CALIFORNIA COOPERATIVE SNOW SURVEYS

STATE OF CALIFORNIA
The Resources Agency
Department of Water Resources

BULLETIN No. 120-71

WATER CONDITIONS IN CALIFORNIA

REPORT No. 2

MARCH 1, 1971

NORMAN B. LIVERMORE, JR.
Secretary for Resources
The Resources Agency

RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI
Director
Department of Water Resources

State of California
The Resources Agency
DEPARTMENT OF WATER RESOURCES

RONALD REAGAN, Governor
NORMAN B. LIVERMORE, Secretary for Resources
WILLIAM R. GIANELLI, Director, Department of Water Resources
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WATER CONDITIONS INDEXES

THE PRINCIPAL INDEXES OF WATER CONDITIONS IN CALIFORNIA ARE LISTED BELOW WITH PERTINENT COMMENTS REGARDING THEIR PRESENTATION IN THIS REPORT.

SNOWPACK - APRIL 1 SNOW DATA ARE MAJOR INDEXES OF SPRING AND SUMMER RUNOFF FROM SIERRA WATERSHEDS AND HISTORICALLY REFLECT THE MAGNITUDE OF THE SNOWPACK AT NEAR MAXIMUM SEASONAL ACCUMULATION. AVERAGES ARE BASED ON THE PERIOD, 1931-1970 (40 YEARS).

PRECIPITATION - AVERAGES ARE BASED ON THE PERIOD, 1931-1970 (40 YEARS).

RESERVOIR STORAGE - AVERAGES ARE BASED ON THE PERIOD, 1961-1970 (10 YEARS).

RUNOFF - UNLESS OTHERWISE NOTED, STREAMFLOW DATA USED AS INDEXES OF BASIN OR AREA RUNOFF HAVE BEEN CORRECTED FOR MAJOR UPSTREAM IMPAIRMENTS. FORECASTS OF RUNOFF ASSUME NORMAL PRECIPITATION TO FOLLOW. RUNOFF PROBABILITY RANGES ARE STATISTICALLY DERIVED FROM HISTORICAL DATA; 80 PERCENT PROBABILITY MEANS THAT ACTUAL RUNOFF WILL FALL WITHIN THE STATED LIMITS EIGHT TIMES OUT OF TEN. AVERAGES ARE BASED ON THE PERIOD, 1921-1970 (50 YEARS).

AGENCIES COOPERATING IN THE CALIFORNIA SNOW SURVEYS PROGRAM

PUBLIC AGENCIES
- BUENA VISTA WATER STORAGE DISTRICT
- CENTRAL CALIFORNIA IRRIGATION DISTRICT
- EAST BAY MUNICIPAL UTILITY DISTRICT
- FRIANT WATER USERS ASSOCIATION
- KAWEAH DELTA WATER CONSERVATION DISTRICT
- KAWEAH RIVER ASSOCIATION
- KINGS RIVER WATER ASSOCIATION
- LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
- LOWER TULE RIVER IRRIGATION DISTRICT
- MERCED IRRIGATION DISTRICT
- MODESTO IRRIGATION DISTRICT
- NEVADA IRRIGATION DISTRICT
- OAKDALE IRRIGATION DISTRICT
- OMOCHUMNE-HARTNELL WATER DISTRICT
- PLACER COUNTY WATER AGENCY
- PORTERVILLE IRRIGATION DISTRICT
- SACRAMENTO MUNICIPAL UTILITY DISTRICT
- SAUCELITO IRRIGATION DISTRICT
- SOUTH SAN JOAQUIN IRRIGATION DISTRICT
- ST. JOHNS RIVER ASSOCIATION
- TULE RIVER ASSOCIATION
- TURLOCK IRRIGATION DISTRICT
- VANDALIA IRRIGATION DISTRICT

PRIVATE ORGANIZATIONS
- ATMOSPHERICS INCORPORATED
- ATMOSPHERIC WATER RESOURCES RESEARCH
- J. G. BOSWELL COMPANY
- KERN COUNTY LAND COMPANY
- LIBERTY FARMS COMPANY
- MT. REBA INC.
- UNION CARBIDE CORPORATION

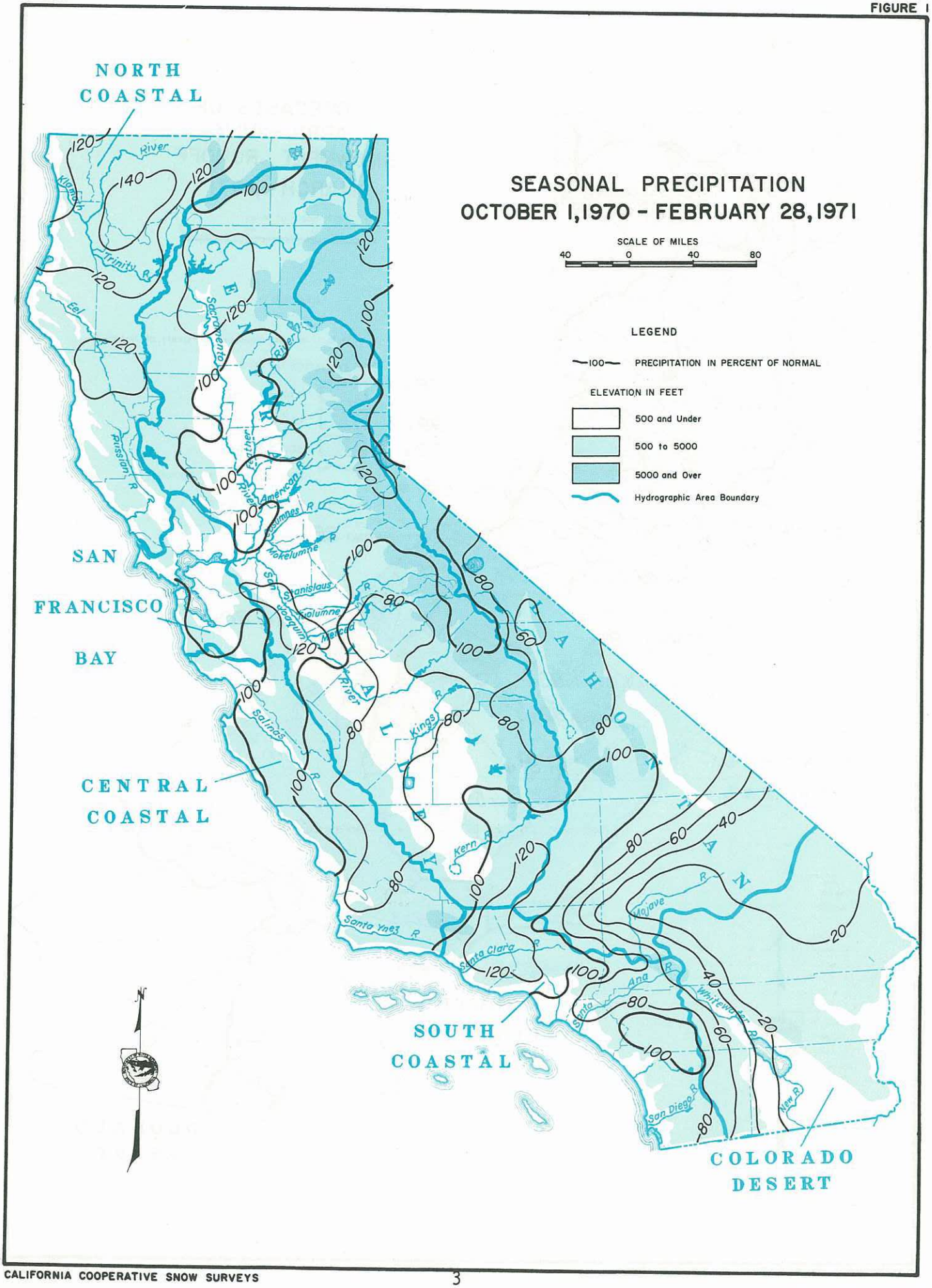
PUBLIC UTILITIES
- PACIFIC GAS AND ELECTRIC COMPANY
- SIERRA PACIFIC POWER COMPANY
- SOUTHERN CALIFORNIA EDISON COMPANY

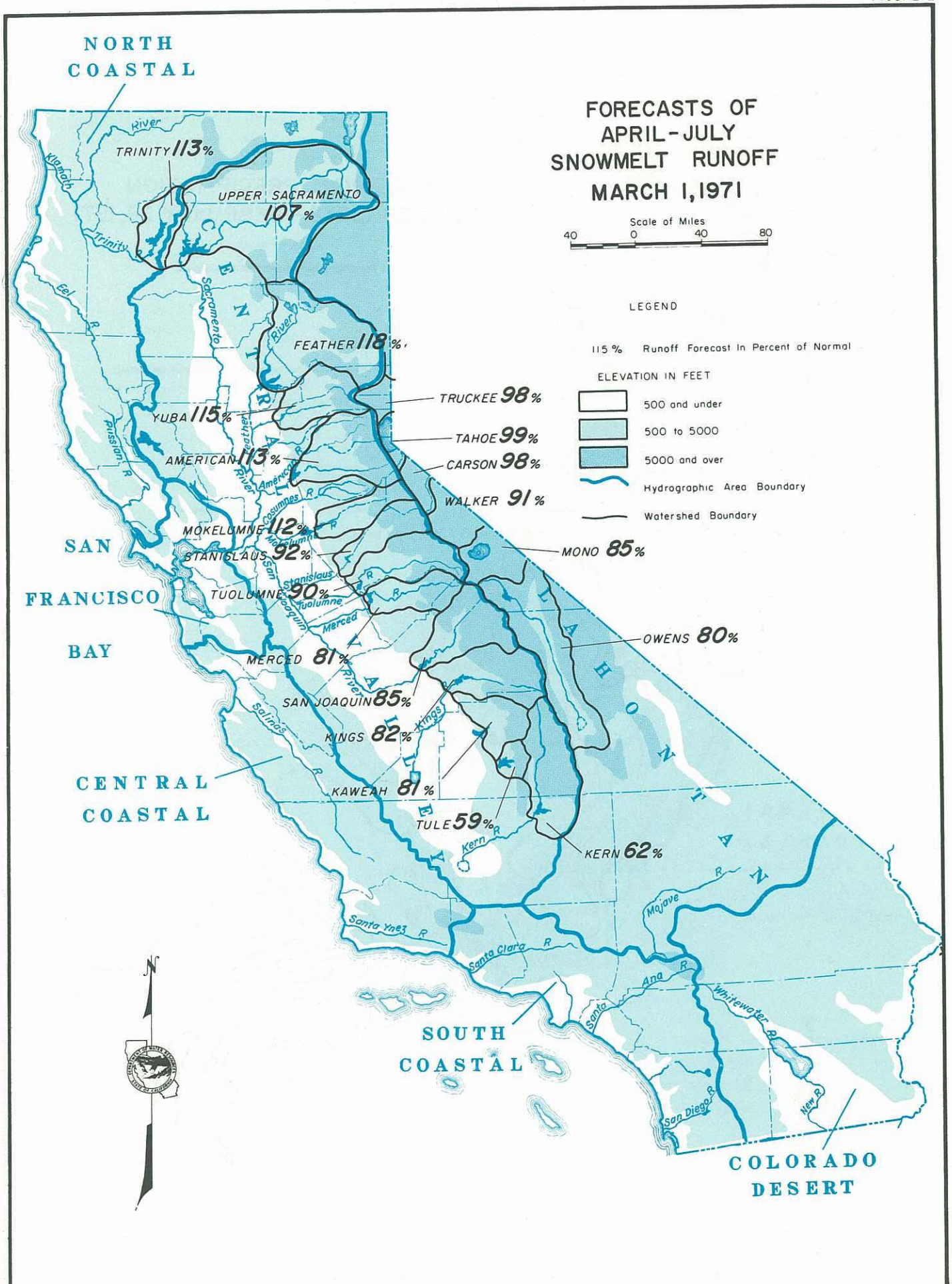
MUNICIPALITIES
- CITY OF LOS ANGELES
  - DEPARTMENT OF WATER AND POWER
- CITY OF PORTERVILLE
- CITY AND COUNTY OF SAN FRANCISCO
  - PUBLIC UTILITIES COMMISSION

STATE AND FEDERAL AGENCIES
- CALIFORNIA DEPARTMENT OF WATER RESOURCES
- CALIFORNIA DEPARTMENT OF PARKS AND RECREATION
- U. S. DEPARTMENT OF AGRICULTURE
  - FOREST SERVICE (14 NATIONAL FORESTS)
  - PACIFIC SOUTHWEST FOREST AND RANGE EXPERIMENT STATION
  - SOIL CONSERVATION SERVICE
- U. S. DEPARTMENT OF COMMERCE
  - NATIONAL WEATHER SERVICE
- U. S. DEPARTMENT OF THE INTERIOR
  - BUREAU OF RECLAMATION
  - GEOLOGICAL SURVEY, WATER RESOURCES DIVISION
  - NATIONAL PARK SERVICE (3 NATIONAL PARKS)
- U. S. DEPARTMENT OF THE ARMY
  - CORPS OF ENGINEERS

OTHER COOPERATIVE PROGRAMS
- NEVADA COOPERATIVE SNOW SURVEYS
- OREGON COOPERATIVE SNOW SURVEYS

FIGURE 1


SEASONAL PRECIPITATION
OCTOBER 1,1970 - FEBRUARY 28,1971
SCALE OF MILES
40 0 40 80
LEGEND
100 PRECIPITATION IN PERCENT OF NORMAL
ELEVATION IN FEET
500 and Under
500 to 5000
5000 and Over
Hydrographic Area Boundary
NORTH COASTAL
SAN FRANCISCO BAY
CENTRAL COASTAL
SOUTH COASTAL
COLORADO DESERT
Klamath River
Trinity R
Eel
Russian R
Sacramento River
Feather River
American R
Mokelumne R
Stanislaus R
Tuolumne R
Merced
San Joaquin River
Salinas R
Kings R
Kern R
Santa Ynez R
Santa Clara R
Santa Ana R
Mojave R
Whitewater R
San Diego R
New R
120
140
100
80
60
40
20


FORECASTS OF
APRIL-JULY
SNOWMELT RUNOFF
MARCH 1, 1971
Scale of Miles
40 0 40 80
LEGEND
115 % Runoff Forecast In Percent of Normal
ELEVATION IN FEET
500 and under
500 to 5000
5000 and over
Hydrographic Area Boundary
Watershed Boundary
NORTH COASTAL
SAN FRANCISCO BAY
CENTRAL COASTAL
SOUTH COASTAL
COLORADO DESERT
TRINITY 113%
UPPER SACRAMENTO 107%
FEATHER 118%
YUBA 115%
AMERICAN 113%
MOKELUMNE 112%
STANISLAUS 92%
TUOLUMNE 90%
MERCED 81%
SAN JOAQUIN 85%
KINGS 82%
KAWEAH 81%
TULE 59%
KERN 62%
TRUCKEE 98%
TAHOE 99%
CARSON 98%
WALKER 91%
MONO 85%
OWENS 80%
CENTRAL VALLEY
LAHONTAN
Klamath River
Trinity
Eel R
Sacramento River
Feather River
Russian R
American R
Cosumnes R
Mokelumne
Stanislaus
San Joaquin
Tuolumne
Merced
Salinas R
Kings
Kern R
Santa Ynez R
Santa Clara R
Mojave R
Santa Ana R
Whitewater R
San Diego R
New R
N

SUMMARY OF WATER CONDITIONS

MARCH 1, 1971

CALIFORNIA'S PROSPECTS FOR RECEIVING NORMAL WATER SUPPLIES DURING 1971 REMAIN GOOD EXCEPT FOR THE SOUTHERN SAN JOAQUIN VALLEY. MARCH 1 SNOW SURVEYS SHOW THAT DESPITE A PREDOMINANTLY DRY AND WARM FEBRUARY, THE WELL ABOVE AVERAGE SNOWPACK WATER CONTENT OF ONE MONTH AGO HAS BEEN RETAINED LEAVING NORMAL OR ABOVE NORMAL WATER CONTENT ON MARCH 1 IN ALL AREAS EXCEPT THE SOUTHERN SIERRA.

WITH MEAGER PRECIPITATION DURING THE MONTH FROM TWO VERY WEAK STORMS, AND SOME SNOWMELT DURING THE FIRST THREE WEEKS, A GRADUAL DECLINE IN WATER SUPPLY POTENTIALS THROUGHOUT THE STATE HAS RESULTED. FORECASTS OF APRIL THROUGH JULY RUNOFF HAVE BEEN TRIMMED ACCORDINGLY FROM THOSE PRESENTED ONE MONTH AGO. AN AREA OF DEFICIENCY, DUE TO THE DRY CONDITIONS OF THE LAST TWO MONTHS, IS DEVELOPING IN THE WATERSHEDS OF STREAMS TRIBUTARY TO THE TULARE LAKE BASIN. ABOVE AVERAGE PRECIPITATION IN THE KINGS, KAWEAH, TULE, AND KERN RIVER WATERSHELDS WILL BE NECESSARY FOR THE REMAINDER OF THE WINTER SEASON IF NORMAL RUNOFF POTENTIALS ARE TO BE REGAINED THIS YEAR.

RUNOFF DURING FEBRUARY WAS BELOW NORMAL THROUGHOUT THE STATE, ESPECIALLY IN THE COASTAL AREAS, AND WAS ONLY 60 PERCENT OF NORMAL ON A STATEWIDE BASIS. HOWEVER, BECAUSE OF WET CONDITIONS EARLIER IN THE SEASON, WATER YEAR RUNOFF TO DATE HAS BEEN EXCELLENT WITH ALL AREAS EXCEPT THE CENTRAL COAST AND SOUTHERN SAN JOAQUIN VALLEY EXPERIENCING ABOVE AVERAGE FLOWS.

TOTAL STORAGE IN 121 MAJOR RESERVOIRS THROUGHOUT THE STATE REMAINS ABOVE AVERAGE, ALTHOUGH A FEW INDIVIDUAL RESERVOIRS ARE BEING HELD AT BELOW AVERAGE LEVELS FOR THIS DATE.

