AREA WAS 292,000 ACRE- FEET. AT 84 PERCENT OF CAPACITY THIS AMOUNTS TO 140 PERCENT OF NORMAL STORAGE FOR THIS DATE AND IS 96,000 ACRE- FEET MORE THAN ON APRIL 1 OF LAST YEAR. STORAGE IN THREE OTHER MAJOR RESERVOIRS THAT STORE WATER FOR USE IN BOTH NEVADA AND CALIFORNIA WAS 678,000 ACRE- FEET. THIS IS 82 PERCENT OF CAPACITY AND 160 PER- CENT OF AVERAGE FOR APRIL 1. LAKE TAHOE IS STORING 608,000 ACRE- FEET WHICH IS 155 PERCENT OF AVERAGE SUPPLIES. THE WATER SURFACE ELEVATION ON APRIL 1, 1970, WAS 6227.99 FEET.



RUNOFF - MARCH RUNOFF IN THE LAHONTAN AREA TOTALLED 103,000 ACRE- FEET OR 135 PERCENT OF NORMAL. ALL STREAMS WERE ABOVE AVERAGE, VARYING FROM 103 PERCENT FOR THE OWENS RIVER TO 212 PERCENT FOR THE WEST FORK OF THE CARSON. RUNOFF FOR THE WATER YEAR TO DATE AMOUNTS TO 568,000 ACRE- FEET OR 200 PERCENT OF NORMAL FOR THE SIX- MONTH PERIOD. THE LARGEST PRODUCER WAS THE TRUCKEE RIVER WITH 255 PERCENT OF NORMAL FLOWS.

FORECASTS - CONDITIONS OF APRIL 1 INDICATE THAT RUNOFF FROM THE LAHONTAN AREA DURING THE 1969-70 WATER YEAR WILL BE ABOUT 120 PERCENT OF AVERAGE. THE DEPARTMENT OF WATER AND POWER OF THE CITY OF LOS ANGELES FORECASTS THE APRIL-JULY RUNOFF FOR THE OWENS RIVER BELOW LONG VALLEY RESERVOIR TO BE ABOUT 42,000 ACRE- FEET, 74 PERCENT OF LONG- TERM MEAN.

LAHONTAN AREA

FORECASTS AS OF APRIL 1, 1970			
STREAM AND STATION	APRIL-JULY RUNOFF		
	AVERAGE IN ACRE-FEET	IN ACRE-FEET	IN PERCENT OF AVERAGE
Bidwell Creek near Ft. Bidwell	10,930	11,300	103
Mill Creek above diversions	4,860	4,500	93
Deep Creek above diversions	3,470	3,300	95
Eagle Creek at Eagleville	4,730	4,300	91
Truckee River, Lake Tahoe to Farad accretion	262,000	220,000	84
Lake Tahoe Rise (assuming gates closed)	1.47 FT.	1.20 FT.	82
East Carson River near Gardnerville	178,000	175,000	98
West Carson River at Woodfords	50,000	45,000	90
East Walker River near Bridgeport	57,000	60,000	105
West Walker River near Coleville	140,000	150,000	107

SNOW LINES



PHONING IN SNOW NOTES - THE SECOND THING A SNOW SURVEYOR SHOULD DO, UPON ARRIVING HOME FROM A SNOW SURVEY TRIP, IS TO PHONE IN THE AVERAGE DEPTH AND WATER CONTENT OF HIS COURSES TO THE SNOW SURVEYS OFFICE. (WE SUSPECT HE WILL WANT TO TAKE OFF HIS SKIS OR SNOWSHOES FIRST.) ALTHOUGH ALL SNOW NOTES ARE EVENTUALLY RECEIVED BY MAIL, WE WISH TO STRESS THAT SNOW DATA NEEDS ARE CRITICAL FOR BOTH THE DEPARTMENT AND MANY COOPERATING AGENCIES. SO PLEASE MR. SNOW SURVEYOR, REMEMBER TO PHONE THE NOTES IN AS SOON AS YOU COMPLETE THE SNOW SURVEY. PHONE THE CALIFORNIA COOPERATIVE SNOW SURVEYS OFFICE (916) 445-2196.



SKI-DOOS, A GROWING PROBLEM - - - THESE SMALL OVERSNOW MACHINES ARE VERSATILE, FAST, AND PROVIDE A LOT OF "WEAK-END" FUN TO DESK-BOUND URBANITES. BUT - - - IN ADDITION TO OCCASIONALLY BEING USED UNSAFELY THEY ARE BECOMING AN INCREASINGLY VEXATIOUS PROBLEM TO THE SNOW SURVEYORS. BECAUSE OUR SNOW COURSES ARE LOCATED IN MEADOWS OR FOREST OPENINGS, THE PLAYFUL SKI-DOOERS FIND THEM MOST ATTRACTIVE AS RACEWAYS. THE SNOW COVER ON THE MEASURING POINTS IS COMPACTED AND THE TRACKS REFILLED BY BLOWING SNOW. DURING THE MELT SEASON, THE TRACKS TRAP EXTRA HEAT ACCELERATING THE MELT RATE. HOPEFULLY, THIS NEW BREED OF WINTER SPORTSMAN CAN BE EDUCATED TO AVOID SNOW MEASUREMENT SITES. THEREFORE, WE URGE ALL COOPERATORS' SNOW SURVEYORS TO CONTACT SKI-DOO OPERATORS AND CLUBS IN THEIR AREAS TO EXPLAIN THE SNOW SURVEY PROGRAM AND GAIN THEIR COOPERATION IN AVOIDING SNOW SURVEY FACILITIES. FROM PAST EXPERIENCE WE HAVE FOUND THEM QUITE WILLING TO COOPERATE ONCE THEY ARE AWARE OF THE PROBLEM.

COVER

THIS WINTER A TOTAL OF 311 SNOW COURSES COMPRISE THE BASIC DATA NETWORK USED IN FORECASTING SPRING AND SUMMER RUNOFF. HERE, TWO SNOW SURVEYORS OBTAIN WATER CONTENT SAMPLES ON A COURSE IN THE AMERICAN RIVER WATERSHED.