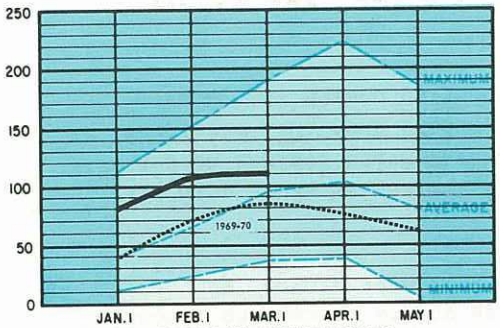
WITH SNOWMELT RUNOFF POTENTIALS DETERIORATING DUE TO THE DRY WEATHER, SOME RE-EVALUATION OF OPERATIONAL PLANS MAY BE DESIRABLE THIS MONTH IF THE DRY REGIME CONTINUES.

IN SOUTHERN CALIFORNIA, THE COASTAL AREAS HAVE BEEN DEFICIENT IN BOTH PRECIPITATION AND RUNOFF FOR THE LAST TWO MONTHS. HOWEVER, DUE TO HEAVY EARLY SEASON PRECIPITATION IN NOVEMBER AND DECEMBER, THE AREA HAS RECEIVED NEAR NORMAL RUNOFF AMOUNTS FOR THE WATER YEAR TO DATE. RESERVOIR STORAGE REMAINS EXCELLENT IN LOCAL RESERVOIRS AND THE 34.5 MILLION ACRE-FEET IN STORAGE ON THE COLORADO RIVER SYSTEM IS SLIGHTLY HIGHER THAN THE AMOUNT IN ACTIVE STORAGE ONE YEAR AGO. NORMAL WATER SUPPLIES FOR THE COLORADO DESERT AND SOUTH COASTAL AREAS WILL BE AVAILABLE THIS YEAR FROM LAKES MEAD, MOJAVE, AND HAVASU WHICH ARE ALL STORING AVERAGE AMOUNTS FOR THIS DATE.

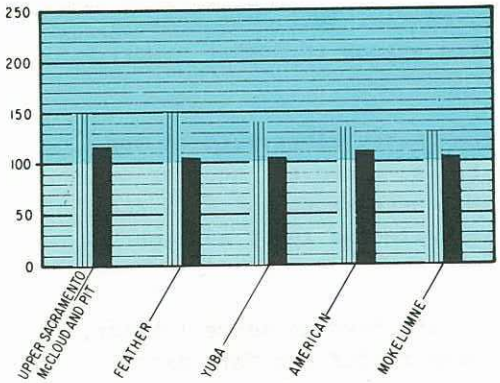
SUMMARY OF WATER CONDITIONS
IN PERCENT OF AVERAGE

HYDROGRAPHIC AREA	PRECIPITATION OCTOBER 1 TO DATE	SNOW WATER CONTENT	RESERVOIR STORAGE	RUNOFF	
				OCTOBER 1 TO DATE	WATER YEAR FORECAST
North Coastal	120	105	110	175	145
San Francisco Bay	110	--	120	115	110
Central Coastal	95	--	110	85	90
South Coastal	95	--	140	110	105
Central Valley					
Sacramento Basin	105	120	100	125	115
San Joaquin and Tulare Lake Basins	90	95	110	95	85
Lahontan	95	100	105	110	100
Colorado Desert	20	--	--	--	--
ENTIRE STATE	100	110	105	145	115

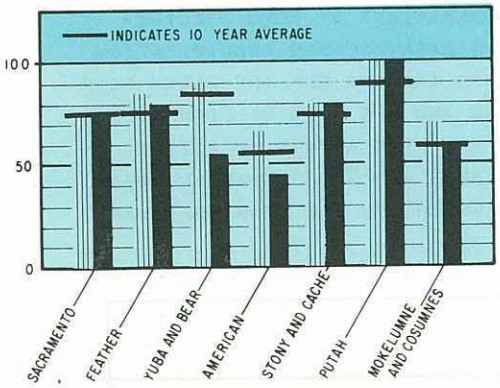
SACRAMENTO RIVER BASIN



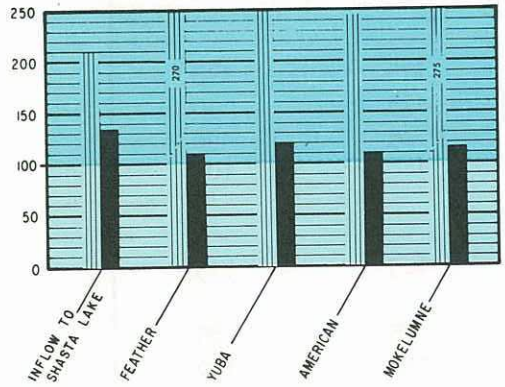
SNOWPACK ACCUMULATION
WATER CONTENT IN PERCENT OF APRIL 1 AVERAGE



PRECIPITATION
OCTOBER 1 TO DATE IN PERCENT OF AVERAGE



RESERVOIR STORAGE
CONTENTS OF MAJOR RESERVOIRS IN PERCENT OF CAPACITY



RUNOFF
OCTOBER 1 TO DATE IN PERCENT OF AVERAGE

MARCH 1, 1970 ═══ MARCH 1, 1971 ▬

SNOWPACK - MEASUREMENTS OF SNOWPACK WERE OBTAINED AT 60 SNOW COURSES AND 31 AERIAL SNOW DEPTH MARKERS ON OR ABOUT MARCH 1. ALSO, READINGS OF WATER CONTENT WERE OBTAINED FROM 11 SNOW SENSORS. THESE MEASUREMENTS INDICATE THAT SNOWPACK WATER CONTENT WAS 120 PERCENT OF AVERAGE AS COMPARED TO 90 PERCENT ONE YEAR AGO. THE WATER CONTENT RANGES FROM A HIGH OF 135 PERCENT OF AVERAGE IN THE FEATHER RIVER BASIN TO A LOW OF 105 PERCENT OF AVERAGE IN THE PIT RIVER BASIN. NEW SNOWFALL FOR THE MONTH OF FEBRUARY WAS FAR BELOW NORMAL UNTIL THE LAST FEW DAYS WHEN A VERY COLD STORM DEPOSITED UP TO 30 INCHES OF NEW SNOW IN MANY AREAS. SOME SNOW COURSES IN THIS AREA ACTUALLY SHOWED A NET DECREASE OF WATER CONTENT FROM THE FEBRUARY 1 SNOW SURVEY.

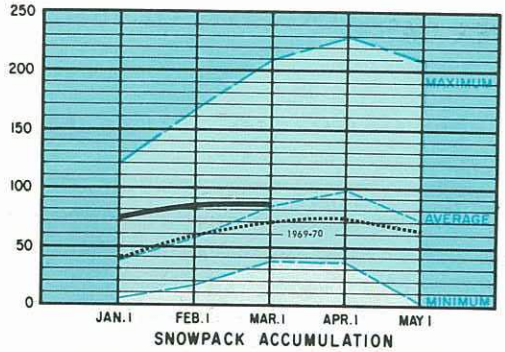
PRECIPITATION - OCTOBER 1 THROUGH FEBRUARY 28, PRECIPITATION OVER THE SACRAMENTO VALLEY AVERAGED 105 PERCENT OF NORMAL. IT VARIED FROM 130 PERCENT OF NORMAL AT SHASTA DAM TO 85 PERCENT AT WILLOWS, ON THE VALLEY FLOOR. SEASONAL TOTALS IN THE MOUNTAIN DRAINAGES AVERAGED ABOUT 110 PERCENT OF NORMAL AND ARE GENERALLY ONE-FOURTH LESS THAN THE VALUES FOR THIS SAME PERIOD ONE YEAR AGO. PIT RIVER POWERHOUSE NO. 5 HAS THE GREATEST 5-MONTH TOTAL IN THE BASIN WITH 69.05 INCHES.

FEBRUARY PRECIPITATION AVERAGED A SCANT 10 PERCENT OF NORMAL OVER THE AREA. ORLAND, ON THE VALLEY FLOOR WITH A CATCH OF ONLY 0.01 INCH, EQUALED THEIR DRIEST FEBRUARY OF RECORD, FIRST SET IN 1964 FOR THE SECOND TIME IN 61 YEARS. QUINCY, IN THE FEATHER RIVER DRAINAGE, REPORTED A MEAGER 0.22 INCH OR 3 PERCENT OF NORMAL, THEIR SECOND DRIEST SINCE 1895. BRUSH CREEK RANGER STATION, ALSO IN THE FEATHER, RECEIVED 0.06 INCH OR 1 PERCENT OF NORMAL, THEIR LOWEST SINCE 1938.

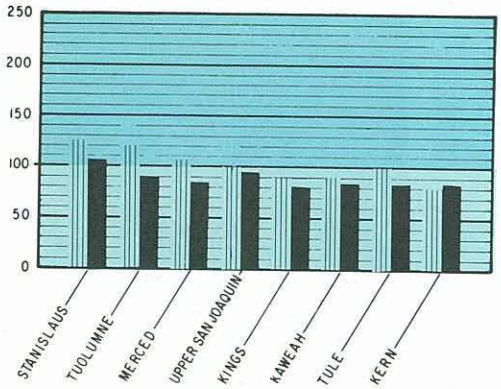
RESERVOIR STORAGE - THE THIRTY-FOUR MAJOR RESERVOIRS THAT MAKE UP THE SACRAMENTO RIVER STORAGE SYSTEM CONTAINED 11,920,000 ACRE-FEET OF STORAGE AS OF MARCH 1, WHICH IS DOWN NEARLY 1,000,000 ACRE-FEET FROM ONE YEAR AGO. HOWEVER, THE STORAGE IS 75 PERCENT OF CAPACITY AND IS VERY NEAR THE 10-YEAR AVERAGE FOR THIS DATE. THE YUBA-BEAR AND AMERICAN RIVER BASINS ARE THE ONLY RIVER BASINS IN THIS AREA SHOWING BELOW NORMAL STORAGE FOR THIS DATE.

RUNOFF - TOTAL RUNOFF IN MAJOR SACRAMENTO VALLEY STREAMS DURING THE PAST MONTH WAS ABOUT 1,636,000 ACRE-FEET OR 65 PERCENT OF NORMAL. STREAMS IN THE NORTHERN PORTION OF THE VALLEY ALL RAN FROM 65 TO 70 PERCENT OF NORMAL. FURTHER SOUTH, THE COSUMNES RIVER PRODUCED ONLY 50 PERCENT OF NORMAL FLOW FOR THE MONTH. TOTAL WATER YEAR RUNOFF, OCTOBER 1 TO DATE, HAS BEEN 9,660,000,000 ACRE-FEET OR 125 PERCENT OF NORMAL RUNOFF FOR THE AREA, WITH THE SACRAMENTO RIVER LEADING AT ABOUT 140 PERCENT OF NORMAL FOR THE PERIOD.

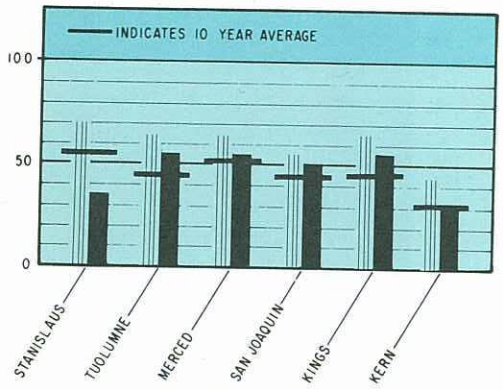
SAN JOAQUIN RIVER AND TULARE LAKE BASINS



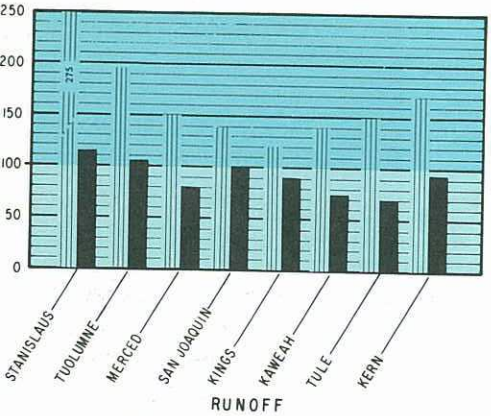
SNOWPACK ACCUMULATION
WATER CONTENT IN PERCENT OF APRIL 1 AVERAGE



PRECIPITATION
OCTOBER 1 TO DATE IN PERCENT OF AVERAGE



RESERVOIR STORAGE
CONTENTS OF MAJOR RESERVOIRS IN PERCENT OF CAPACITY



RUNOFF
OCTOBER 1 TO DATE IN PERCENT OF AVERAGE

MARCH 1, 1970 ═══ MARCH 1, 1971 ▬

SNOWPACK - MEASUREMENTS OF SNOWPACK WERE OBTAINED AT 58 SNOW COURSES AND 59 AERIAL SNOW DEPTH MARKERS ON OR ABOUT MARCH 1. ALSO, READINGS OF WATER CONTENT WERE OBTAINED FROM 6 SNOW SENSORS. THESE MEASUREMENTS INDICATE THAT SNOWPACK WATER CONTENT IS 95 PERCENT OF AVERAGE AS COMPARED TO 80 PERCENT ONE YEAR AGO. SNOWPACK WATER CONTENT RANGES FROM A HIGH OF 105 PERCENT OF AVERAGE IN THE MERCED RIVER BASIN TO A LOW OF 80 PERCENT IN THE KERN RIVER BASIN. SNOWFALL FOR THE MONTH OF FEBRUARY WAS FAR BELOW NORMAL IN THIS AREA. SNOW DENSITIES INCREASED DURING THE FIRST TWO-THIRDS OF THE MONTH AND RIPENING OF THE PACK PRODUCED MELTING IN SOME AREAS. TWO STORMS DURING THE LAST PART OF FEBRUARY DEPOSITED UP TO TWO FEET OF SNOW. THERE WERE SOME SNOW COURSES THAT SHOWED A NET DECREASE IN WATER CONTENT FOR THE MONTH, BUT THE MAJORITY REMAINED THE SAME OR HAD VERY SLIGHT INCREASES.

PRECIPITATION - PRECIPITATION FROM OCTOBER THROUGH FEBRUARY AVERAGED 90 PERCENT OF NORMAL. ALL SIERRA SUB-DRAINAGES, WITH THE SINGLE EXCEPTION OF THE STANISLAUS, ARE BELOW NORMAL. SEASONAL CATCH VALUES, WITH THE EXCEPTION OF THE KERN RIVER DRAINAGE, ARE DOWN SLIGHTLY FROM THE AMOUNTS FOR THIS SAME PERIOD ONE YEAR AGO. EXTREMES VARIED FROM 39.91 INCHES AT CALAVERAS BIG TREES, IN THE STANISLAUS RIVER DRAINAGE, TO 7.89 INCHES AT WOFFORD HEIGHTS, IN THE KERN RIVER DRAINAGE.

FEBRUARY PRECIPITATION AVERAGED ONLY 20 PERCENT OF NORMAL OVER THE AREA. IT VARIED FROM 2.33 INCHES AT STRAWBERRY, IN THE STANISLAUS RIVER DRAINAGE, TO ONLY 0.27 INCH AT KERN RIVER POWERHOUSE NO. 3.

RESERVOIR STORAGE - ON MARCH 1, 27 MAJOR RESERVOIRS ON STREAMS TRIBUTARY TO THE SAN JOAQUIN VALLEY CONTAINED 2,914,000 ACRE-FEET OF WATER. THIS IS 537,000 ACRE-FEET LESS THAN THAT HELD ONE YEAR AGO. THE TOTAL STORAGE IS 50 PERCENT OF CAPACITY AND 110 PERCENT OF THE NORMAL STORAGE FOR THIS DATE. STORAGE FOR THE STANISLAUS, KAWEAH, AND TULE RIVERS WAS 30 TO 40 PERCENT BELOW THE LONG-TERM AVERAGE. HOWEVER, PINE FLAT RESERVOIR WAS STORING 130 PERCENT OF THE NORMAL MARCH 1 SUPPLY.

RUNOFF - FEBRUARY RUNOFF WAS 70 PERCENT OF NORMAL FOR THE AREA, VARYING FROM 50 PERCENT FOR THE MERCED AND TULE RIVERS TO 85 PERCENT OF NORMAL FOR THE STANISLAUS RIVER. SEASONAL RUNOFF DURING THE WATER YEAR TO DATE HAS BEEN NORMAL FOR THE AREA. HOWEVER, THE DISTRIBUTION VARIED WIDELY WITH ONLY 70 TO 80 PERCENT PRODUCED BY THE MERCED, KAWEAH, AND TULE RIVERS AND 105 TO 115 PERCENT FOR THE TUOLUMNE AND STANISLAUS RIVERS.