STATE OF CALIFORNIA

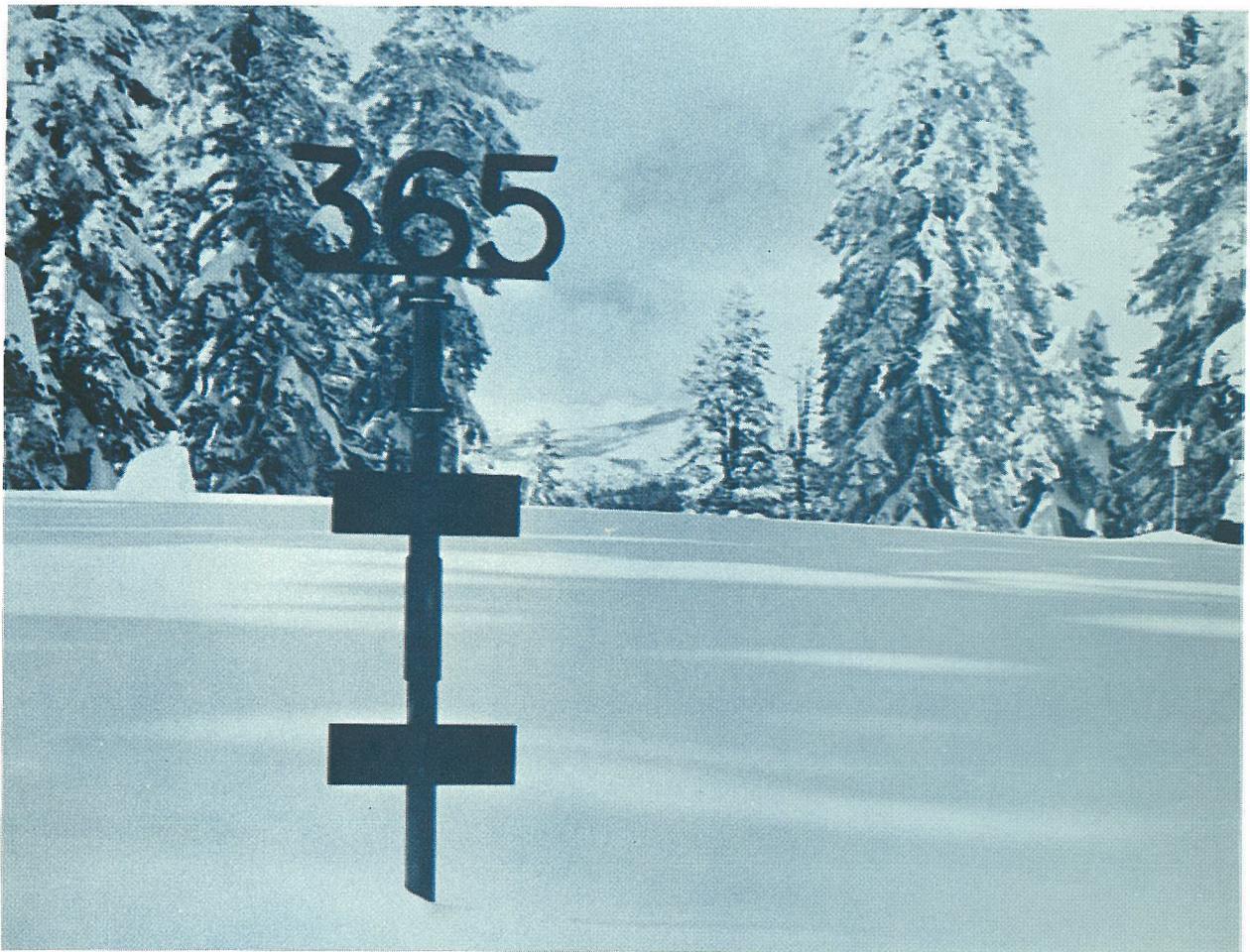
The Resources Agency

Department of Water Resources

BULLETIN No. 120-70

WATER CONDITIONS IN CALIFORNIA

Report No. 3: Basic Data Supplement



APRIL 1, 1970

NORMAN B. LIVERMORE, JR.

Secretary for Resources
The Resources Agency

RONALD REAGAN

Governor
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WILLIAM R. GIANELLI

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Department of Water Resources

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CALIFORNIA COOPERATIVE SNOW SURVEYS

STATE OF CALIFORNIA

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FOREWORD 111

REPORTS ENTITLED "WATER CONDITIONS IN CALIFORNIA" ARE PREPARED AS OF THE FIRST OF EACH MONTH, FEBRUARY THROUGH MAY, AND IN THE FALL OF EACH YEAR BY THE DEPARTMENT OF WATER RESOURCES, DIVISION OF RESOURCES DEVELOPMENT, PURSUANT TO SECTION 228, ARTICLE 2, CHAPTER 2.5, DIVISION 1, OF THE WATER CODE WHICH PROVIDES THAT:

"THE DEPARTMENT SHALL GATHER AND CORRELATE INFORMATION AND DATA PERTINENT TO AN ANNUAL FORECAST OF SEASONAL WATER CROP, INCLUDING THE MAKING OF SNOW SURVEYS, EITHER INDEPENDENTLY OR IN COOPERATION WITH ANY PERSON OR ANY COUNTY, STATE, FEDERAL, OR OTHER AGENCY."

THE APRIL 1, 1970 REPORT, PUBLISHED EARLIER AS A SEPARATE VOLUME, WAS BASED UPON THE PRECIPITATION, SNOW SURVEY, RESERVOIR STORAGE AND STREAMFLOW DATA PRESENTED IN THIS SUPPLEMENT. DATA PUBLISHED IN THIS SUPPLEMENT ARE PROVISIONAL AND SUBJECT TO REVISION. SNOW COURSE MEASUREMENT DATA FOR THE ENTIRE SEASON WILL BE SUMMARIZED IN THE FALL REPORT TO BE PUBLISHED IN MID-OCTOBER. AT 5-YEAR INTERVALS, ALL SNOW COURSE MEASUREMENTS ARE COMPILED IN SUMMARY FORM AND PUBLISHED IN BULLETIN 129, "SNOW SURVEY MEASUREMENTS".

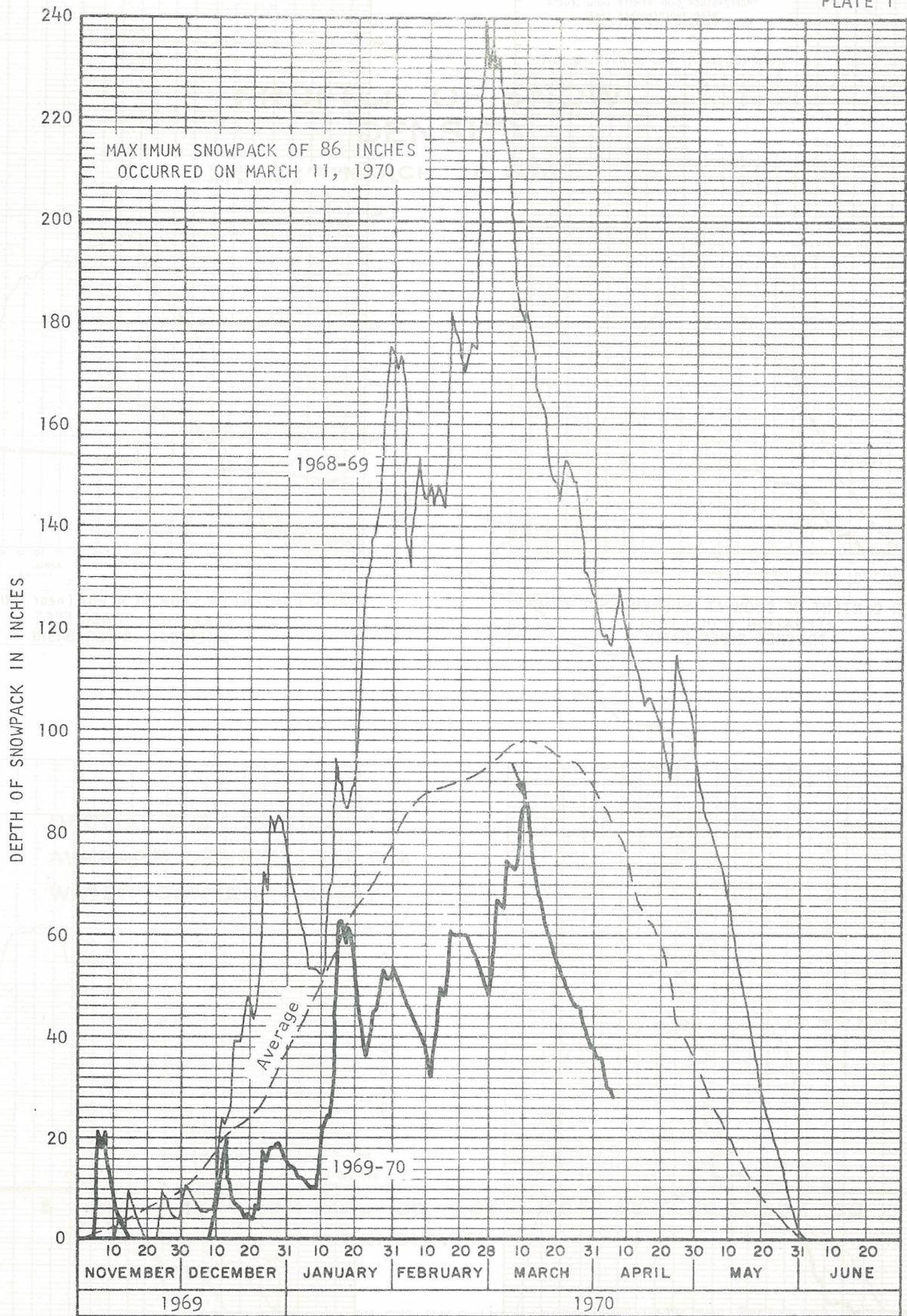
ALLIED AND SUPPLEMENTARY HYDROLOGIC INFORMATION IS AVAILABLE IN THE BULLETIN 130 SERIES. INFORMATION ON THIS AND OTHER PUBLICATIONS BY THE DEPARTMENT OF WATER RESOURCES MAY BE OBTAINED BY WRITING TO:

STATE OF CALIFORNIA
OFFICE OF PROCUREMENT, DOCUMENTS SECTION
P. O. Box 1612
SACRAMENTO, CALIFORNIA 95807

TABLE 2 - SNOW COURSE DATA (CONTINUED)

AREA, DRAINAGE BASIN, AND SNOW COURSE (1)	CALIF NUMBER	ELEV IN FEET	DATE OF SURVEY	DEPTH IN INCHES	DENSITY IN PERCENT	WATER CONTENT			
						IN INCHES	IN PER- CENT OF APR 1 AVG.	APRIL 1 AVG (2) INCHES	ONE YEAR AGO IN INCHES
TRUCKEE RIVER (CONTINUED)									
INDEPENDENCE LAKE	86	8450	3-31-70	92.0	43	39.7	99	40.3	66.5
WEBBER PEAK	64	7800	3-26-70	99.4	43	42.3	97	43.8	81.2
SQUAW VALLEY 2	318	7500	3-29-70	107.0	45	48.3	94	51.6	84.0
INDEPENDENCE CAMP	88	7000	3-31-70	35.0	42	14.7	65	22.7	46.7
WEBBER LAKE	89	7000	3-26-70	60.5	41	24.8	78	31.7	56.5
SAGE HEN CREEK	90	6500	3-31-70	22.0	43	9.4	53	17.9	36.6
INDEPENDENCE CREEK	91	6500	3-31-70	10.0	48	4.8	37	12.9	29.1
TRUCKEE 2	92	6400	3-28-70	20.0	39	7.8	48	16.2	30.4
DUNN PARK 2	342	6000	3-27-70	22.0	40	8.7	50	17.3	34.6
BCCA 2	95	5900	3-27-70	C.C	-	0.0	0	4.8	15.5
LAKE TAHOE BASIN									
HEAVENLY VALLEY	375	8850	3-27-70	63.0	42	20.2	-	(3)	47.0
LAKE LUCILLE	90	8200	3-31-70	138.0	40	64.1	110	58.4	95.3
RUBICON PEAK 1	97	8100	3-31-70	119.0	40	47.9	99	48.5	82.8
HAGANS MEADOW	98	8000	3-26-70	33.0	43	14.3	81	17.6	39.8
MARLETTE LAKE NEVADA	332	8000	3-25-70	52.0	42	21.7	96	22.5	42.4
RUBICON PEAK 2	99	7500	3-31-70	65.0	43	27.8	91	30.5	58.8
FREEL BENCH	100	7300	3-26-70	9.0	47	4.2	37	11.3	31.2
WARD CREEK	101	7000	3-30-70	79.0	44	35.0	78	45.0	82.4
GLENBROOK 2	333	6900	3-30-70	29.0	34	9.8	76	12.9	26.4
WARD CREEK 3	376	6750	3-30-70	69.0	43	29.8	-	(3)	68.4
RICHARDSUNS 2	103	6500	3-30-70	20.0	39	10.2	61	16.7	30.6
UPPER TRUCKEE	104	6400	3-26-70	5.0	72	3.6	48	7.5	23.0
WALKER RIVER									
VIRGINIA LAKES	150	9500	3-23-70	39.0	39	15.2	89	17.0	40.1
VIRGINIA LAKES RIDGE	377	9200	3-23-70	40.0	32	12.8	-	(3)	37.3
CENTER MOUNTAIN	151	9400	3-31-70	85.0	41	34.6	98	35.4	75.7
SONORA PASS	152	8800	3-24-70	51.0	38	19.6	81	24.1	51.4
BUCKEYE FORKS	153	8500	3-31-70	48.0	41	19.7	103	19.2	54.4
WILLOW FLAT	154	8250	3-23-70	23.0	38	8.8	85	10.3	29.0
BUCKEYE ROUGHS	155	7900	3-30-70	33.0	41	13.4	66	20.4	47.7
LEAVITT MEADOW	156	7200	3-24-70	2.0	80	1.6	21	7.5	28.0
MUNG LAKE BASIN									
GEM PASS	281	10400	3-31-70	73.3	40	29.3	90	32.5	64.5
TIOGA PASS	181	9800	3-31-70	69.4	40	28.0	109	25.8	56.6
SADDELEBAG LAKE	287	9750	3-31-70	72.4	42	30.2	91	33.2	60.9
ELLERY LAKE	286	9600	3-31-70	72.6	40	28.8	96	30.1	57.2
GEM LAKE	282	9150	3-31-70	58.5	48	27.8	89	31.3	60.3
OWENS RIVER									
BISHOP LAKE	284	11300	3-26-70	52.8	38	19.9	105	19.0	46.6
COTTONWOOD LAKES 2	220	11100	4- 1-70	37.0	33	12.2	98	12.5	41.4
EAST PIUTE PASS	212	10800	3-26-70	28.4	39	11.0	93	11.8	40.5
COTTONWOOD LAKES 1	221	10600	4- 1-70	26.4	34	9.0	78	11.5	39.5
SAWMILL	213	10300	3-26-70	40.1	38	15.4	87	17.7	49.3
ROCK CREEK 3	209	10000	4- 1-70	34.0	35	12.0	85	14.2	39.3
BIG PINE CREEK 1	217	10000	4- 1-70	40.3	35	14.2	62	22.9	63.5
BIG PINE CREEK 3	218	9800	4- 1-70	29.7	36	10.7	68	15.8	65.2
BIG PINE CREEK 2	219	9700	4- 1-70	22.4	33	7.4	45	16.3	50.4
MAMMOTH PASS	205	9500	3-31-70	81.4	42	34.4	82	41.9	86.5
NUCLEAR 2	358	9500		NO SURVEY MADE				(3)	65.5
NORTH LAKE	214	9300	3-27-70	13.9	39	5.4	62	8.7	35.5
ROCK CREEK 2	210	9050	4- 1-70	20.2	37	7.4	80	9.3	31.0
MINARETS 2	206	9000	3-31-70	56.1	40	22.3	74	30.2	63.0
SOUTH FORK	215	8850	3-27-70	0.0	-	0.0	0	4.6	28.7
ROCK CREEK 1	211	8700	4- 1-70	12.6	37	4.8	61	7.9	28.6
BISHOP PARK	216	8400	3-27-70	0.0	-	0.0	0	4.1	29.2
MAMMOTH	208	8300	3-31-70	34.8	39	13.6	69	19.8	46.4
MINARETS 3	367	8200	3-31-70	32.1	39	12.6	-	(3)	49.6
NUCLEAR 1	357	7800	4- 1-70	0.0	-	0.0	-	(3)	15.8
MOJAVE DESERT									
ISLIP 3	305	7600	3-31-70	36.7	46	17.0	120	14.2	35.6
ISLIP 4	306	7550	3-31-70	26.7	52	14.0	95	14.8	45.1
ISLIP 2	304	7400	3-31-70	19.7	57	11.3	105	10.8	30.4
BLUE RIDGE	340	7200	4- 2-70	3.2	34	1.1	46	2.4	14.8
BUCKHORN	271	7100	4- 1-70	9.9	51	5.0	98	5.1	21.4
CEDAR SPRINGS	272	6500	4- 1-70	7.2	46	3.3	77	4.3	15.4
SQUAW CAMP	273	5800	4- 1-70	0.0	-	0.0	-	(3)	0.0
COLORADO DESERT AREA									
WHITewater RIVER									
TAHQUITZ VALLEY	296	7800	4- 5-70	2.7	48	1.3	16	8.1	503.2

- (1) LATE DATA AND DATA FOR COURSES NOT SCHEDULED FOR MEASUREMENTS WILL BE PUBLISHED IN THE FALL REPORT.
- (2) AVERAGES ARE COMPUTED FOR THE 35-YEAR PERIOD, 1931-1965
- (3) INSUFFICIENT RECORD FOR COMPUTATION OF AVERAGE.
- (4) NO SURVEY MADE.
- (5) DENSITY AND WATER CONTENT ESTIMATED.



DEPTH OF SNOW AT NORDEN
ELEVATION 7,000 FEET

TABLE 3

AERIAL PHOTOGRAPHIC SNOW DEPTH MEASUREMENTS

AREA, DRAINAGE BASIN, AND AERIAL MARKER	CALIF. NO	ELEV IN FEET	DATE OBSERVED	DEPTH, IN INCHES		WATER CONTENT, IN INCHES ESTIMATED, APR 1 AVERAGE (2)	AREA, DRAINAGE BASIN, AND AERIAL MARKER	CALIF. NO	ELEV IN FEET	DATE OBSERVED	DEPTH, IN INCHES		WATER CONTENT, IN INCHES ESTIMATED, APR 1 AVERAGE (2)
				IN	ESTIMATED						IN	ESTIMATED	
CENTRAL VALLEY AREA							KINGS RIVER (CONTINUED)						
FEATHER RIVER							BLACKCAP BASIN	223	10300		NO SURVEY MADE		32.6
THREE LAKES	53	6250		NO SURVEY MADE			GRANITE BASIN	546	10000	4- 2-70	81	32	--
HARKNESS FLAT	51	6200		NO SURVEY MADE	28.3		MITCHELL MEADOW	511	9900	4- 2-70	63	27	--
MILL CREEK FLAT	54	5900		NO SURVEY MADE	38.3		RATTLESNAKE CR BASIN	515	9900	4- 2-70	63	27	--
FREDONYER PASS 1	50	5750		NO SURVEY MADE	8.8		BEARD MEADOW	225	9800		NO SURVEY MADE		30.9
LETTERBOX	49	5600		NO SURVEY MADE	47.0		UPPER BURNT CORRAL MDW	224	9700		NO SURVEY MADE		33.3
FEATHER RIVER MEADOWS	58	5400		NO SURVEY MADE	22.6		SCENIC MEADOW	512	9650	4- 2-70	45	17	--
WARNER CREEK	59	5100		NO SURVEY MADE	15.9		WEST WOODCHUCK MEADOW	570	9100	4- 2-70	60	23	--
HUMBUG SUMMIT	60	4850		NO SURVEY MADE	11.6		SWAMP MEADOW	228	9000		NO SURVEY MADE		35.4
							ROUND CORRAL	229	9000		NO SURVEY MADE		32.8
YUBA RIVER							KOWELL MEADOW						
RED MOUNTAIN	67	7200	3-26-70	102	46	48.4	WOODCHUCK MEADOW	227	8800		NO SURVEY MADE		26.1
LAKE STERLING	70	7100	3-26-70	102	49	53.3	LONG MEADOW	232	8500		NO SURVEY MADE		29.5
UDGNER SUMMIT	69	6900	3-26-70	72	34	38.6	STATUM MEADOW	233	8300		NO SURVEY MADE		27.1
FURNACE FLAT	76	6700	3-26-70	80	42	46.8	HELMS MEADOW	230	8250		NO SURVEY MADE		30.1
LAKE FORDYCE	77	6500	3-26-70	50	26	40.0							24.2
AMERICAN RIVER							RODSUNS MEADOW						
UPPER CARSON PASS	106	8500	3-29-70	74	35	34.6	CORSE CORRAL MEADOW	237	7600		NO SURVEY MADE		27.4
LYONS LAKE	552	8500	4- 7-70	51	24	--	ATTERSON MOUNTAIN	567	7320	4- 2-70	12	6	--
LAKE LOIS	502	8250	4- 7-70	81	39	--	FRED MEADOW	239	6950		NO SURVEY MADE		21.1
LAKE NO. 3	501	8200	4- 7-70	122	58	--							
PHIPPS CREEK	503	7600	4- 7-70	36	17	--	KAWAIAH RIVER						
							GIANT FOREST	568	6650	4- 2-70	0	0	--
LOST CORNER MOUNTAIN	338	7500	4- 7-70	40	19	32.4	KERN RIVER						
WILLOW FLAT	551	7400	4- 7-70	58	28	--	UPPER TYNDALL CREEK	516	11400		NO SURVEY MADE		--
TWO PEAKS	548	7350	4- 7-70	54	26	--	LIGHORN PLATEAU	250	11350		NO SURVEY MADE		22.7
SHADOW LAKE	550	7300	4- 7-70	65	31	--	COTTONWOOD PASS	251	11050	4- 2-70	24	8	13.2
SILVER LAKE	109	7100	3-29-70	21	9	22.8	SIBERIAN PASS	252	10900	4- 2-70	30	11	18.0
							CRABTREE MEADOW	253	10700	4- 2-70	39	14	15.0
RIGGER FLAT	555	6950	4- 7-70	21	10	--							
WRIGHTS LAKE	316	6900	4- 7-70	55	26	32.6	BOYOT FLAT	254	10650	4- 2-70	39	14	20.2
QUINNS CORRAL	553	6800	4- 7-70	57	27	--	TYNDALL CREEK	255	10650		NO SURVEY MADE		18.3
UPPER BASSI	499	6350	4- 7-70	7	3	--	SANDY MEADOW	275	10650	4- 2-70	39	14	18.4
HELLS DELIGHT	554	5750	4- 7-70	0	0	--	SHOTGUN PASS	517	10400		NO SURVEY MADE		--
							CHAGOOA PLATEAU	514	10300	4- 2-70	48	17	--
MUKELUMNE RIVER							BIG WHITNEY MEADOW						
BLUE LAKES	129	8000	3-29-70	94	39	34.8	ROCK CREEK	256	9600		NO SURVEY MADE		17.0
PACIFIC VALLEY	132	7500	3-29-70	55	26	36.2	ROUND MEADOW	258	9000	4- 2-70	39	17	25.3
BEAR VALLEY RIDGE NO 1	134	6700	3-29-70	40	17	25.4	WET MEADOW	518	8950	4- 2-70	30	13	--
							AMSHAW MEADOW	259	8700	4- 2-70	12	6	11.2
STANISLAUS RIVER							LITTLE WHITNEY MEADOW						
HEADMAN CREEK	345	9250	3-26-70	80	35	33.6	CASA VIEJA MEADOWS	260	8500	4- 2-70	9	5	13.2
CLARK FORK MEADOW	344	8900	3-26-70	84	35	36.9	QUINN RANGER STATION	264	8350		NO SURVEY MADE		19.5
HIGHLAND MEADOW	323	8800	3-26-70	100	47	48.1	BONITA MEADOWS	261	8300	4- 2-70	12	6	13.0
MOUNT REBA	566	8480	3-26-70	99	44	--	MONACHE MEADOWS	263	8000	4- 2-70	0	0	7.5
LOWER RELIEF VALLEY	138	8100	3-26-70	76	34	38.5	BEACH MEADOWS	265	7650	4- 2-70	0	0	9.3
LODA CREEK FLAT	139	7800	3-26-70	30	13	21.5	LAHUNTAN AREA						
LAKE ALPINE	141	7550	3-29-70	73	32	40.6	CARSON RIVER						
EAGLE MEADOW	140	7500	3-26-70	36	15	23.8	EBBETS PASS	562	8700	3-24-70	83	33	--
RELIEF DAM	143	7250	3-26-70	30	13	19.4	WET MEADOWS LAKE	561	8100	3-24-70	54	22	--
							UPPER FISH VALLEY	563	8100	3-24-70	30	12	--
							WOLF CREEK	560	8000	3-24-70	62	25	--
							POISON FLAT	330	7700	3-24-70	26	10	15.6
TUOLUMNE RIVER							WALKER RIVER						
LANA MEADOWS	157	9850	4- 2-70	69	26	29.3	CENTER MOUNTAIN	551	9400		NO SURVEY MADE		35.4
BOND PASS	159	9300		NO SURVEY MADE	42.4		LCBDELL LAKE	564	9200	3-24-70	28	11	--
NEW GRACE MEADOW	368	8900		NO SURVEY MADE	--		MENDOCINO LAKE BASIN						
HURSE MEADOW	162	8400		NO SURVEY MADE	45.2		LONAHUE PASS	522	10800	4- 2-70	70	29	--
WILMER LAKE	163	8000		NO SURVEY MADE	42.3		ALGER LAKE	521	10600	4- 2-70	48	20	--
							BLATE CREEK	520	10300	4- 2-70	79	33	--
SACHSE SPRINGS	165	7900		NO SURVEY MADE	37.3		SADDLEBAG LAKE	519	10200	4- 2-70	111	47	--
SPOTTED FAWN	164	7800		NO SURVEY MADE	45.3		WARREN CREEK	523	10200	4- 2-70	60	25	--
HUCKLEBERRY LAKE	166	7800		NO SURVEY MADE	41.1		TIOGA PASS						
PARISISE	167	7700		NO SURVEY MADE	39.3								25.8
UPPER KIBBIE RIDGE	168	6700		NO SURVEY MADE	19.5		COWEN RIVER						
							SCHOBER PASS	525	12300	4- 2-70	48	19	--
VERNON LAKE	169	6700		NO SURVEY MADE	23.9		MOUNT MORGAN	533	12000	4- 2-70	54	21	--
LOWER KIBBIE RIDGE	173	6700		NO SURVEY MADE	26.2		PIUTE PASS	565	11700	3-24-70	0	0	--
BEEHIVE MEADOW	171	6500		NO SURVEY MADE	26.4		COYOTE RIDGE	527	11500	4- 2-70	84	33	--
							BIG PINE CREEK BASIN	534	11500	4- 2-70	60	23	--
SAN JOAQUIN RIVER							LAKE DOROTHY						
HUMPHREYS BASIN	509	11600		NO SURVEY MADE	--		SAWMILL PASS	537	11400	4- 2-70	72	28	--
EMERALD LAKE	184	10600		NO SURVEY MADE	34.4		BISHOP LAKE	284	11300	4- 2-70	60	23	19.0
PIONEER BASIN	276	10400		NO SURVEY MADE	37.2		COTTONWOOD LAKES	541	11200	4- 2-70	36	14	--
ISLAND PASS	504	10300		NO SURVEY MADE	--		PIUTE LAKE (EAST)	524	11000	4- 2-70	51	20	--
BENCH CANYON	506	10200		NO SURVEY MADE	--		BRUNKEN SAILOR	530	11000	4- 2-70	74	29	--
HEART LAKE	185	10100		NO SURVEY MADE	27.5		GEORGE LAKE	529	10600	4- 2-70	31	12	--
VOLCANIC KNOB	186	10100		NO SURVEY MADE	30.7		GOLDEN TROUT CABIN	542	10600	4- 2-70	12	6	--
ROSE MARIE	187	10000		NO SURVEY MADE	29.0		SHEPHERDS PASS	540	10500	4- 2-70	66	26	--
COLBY MEADOW	188	9700		NO SURVEY MADE	21.8		TREASURE LAKE	528	10200	4- 2-70	65	27	--
AGNEW PASS	189	9450		NO SURVEY MADE	30.6		BIG PINE LAKES	535	10100	4- 2-70	24	11	--
							ROCK CREEK LAKES	532	10000	4- 2-70	24	11	--
KAISER PASS	190	9100		NO SURVEY MADE	37.5		MORSESHOE MEADOWS	543	10000	4- 2-70	18	8	--
DUTCH LAKE	191	9100		NO SURVEY MADE	27.3		MAMMOTH PASS	205	9500	4- 2-70	84	35	41.9
COYOTE LAKE	192	8850		NO SURVEY MADE	31.7		UNION VALLEY	538	9000	4- 2-70	12	6	--
CORA LAKES	193	8400		NO SURVEY MADE	38.6								
STRING MEADOW	508	8400		NO SURVEY MADE	--								
TWIN MEADOWS	505	8400		NO SURVEY MADE	--								
CLOVER MEADOW	200	7000		NO SURVEY MADE	23.1								
JACKASS MEADOW	201	6950		NO SURVEY MADE	23.2								
CHIQUITO CREEK	202	6800		NO SURVEY MADE	21.7								
KINGS RIVER							BIG PINE LAKES						
BISHOP PASS	222	11200	4- 2-70	46	21	29.8	ROCK CREEK LAKES	532	10000	4- 2-70	24	11	--
TABOOSE PASS	536	11000	4- 1-70	42	17	--	MORSESHOE MEADOWS	543	10000	4- 2-70	18	8	--
CARDINAL LAKE	513	10900	4- 2-70	60	24	--	MAMMOTH PASS	205	9500	4- 2-70	84	35	41.9
CHARLOTTE RIDGE	299	10700	4- 2-70	60	23	29.4	UNION VALLEY	538	9000	4- 2-70	12	6	--
BENCH LAKE	510	10600	4- 2-70	48	19	--							
STATE LAKES	545	10350	4- 2-70	45	21	--							