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	1,120	111	--
McCloud River inflow to Shasta Lake	422	850	194	410	97	--
Sacramento River inflow to Shasta Lake	288	636	39	320	111	--
Total inflow to Shasta Lake	1,774	3,064	726	1,900	107	1,300 to 2,700
Sacramento River near Red Bluff	2,424	4,611	943	2,600	107	1,800 to 3,700
Feather River						
Inflow to Lake Almanor (nr Prattville)	326	675	120	370	113	--
North Fork at Pulga	1,031	2,416	254	1,200	116	--
Middle Fork near Clio	85	518	8	115	135	--
South Fork at Enterprise	106	267	19	120	113	--
Total inflow to Oroville Reservoir	1,862	4,676	396	2,200	118	1,750 to 3,000
Yuba River						
North Fork below Goodyears Bar	289	647	68	325	112	--
Combined inflow to Jackson Mdw. and Bowman Reservoirs	109	236	37	120	110	--
South Fork at Langs Crossings	233	481	74	260	112	--
Yuba River at Smartville	1,079	2,424	239	1,240	115	900 to 1,800
American River						
North Fork at North Fork Dam	264	716	48	295	112	--
Middle Fork near Auburn	548	1,406	117	605	110	--
Silver Creek below Camino Diversion Dam	180	383	43	190	106	--
Total inflow to Folsom Reservoir	1,314	3,074	257	1,480	113	1,050 to 2,150
Sacramento River at Sacramento						
Cosumnes River						
Cosumnes River at Michigan Bar	145	361	12	160	110	110 to 240
Mokelumne River						
North Fork near West Point	416	829	143	460	111	--
Total inflow to Pardee Reservoir	465	1,065	127	520	112	390 to 720
SAN JOAQUIN RIVER BASIN						
Stanislaus River						
Middle Fork at Sand Bar Flat near Avery	339	702	83	315	93	--
Total inflow to Melones Reservoir	718	1,710	167	660	92	430 to 950
Tuolumne River						
Cherry Creek and Eleanor Creek near Hetch Hetchy	305	560	102	275	90	--
Tuolumne River near Hetch Hetchy	599	1,392	215	540	90	--
Total inflow to Don Pedro Reservoir	1,193	2,609	385	1,070	90	750 to 1,500
Merced River						
Merced River at Pohono Bridge	359	888	121	300	84	--
Total inflow to Exchequer	608	1,491	175	490	81	370 to 740
San Joaquin River						
South Fork near Florence Lake	187	511	58	170	91	--
Big Creek below Huntington Lake	85	264	19	75	88	--
San Joaquin River at Mammoth Pool	971	2,218	254	900	93	--
Total inflow to Millerton Lake	1,193	3,355	310	1,020	85	670 to 1,480
San Joaquin River near Vernalis						
TULARE LAKE BASIN						
Kings River						
North Fork near Cliff Camp	232	478	50	190	82	--
Total inflow to Pine Flat Reservoir	1,163	3,163	280	950	82	600 to 1,350
Kaweah River						
Total inflow to Terminus Reservoir	271	814	69	220	81	140 to 320
Tule River						
Total inflow to Success Reservoir	59	222	2	35	59	18 to 65
Kern River						
Kern River near Kernville	349	1,200	75	235	67	--
Total inflow to Isabella Reservoir	419	1,649	84	260	62	140 to 430

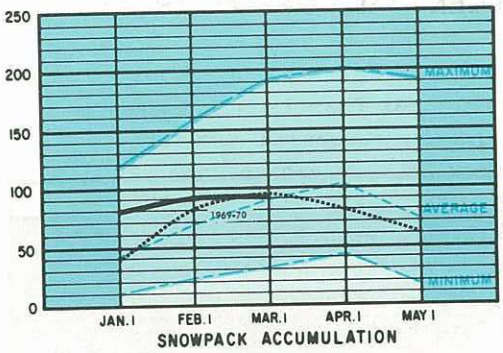
,1971

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
2,863	4,698	1,484	1,300	350	--	--	--	--	--	--	3,410	119
1,222	2,353	632	484	104	--	--	--	--	--	--	1,270	104
780	1,767	171	386	85	--	--	--	--	--	--	930	119
5,481	9,700	2,479	2,935	560	735	810	550	320	220	400	6,530	119
7,950	15,121	3,294	4,728	766	1,077	--	--	--	--	--	9,670	122
722	1,269	396	--	--	--	--	--	--	--	--	--	--
2,265	4,400	819	--	--	--	--	--	--	--	--	--	--
203	637	41	--	--	--	--	--	--	--	--	--	--
257	562	67	--	--	--	--	--	--	--	--	--	--
4,286	9,492	1,295	1,453	379	573	840	810	400	150	185	4,790	112
526	1,056	162	--	--	--	--	--	--	--	--	--	--
166	292	60	--	--	--	--	--	--	--	--	--	--
343	565	114	--	--	--	--	--	--	--	--	--	--
2,266	4,544	603	815	210	285	400	500	270	70	40	2,590	114
550	1,234	110	--	--	--	--	--	--	--	--	--	--
1,009	2,575	283	--	--	--	--	--	--	--	--	--	--
298	537	83	--	--	--	--	--	--	--	--	--	--
2,570	5,787	543	760	200	345	530	580	300	70	25	2,810	109
												115
363	876	40	135	32	72	80	45	30	5	1	400	110
583	1,009	197	--	--	--	--	--	--	--	--	--	--
705	1,692	190	137	48	70	140	220	140	20	5	780	111
456	929	128	--	--	--	--	--	--	--	--	--	--
1,085	2,834	261	204	73	108	190	260	160	50	15	1,060	98
428	740	158	--	--	--	--	--	--	--	--	--	--
738	1,661	265	--	--	--	--	--	--	--	--	--	--
1,789	3,756	546	330	97	163	300	400	300	70	20	1,680	94
439	1,020	145	--	--	--	--	--	--	--	--	--	--
920	2,203	252	125	40	80	140	200	130	20	5	740	80
226	653	71	--	--	--	--	--	--	--	--	--	--
100	298	22	--	--	--	--	--	--	--	--	--	--
1,256	2,964	361	--	--	--	--	--	--	--	--	--	--
1,659	4,368	444	195	71	129	240	360	300	120	55	1,470	89
												90
266	542	58	--	--	--	--	--	--	--	--	--	--
1,568	4,243	392	155	55	90	220	360	300	70	50	1,300	83
404	1,265	102	45	18	30	60	85	60	15	7	320	79
133	499	19	25	10	20	15	14	5	1	--	90	68
514	1,800	147	--	--	--	--	--	--	--	--	--	--
629	2,207	175	90	25	45	70	80	75	35	30	450	72

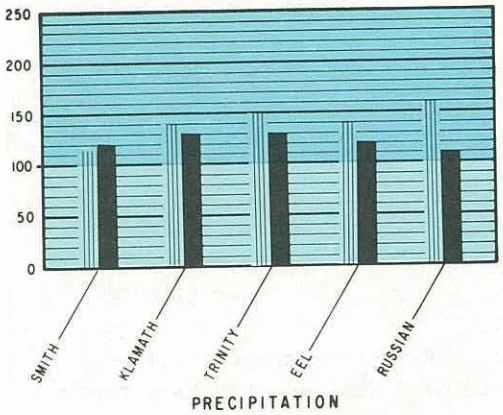
Monthly values are based on historical years of similar magnitude.

NORTH COASTAL AREA



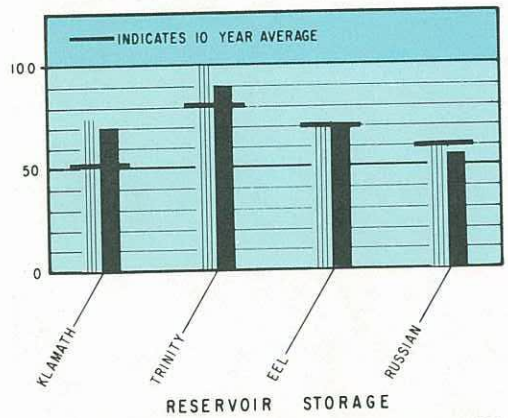
SNOWPACK ACCUMULATION

WATER CONTENT IN PERCENT OF APRIL 1 AVERAGE



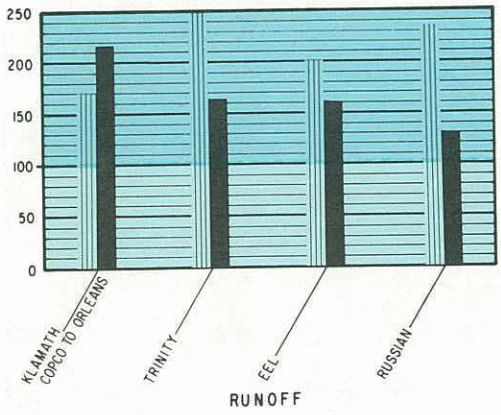
PRECIPITATION

OCTOBER 1 TO DATE IN PERCENT OF AVERAGE



RESERVOIR STORAGE

CONTENTS OF MAJOR RESERVOIRS IN PERCENT OF CAPACITY



RUNOFF

OCTOBER 1 TO DATE IN PERCENT OF AVERAGE

MARCH 1, 1970 ═══ MARCH 1, 1971 ■

SNOWPACK - MEASUREMENTS OF SNOWPACK WERE OBTAINED AT 11 SNOW COURSES ON OR ABOUT MARCH 1. THESE MEASUREMENTS INDICATE THAT SNOWPACK WATER CONTENT IS 105 PERCENT OF AVERAGE AS COMPARED TO 110 PERCENT ONE YEAR AGO. SNOW DENSITIES RANGE FROM 40-45 PERCENT IN THIS AREA.

THE OREGON COOPERATIVE SNOW SURVEYS REPORTS THAT SNOWPACK WATER CONTENT IN THE UPPER KLAMATH RIVER BASIN ON MARCH 1 WAS 97 PERCENT OF NORMAL AS COMPARED TO 65 PERCENT ONE YEAR AGO.

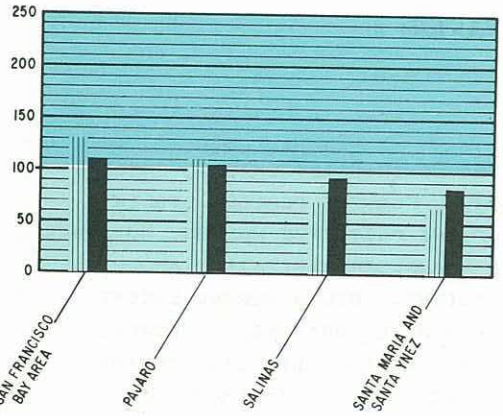
PRECIPITATION - PRECIPITATION IN THE NORTH COASTAL AREA WAS 120 PERCENT OF NORMAL FOR THE PERIOD OCTOBER 1 THROUGH FEBRUARY 28. IT VARIED FROM 139 PERCENT OF NORMAL AT BURNT RANCH 1S, IN THE TRINITY RIVER DRAINAGE, TO 93 PERCENT OF NORMAL AT TULELAKE, IN THE KLAMATH RIVER DRAINAGE. CATCH VALUES IN THE SUBDRAINAGES, WITH THE EXCEPTION OF THE SMITH RIVER, ARE LESS THAN THEY WERE ONE YEAR AGO. CRESCENT CITY 11E, THE WETTEST SPOT IN THE STATE, REPORTED A SEASONAL TOTAL OF 95.54 INCHES OR 135 PERCENT OF NORMAL. FOR THE MONTH OF FEBRUARY, PRECIPITATION VARIED FROM 74 PERCENT OF NORMAL AT HONOR CAMP NO. 42, IN THE MAD RIVER DRAINAGE, TO ONLY 2 PERCENT AT HEALDSBURG, IN THE RUSSIAN RIVER DRAINAGE. THE ENTIRE AREA AVERAGED 30 PERCENT OF NORMAL.

RESERVOIR STORAGE - FOUR MAJOR RESERVOIRS IN THIS AREA ARE STORING 2,386,800 ACRE-FEET ON MARCH 1. THIS AMOUNTS TO 110 PERCENT OF AVERAGE FOR THIS DATE AND 88 PERCENT OF CAPACITY, AND IS 250,000 ACRE-FEET LESS THAN LAST YEAR. THE THREE INTERSTATE RESERVOIRS OF THE KLAMATH RIVER SYSTEM, WHICH CONTRIBUTE WATER SUPPLIES TO THIS AREA, ARE STORING 821,600 ACRE-FEET OF WATER. EVEN THOUGH THIS IS 53,000 ACRE-FEET LESS THAN THEY CONTAINED ONE YEAR AGO, THE CURRENT STORAGE IS 140 PERCENT OF NORMAL FOR MARCH 1.

RUNOFF - FEBRUARY RUNOFF IN NORTH COASTAL STREAMS WAS ONLY 60 PERCENT OF NORMAL, RANGING FROM A MEAGER 20 PERCENT FOR THE RUSSIAN RIVER TO 115 PERCENT OF NORMAL FOR THE KLAMATH RIVER. OCTOBER THROUGH FEBRUARY RUNOFF HAS BEEN WELL ABOVE NORMAL THROUGHOUT THE AREA, AVERAGING 175 PERCENT OF NORMAL AND PRODUCING ALMOST 12.9 MILLION ACRE-FEET DURING THIS PERIOD.

FORECASTS - CONDITIONS AT THIS TIME INDICATE THAT RUNOFF OF THE NORTH COASTAL AREA DURING THE 1970-71 WATER YEAR WILL BE ABOUT 145 PERCENT OF AVERAGE. THE APRIL-JULY RUNOFF OF THE TRINITY RIVER AT LEWISTON IS FORECASTED TO BE ABOUT 700,000 ACRE-FEET, WHICH IS 113 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 610,000 ACRE-FEET OR 98 PERCENT OF THE 1953-67 AVERAGE.

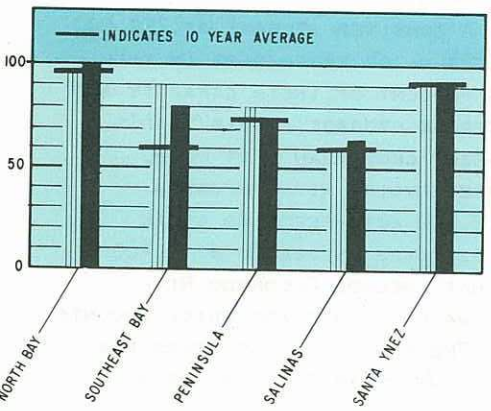
SAN FRANCISCO BAY AND CENTRAL COASTAL AREAS



PRECIPITATION

OCTOBER 1 TO DATE IN PERCENT OF AVERAGE

PRECIPITATION - IN THE SAN FRANCISCO BAY AND CENTRAL COASTAL AREAS, PRECIPITATION WAS NORMAL FOR THE PERIOD OCTOBER 1 THROUGH FEBRUARY 28. IT VARIED FROM 119 PERCENT OF NORMAL AT LIVERMORE WITH 12.44 INCHES, TO 77 PERCENT OF NORMAL AT SANTA MARIA A.P. WITH 7.07 INCHES. THE SAN FRANCISCO BAY AREA AND PAJARO SUBDRAINAGE, ALTHOUGH ABOVE NORMAL FOR THE SEASON, HAVE VALUES LESS THAN THEY WERE ONE YEAR AGO. BOTH THE SALINAS AND SANTA MARIA-SANTA YNEZ DRAINAGES ARE BELOW NORMAL, BUT WITH CATCHES GREATER THAN LAST YEAR'S VALUES. FOR THE MONTH OF FEBRUARY, PRECIPITATION AVERAGED 15 PERCENT OF NORMAL. IT VARIED FROM 19 PERCENT OF NORMAL WITH 0.57 INCH AT OAKLAND, TO NO MEASURABLE AMOUNT AT PASO ROBLES. THIS UNUSUAL DRY FEBRUARY AT PASO ROBLES WAS A REPEAT OF A 1912 RECORD EVENT IN THEIR 84 YEARS OF HISTORY.

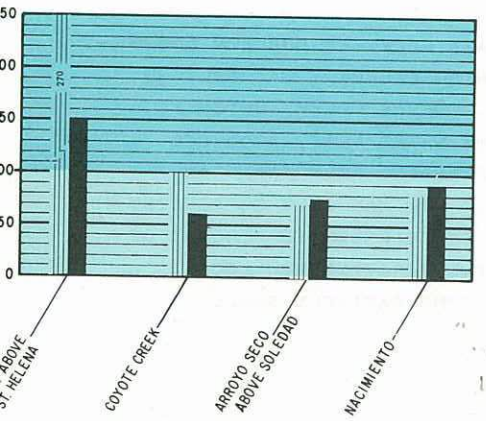


RESERVOIR STORAGE

CONTENTS OF MAJOR RESERVOIRS IN PERCENT OF CAPACITY

RESERVOIR STORAGE - THE 17 MAJOR RESERVOIRS IN THE SAN FRANCISCO BAY AREA HAD A TOTAL STORAGE OF 505,700 ACRE-FEET OF WATER ON MARCH 1. THIS IS 120 PERCENT OF THEIR MARCH 1 AVERAGE, 80 PERCENT OF THEIR TOTAL CAPACITY, AND 43,000 ACRE-FEET LESS THAN HELD LAST YEAR AT THIS SAME TIME. SEVEN OF THESE RESERVOIRS DRAW FROM SIERRA WATERSHEDS.

THERE WAS 701,800 ACRE-FEET OF WATER STORED IN THE 6 MAJOR RESERVOIRS OF THE CENTRAL COASTAL AREA AS OF MARCH 1. THIS STORAGE IS 36,100 ACRE-FEET MORE THAN ON THE SAME DATE LAST YEAR AND REPRESENTS 110 PERCENT OF NORMAL FOR THIS DATE.



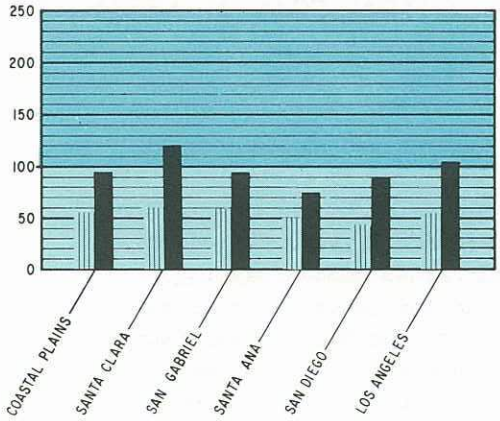
RUNOFF

OCTOBER 1 TO DATE IN PERCENT OF AVERAGE

RUNOFF - FEBRUARY RUNOFF IN SAN FRANCISCO BAY AND CENTRAL COASTAL STREAMS WAS ONLY 10 PERCENT OF NORMAL, REFLECTING THE LACK OF SIGNIFICANT PRECIPITATION OVER THESE AREAS. FOR THE WATER YEAR TO DATE, THE BAY AREA HAS RECEIVED 115 PERCENT OF NORMAL RUNOFF WHILE ONLY 85 PERCENT WAS PRODUCED IN STREAMS OF THE CENTRAL COASTAL AREA DURING THE PERIOD.