(1) A NUMBER LESS THAN 500 INDICATES THE AERIAL MARKER IS LOCATED WITHIN 1000 FEET OF THE SNOW COURSE HAVING THE SAME NAME AND NUMBER.

(2) THE APRIL 1 AVERAGE WATER CONTENT IS FOR THE ASSOCIATED SNOW COURSE DURING THE PERIOD 1931-65.

TABLE 4
SUMMARY OF STORAGE IN MAJOR RESERVOIRS

AREA	NUMBER OF RESERVOIRS	TOTAL CAPACITY 1000 AF	AGGREGATE STORAGE AS OF APRIL 1				
			10-YEAR AVE 1960-1969 1000 AF	1969 1000 AF	1970		
					1000 AF	PERCENT OF AVERAGE	PERCENT OF CAPACITY
INTRASTATE							
NORTH COASTAL	4	2713.900	2220.950	1916.230	2627.360	118	97
SAN FRANCISCO BAY	17	620.400	425.460	561.320	548.970	129	88
CENTRAL COASTAL	6	985.700	621.070	848.610	731.610	118	74
SOUTH COASTAL	26	1485.600	501.110	952.110	837.930	167	56
SACRAMENTO VALLEY	34	15945.600	11131.960	11548.820	13582.370	122	85
SAN JOAQUIN VALLEY	27	5925.400	2596.070	2540.960	3596.790	139	61
LAHONTAN	7	348.200	210.090	196.200	288.960	138	83
SUBTOTAL	121	28024.800	17706.710	18564.250	22214.000	125	79
INTERSTATE							
NORTH COASTAL	3	1205.100	648.340	738.340	926.250	143	77
LAHONTAN	3	828.300	431.550	551.520	678.070	157	82
COLORADO DESERT (1)	4	53533.000	26079.400	24984.000	28285.700	108	53
SUBTOTAL (1)	10	55566.400	27159.290	26273.860	29890.020	110	54
TOTAL (1)	131	83591.200	44866.000	44838.110	52104.020	116	62

(1) INCLUDES DATA FOR LAKE MEAD AND LAKE POWELL WHICH REGULATE FLOW OF THE LOWER COLORADO RIVER, THE MAJOR SOURCE OF WATER FOR THE COLORADO DESERT AND SOUTH COASTAL AREAS.

TABLE 5
STORAGE IN MAJOR RESERVOIRS

AREA AND DRAINAGE BASIN	RESERVOIR	OPERATOR	STORAGE AS OF APRIL 1					
			CAPACITY (1) 1000 AF	10-YR AVE 1960-1969 1000 AF	1969 1000 AF	1970		
						1000 AF	PERCENT AVE	
NORTH COASTAL AREA								
KLAMATH R	UPPER KLAMATH (2)	USBR	584.000	408.010	442.160	444.780	109	
	CLEAR LAKE (2)	USBR	526.800	193.930	248.380	388.730	200	
	GERBER (2)	USBR	94.300	46.390	47.800	92.740	200	
SHASTA R	DWINNELL	MONTAGUE WCD	50.000	32.840	39.260	49.480	151	
	TRINITY R	USBR	2447.700	2039.060(6)	1735.900	2435.100	118	
	SOUTH EEL R	PAC GAS AND ELEC CO	93.700	76.920	68.800	67.300	87	
	RUSSIAN R	US CORPS OF ENGIN	122.500	72.100	72.270	75.480	105	
SAN FRANCISCO BAY AREA								
NORTH BAY	CONN CR	CITY OF NAPA	31.000	30.490	31.000	31.000	102	
	NICASIO CR	MARIN MWD	22.500	22.120(6)	22.500	22.500	101	
	LAGUNITAS CR	MARIN MWD	16.700	15.790	16.700	16.400	104	
		ALPINE	MARIN MWD	8.900	7.760	8.900	8.750	113
SOUTH EAST BAY	SAN PABLO CR	SAN PABLO (3)	EAST BAY MUD	43.200	34.390	40.000	38.350	112
	SAN LEANDRO CR	U SAN LEANDRO (3)	EAST BAY MUD	41.400	35.010	41.000	40.920	117
		CHABOT(3)	EAST BAY MUD	12.600	9.760	10.420	10.410	107
	BEAR CR	BRIONES (3)	EAST BAY MUD	60.400	33.490(6)	38.420	54.550	162
	SAN ANTONIO CR	SAN ANTONIO	CITY CO SAN FRANCISCO	50.500	33.600(6)	43.840	33.880	100
	COYOTE CR	COYOTE	SANTA CLARA VALLEY WC	24.500	13.760	22.880	23.520	171
		LERDY ANDERSON	SANTA CLARA VALLEY WC	93.100	29.620	88.470	86.840	293
	LOS GATOS CR	LEXINGTON	SANTA CLARA VALLEY WC	21.400	10.530	19.830	19.720	187
		AUSTRIAN	SAN JOSE WATER WORKS	6.200	4.510	6.090	6.200	137
	CALAVERAS CR	CALAVERAS (3)	CITY CO SAN FRANCISCO	100.000	74.420	97.650	91.140	122
PENINSULA								
SAN ANDREAS CR	SAN ANDREAS	CITY CO SAN FRANCISCO	18.500	17.100	18.410	14.900	87	
	LAGUNA CR	UPPER AND LOWER						
	SAN MATEO CR	CRYSTAL SPRINGS(3)	CITY CO SAN FRANCISCO	69.500	53.040	55.130	49.890	94
CENTRAL COASTAL AREA								
SALINAS R	SANTA MARGARITA LK	SAN LUIS OBISPO CITY	26.000	22.090	26.280	24.730	112	
	SAN ANTONIO	MONTEREY CC FCWCD	350.000	197.900(6)	336.500	314.560	158	
	NACIMIENTO	MONTEREY CO FCWCD	350.000	194.240	241.500	140.830	73	
SANTA YNEZ R	GIBRALTAR	SANTA BARBARA CITY	14.800	10.290	13.100	9.570	93	
	CACHUMA	USBR	204.900	180.990	196.920	204.750	113	
OLD CR	WHALE ROCK	SAN LUIS OBISPO CITY	40.000	15.530(6)	34.310	37.170	238	

TABLE 5 - STORAGE IN MAJOR RESERVOIRS (CONTINUED)