MARCH 1, 1970 ═══ MARCH 1, 1971 ■

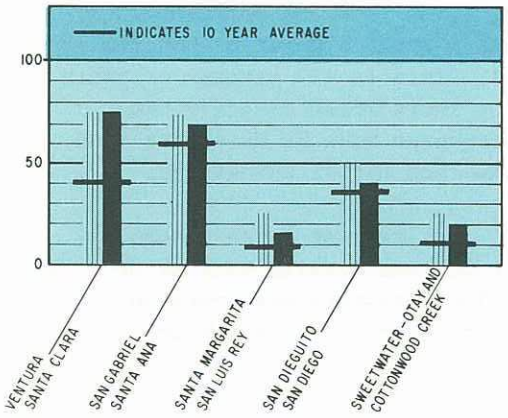
SOUTH COASTAL AREA



PRECIPITATION

OCTOBER 1 TO DATE IN PERCENT OF AVERAGE

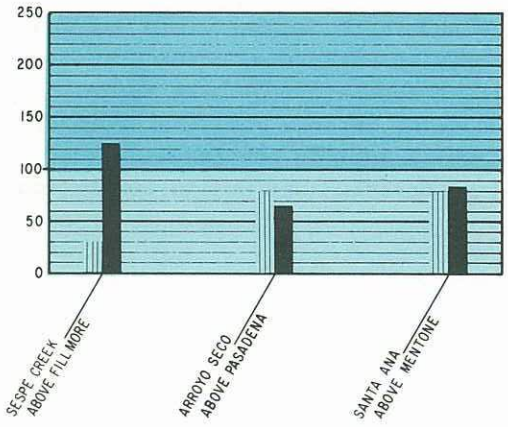
PRECIPITATION - IN THE SOUTH COASTAL AREA, PRECIPITATION AVERAGED 95 PERCENT OF NORMAL FOR THE PERIOD OCTOBER 1 THROUGH FEBRUARY 28. ONLY TWO OF THE PAST FIVE MONTHS, NOVEMBER AND DECEMBER, HAVE YIELDED ABOVE NORMAL PRECIPITATION AMOUNTS. SUBDRAINAGE SEASONAL VALUES ARE SLIGHTLY BELOW NORMAL EXCEPT FOR THE SANTA CLARA AND LOS ANGELES RIVER DRAINAGES. HOWEVER, THEY ALL HAVE AMOUNTS TWICE AS LARGE AS FOR THIS SAME PERIOD ONE YEAR AGO. SEASONAL TOTALS VARIED FROM 25.75 INCHES AT SQUIRREL INN NO. 2, IN THE SANTA ANA DRAINAGE, TO 5.91 INCHES AT SAN DIEGO NWS AIRPORT. FEBRUARY PRECIPITATION AVERAGED 25 PERCENT OF NORMAL OVER THE ENTIRE AREA. EXTREMES VARIED FROM 69 PERCENT OF NORMAL AT WARNER SPRINGS WITH 1.90 INCH TO 7 PERCENT OF NORMAL AT VENTURA WITH ONLY 0.20 INCH.



RESERVOIR STORAGE

CONTENTS OF MAJOR RESERVOIRS IN PERCENT OF CAPACITY

RESERVOIR STORAGE - A COMBINED STORAGE OF 733,000 ACRE-FEET WAS RECORDED FROM THE 26 MAJOR RESERVOIRS IN THIS AREA. THIS AMOUNTS TO ABOUT 50 PERCENT OF THEIR CAPACITY AND 140 PERCENT OF THEIR MARCH 1 AVERAGE STORAGE. THIS YEAR'S MARCH 1 STORAGE IS 73,000 ACRE-FEET LESS THAN LAST YEAR. DURING FEBRUARY, STORAGE IN 11 RESERVOIRS WITH IMPORTED COLORADO RIVER WATER INCREASED 2,800 ACRE-FEET AND LOCAL WATER STORED IN THE OTHER 15 RESERVOIRS INCREASED BY 6,300 ACRE-FEET. THE 11 RESERVOIRS THAT INCLUDE COLORADO RIVER WATER HAVE 321,000 ACRE-FEET OF WATER IN STORAGE WHICH AMOUNTS TO 106 PERCENT OF THE AVERAGE. THE OTHER 15 RESERVOIRS HAVE 411,900 ACRE-FEET OF WATER STORED WHICH IS 185 PERCENT OF AVERAGE.



RUNOFF

OCTOBER 1 TO DATE IN PERCENT OF AVERAGE

RUNOFF - BASED ON DATA RECEIVED FOR KEY SOUTH COASTAL AREA STREAMS, RUNOFF DURING FEBRUARY WAS ONLY 30 PERCENT OF NORMAL FOR THE MONTH. SESPE CREEK, WHICH IS RUNNING WELL ABOVE NORMAL FOR THE WATER YEAR, PRODUCED ONLY 25 PERCENT OF NORMAL RUNOFF DURING FEBRUARY. IN CONTRAST, THE SANTA ANA RIVER HAS NOW HAD ONLY 85 PERCENT OF NORMAL WATER YEAR RUNOFF BUT EXPERIENCED 40 PERCENT OF NORMAL RUNOFF DURING FEBRUARY, ILLUSTRATING HOW LOCAL STORM PATTERNS CAN AFFECT THESE COMPARATIVELY SMALL WATERSHEDS.

MARCH 1, 1970 ═══ MARCH 1, 1971 ▬

COLORADO DESERT AREA

SNOWPACK - MARCH 1 SNOWPACK IN THE UPPER COLORADO RIVER BASIN, ACCORDING TO THE U. S. SOIL CONSERVATION SERVICE, IS ABOUT 120 PERCENT OF AVERAGE. SNOWPACK WATER CONTENT RANGES FROM A HIGH OF 149 PERCENT OF AVERAGE ON THE GREEN RIVER IN WYOMING TO A LOW OF 82 PERCENT OF AVERAGE ON THE SAN JUAN IN COLORADO.

PRECIPITATION - PRECIPITATION IN THE COLORADO DESERT AREA WAS ABOUT 20 PERCENT OF NORMAL FOR THE PERIOD OCTOBER 1 THROUGH FEBRUARY 28. EXTREMES VARIED FROM 49 PERCENT OF NORMAL AT THERMAL TO ONLY 2 PERCENT AT BLYTHE AIRPORT. INCIDENTALLY, THE OCTOBER-FEBRUARY CATCH AT BLYTHE AIRPORT IS ONLY 0.03 INCH, ALL OF IT OCCURRING ON DECEMBER 21, 1970. FEBRUARY PRECIPITATION OVER THE AREA AVERAGED 10 PERCENT OF NORMAL. EXTREMES VARIED FROM 31 PERCENT OF NORMAL AT THERMAL TO NO MEASURABLE PRECIPITATION AT NEEDLES AND BLYTHE.

RESERVOIR STORAGE - THERE WAS 16,523,000 ACRE-FEET OF WATER STORED IN LAKE MEAD ON MARCH 1. THIS IS 63 PERCENT OF CAPACITY AND NORMAL FOR THIS DATE. STORAGE IS 330,000 ACRE-FEET LESS THAN LAST YEAR.

LAKE POWELL, UPSTREAM FROM LAKE MEAD, HAD 12,414,000 ACRE-FEET OF STORAGE ON MARCH 1, AN INCREASE OF 2,975,000 ACRE-FEET FROM ONE YEAR AGO. THERE WAS 15,801,000 ACRE-FEET OF WATER IN THE SIX RESERVOIRS OF THE UPPER BASIN (31,739,000 ACRE-FEET ACTIVE CAPACITY), AND 18,770,000 ACRE-FEET IN THREE RESERVOIRS IN THE LOWER BASIN (28,588,000 ACRE-FEET ACTIVE CAPACITY).

DATUM FROM FIG TREE JOHNS GAGE MEASURED THE SALTON SEA SURFACE ELEVATION ON MARCH 1 AT 231.45 FEET BELOW MEAN SEA LEVEL. THIS REPRESENTS A RISE OF 0.15 FOOT FOR THE MONTH AND A DROP OF 0.20 FOOT FROM THE LEVEL OF LAST YEAR. OF RECENT TIME, THE HISTORIC HIGH LEVEL OF THE SALTON SEA WAS 230.60 FEET BELOW SEA LEVEL MEASURED IN THE SPRING OF 1964, OR 0.85 FOOT HIGHER THAN THE PRESENT LEVEL.

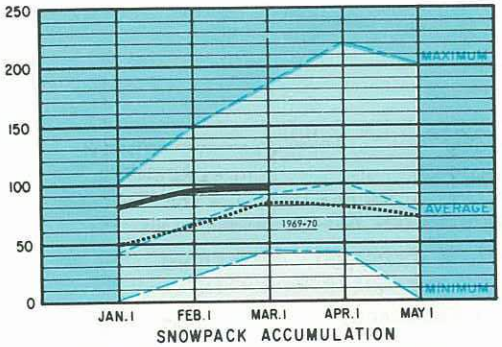
RUNOFF - FEBRUARY RUNOFF OF THE COLORADO RIVER, INFLOW TO LAKE POWELL, CORRECTED FOR REGULATION BY UPPER COLORADO RIVER STORAGE PROJECT RESERVOIRS, WAS 458,000 ACRE-FEET OR 125 PERCENT OF NORMAL. OCTOBER THROUGH FEBRUARY UNIMPAIRED RUNOFF WAS 2,413,000 ACRE-FEET OR 120 PERCENT OF NORMAL FOR THE PERIOD.

FORECAST MARCH 1, 1971 - 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 1971 WILL BE:

MAXIMUM	10,800,000	ACRE-FEET
MEAN	7,600,000	ACRE-FEET
MINIMUM	4,400,000	ACRE-FEET

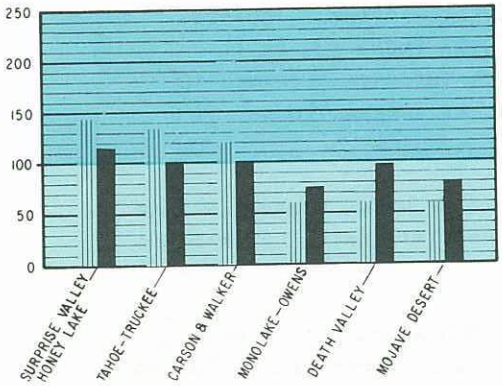
THE HISTORICAL APRIL-JULY INFLOW FROM THE PARIA AND LITTLE COLORADO RIVERS BETWEEN LAKE POWELL AND GRAND CANYON HAS AVERAGED ONLY 51,700 ACRE-FEET. THEREFORE, THE FORECAST FOR APRIL-JULY INFLOW TO LAKE POWELL CAN BE CONSIDERED AS ESSENTIALLY EQUIVALENT TO THE FORECAST FOR FLOW OF THE COLORADO RIVER NEAR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

LAHONTAN AREA



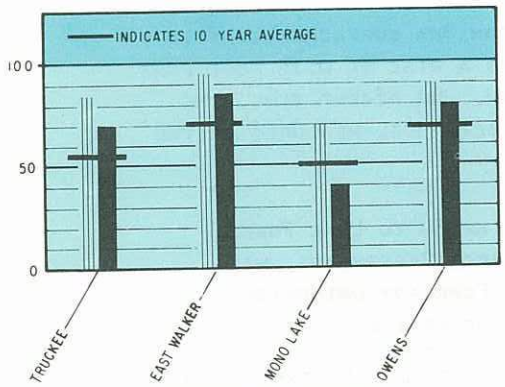
SNOWPACK ACCUMULATION

WATER CONTENT IN PERCENT OF APRIL 1 AVERAGE



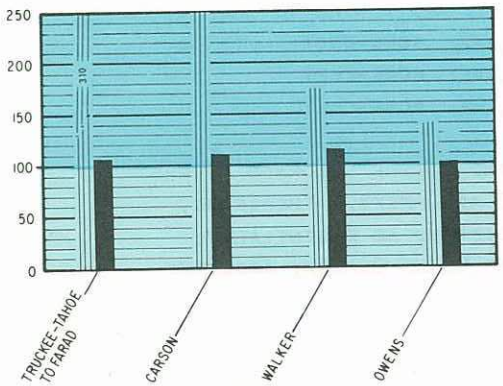
PRECIPITATION

OCTOBER 1 TO DATE IN PERCENT OF AVERAGE



RESERVOIR STORAGE

CONTENTS OF MAJOR RESERVOIRS IN PERCENT OF CAPACITY



RUNOFF

OCTOBER 1 TO DATE IN PERCENT OF AVERAGE

MARCH 1, 1970 ▤ MARCH 1, 1971 ■

SNOWPACK - MEASUREMENTS OF SNOWPACK WERE OBTAINED AT 51 SNOW COURSES AND 22 AERIAL SNOW DEPTH MARKERS ON OR ABOUT MARCH 1. ALSO, READINGS OF WATER CONTENT WERE OBTAINED FROM 6 SNOW SENSORS. THESE MEASUREMENTS INDICATE THAT SNOWPACK WATER CONTENT WAS 100 PERCENT OF AVERAGE, AS COMPARED TO 95 PERCENT ONE YEAR AGO. IT RANGED FROM A HIGH OF 115 PERCENT OF AVERAGE IN THE TRUCKEE RIVER BASIN TO A LOW OF 70 PERCENT OF AVERAGE IN THE OWENS RIVER BASIN. SNOWFALL FOR THE MONTH OF FEBRUARY WAS BELOW NORMAL. NORMAL FEBRUARY SNOWFALL ACCOUNTS FOR ABOUT 15-20 PERCENT OF TOTAL ACCUMULATION.

PRECIPITATION - IN THE LAHONTAN AREA, PRECIPITATION WAS 95 PERCENT OF NORMAL FOR THE PERIOD OCTOBER 1 THROUGH FEBRUARY 28. SUBDRAINAGES NORTH OF THE WALKER RIVER ARE NEAR NORMAL WITH THE SURPRISE VALLEY, FARTHEST TO THE NORTH, AT 130 PERCENT. SEASONAL VALUES ARE 20 TO 30 PERCENT LESS THAN AMOUNTS FOR THIS SAME PERIOD ONE YEAR AGO. MONO-OWENS AND THE DESERT DRAINAGES HAVE SUBNORMAL VALUES, ALTHOUGH AMOUNTS ARE 15 TO 39 PERCENT GREATER THAN LAST YEAR'S VALUES. SEASONAL PRECIPITATION RANGES FROM 21.49 INCHES AT TRUCKEE RANGER STATION TO 1.98 INCH AT BISHOP. FEBRUARY PRECIPITATION WAS LIGHT, ABOUT 20 PERCENT OF NORMAL OVER THE AREA. IT VARIED FROM 63 PERCENT OF NORMAL AT FORT BIDWELL, IN THE SURPRISE VALLEY DRAINAGE, TO NO MEASURABLE AMOUNT AT DAGGETT AIRPORT.

RESERVOIR STORAGE - STORAGE IN SEVEN MAJOR CALIFORNIA RESERVOIRS IN THE MONO LAKE-OWENS VALLEY AREA WAS 243,200 ACRE-FEET ON MARCH 1. THIS IS ABOUT 70 PERCENT OF THEIR COMBINED CAPACITY AND 105 PERCENT OF NORMAL FOR THIS DATE. STORAGE IN LAKE TAHOE, BOCA, AND BRIDGEPORT RESERVOIRS, WHICH STORE WATER FOR USE IN BOTH CALIFORNIA AND NEVADA, WAS 595,400 ACRE-FEET OR 70 PERCENT OF CAPACITY AND 130 PERCENT OF AVERAGE FOR THIS DATE. LAKE TAHOE STORAGE IS 120,200 ACRE-FEET LESS THAN ONE YEAR AGO; HOWEVER, IT IS STORING 130 PERCENT OF THE AVERAGE MARCH 1 STORAGE. THE WATER SURFACE ELEVATION IS NOW 6227.32 FEET.

RUNOFF - FEBRUARY RUNOFF IN THE LAHONTAN AREA WAS 95 PERCENT OF NORMAL. HOWEVER, ALL STREAMS WERE RUNNING ABOVE NORMAL EXCEPT THE TRUCKEE RIVER, AT 75 PERCENT, AND THE OWENS RIVER, AT 80 PERCENT OF NORMAL. RUNOFF FOR THE WATER YEAR TO DATE HAS BEEN 110 PERCENT OF NORMAL WITH ONLY THE WEST FORK OF THE CARSON RIVER PRODUCING SLIGHTLY BELOW NORMAL AMOUNTS FOR THE PERIOD.

FORECASTS - CONDITIONS OF MARCH 1 INDICATE THAT RUNOFF FROM THE LAHONTAN AREA DURING THE 1970-71 WATER YEAR WILL BE ABOUT 100 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 57,000 ACRE-FEET.

LAHONTAN AREA

FORECASTS AS OF MARCH 1, 1971			
STREAM AND STATION	APRIL-JULY RUNOFF		
	AVERAGE IN ACRE-FEET	IN ACRE-FEET	IN PERCENT OF AVERAGE
Bidwell Creek near Ft. Bidwell	11,180	11,000	98
Mill Creek above diversions	4,870	4,500	92
Deep Creek above diversions	3,540	3,200	90
Eagle Creek at Eagleville	4,770	4,300	90
Truckee River, Lake Tahoe to Farad accretion	264,000	260,000	98
Lake Tahoe Rise (assuming gates closed)	1.42 FT.	1.4 FT.	99
East Carson River near Gardnerville	181,000	175,000	97
West Carson River at Woodfords	51,000	50,000	98
East Walker River near Bridgeport	60,000	45,000	75
West Walker River near Coleville	143,000	140,000	98

SNOW LINES

WESTERN SNOW CONFERENCE - CALIFORNIA COOPERATORS IN THE SNOW SURVEYS PROGRAM ARE ENCOURAGED TO ATTEND AND PARTICIPATE IN THE 39TH MEETING OF THE WESTERN SNOW CONFERENCE TO BE HELD APRIL 20 TO 22, 1971, IN BILLINGS, MONTANA. THIS YEAR'S MEETING WILL INCLUDE SESSIONS ON FORECASTING, SNOW HYDROLOGY, INSTRUMENTATION, AND RELATED SUBJECTS. SPECIAL ACTIVITIES FOR THE LADIES HAVE BEEN PLANNED. FOR NONMEMBERS, DETAILED INFORMATION IS AVAILABLE FROM CONFERENCE SECRETARY, MR. ROBERT T. DAVIS, 360 U. S. COURTHOUSE, SPOKANE, WASHINGTON 99201.

SNOW SURVEY TRAINING - MANY CALIFORNIA SNOW SURVEYORS HAVE GAINED EXCELLENT TRAINING IN THE PAST BY ATTENDING THE WEST-WIDE SNOW SURVEY TRAINING CONFERENCES, HELD BIANNUALLY BY THE U. S. SOIL CONSERVATION SERVICE. UNFORTUNATELY, IT IS NOT POSSIBLE FOR COOPERATING AGENCIES TO SEND A LARGE CONTINGENT OF SNOW SURVEYORS TO THESE WEEK LONG, OUT-OF-STATE TRAINING SESSIONS DUE TO COST AND TIME CONSIDERATIONS. RECOGNIZING THAT SNOW SURVEY TRAINING OF NEW PERSONNEL IS A CONTINUING NEED IN ORDER TO MAINTAIN STANDARD PRACTICES, THE SNOW SURVEYS OFFICE HOLDS PERIODIC ONE-DAY TRAINING SESSIONS. COOPERATING AGENCIES WHO DESIRE TO HAVE US CONDUCT SUCH A SESSION IN THEIR AREAS SHOULD LET US KNOW. SNOW SURVEYORS FROM ALL AGENCIES IN THE IMMEDIATE AREA WILL THEN BE CONTACTED SO THAT THIS TRAINING "CRAM SESSION" WILL BENEFIT AS MANY PEOPLE AS POSSIBLE.