DRAINAGE BASIN	RESERVOIR	OPERATOR	CAPACITY (1) 1000 AF	STORAGE AS OF APRIL 1				
				1969		1970		
				10-YR AVE 1960-1969 1000 AF	1969 1000 AF	1970 1000 AF	PER- CENT	AVE
SOUTH COASTAL AREA								
VENTURA-SANTA ANA RIVERS								
CLARA RIVERS								
COYOTE CR	CASITAS	VENTURA R MWC	254.000	90.240(6)	206.520	217.480	240	
PIRU CR	LAKE PIRU	UNITED WCD CONS DIST	101.200	35.650	101.720	71.230	200	
MATILIJIA CR	MATILIJIA	VENTURA CO FCD	3.500	3.420	2.000	0.600	18	
SAN GABRIEL-SANTA ANA RIVERS								
SAN GABRIEL R	COGSWELL	LA CO FCD	10.900	3.510	8.810	3.560	101	
	SAN GABRIEL	LA CO FCD	43.800	6.640	9.150	1.280	19	
BEAR CR	BEAR VALLEY	BEAR V MUT WATER CO	72.200	21.250	66.030	65.070	306	
TRIB, CAJALCO CR	LAKE MATHEWS (4)	METROPOLITAN WD	182.000	168.950(6)	175.170	179.700	105	
SAN JACINTO R	LAKE HEMET	LAKE HEMET WATER CO	13.400	4.920	13.540	11.070	225	
	RAILROAD CANYON (3)	TEMESCAL WATER CO	14.700	4.290	9.920	7.710	179	
SANTIAGO CR	SANTIAGO (3)	SERRANO AND CARPENTER ID AND IRVINE CC	25.000	12.090	25.000	17.650	146	
	VILLA PARK	ORANGE COUNTY FCD	15.600	1.110(6)	3.420	0.280	24	
SANTA MARGARITA-SAN LUIS REY RIVERS								
TEMECULA CR	VAIL	VAIL COMPANY	49.500	7.500	32.610	30.670	409	
SAN LUIS REY R	HENSHAW	VISTA ID	194.300	12.520	47.580	28.830	230	
SAN DIEGUITO-SAN DIEGO RIVERS								
SAN DIEGUITO R	LAKE HODGES (3)	CITY OF SAN DIEGO	33.600	5.490	21.300	10.540	192	
SAN YSABEL CR	SUTHERLAND	CITY OF SAN DIEGO	29.700	4.770	13.950	2.610	55	
SAN VICENTE CR	SAN VICENTE (3)	CITY OF SAN DIEGO	90.200	66.190	81.450	65.340	99	
SAN DIEGO R	EL CAPITAN (3)	CITY OF SAN DIEGO	112.800	19.640	58.760	58.990	300	
BOULDER CR	CUYAMACA	HELIX ID	11.800	1.570	7.020	1.010	64	
QUAIL CANYON CR	LAKE JENNINGS (3)	HELIX ID	9.800	5.650(6)	6.770	8.020	141	
CHAPPAREL CANYON	MURRAY (3)	CITY OF SAN DIEGO	5.700	3.560	2.960	1.820	51	
SWEETWATER-OTAY RIVERS - COTTONWOOD CR								
SWEETWATER R	LAKE LOVELAND	CALIF WATER AND TEL C	25.400	3.050	14.770	15.850	519	
	SWEETWATER MAIN (3)	CALIF WATER AND TEL C	27.700	3.450	3.590	2.580	75	
OTAY R	LOWER OTAY (3)	CITY OF SAN DIEGO	56.500	6.090	14.600	17.180	282	
COTTONWOOD CR	MORENA	CITY OF SAN DIEGO	50.200	1.170	4.420	4.670	397	
	BARRETT	CITY OF SAN DIEGO	44.800	2.920	15.210	7.950	272	
SOLEDAD VALLEY								
BIG SURR CR	MIRAMAR (3)	CITY OF SAN DIEGO	7.300	5.340(6)	5.790	6.240	116	
CENTRAL VALLEY AREA								
SACRAMENTO R								
	SHASTA	USBR	4500.000	3781.600	3666.600	3980.600	105	
	WHISKEYTOWN	USBR	241.100	200.390(6)	202.340	211.890	105	
FEATHER R								
	LAKE ALMANDR	PAC GAS AND ELEC CO	1035.500	684.920(6)	609.900	927.450	134	
	BUTT VALLEY	PAC GAS AND ELEC CO	49.900	42.150	39.950	38.440	91	
	BUCKS STORAGE	PAC GAS AND ELEC CO	101.700	58.440	45.610	81.060	139	
	FRENCHMAN	DWR - STATE CF CALIF	51.000	46.390(6)	52.460	56.300	120	
	LAKE DAVIS	DWR - STATE CF CALIF	83.000	68.860(6)	75.950	82.170	118	
	LITTLE GRASS VALLEY	OROVILLE WYANDOTTE ID	93.000	72.360(6)	66.900	78.500	107	
	SLY CREEK	OROVILLE WYANDOTTE ID	65.000	42.270(6)	29.000	54.300	127	
	LAKE OROVILLE	DWR - STATE CF CALIF	3484.000	2210.450(6)	2935.200	2937.700	132	
YUBA R								
	NEW BULLARDS BAR	YUBA CO WATER AGENCY	930.000	154.500(6)	154.500	885.300	572	
	JACKSON MEADOWS	NEVADA ID	68.700	36.130(6)	36.010	54.520	150	
	BOWMAN LAKE	NEVADA ID	69.800	34.010	40.070	61.080	180	
	SPAULDING SYSTEM	PAC GAS AND ELEC CO	137.400	64.560	29.000	73.950	115	
	SCOTT FLAT	NEVADA ID	48.500	36.190	48.550	48.550	134	
BEAR R								
	ROLLINS	NEVADA ID	66.000	65.990(6)	65.990	65.990	99	
	CAMP FAR WEST	SD SUTTER WATER DIST	104.400	103.450(6)	106.600	106.100	102	
AMERICAN R								
	FRENCH MEADOWS	PLACER CO WATER AGENC	133.700	83.660(6)	48.030	84.780	100	
	LOWER HELL HOLE	PLACER CO WATER AGENC	208.400	113.450(6)	95.060	150.360	132	
	LOON LAKE	SACRAMENTO MLD	76.500	20.760(6)	18.920	12.000	57	
	TWIN LAKES	PAC GAS AND ELEC CO	21.600	7.040	4.170	10.070	143	
	UNION VALLEY	SACRAMENTO MLD	271.000	145.340(6)	105.990	232.690	159	
	ICE HOUSE	SACRAMENTO MLD	46.000	20.380(6)	12.860	34.700	169	
	FOLSOM	USBR	1010.300	575.510	453.900	614.000	107	
STONY CR								
	EAST PARK	USBR	50.900	49.640	50.500	50.700	102	
	STONY GORGE	USBR	50.000	48.860	50.160	50.830	104	
	BLACK BUTTE	US CORPS OF ENGIN	160.000	87.930(6)	80.960	77.350	87	
CACHE CR	CLEAR LAKE	CLEAR LAKE WATER CO	314.000	297.990	313.110	306.100	103	
PUTAH CR	BERRYESSA	USBR	1602.300	1465.610	1619.300	1604.210	109	
COSUMNES R								
	JENKINSON LAKE	USBR	41.000	37.310	41.480	41.130	110	

TABLE 5 - STORAGE IN MAJOR RESERVOIRS (CONTINUED)

AREA AND DRAINAGE BASIN	RESERVOIR	OPERATOR	CAPACITY (1) 1000 AF	STORAGE AS OF APRIL 1			
				10-YR AVE 1960-1969 1000 AF	1969 1000 AF	1970 1000 AF	
CENTRAL VALLEY AREA (CONTINUED)							
MUKELUMNE R	LOWER BEAR	PAC GAS AND ELEC CO	48.500	15.310	6.840	36.000	235
	SALT SPRINGS	PAC GAS AND ELEC CO	140.900	33.210	30.470	82.820	249
	PARDEE	EAST BAY MUD	210.000	176.360	172.830	191.970	109
	CAMANACHE	EAST BAY MUD	431.500	250.770(6)	239.610	258.770	102
CALAVERAS R	NEW HOGAN	US CORPS OF ENGIN	325.000	185.350(6)	168.230	172.060	92
STANISLAUS R	RELIEF	PAC GAS AND ELEC CO	15.600	3.500	0.000	6.000	171
	DONNELLS	OAKDALE-SO SAN JOAQ I	64.700	24.900	8.020	6.260	25
	HARTLEY LAKE	OAKDALE-SO SAN JOAQ I	98.300	51.630	70.120	77.840	151
	STRAWBERRY	PAC GAS AND ELEC CO	18.300	8.510	4.240	15.270	179
	MELONES	PAC GAS AND ELEC CO	112.600	81.310	31.390	104.810	129
	TULLOCH	OAKDALE-SO SAN JOAQ I	68.200	52.240	15.950	66.090	127
TUOLUMNE R	HETCH HETCHY	CITY CO SAN FRANCISCO	360.400	97.760	76.400	237.040	242
	CHERRY LAKE	CITY CO SAN FRANCISCO	268.200	79.320	70.330	181.480	229
	LAKE ELEANOR	CITY CO SAN FRANCISCO	26.100	8.120	1.870	23.360	287
	DON PEDRO	TURLOCK AND MODESTO I	290.400	183.080	174.420	181.040	99
	TURLOCK LAKE	TURLOCK ID	49.000	30.390	35.520	28.810	79
	MODESTO	MODESTO ID	27.000	17.910	15.740	24.100	135
MERCED R	LAKE MCCLURE	MERCED ID	1026.000	542.500(6)	644.000	708.400	130
SAN JOAQUIN R	FLORENCE LAKE	SO CALIF EDISON CO	64.600	0.500	0.720	0.430	84
	THOMAS A EDISON	SO CALIF EDISON CO	125.200	29.150	5.730	27.240	93
	MAMMOTH POOL	SO CALIF EDISON CO	122.700	16.600	15.300	4.640	28
	HUNTINGTON LAKE	SO CALIF EDISON CO	89.800	30.820	12.270	57.170	185
	SHAVER LAKE	SO CALIF EDISON CO	135.400	30.310	14.800	53.380	176
	CRANE VALLEY MILLERTON LAKE	PAC GAS AND ELEC CO USBR	45.400 520.600	29.390 300.050	32.900 145.500	35.830 448.900	122 150
KINGS R	COURTRIGHT	PAC GAS AND ELEC CO	129.900	44.140	1.890	6.420	15
	WISHON	PAC GAS AND ELEC CO	128.600	20.470	13.710	18.370	69
	PINE FLAT	US CORPS OF ENGIN	1013.400	523.420	664.600	803.560	154
KERN R KAWEAH R TULE R	ISABELLA	US CORPS OF ENGIN	570.000	142.990	175.130	262.260	183
	TERMINUS	US CORPS OF ENGIN	150.000	20.830(6)	82.430	14.700	70
	SUCCESS	US CORPS OF ENGIN	80.000	28.730(6)	59.760	31.330	108
LAHONTAN AREA TRUCKEE R	LAKE TAHOE(2,7)	TRUCKEE-CARSON ID	744.600	390.660	545.600	608.100	156
	BOCA (2)	WASHOE CO WCD	41.200	11.420	2.260	27.470	240
EAST WALKER R	BRIDGEPORT (2)	WALKER RIVER ID	42.500	29.460	3.660	42.500	144
MONO LAKE BASIN	SADDLEBAG LAKE	SO CALIF EDISON CO	11.100	2.320	2.010	3.230	139
	GEM LAKE	SO CALIF EDISON CO	17.600	2.690	2.570	1.920	71
	GRANT LAKE	CITY OF LOS ANGELES	47.500	29.030	27.210	44.490	153
OWENS R	SOUTH LAKE	SO CALIF EDISON CO	13.400	2.620	2.800	4.380	167
	LAKE CROWLEY	CITY OF LOS ANGELES	183.500	129.160	122.660	173.120	134
	TINEMAHA	CITY OF LOS ANGELES	16.600	1.910	7.290	7.910	414
	HAIWEE (SOUTH)	CITY OF LOS ANGELES	58.500	42.330	31.660	53.910	127
COLORADO DESERT AREA COLORADO R	LAKE POWELL (2,7)	USBR	25002.000	7547.800(6)	7392.000	9535.000	125
	LAKE MEAD (2,7)	USBR	26102.000	16309.900	15386.000	16597.000	102
	LAKE MOJAVE (2,7)	USBR	1810.000	1672.090	1652.500	1610.500	96
	LAKE HAVASU (2,7)	USBR	619.000	549.590	553.500	543.200	99