COVER

CLOSE TO 90 PERCENT OF THE SNOW COURSES IN CALIFORNIA ARE MEASURED BY AGENCIES PARTICIPATING IN THE CALIFORNIA COOPERATIVE SNOW SURVEYS PROGRAM. HERE, TWO SNOW SURVEYORS FROM THE CITY AND COUNTY OF SAN FRANCISCO, HETCH-HETCHY PROJECT, SAMPLE THE DODGE RIDGE SNOW COURSE IN THE TUOLUMNE RIVER WATERSHED.

CALIFORNIA COOPERATIVE SNOW SURVEYS

STATE OF CALIFORNIA

The Resources Agency

Department of Water Resources

BULLETIN No. 120-71

WATER CONDITIONS IN CALIFORNIA

Report No. 2: Basic Data Supplement

MARCH 1, 1971

NORMAN B. LIVERMORE, JR.
Secretary for Resources
The Resources Agency

RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI
Director
Department of Water Resources

FOREWORD

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 MARCH 1, 1971 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

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COVER

DEPARTMENT PERSONNEL ARE SHOWN CONDUCTING A TEST AT THE ALPHA SITE. THE ACCURACY OF SNOW SAMPLE TUBES ARE DEFINED BY SAMPLING WITHIN THE RECTANGULAR STEEL TEMPLATE AND THEN DIGGING OUT AND WEIGHING THE VOLUME OF SNOW WITHIN THE TEMPLATE AREA. THIS INFORMATION IS THEN USED WHEN TAKING CONTROL SAMPLES AT AUTOMATIC SNOW SENSORS TO MORE CLOSELY DEFINE THE SENSOR'S PERFORMANCE.

AGENCIES COOPERATING IN THE CALIFORNIA SNOW SURVEY PROGRAM

STATE AND FEDERAL AGENCIES

- CALIFORNIA DEPARTMENT OF WATER RESOURCES
- CALIFORNIA DEPARTMENT OF PARKS AND RECREATION
- U. S. DEPARTMENT OF AGRICULTURE - FOREST SERVICE (14 NATIONAL FORESTS); SOIL CONSERVATION SERVICE
  - PACIFIC SOUTHWEST FOREST AND RANGE EXPERIMENT STATION
- U. S. DEPARTMENT OF COMMERCE - NATIONAL WEATHER SERVICE
- U. S. DEPARTMENT OF INTERIOR - BUREAU OF RECLAMATION
  - GEOLOGICAL SURVEY, WATER RESOURCES DIVISION;
  - NATIONAL PARK SERVICE (3 NATIONAL PARKS)
- U. S. DEPARTMENT OF THE ARMY - CORPS OF ENGINEERS

PUBLIC UTILITIES

- PACIFIC GAS AND ELECTRIC COMPANY
- SIERRA PACIFIC POWER COMPANY
- SOUTHERN CALIFORNIA EDISON COMPANY

MUNICIPALITIES

- CITY OF LOS ANGELES - DEPARTMENT OF WATER AND POWER
- CITY OF PORTERVILLE
- CITY AND COUNTY OF SAN FRANCISCO - PUBLIC UTILITIES COMMISSION

PUBLIC AGENCIES

- BUENA VISTA WATER STORAGE DISTRICT
- CENTRAL CALIFORNIA IRRIGATION DISTRICT
- EAST BAY MUNICIPAL UTILITY DISTRICT
- FRIANT WATER USERS ASSOCIATION
- KAWEAH DELTA WATER CONSERVATION DISTRICT
- KAWEAH RIVER ASSOCIATION
- KINGS RIVER WATER ASSOCIATION
- LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
- LOWER TULE RIVER IRRIGATION DISTRICT
- MERCED IRRIGATION DISTRICT
- MODESTO IRRIGATION DISTRICT
- NEVADA IRRIGATION DISTRICT
- OAKDALE IRRIGATION DISTRICT
- OMOCHUMNE-HARTNELL WATER DISTRICT
- PLACER COUNTY WATER AGENCY
- PORTERVILLE IRRIGATION DISTRICT
- SACRAMENTO MUNICIPAL UTILITY DISTRICT
- SAUCELITO IRRIGATION DISTRICT
- SOUTH SAN JOAQUIN IRRIGATION DISTRICT
- ST. JOHNS RIVER ASSOCIATION
- TULE RIVER ASSOCIATION
- TURLOCK IRRIGATION DISTRICT
- VANDALIA IRRIGATION DISTRICT

PRIVATE ORGANIZATIONS

- ATMOSPHERICS INCORPORATED
- ATMOSPHERIC WATER RESOURCES RESEARCH
- J. G. BOSWELL COMPANY
- KERN COUNTY LAND COMPANY
- LIBERTY FARMS COMPANY
- MT. REBA INCORPORATED
- UNION CARBIDE CORPORATION

OTHER COOPERATIVE PROGRAMS

- NEVADA COOPERATIVE SNOW SURVEYS
- OREGON COOPERATIVE SNOW SURVEYS

TABLE 1

PRECIPITATION DATA

AREA, DRAINAGE BASIN AND PRECIPITATION STATION	ELEV IN FEET	SOURCE OF DATA (1)	PRECIPITATION (2) FEBRUARY 1971 AVERAGE	FEBRUARY 1971 TOTAL FOR MONTH	FEBRUARY 1971 PERCENT OF AVERAGE	OCT 1, 1970 - FEB 28, 1971 AVERAGE	OCT 1, 1970 - FEB 28, 1971 TOTAL FOR SEASON	OCT 1, 1970 - FEB 28, 1971 PERCENT OF AVERAGE	AVERAGE WATER YEAR
NORTH COASTAL AREA									
SMITH RIVER									
GASQUET RS	384	NWS	11.67	6.72	58	67.10	78.53	117	92.18
CRESCENT CITY 11E	360	DWR	13.08	8.46	65	70.53	95.54	135	101.75
BROOKINGS, OREGON	80	NWS	10.19	7.10	70	54.40	63.05	116	79.50
CRESCENT CITY 1N	40	NWS	9.99	5.88	59	49.00	53.77	110	72.77
KLAMATH RIVER									
KLAMATH FALLS 2SSW, OREGON	4098	USBR	1.33	0.94	71	8.73	10.82	124	13.77
TULELAKE	4035	NWS	0.96	0.40	42	5.61	5.19	93	10.37
CALLAHAN RS	3136	NWS	2.63	-	-	14.10	-	-	19.79
MONTAGUE	2500	DWR	1.25	0.49	39	7.95	10.57	133	12.44
YREKA	2625	NWS	2.10	0.52	25	12.50	16.64	133	17.97
HAPPY CAMP RS	1090	NWS	7.51	2.95	39	41.33	51.75	125	54.63
ORLEANS	403	NWS	6.81	3.62	53	37.56	51.67	138	51.17
ORICK ARCATA REDWOOD CO	75	DWR	9.04	-	-	45.72	-	-	65.57
TRINITY RIVER									
COFFEE CREEK RS	2500	NWS	6.77	0.03	0	37.81	40.73	108	53.06
BURNT RANCH 1S	2150	NWS	6.11	3.01	49	31.36	43.55	139	42.41
WEAVERVILLE RS	2050	NWS	5.32	0.75	14	27.32	35.91	131	36.83
BIG BAR RS	1260	NWS	5.31	1.16	22	27.62	35.65	129	36.74
EEL RIVER									
MAD RIVER RS	2775	NWS	7.48	2.92	39	43.24	51.14	118	58.98
OLD HARRIS	2225	DWR	9.74	2.63	27	52.92	56.50	107	70.54
HONOR CAMP NO 42	1875	DWR	10.48	7.71	74	54.05	68.83	127	74.13
COVELO	1385	NWS	6.03	0.88	15	30.01	37.46	125	39.90
STANDISH-HICKEY STATE PARK	850	NWS	10.42	2.10	20	55.64	66.57	120	73.87
HONEYDEW 2WSW	375	NWS	15.74	2.71	17	81.69	86.68	106	109.63
UPPER MATTOLE	255	NWS	11.86	2.89	24	58.70	66.63	114	79.02
BLUE LAKE	105	DWR	6.57	4.72	72	33.83	41.93	124	46.63
SCOTIA	139	NWS	7.45	3.34	45	35.38	40.52	115	48.13
FORT BRAGG	80	NWS	5.70	1.54	27	27.85	32.99	118	38.35
EUREKA NWS CITY	43	NWS	5.13	3.28	64	26.67	34.49	129	38.22
RUSSIAN RIVER									
CAZADERO	1040	NWS	12.79	0.46	4	55.32	56.13	101	73.88
POTTER VALLEY PH	1014	PG&E	6.76	0.71	11	33.49	39.02	117	44.27
UKIAH	623	NWS	5.94	0.62	10	28.04	29.25	104	36.73
BOONVILLE MAINT STATION	342	NWS	6.22	0.25	4	28.69	29.32	102	37.70
SANTA ROSA	167	NWS	4.80	0.19	4	21.78	25.31	116	29.47
FORT ROSS	116	NWS	6.19	0.68	11	28.30	31.84	113	38.69
HEALDSBURG	102	NWS	7.04	0.16	2	31.33	31.88	102	40.81
SAN FRANCISCO BAY AREA									
MOUNT HAMILTON	4206	NWS	4.38	0.88	20	18.12	12.48	69	25.08
GERBER RANCH	2140	NWS	3.39	0.37	11	13.46	12.40	92	18.01
ANGWIN PAC UNION COLLEGE	1815	NWS	6.62	0.29	4	29.41	33.43	114	38.61
LAGUNITAS LAKE	785	MMWD	8.63	0.55	6	36.98	37.79	102	49.38
LIVERMORE CO F D	490	NWS	2.51	0.33	13	10.46	12.44	119	14.23
SAN JOSE	70	CSJ	2.40	0.54	22	9.63	11.91	124	13.36
NAPA STATE HOSPITAL	60	NWS	3.96	0.28	7	17.85	19.19	108	23.95
SAN FRANCISCO FOB	52	NWS	3.36	0.26	8	15.18	14.97	99	20.40
REDWOOD CITY	31	NWS	3.39	0.36	11	14.61	16.43	112	19.30
OAKLAND NWS AP	3	NWS	3.07	0.57	19	13.31	15.72	118	18.01
CENTRAL COASTAL AREA									
SALINAS RIVER									
PRIEST VALLEY	2300	NWS	4.12	0.32	8	14.43	12.86	89	19.95
PASO ROBLES	700	NWS	2.44	0.00	0	9.94	8.63	87	13.63
SAN ARDO	435	NWS	2.30	-	-	9.32	-	-	12.15
KING CITY	320	NWS	2.13	0.08	4	7.56	7.79	103	10.40
SAN LUIS OBISPO POLY	300	NWS	4.40	0.42	10	16.21	16.95	105	21.95
BIG SUR STATE PARK	235	NWS	7.75	1.08	14	30.37	27.89	92	40.88
SALINAS FAA AP	75	NWS	2.46	0.55	22	9.78	9.86	101	13.72
PT PIEDRAS BLANCAS	59	NWS	3.68	-	-	14.55	-	-	19.58
PAJARO RIVER									
HOLLISTER 1SW	279	NWS	2.36	-	-	9.51	-	-	13.12
SANTA CRUZ	125	NWS	5.49	1.02	19	22.78	22.44	99	30.50
WATSONVILLE WATER WORKS	95	NWS	3.83	0.49	13	15.58	15.16	97	21.11
SANTA MARIA AND SANTA YNEZ R									
CACHUMA DAM	781	NWS	3.91	0.91	23	13.52	13.09	97	18.62
LOS ALAMOS	565	NWS	2.95	-	-	10.45	-	-	14.89
SANTA MARIA NWS AP	238	NWS	2.53	0.10	4	9.20	7.07	77	12.88
SANTA BARBARA	100	NWS	3.77	0.88	23	12.86	11.35	88	17.51
SOUTH COASTAL AREA									
COASTAL PLAIN									
LOS ANGELES NWS CITY	312	NWS	3.19	0.67	21	10.82	11.07	102	14.72
SANTA ANA FS	115	NWS	2.92	0.43	15	10.04	7.14	71	13.78

TABLE 1 - PRECIPITATION DATA (CONTINUED)

AREA, DRAINAGE BASIN AND PRECIPITATION STATION	ELEV IN FEET	SOURCE OF DATA (1)	PRECIPITATION (2) FEBRUARY 1971 AVERAGE	TOTAL FOR MONTH	PERCENT OF AVERAGE	OCT 1, 1970 - FEB 28, 1971 AVERAGE	TOTAL FOR SEASON	PERCENT OF AVERAGE	AVERAGE WATER YEAR
COASTAL PLAIN (CONTINUED)									
LOS ANGELES NWS AP	97	NWS	2.73	0.47	17	9.16	8.95	98	12.25
LAGUNA BEACH	56	NWS	2.55	0.48	19	8.69	6.92	80	12.13
VENTURA	45	NWS	2.90	0.20	7	10.15	12.23	120	13.82
LONG BEACH AP	34	NWS	2.98	0.66	22	9.68	8.60	89	12.78
SAN DIEGO NWS AP	19	NWS	1.94	1.27	65	7.22	5.91	82	9.89
SANTA CLARA RIVER									
MINT CANYON - THE OAKS	2350	LACFCD	2.62	0.31	12	9.22	9.38	102	13.02
SAUGUS PP NO 1	2105	NWS	3.60	0.54	15	12.71	11.97	94	17.93
DRY CANYON RESERVOIR	1515	NWS	2.58	0.50	19	9.03	11.33	125	12.76
SANTA PAULA	263	NWS	3.58	0.77	22	12.72	16.67	131	17.31
LOS ANGELES RIVER									
HAINES CANYON UPPER	3450	LACFCD	6.04	1.40	23	20.51	22.54	110	28.30
BIG TUJUNGA DAM	2315	LACFCD	6.08	1.38	23	19.69	19.48	99	26.79
ARROYO SECO RS	1220	LACFCD	4.83	1.13	23	16.30	15.62	96	22.38
BURBANK VALLEY PP	655	NWS	3.23	0.80	25	10.73	14.06	131	14.56
SAN GABRIEL RIVER									
MT WILSON	5709	NWS	7.11	-	-	23.88	-	-	32.83
SAN DIMAS TANBARK FLAT	2745	LACFCD	5.13	-	-	16.58	-	-	23.25
HOEGEES	2650	LACFCD	8.37	-	-	27.67	-	-	37.91
HENNINGER FLATS	2550	LACFCD	5.44	1.56	29	18.59	19.00	102	26.36
SAN GABRIEL DAM CAMP	1500	LACFCD	5.70	1.04	18	19.82	17.06	86	26.79
SAN DIMAS DAM	1350	LACFCD	4.20	1.15	27	15.15	13.71	90	21.65
CLAREMONT POMONA COLLEGE	1201	NWS	3.51	-	-	12.44	-	-	17.43
SANTA ANA RIVER									
BIG BEAR LAKE	6745	NWS	6.60	0.79	12	23.54	12.43	53	34.97
SQUIRREL INN NO 2	5680	NWS	8.41	1.25	15	28.46	25.75	90	40.74
MT BALDY G S FC85G	4275	NWS	6.78	1.86	27	24.17	19.54	81	33.45
LYTLE CREEK RS	2760	NWS	7.06	1.82	26	25.17	19.16	76	35.03
ELSINORE	1285	NWS	2.52	0.31	12	8.27	8.94	108	11.40
SAN BERNARDINO CO HOSPITAL	1125	NWS	3.44	0.80	23	11.87	8.72	73	16.96
SAN DIEGO COUNTY									
COYAMACA	4650	NWS	6.85	2.55	37	22.84	20.22	89	35.48
JULIAN WYNOLA	3650	NWS	4.77	2.43	51	17.64	13.83	78	27.47
WARNER SPRINGS	3180	NWS	2.86	1.98	69	9.95	10.31	104	15.73
CAMPO	2630	NWS	3.00	1.22	41	10.13	6.40	63	15.48
BARRETT DAM	1623	CSD	3.28	1.75	53	11.26	9.12	81	16.70
EL CAPITAN DAM	600	NWS	2.88	1.70	59	10.10	9.30	92	15.05
CENTRAL VALLEY AREA									
SACRAMENTO VALLEY FLOOR									
FRENCH GULCH	1100	NWS	5.97	0.40	7	27.59	30.63	111	38.16
REDDING FS NO 2	577	NWS	5.93	0.41	7	27.76	35.38	127	38.77
ONO	980	NWS	5.20	0.00	0	25.31	28.16	111	35.54
VOLTA PH	2200	PG&E	4.54	0.40	9	21.93	28.50	130	32.94
HARRISON GULCH RS	2710	NWS	4.21	0.03	1	25.34	27.13	107	34.95
HUNTER DIST GRAVES RCH	770	NWS	3.76	-	-	15.44	-	-	23.51
MINERAL	4911	NWS	7.55	0.83	11	36.48	39.01	107	51.91
RED BLUFF NWS AP	341	NWS	3.28	0.13	4	15.48	18.68	121	21.68
CENTERVILLE PH	522	NWS	7.33	0.25	3	31.34	29.92	95	43.22
PASKENTA RS	755	NWS	3.50	0.00	0	15.89	17.76	112	22.49
ORLAND	254	NWS	3.16	0.01	0	13.95	14.04	101	19.15
CHICO EXP STATION	205	NWS	4.21	0.08	2	18.87	17.26	91	26.14
STONY GORGE RESERVOIR	791	NWS	3.28	0.02	1	14.25	14.84	104	19.23
WILLOWS	140	NWS	3.00	0.02	1	12.90	11.02	85	17.47
OROVILLE BRIDGE	165	NWS	4.60	0.19	4	19.94	17.84	89	27.76
EAST PARK RESERVOIR	1205	NWS	3.34	0.01	0	14.30	14.86	104	18.96
STONYFORD COOLEY RANCH	3015	NWS	8.41	0.26	3	38.84	44.20	114	51.74
COLUSA 1SSW	60	NWS	2.81	0.30	11	11.53	11.55	100	15.68
MARYSVILLE	60	NWS	3.59	0.14	4	14.89	13.86	93	20.38
LAKEPORT	1343	NWS	4.62	0.30	6	22.08	25.32	115	28.86
LEESVILLE KEEGAN RANCH	1330	NWS	4.39	-	-	17.06	-	-	22.45
NICOLAUS NO 2	47	NWS	3.01	0.16	5	12.79	13.08	102	17.63
DUNNIGAN-POWERS RANCH	104	DWR	3.05	-	-	12.32	-	-	16.29
COBB	2520	DWR	11.63	0.20	2	50.37	52.64	105	65.63
ROCKLIN	239	NWS	4.06	0.32	8	16.33	16.75	103	22.81
CITRUS HEIGHTS	138	DWR	4.06	0.27	7	16.49	16.41	100	23.04
CAPAY 4W	300	DWR	4.30	-	-	16.90	-	-	22.35
WOODLAND 1WNW	69	NWS	3.03	0.04	1	12.55	15.16	121	16.83
SACRAMENTO NWS CITY	25	NWS	3.20	0.33	10	12.95	13.55	105	17.72
DAVIS 2WSW	60	NWS	3.04	0.13	4	12.48	13.07	105	16.67
WINTERS	135	NWS	3.25	-	-	14.18	-	-	18.65

TABLE 1 - PRECIPITATION DATA (CONTINUED)

AREA, DRAINAGE BASIN AND PRECIPITATION STATION	ELEV IN FEET	SOURCE OF DATA (1)	PRECIPITATION (2) FEBRUARY 1971 AVERAGE	FEBRUARY 1971 TOTAL FOR MONTH	FEBRUARY 1971 PERCENT OF AVERAGE	OCT 1, 1970 - FEB 28, 1971 AVERAGE	OCT 1, 1970 - FEB 28, 1971 TOTAL FOR SEASON	OCT 1, 1970 - FEB 28, 1971 PERCENT OF AVERAGE	AVERAGE WATER YEAR
SAN JOAQUIN VALLEY FLOOR									
CAMP PARDEE	658	NWS	3.49	0.65	19	14.27	15.40	108	20.72
GALT	47	DWR	2.96	0.48	16	11.80	13.29	113	16.51
WALLACE 1SE	214	NWS	3.29	0.65	20	13.58	14.48	107	19.63
RIO VISTA	22	NWS	2.82	-	-	11.82	-	-	16.13
LODI	40	NWS	2.73	0.38	14	11.60	12.36	107	16.21
ANTIOCH FIBREBOARD MILL	28	NWS	2.30	0.31	13	9.65	10.28	107	13.17
STOCKTON FS NO 4	11	NWS	2.55	0.57	22	10.32	11.76	114	14.40
OAKDALE	155	NWS	2.32	0.71	31	9.71	11.15	115	14.21
KNIGHTS FERRY 2SE	315	NWS	2.32	-	-	9.56	-	-	14.05
TRACY CARBONA	140	NWS	1.66	0.41	25	6.63	8.75	132	9.38
MODESTO	91	NWS	2.03	0.39	19	8.28	9.66	117	11.96
DENAIR 3NNE	137	NWS	2.08	0.43	21	8.46	8.93	106	12.32
NEWMAN 2NW	108	NWS	1.92	0.25	13	7.44	10.30	138	10.44
MERCED FS NO 2	169	NWS	2.16	0.31	14	8.49	6.21	73	12.14
LOS BANOS	125	NWS	1.61	0.33	20	6.26	5.46	87	8.84
DELTA RANCH	90	DWR	1.36	0.35	26	5.92	7.02	119	8.69
FRIANT GOVERNMENT CAMP	410	NWS	2.71	0.41	15	9.96	8.31	83	14.37
MADERA	268	NWS	1.88	0.22	12	7.35	5.73	78	10.81
MENDOTA DAM	166	NWS	1.38	0.19	14	5.28	4.38	83	7.65
FRESNO NWS AP	331	NWS	2.08	0.29	14	7.54	5.77	77	11.01
ORANGE COVE	431	NWS	2.41	0.39	16	9.15	6.61	72	13.06
PANOCHE	1265	NWS	1.30	0.18	14	6.09	5.51	90	8.38
LEMON COVE	513	NWS	2.55	1.09	43	9.56	9.32	97	13.94
VISALIA	354	NWS	1.90	0.80	42	6.91	6.61	96	9.95
HANFORD	242	NWS	1.56	0.19	12	5.64	4.17	74	8.06
LINDSAY	395	NWS	2.07	0.70	34	7.86	7.81	99	11.57
COALINGA	671	NWS	1.66	0.02	1	5.35	4.18	78	7.40
PORTERVILLE	393	NWS	1.91	0.82	43	7.42	7.35	99	11.01
ANGIOLA	205	NWS	1.39	0.58	42	5.12	5.02	98	7.53
WASCO	333	NWS	1.28	0.43	34	4.29	3.72	87	6.52
SOUTH BELRIDGE	575	DWR	1.11	0.12	11	3.45	2.75	80	5.12
BAKERSFIELD NWS AP	494	NWS	1.18	0.35	30	3.96	3.20	81	6.09
TEHACHAPI	3975	NWS	1.81	0.79	44	7.19	9.46	132	11.05
TEJON RANCHO	1425	NWS	2.06	0.59	29	7.38	7.57	103	11.71
PATTIWAY	3868	NWS	1.86	0.90	48	6.36	5.51	87	9.60
UPPER SACRAMENTO, PIT, AND MCCLOUD RIVERS									
JESS VALLEY	5290	NWS	1.75	1.31	75	8.73	9.96	114	17.24
ALTURAS RS	4365	NWS	1.31	0.20	15	7.13	7.63	107	12.96
MOUNT SHASTA NWS CITY	3544	NWS	5.60	0.21	4	25.14	23.47	93	36.47
MCCLOUD	3300	NWS	7.83	0.55	7	35.38	39.85	113	50.31
HAT CREEK PH NO 1	3015	PG&E	2.60	0.42	16	11.98	13.71	114	18.28
DUNSMUIR RS	2420	NWS	8.31	0.34	4	40.31	47.42	118	57.72
PIT RIVER PH NO 5	1458	PG&E	11.34	1.38	12	52.99	69.05	130	75.34
VOLLMERS	1359	NWS	11.23	0.38	3	47.33	61.42	130	66.44
SHASTA DAM	1076	NWS	8.53	0.22	3	41.74	54.31	130	58.16
FEATHER RIVER									
SIERRAVILLE RS	4975	NWS	4.00	0.79	20	18.85	20.93	111	26.03
VINTON	4945	DWR	1.74	0.14	8	8.57	7.86	92	13.28
PORTOLA	4838	NWS	3.17	0.18	6	14.42	18.57	129	20.94
CANYON DAM	4555	NWS	6.25	0.55	9	27.60	29.87	108	38.84
CHESTER	4525	NWS	5.17	0.50	10	22.95	24.44	106	32.65
BRUSH CREEK RS	3560	NWS	11.95	0.06	1	51.49	54.02	105	70.80
QUINCY	3409	NWS	6.58	0.22	3	28.88	30.35	105	40.61
CARIBOU PH	2986	PG&E	6.72	0.53	8	28.89	29.95	104	40.72
LAKE WILENOR	2040	DWR	8.14	0.61	7	36.00	40.11	111	50.83
BUCKS CREEK PH (STORRIE)	1760	PG&E	10.87	1.25	11	46.64	45.00	96	65.17
YUBA RIVER									
SODA SPRINGS 1E	6885	NWS	10.04	2.55	25	44.56	48.69	109	64.90
BOWMAN DAM	5347	NWS	10.43	2.14	21	46.50	49.84	107	66.88
LAKE SPAULDING	5156	NWS	10.15	2.11	21	46.74	51.80	111	67.09
DEER CREEK PH	3700	NWS	11.08	1.90	17	48.78	50.30	103	68.38
DOWNIEVILLE RS	2895	NWS	9.80	0.80	8	43.63	45.74	105	61.81
CAMPTONVILLE RS	2755	NWS	9.33	0.90	10	42.33	43.67	103	59.12
GRASS VALLEY	2400	NWS	8.95	0.98	11	38.76	37.51	97	54.69
NEVADA CITY	2600	NWS	9.12	1.14	12	38.29	40.48	106	53.63
INDIAN ROCK	2240	DWR	10.84	1.13	10	46.86	50.98	109	68.98
DOBBINS COLGATE FOREBAY	1550	NWS	6.59	0.63	10	28.98	37.21	128	40.68
COLGATE PH	585	PG&E	6.51	0.72	11	28.48	27.14	95	39.88
NORTH SAN JUAN	2081	DWR	7.75	1.11	14	33.99	35.72	105	47.81

TABLE 1 - PRECIPITATION DATA (CONTINUED)

AREA, DRAINAGE BASIN AND PRECIPITATION STATION	ELEV IN FEET	SOURCE OF DATA (1)	PRECIPITATION (2) FEBRUARY 1971 AVERAGE	TOTAL FOR MONTH	PERCENT OF AVERAGE	OCT 1, 1970 - FEB 28, 1971 AVERAGE	TOTAL FOR SEASON	PERCENT OF AVERAGE	AVERAGE WATER YEAR
CENTRAL VALLEY AREA (CONTINUED)									
AMERICAN RIVER									
TWIN LAKES	7829	PG&E	7.53	1.74	23	31.99	38.37	120	48.63
BIG BEND RS	5739	NWS	10.54	2.09	20	48.12	54.54	113	68.97
BLUE CANYON NWS AP	5280	NWS	9.54	1.90	20	43.99	49.10	112	61.95
SLY PARK	3530	NWS	7.98	1.93	24	34.39	35.75	104	49.50
PACIFIC HOUSE	3440	NWS	8.36	1.74	21	35.27	37.22	106	50.51
GEORGETOWN RS	3001	NWS	8.79	0.97	11	38.08	39.59	104	53.69
COLFAX	2418	NWS	7.72	0.87	11	33.48	41.42	124	47.20
PLACERVILLE	1890	NWS	6.39	0.64	10	27.49	28.99	105	39.31
AUBURN	1297	NWS	5.82	0.70	12	24.73	28.74	116	34.80
FOLSOM DAM	350	NWS	4.06	0.23	6	16.78	17.10	102	23.50
MOKELUMNE RIVER									
SALT SPRINGS PH	3700	PG&E	7.01	1.68	24	30.10	31.25	104	44.13
WEST POINT 3 SW	2365	NWS	6.07	-	-	25.54	-	-	37.06
TIGER CREEK PH	2355	PG&E	7.59	1.81	24	31.74	33.88	107	45.72
FIDDLETOWN LYNCH RANCH	2140	NWS	5.79	0.94	16	24.45	27.59	113	34.60
ELECTRA PH	715	PG&E	5.01	0.78	16	20.63	20.62	100	29.79
STANISLAUS RIVER									
PINECREST STRAWBERRY	5620	PG&E	6.82	2.33	34	28.37	32.43	114	42.17
SPRING GAP FOREBAY	4875	PG&E	7.10	1.48	21	28.62	25.56	89	41.60
CALAVERAS BIG TREES	4696	NWS	9.03	1.62	18	37.79	39.91	106	54.13
TUOLUMNE RIVER									
LAKE ELEANOR	4662	NWS	6.94	1.73	25	29.45	25.39	86	42.26
HETCH HETCHY	3870	NWS	5.43	1.10	20	23.37	21.25	91	35.00
SONORA RS	1749	NWS	5.62	1.01	18	22.23	20.03	90	31.95
MERCED RIVER									
YOSEMITE NP	3985	NWS	6.30	1.24	20	25.66	25.02	98	36.90
DUDLEYS	3000	NWS	6.71	1.49	22	26.89	22.98	85	38.12
MARIPOSA	2011	NWS	5.56	0.47	8	21.29	15.50	73	29.90
EXCHEQUER RESERVOIR	484	NWS	3.35	0.48	14	12.99	10.24	79	19.05
UPPER SAN JOAQUIN RIVER									
FLORENCE LAKE	7345	SCEC	3.48	0.60	17	15.16	15.80	104	23.90
HUNTINGTON LAKE	7020	SCEC	5.70	1.45	25	22.22	22.49	101	32.86
CRANE VALLEY PH	3440	PG&E	7.32	1.86	25	28.25	22.50	80	40.40
NORTH FORK RS	2630	NWS	6.03	2.00	33	23.41	21.35	91	33.74
KINGS RIVER									
GRANT GROVE	6580	NWS	7.09	2.08	29	29.94	24.49	82	44.36
BALCH PH	1720	NWS	5.27	1.40	27	19.58	16.74	85	28.61
PINE FLAT DAM	615	USCE	3.46	0.65	19	13.49	10.29	76	19.35
KAWEAH RIVER									
LODGEPOLE	6735	NWS	8.16	1.85	23	30.70	23.58	77	44.88
ASH MOUNTAIN	1708	NWS	4.71	1.96	42	17.66	15.35	87	26.51
THREE RIVERS EDISON PH NO 2	950	NWS	3.90	1.17	30	14.54	12.92	89	21.43
TULE RIVER									
TULE RIVER INTAKE	2450	SCEC	5.10	1.09	21	18.99	16.40	86	27.55
KERN RIVER									
KERN RIVER INTAKE NO 3	3650	SCEC	3.53	0.19	5	13.13	10.90	83	18.12
GLENNVILLE	3140	NWS	3.01	1.22	41	11.73	11.83	101	18.10
KERN RIVER PH NO 3	2703	SCEC	2.25	0.27	12	8.40	6.93	83	11.75
WOFFORD HEIGHTS	2700	NWS	2.14	0.36	17	7.83	7.89	101	10.64
LAHONTAN AREA									
SURPRISE VALLEY									
CEDARVILLE	4670	NWS	1.38	0.81	59	7.57	10.01	132	12.75
FORT BIDWELL	4498	NWS	1.83	1.15	63	9.19	13.51	147	14.81
MADELINE PLAINS-HONEY LAKE									
RAVENDALE JIM MARR RANCH	5540	DWR	0.97	-	-	5.02	-	-	8.57
SUSANVILLE COURTHOUSE	4325	DWR	2.63	-	-	12.12	-	-	17.27
DOYLE	4240	NWS	1.45	0.35	24	7.10	6.51	92	10.44
SUSANVILLE AP	4148	NWS	2.29	0.12	5	10.44	10.70	102	14.80
WENDEL 1E	4040	DWR	1.11	0.13	12	5.17	4.92	95	7.93
TRUCKEE AND TAHOE BASIN									
TAHOE CITY	6230	NWS	5.11	0.91	18	23.02	20.56	89	32.01
TRUCKEE RS	5995	NWS	5.00	1.17	23	22.45	21.49	96	31.95
CARSON RIVER									
WOODFORDS	5671	NWS	2.97	0.65	22	13.82	14.65	106	21.53
WALKER RIVER									
BRIDGEPORT	6470	NWS	1.39	0.25	18	5.95	5.39	91	9.25
MONO BASIN									
ELLERY LAKE	9600	SCEC	3.59	1.20	33	15.96	16.94	106	24.30
GEM LAKE	8970	SCEC	3.40	0.32	9	13.86	13.76	99	20.95
MONO LAKE	6450	NWS	2.77	0.08	3	11.44	8.06	70	16.53

TABLE 1 - PRECIPITATION DATA (CONTINUED)

AREA, DRAINAGE BASIN AND PRECIPITATION STATION	ELEV IN FEET	SOURCE OF DATA (1)	PRECIPITATION (2) FEBRUARY 1971 AVERAGE	FEBRUARY 1971 TOTAL FOR MONTH	FEBRUARY 1971 PERCENT OF AVERAGE	OCT 1, 1970 - FEB 28, 1971 AVERAGE	OCT 1, 1970 - FEB 28, 1971 TOTAL FOR SEASON	OCT 1, 1970 - FEB 28, 1971 PERCENT OF AVERAGE	AVERAGE WATER YEAR
LAHONTAN AREA (CONTINUED)									
OWENS RIVER									
WHITE MOUNTAIN NO 2	1247	NWS	2.16	0.53	25	9.62	5.91	61	15.37
SOUTH LAKE	9580	SCEC	2.75	0.48	17	11.54	10.10	88	18.12
LAKE SABRINA	9065	SCEC	2.82	0.46	16	10.84	6.74	62	17.04
CROOKED CREEK	6700	LADWP	1.84	0.10	5	6.93	5.54	80	10.20
BIG PINES PH NO 3	4680	LADWP	1.79	0.05	3	6.65	4.65	70	8.72
BISHOP NWS AP	4108	NWS	1.04	0.11	11	4.16	1.98	48	5.84
INDEPENDENCE	3950	NWS	0.93	0.02	2	3.96	2.91	74	5.28
LA AQUEDUCT AT INTAKE	3841	LADWP	1.17	0.06	5	4.30	2.67	62	5.64
HAIWEE	3825	NWS	1.18	0.25	21	4.21	3.90	93	6.17
COTTONWOOD GATES	3710	LADWP	1.23	0.06	5	4.58	2.93	64	6.44
DEATH VALLEY									
DEATH VALLEY	-194	NWS	0.32	0.07	22	1.01	1.00	99	1.77
MOJAVE DESERT									
BIG PINES PARK	6860	LACFCD	5.30	1.48	28	17.94	14.38	80	25.47
FAIRMONT	3060	NWS	3.13	0.92	29	11.02	13.55	123	15.15
PALMDALE FAA AP	2517	NWS	1.57	0.12	8	5.66	4.43	78	7.96
INYOKERN	2440	NWS	0.75	-	-	2.54	-	-	4.12
DAGGETT FAA AP	1922	NWS	0.61	0.00	0	2.52	0.25	10	4.37
BAKER 9NNW	1045	NWS	0.53	0.03	6	2.04	0.57	28	3.68
COLORADO DESERT AREA									
TWENTYNINE PALMS	1975	NWS	0.25	0.01	4	1.99	0.12	6	3.89
IRON MOUNTAIN	922	NWS	0.24	0.05	21	1.67	0.32	19	3.08
NEEDLES FAA AP	913	NWS	0.52	0.00	0	2.34	0.43	19	4.38
BLYTHE FAA AP	390	NWS	0.39	0.00	0	1.87	0.03	2	3.71
YUMA, ARIZONA NWS AP	199	NWS	0.17	-	-	1.14	-	-	2.31
IMPERIAL	-64	NWS	0.37	0.01	3	1.60	0.22	14	2.70

(1) NWS - NATIONAL WEATHER SERVICE. LACFCD - LOS ANGELES COUNTY FLOOD CONTROL DISTRICT. DWR - CALIFORNIA DEPARTMENT OF WATER RESOURCES. PG&E - PACIFIC GAS AND ELECTRIC COMPANY. SCEC - SOUTHERN CALIFORNIA EDISON COMPANY. LADWP - LOS ANGELES DEPARTMENT OF WATER AND POWER. MMWD - MARIN MUNICIPAL WATER DISTRICT. CSJ - CITY OF SAN JOSE. USBR - UNITED STATES BUREAU OF RECLAMATION. CSD - CITY OF SAN DIEGO. USCE - UNITED STATES ARMY CORPS OF ENGINEERS.