- (1) TOTAL CAPACITY TO THE NEAREST HUNDRED ACRE FEET.
- (2) INTERSTATE RESERVOIR USED JOINTLY BY CALIFORNIA AND ADJACENT STATES.
- (3) INCLUDES FOREIGN WATER.
- (4) STORES ONLY IMPORTED COLORADO RIVER WATER.
- (5) NEW RESERVOIR--AVERAGE CONSIDERED EQUAL TO CURRENT STORAGE.
- (6) LESS THAN 10-YEAR AVERAGE.
- (7) DATA BASED ON ACTIVE OR USABLE CAPACITY TABLES.

TABLE 6

RUNOFF DATA

AREA, STREAM, AND STATION (1)	MARCH 1970				OCTOBER 1, 1969 - MARCH 31, 1970			
	MEASURED FLOW	UNIMPAIRED RUNOFF			MEASURED FLOW	UNIMPAIRED RUNOFF		
		50-YEAR AVE (2)	MONTHLY TCTAL	PER- CENT AVE		50-YEAR AVE (2)	SEASONAL TOTAL	PER- CENT AVE
1000 AF	1000 AF	1000 AF	AVE	1000 AF	1000 AF	1000 AF	AVE	
NORTH COASTAL AREA								
KLAMATH, COPCO TO ORLEANS (6)	642.900	577.400	660.000	114	4639.200	2546.100	3976.900	156
SALMON AT SOMESBAR	170.800	157.500	170.800	108	1336.000	647.500	1336.000	206
TRINITY AT LEWISTON	9.200	152.300	170.800	112	172.400	548.900	1168.900	213
EEL AT SCOTIA	513.900	796.500	532.800	67	7223.700	4222.600	7351.900	174
RUSSIAN AT HEALDSBURG	129.700	116.500	111.900	96	1446.300	646.300	1352.600	209
SAN FRANCISCO BAY AREA								
NAPA NEAR ST HELENA	10.080	9.030	10.080	112	122.550	50.910	122.550	241
COYOTE CREEK NEAR MADRONE	3.590	8.870	11.950	135	21.100	35.950	38.470	107
CENTRAL COASTAL AREA								
ARROYO SECO NEAR SOLEDAD	31.630	21.170	31.630	149	77.070	84.230	77.070	91
NACIMIENTO BELOW NACIMIENTO DAM, NEAR BRADLEY	0.860	38.700	42.110	109	49.980	162.400	141.610	67
SOUTH COASTAL AREA								
SESPE CREEK NEAR FILLMORE	29.620(3)	19.240	29.620	154	48.980(3)	56.780	48.980	66
ARROYO SECO NEAR PASADENA	1.260	1.350	1.260	93	3.300	3.940	3.300	84
SANTA ANA NEAR MENTONE	5.620(4)	10.910	7.310	67	25.760(4)	33.020	25.770	78
SACRAMENTO VALLEY AREA								
INFLOW TO SHASTA (7)	813.200	723.200	813.200	112	6075.500	3169.400	6075.500	192
SACRAMENTO ABOVE BEND BRIDGE (8)	784.400	1080.700	1169.700	106	9180.700	4794.500	9238.500	193
FEATHER, INFLOW TO OROVILLE	514.300	572.200	677.100	118	4360.100	2110.800	4786.300	227
YUBA AT SMARTVILLE (5)	241.900	298.600	290.800	97	1544.300	1092.000	2284.600	209
AMERICAN, INFLOW TO FOLSOM	334.900	352.300	329.800	94	2598.800	1168.000	2340.600	200
COSUMNES AT MICHIGAN BAR								
MOKELUMNE, INFLOW TO PARDEE	77.340	67.420	77.310	115	459.500	208.980	385.450	184
	98.200	73.100	81.500	111	481.900	220.500	487.400	221
SAN JOAQUIN VALLEY AREA								
STANISLAUS, INFLOW TO MELONES	105.500	112.900	132.200	117	605.800	328.000	715.500	218
TUOLUMNE, INFLOW TO DON PEDRO	178.300	170.600	187.400	110	836.800	536.300	902.500	168
MERCED, INFLOW TO EXCHEQUER	69.200	91.700	108.500	118	438.700	285.700	402.500	141
SAN JOAQUIN, INFLOW TO MILLERTON	3.200	127.600	136.700	107	53.600	383.200	490.700	128
KINGS, INFLOW TO PINE FLAT	70.800	106.500	100.600	94	405.700	329.900	373.800	113
KAWEAH, INFLOW TO TERMINUS								
TULE, INFLOW TO SUCCESS	37.160	37.900	42.250	111	216.030	112.830	148.210	131
KERN NEAR BAKERSFIELD	17.950	24.300	23.850	98	98.460	67.000	87.500	131
	52.500	57.900	59.900	103	254.100	184.100	272.800	148
LAHONTAN AREA								
TRUCKEE, TAHOE TO FARAD (6)	26.980	33.610	47.160	140	188.630	102.040	260.460	255
WEST FORK CARSON AT WOODFORDS	6.750	3.190	6.750	212	27.680	14.570	27.680	190
EAST FORK CARSON NEAR GARDNERVILLE	18.960	13.620	18.960	139	100.370	52.170	100.370	192
WEST WALKER BELOW LITTLE WALKER, NEAR COLEVILLE	7.350	5.440	7.350	135	37.310	23.240	37.310	161
EAST WALKER NEAR BRIDGEPORT	6.720	7.630	10.000	131	34.420	32.200	56.920	177
OWENS BELOW LONG VALLEY DAM	16.840	12.150	12.490	103	111.930	63.030	84.770	134
COLORADO DESERT AREA								
COLORADO, INFLOW TO LAKE POWELL	599.000	581.800	439.000	75	3820.000	2571.000	2771.000	108

- (1) RESERVOIR INFLOW DATA ARE BASED ON OBSERVED FLOWS AT STATIONS DOWN-STREAM FROM LISTED FACILITY.
(2) COMPUTED FOR 50 YEAR PERIOD, 1915-16 THROUGH 1964-65.
(3) INCLUDES FILLMORE IRRIGATION COMPANY CANAL.
(4) INCLUDES SOUTHERN CALIFORNIA EDISON COMPANY CANAL.
(5) INCLUDES DEER CREEK.
(6) ACCRETIONS BETWEEN STATIONS.
(7) COMPUTED FROM OPERATING RECORDS-- UNADJUSTED FOR UPSTREAM REGULATION.
(8) UNIMPAIRED FLOWS COMPATIBLE TO THOSE AT DISCONTINUED STATION NEAR READ BLUFF.