(2) MONTHLY AND SEASONAL TOTALS IN INCHES. AVERAGES IN INCHES ARE BASED ON THE 40-YEAR PERIOD, 1930-31 THROUGH 1969-70.

TABLE 2

SNOW COURSE DATA

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
NORTH COASTAL AREA									
SHASTA RIVER									
PARKS CREEK	1	6700	2-25-71	79.2	41	32.2	94	34.4	34.4
SWEETWATER	3	5850	2-25-71	37.9	37	14.0	100	14.0	8.8
SCOTT RIVER									
MIDDLE BOULDER 1	5	6600		NO SURVEY MADE				30.7	31.5
MIDDLE BOULDER 3	311	6200	3- 5-71	48.0	43	20.8	78	26.5	26.4
DYNAMITE MEADOW	298	5700	3- 5-71	43.6	40	17.4	101	17.3	16.4
SWAMPY JOHN	285	5500	2-24-71	93.2	42	39.6	105	37.6	27.6
TRINITY RIVER									
DEADFALL LAKES	9	7200	2-25-71	59.1	45	26.3	82	32.1	32.9
RED ROCK MOUNTAINN	10	6700	3- 1-71	105.1	40	42.1	99	42.6	43.7
BEAR BASIN	11	6500	3- 1-71	66.9	40	26.9	72	37.6	33.0
SHIMMY LAKE	12	6200	3- 1-71	98.7	45	44.7	95	47.3	56.3
HIGHLAND LAKES	16	6000	2-24-71	68.6	46	31.5	98	32.3	28.2
BIG FLAT	17	5100	3- 1-71	51.9	36	18.8	123	15.3	11.7
SOUTH COASTAL AREA									
PIRU CREEK									
MOUNT PINOS	310	8600	0-10-71	0.0	-	0.0	0	7.3	4.0
SANTA ANA RIVER									
CHRISTMAS TREE HILL	351	8500	2-25-71	42.8	37	15.8	107	14.7	0.0
SAN YGA	352	7500	2-25-71	0.0	-	0.0	0	3.3	0.0
COTTONWOOD CREEK									
LITTLE LAGUNA MEADOW	274	5500	3- 1-71	0.0	-	0.0	0	1.5	0.0
CENTRAL VALLEY AREA									
SACRAMENTO RIVER									
MOUNT SHASTA	18	7900	2-26-71	105.5	44	46.2	93	49.8	55.8
SAND FLAT	19	6800	2-26-71	89.2	43	38.5	93	41.5	42.7
SLATE CREEK	22	5600	2-25-71	69.0	47	32.3	116	27.8	14.1
MCCLOUD RIVER									
STOUTS MEADOW	25	5400	2-24-71	98.0	46	45.4	110	41.3	19.2
PIT RIVER									
CEDAR PASS	30	7100	3- 3-71	43.2	30	12.9	78	16.6	13.0
THOUSAND LAKES	33	6500	3- 2-71	95.1	41	39.2	108	36.4	33.1
ADIN MOUNTAINS	35	6350	3- 2-71	44.5	31	13.6	101	13.4	10.1
NEW MANZANITA LAKE	343	5900	2-28-71	26.2	36	9.4	127	7.4	2.1
FEATHER RIVER									
LOWER LASSEN PEAK	47	8250	3- 1-71	156.6	47	73.2	92	79.8	93.8
KETTLE ROCK	361	7300	2-24-71	54.2	45	24.4	108	22.5	18.6
MOUNT DYER 1	48	7100	3- 2-71	53.2	41	22.0	88	24.9	21.9
GRIZZLY	359	6900	2-26-71	74.9	42	31.6	93	33.8	27.4
EUREKA BOWL	279	6800	3- 2-71	104.7	46	48.4	116	41.8	35.0
MOUNT HOUGH	360	6700	3- 2-71	72.8	43	31.2	108	28.8	26.7
ROWLAND CREEK	280	6700	2-25-71	50.2	35	17.7	99	17.9	16.9
EUREKA LAKE	52	6200	3- 2-71	91.9	45	40.9	127	32.3	19.0
MOUNT DYER 2	290	6050	3- 2-71	37.7	38	14.5	96	15.1	8.5
FRENCHMAN COVE	353	5800	2-24-71	19.6	40	7.8	211	3.7	0.8
ABBEY	355	5650	2-26-71	38.2	40	15.3	150	10.2	7.5
ANTELOPE RIDGE	354	5650	2-24-71	26.3	38	10.1	252	4.0	5.1
MOUNT STOVER	55	5600	3- 2-71	45.4	38	17.1	102	16.8	13.8
BROWNS CAMP	56	5400	3- 1-71	83.8	45	37.7	169	22.3	7.2
HASKINS FLAT	57	5200	3- 1-71	105.1	45	47.7	160	29.8	9.6
CHESTER FLAT	61	4600	3- 2-71	31.6	35	11.0	147	7.5	5.3
STONY CREEK									
ANTHONY PEAK	62	6200	2-26-71	70.9	48	34.1	116	29.4	12.2
YUBA RIVER									
CASTLE CREEK 5	65	7400	2-25-71	115.5	47	54.0	103	52.3	47.3
ENGLISH MOUNTAIN	68	7100	3- 6-71	119.2	45	53.9	121	44.5	32.1
DONNER SUMMIT	69	6900	2-25-71	82.4	47	38.7	97	39.9	31.3
YUBA PASS	74	6700		NO SURVEY MADE				30.1	19.8
FINDLEY PEAK	78	6500	3- 5-71	81.5	41	33.1	115	28.7	16.5
CISCO	80	5900	2-25-71	78.0	43	33.9	135	25.2	12.6
CHAPMAN CREEK	372	5850		NO SURVEY MADE				(3)	3.7
GIBSONVILLE	277	5400	3- 1-71	102.5	42	42.6	145	29.4	6.2
LAKE SPAULDING	85	5200	2-25-71	79.8	47	37.8	151	25.1	0.0
AMERICAN RIVER									
UPPER CARSON PASS	106	8500	3- 5-71	85.5	41	35.3	101	34.9	32.1

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
AMERICAN RIVER (CONTINUED)									
EMIGRANT VALLEY	297	8400	3- 5-71	101.2	43	43.9	100	43.7	42.7
LOWER CARSON PASS	331	8400	3- 5-71	90.9	41	37.0	97	38.3	35.4
CAPLES LAKE	107	8000	3- 5-71	73.2	41	29.7	99	30.1	28.3
ALPHA	365	7600	3- 2-71	84.5	41	34.4	101	33.9	30.6
LOST CORNER MOUNTAIN	338	7500	3- 2-71	92.6	41	37.9	108	35.0	31.3
ECHO SUMMIT	108	7450	3- 1-71	97.8	33	32.1	86	37.4	31.0
LAKE AUDRAIN	110	7300	3- 1-71	99.2	34	34.2	95	35.9	32.0
DARRINGTON	111	7100	2-26-71	58.1	44	25.8	84	30.7	25.8
SILVER LAKE	109	7100	2-25-71	49.2	41	20.0	86	23.2	18.5
WRIGHTS LAKE	316	6900	3- 2-71	83.1	38	31.5	92	34.3	34.1
PHILLIPS	113	6800	2-26-71	59.9	42	25.3	87	29.1	24.9
LYONS CREEK	320	6700	3- 2-71	96.2	33	31.8	99	32.0	30.4
HUYSINK	115	6600	2-24-71	109.7	47	51.2	110	46.4	35.6
TAMARACK FLAT	289	6550	2-26-71	67.8	40	27.4	96	28.5	23.9
WABENA MEADOWS	114	6300	2-26-71	103.3	41	42.1	105	40.0	25.8
UNION CREEK	120	6100	2-26-71	57.8	47	27.1	125	21.6	13.2
DIAMOND CROSSING	371	6050	2-26-71	59.8	37	22.4	102	22.0	8.9
TALBOT CAMP	122	5750	2-26-71	57.0	42	24.2	121	20.0	9.3
STRAWBERRY	124	5700	2-26-71	28.1	50	14.1	164	8.6	3.9
ROBBS VALLEY	322	5600	3- 2-71	76.9	38	28.9	131	22.1	11.2
ICE HOUSE	127	5300	3- 1-71	58.5	33	19.5	188	10.4	0.7
MOKELUMNE RIVER									
TRAGEDY CREEK	364	8150	2-25-71	87.7	43	37.8	88	43.0	36.4
CORRAL FLAT	133	7200	2-26-71	81.4	44	36.1	90	40.1	29.0
PODESTA	363	7200	2-26-71	89.4	44	39.4	87	45.1	35.0
BEAR VALLEY RIDGE 1	134	6700	2-26-71	58.6	42	24.9	98	25.5	15.1
BEAR VALLEY RIDGE 2	339	6600	2-26-71	71.1	42	30.0	107	28.0	17.7
LUMBERYARD	135	6500	3- 2-71	85.7	39	33.6	101	33.3	18.8
HAMS STATION	136	5500	3- 1-71	37.2	38	14.2	173	8.2	0.9
ANTELOPE SPRINGS	137	4350	3- 1-71	31.9	37	11.9	361	3.3	0.0
STANISLAUS RIVER									
LOWER RELIEF VALLEY	138	8100	3- 2-71	93.0	40	37.3	95	39.4	30.6
STANISLAUS MEADOW	384	7750	3- 2-71	106.2	38	40.6	-	(3)	(4)
LAKE ALPINE	141	7550	3- 2-71	97.5	40	38.8	94	41.3	39.4
HERRING CREEK	142	7300	3- 2-71	76.8	34	26.1	91	28.8	19.1
BIG MEADOW	146	6550	3- 2-71	74.5	41	30.6	110	27.8	21.6
HELLS KITCHEN	373	6550	3- 2-71	72.5	36	26.1	-	(3)	20.2
NIAGARA FLAT	145	6500	3- 2-71	60.7	33	19.8	93	21.2	14.6
COTTAGE SPRING	147	5750	3- 2-71	66.4	36	24.1	166	14.5	7.7
DORRINGTON	149	4750	3- 2-71	41.1	41	17.0	304	5.6	2.2
TUOLUMNE RIVER									
DODGE RIDGE	379	8150	3- 1-71	97.4	39	37.9	-	(3)	34.2
KERRICK CORRAL	348	7000	2-26-71	52.7	47	24.7	129	19.1	17.6
MERCED RIVER									
SNOW FLAT	176	8700	3- 2-71	97.9	34	33.6	79	42.3	30.0
OSTRANDER LAKE	177	8200	2-27-71	69.3	42	29.2	87	33.5	23.5
GIN FLAT	179	7000	3- 2-71	76.2	40	30.2	90	33.5	18.2
PEREGOY MEADOWS	180	7000	2-27-71	75.3	39	29.3	91	32.3	18.6
SAN JOAQUIN RIVER									
MONO PASS	182	11450	3- 2-71	64.2	43	27.3	81	33.9	26.6
PIUTE PASS	183	11300	2-23-71	81.7	38	30.9	87	35.7	29.0
PIONEER BASIN	276	10400	3- 2-71	73.1	33	24.1	65	37.2	30.2
ROSE MARIE	187	10000	3- 2-71	65.0	37	23.9	80	30.0	25.1
AGNEW PASS	189	9450	3- 3-71	67.1	41	27.3	87	31.3	25.7
DUTCH LAKE	191	9100	3- 2-71	65.4	37	24.5	90	27.3	24.7
KAISER PASS	190	9100	3- 1-71	87.6	36	31.9	84	38.2	28.2
BADGER FLAT	346	8300	2-26-71	68.0	37	25.4	80	31.8	21.6
NELLIE LAKE	194	8000	3- 3-71	81.8	38	31.0	85	36.3	27.7
LAKE THOMAS A EDISON	324	7800	3- 2-71	39.4	36	14.3	92	15.6	12.3
CHILKOOT LAKE	196	7450	3- 2-71	86.4	38	32.6	90	36.2	20.4
TAMARACK CREEK	347	7250	2-26-71	56.3	40	22.4	89	25.2	12.4
FLORENCE LAKE	198	7200	3- 2-71	32.2	36	11.7	158	7.4	5.7
CHILKOOT MEADOW	197	7150	3- 2-71	92.2	38	35.2	98	36.0	21.0
HUNTINGTON LAKE	199	7000	3- 3-71	57.3	36	20.4	100	20.4	10.6
POISON MEADOW	204	6800	3- 2-71	74.2	36	26.7	108	24.7	9.2
KINGS RIVER									
BISHOP PASS	222	11200	2-26-71	70.1	41	28.8	92	31.3	25.6
BLACKCAP BASIN	223	10300	3- 2-71	67.0	36	23.8	70	34.2	22.6
UPPER BURNT CORRAL MDW	224	9700	3- 2-71	81.0	37	29.6	85	35.0	25.0
DODSONS MEADOW	308	8050	3- 2-71	61.0	40	24.1	80	30.1	19.9

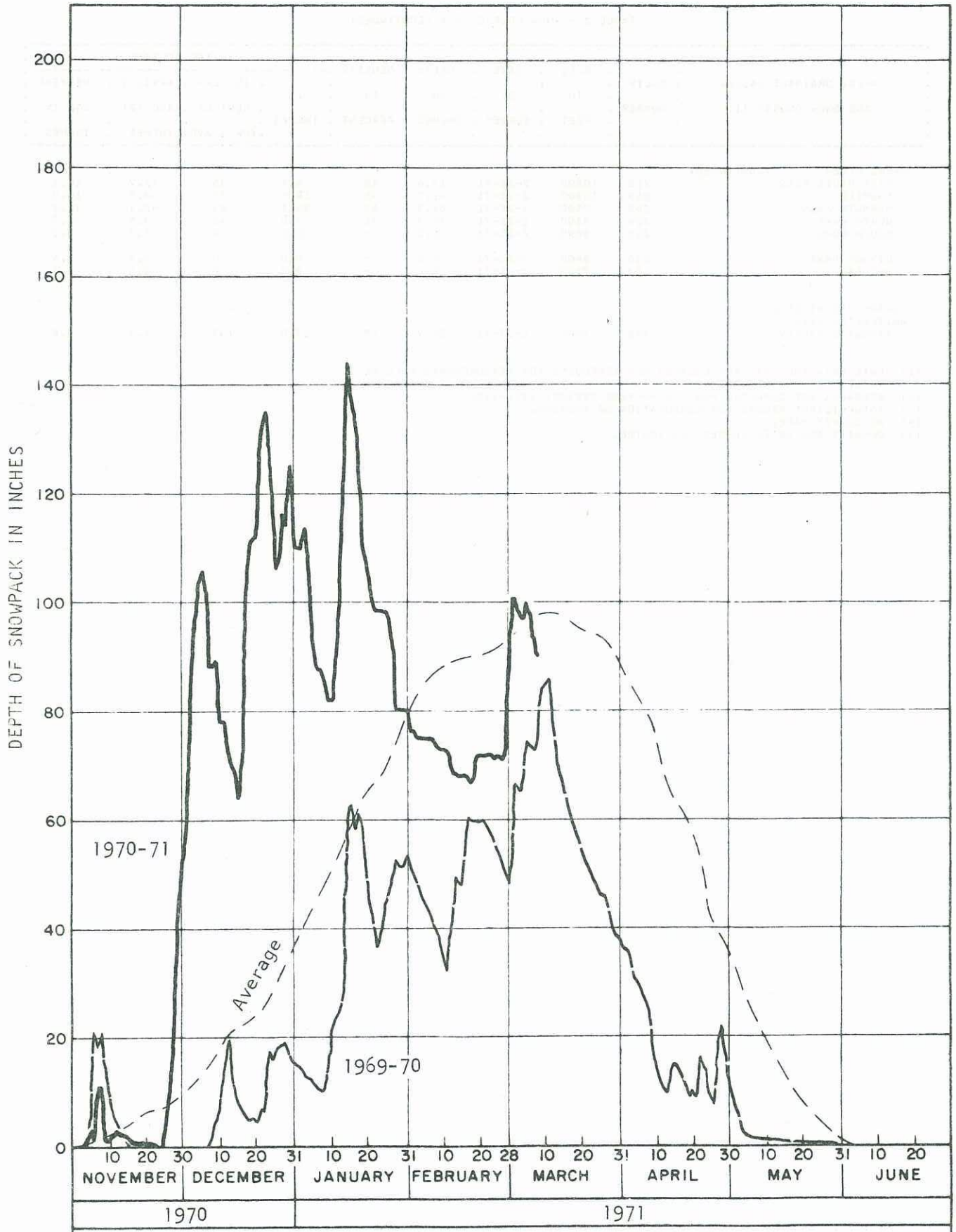
TABLE 2 - SNOW COURSE DATA (CONTINUED)

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
KINGS RIVER (CONTINUED)									
BIG MEADOWS	236	7600	2-28-71	59.9	37	22.0	85	25.9	15.7
GRANT GROVE	240	6600	3- 3-71	54.0	35	18.8	129	14.6	4.9
KAWEAH RIVER									
WHITE CHIEF	374	9200	3- 3-71	58.9	35	20.6	-	(3)	26.4
FAREWELL GAP	292	9000	3- 3-71	76.7	34	26.1	73	35.9	28.8
PANTHER MEADOW	243	8600	3- 6-71	77.5	35	26.8	73	36.8	18.9
HOCKETT MEADOWS	244	8500	2-28-71	64.0	34	22.0	76	29.0	13.4
MINERAL KING	245	8000	3- 2-71	55.2	38	21.1	99	21.3	13.9
GIANT FOREST	246	6400	3- 6-71	59.0	34	20.1	121	16.6	1.4
TULE RIVER									
QUAKING ASPEN	247	7000	2-26-71	41.2	42	17.3	130	13.3	6.7
OLD ENTERPRISE MILL	248	6600	2-25-71	48.0	42	20.3	124	16.4	5.1
DEER CREEK									
DEAD HORSE MEADOW	249	7300	3- 2-71	38.6	39	15.2	121	12.6	0.3
KERN RIVER									
BIGHORN PLATEAU	250	11350	3- 5-71	41.1	36	14.9	64	23.4	17.7
COTTONWOOD PASS	251	11050	3- 2-71	22.3	33	7.4	52	14.1	9.3
SIBERIAN PASS	252	10900	3- 3-71	38.8	35	13.4	71	18.9	13.3
CRABTREE MEADOW	253	10700	3- 5-71	35.0	35	12.2	62	19.8	16.1
GUYOT FLAT	254	10650	3- 4-71	39.8	32	12.9	61	21.0	16.2
SANDY MEADOWS	275	10650	3- 4-71	35.5	32	11.2	59	19.0	16.7
TYNDALL CREEK	255	10650	3- 5-71	37.7	30	11.4	60	18.9	15.6
BIG WHITNEY MEADOW	257	9750	3- 2-71	38.6	33	12.7	72	17.6	11.8
ROCK CREEK	256	9600	3- 3-71	37.6	34	12.6	71	17.7	15.4
ROUND MEADOW	258	9000	3- 3-71	67.5	37	25.1	98	25.6	17.5
RAMSHAW MEADOWS	259	8700		NO SURVEY MADE				11.5	(4)
LITTLE WHITNEY MEADOW	260	8500		NO SURVEY MADE				14.0	(4)
QUINN RANGER STATION	264	8350	2-27-71	47.0	36	17.0	83	20.4	10.5
LAHONTAN AREA									
SURPRISE VALLEY									
BARBER CREEK	313	6500	3- 2-71	28.6	31	8.8	83	10.6	9.8
HAYS CANYON NEVADA	349	6400	2-25-71	3.0	20	0.6	21	2.8	1.2
49 MOUNTAIN NEVADA	350	6000	2-25-71	3.0	17	0.5	18	2.8	1.2
RESERVATION CREEK	314	5900	2-26-71	23.0	34	7.8	76	10.2	9.1
TRUCKEE RIVER									
INDEPENDENCE LAKE	86	8450	2-22-71	102.0	42	43.2	104	41.4	36.6
SQUAW VALLEY 2	318	7500	3- 3-71	129.0	41	52.9	101	52.4	45.4
INDEPENDENCE CAMP	88	7000	2-22-71	62.0	40	24.8	106	23.3	15.0
INDEPENDENCE CREEK	91	6500	2-22-71	46.0	36	16.6	124	13.4	6.6
SAGE HEN CREEK	90	6500	2-23-71	53.0	40	21.0	115	18.3	10.0
TRUCKEE 2	92	6400	2-23-71	43.0	38	16.2	100	16.2	9.1
DONNER PARK 2	342	6000	2-26-71	59.0	39	22.8	124	18.4	8.0
BOCA 2	95	5900	2-26-71	26.0	39	10.2	213	4.8	1.2
LAKE TAHOE BASIN									
HEAVENLY VALLEY	375	8850	2-25-71	67.0	39	26.4	-	(3)	28.2
LAKE LUCILLE	96	8200	3- 2-71	158.0	37	59.0	100	59.2	63.9
RUBICON PEAK 1	97	8100	3- 2-71	128.0	38	48.2	99	48.9	44.2
HAGANS MEADOW	98	8000	2-26-71	37.0	38	14.0	77	18.1	16.9
MARLETTE LAKE NEVADA	332	8000	2-25-71	45.0	37	16.6	72	23.1	21.6
RUBICON PEAK 2	99	7500	3- 2-71	73.0	39	28.6	92	31.0	27.1
FREEL BENCH	100	7300	2-26-71	36.0	39	13.9	119	11.7	9.0
BROCKWAY SUMMIT	385	7100	2-27-71	40.0	39	15.5	116	13.4	16.1
WARD CREEK	101	7000	2-24-71	91.0	43	39.3	86	45.8	33.7
GLENBROOK 2	333	6900	2-27-71	37.0	33	12.2	91	13.4	10.1
WARD CREEK 3	376	6750	2-24-71	91.0	41	37.3	98	37.9	28.8
RICHARDSONS 2	103	6500	2-27-71	46.0	40	18.4	110	16.7	11.7
UPPER TRUCKEE	104	6400	2-26-71	39.0	36	14.2	177	8.0	5.9
TAHOE CITY	105	6250		NO SURVEY MADE				11.1	7.7
WALKER RIVER									
VIRGINIA LAKES	150	9500	2-24-71	28.0	38	10.6	56	18.9	13.8
CENTER MOUNTAIN	151	9400	2-26-71	82.0	39	32.3	85	37.8	31.1
VIRGINIA LAKES RIDGE	377	9200	2-24-71	42.0	35	14.8	87	17.0	12.0
SONORA PASS	152	8800	2-25-71	53.0	41	21.5	88	24.5	20.5
BUCKEYE FORKS	153	8500		NO SURVEY MADE				20.9	18.6
BUCKEYE ROUGHS	155	7900	2-25-71	46.0	41	18.8	91	20.6	13.7
MONO LAKE BASIN									
GEM PASS	281	10400	3- 2-71	55.9	44	24.7	77	32.0	29.0
GEM LAKE	282	9150	3- 2-71	70.6	40	28.4	92	31.0	22.6
OWENS RIVER									
BISHOP LAKE	284	11300	2-25-71	31.4	32	10.1	47	21.7	19.6

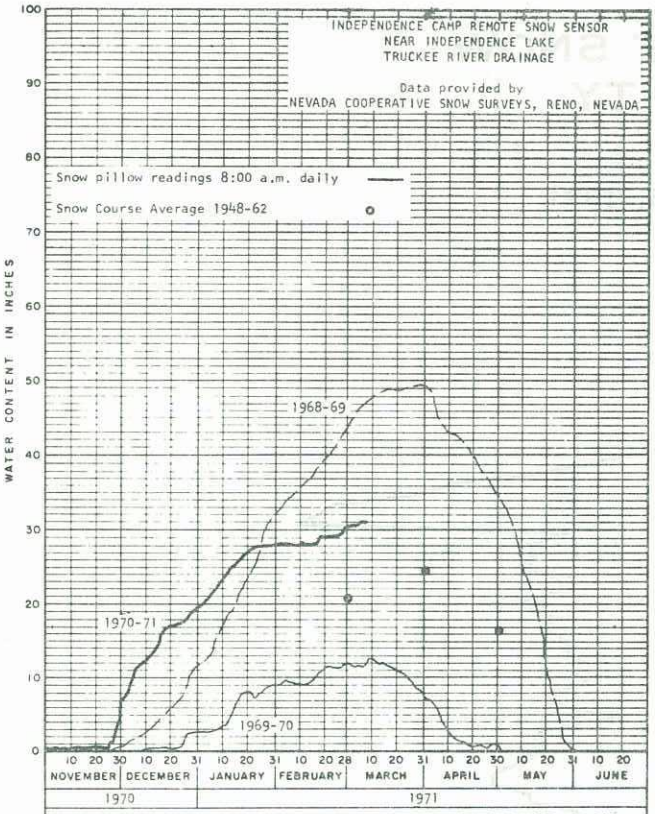
TABLE 2 - SNOW COURSE DATA (CONTINUED)

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	WATER CONTENT IN PER-CENT OF APR 1 AVG.	WATER CONTENT APRIL 1 AVG (2) INCHES	WATER CONTENT ONE-YEAR AGO IN INCHES
OWENS RIVER (CONTINUED)									
EAST PIUTE PASS	212	10800	2-22-71	13.6	32	4.4	35	12.7	10.1
SAWMILL	213	10300	2-25-71	41.7	35	14.4	77	18.8	14.0
MAMMOTH PASS	205	9500	2-25-71	87.5	40	35.1	83	42.1	30.8
NORTH LAKE	214	9300	2-22-71	10.7	36	3.8	40	9.5	6.7
SOUTH FORK	215	8850	2-25-71	0.0	-	0.0	0	5.3	4.3
BISHOP PARK	216	8400	2-22-71	0.0	-	0.0	0	4.9	2.4
NUCLEAR 1	357	7800	3- 1-71	0.0	-	0.0	0	2.4	0.5
COLORADO DESERT AREA									
WHITEWATER RIVER									
TAHQUITZ VALLEY	296	7800	2-27-71	26.7	49	13.0	157	8.3	9.8

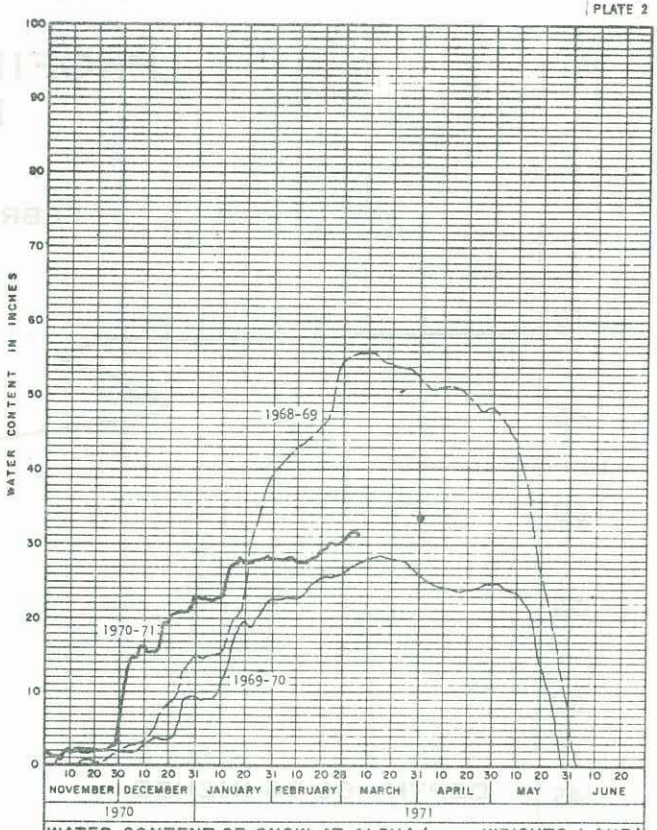
(1) LATE DATA AND DATA FOR COURSES NOT SCHEDULED FOR MEASUREMENTS WILL BE PUBLISHED IN THE FALL REPORT.
(2) AVERAGES ARE COMPUTED FOR THE 40-YEAR PERIOD, 1931-1970
(3) INSUFFICIENT RECORD FOR COMPUTATION OF AVERAGE.
(4) NO SURVEY MADE.
(5) DENSITY AND WATER CONTENT ESTIMATED.



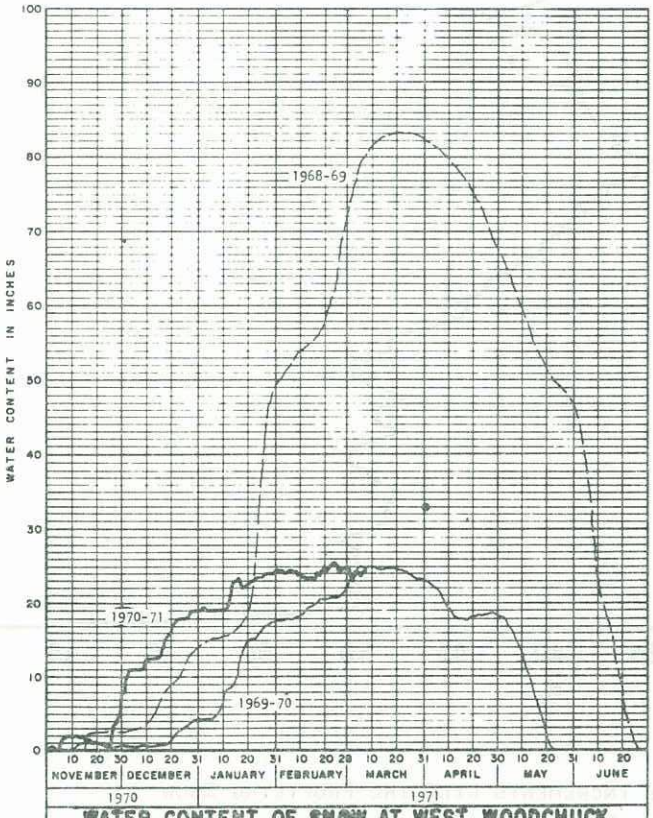
DEPTH OF SNOW AT NORDEN
ELEVATION 7,000 FEET



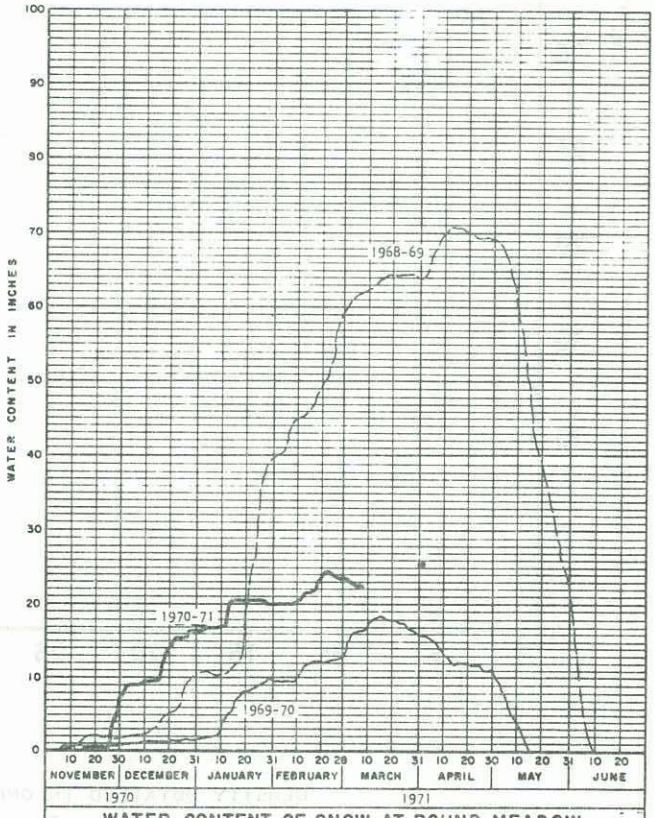
WATER CONTENT OF SNOW AT INDEPENDENCE CAMP
ELEVATION 7,000 FEET
TRUCKEE RIVER BASIN



WATER CONTENT OF SNOW AT ALPHA (near WRIGHTS LAKE)
ELEVATION 7,600 FEET
AMERICAN RIVER BASIN



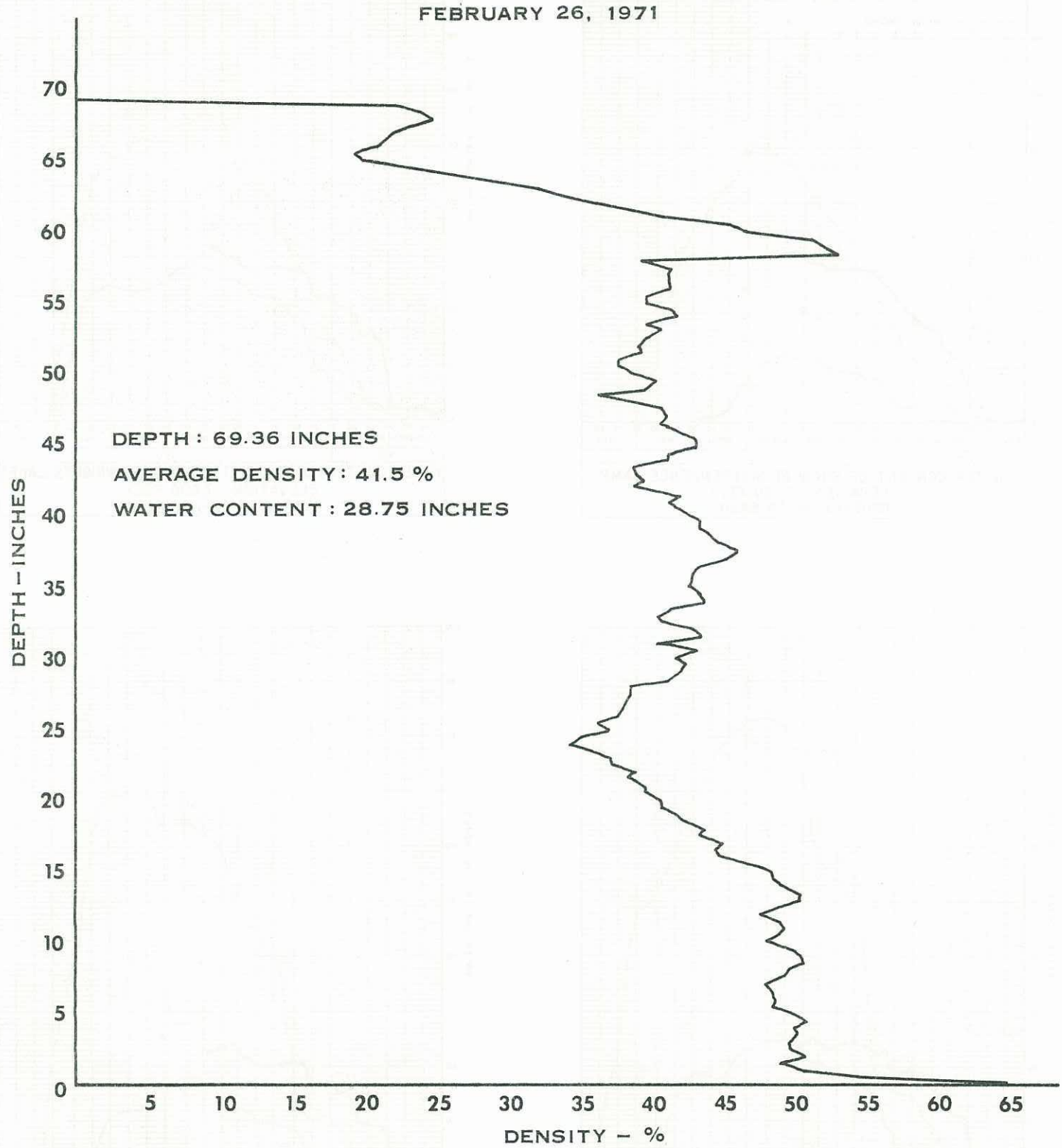
WATER CONTENT OF SNOW AT WEST WOODCHUCK
ELEVATION 8,800 FEET
KINGS RIVER BASIN



WATER CONTENT OF SNOW AT ROUND MEADOW
ELEVATION 9,000 FEET
KERN RIVER BASIN

PROFILE OF SNOW DENSITY

FEBRUARY 26, 1971



DENSITY OBTAINED IN ONE-HALF-INCH INCREMENTS WITH THE PROFILING SNOW GAGE AT THE PACIFIC SOUTHWEST FOREST AND RANGE EXPERIMENT STATION, CENTRAL SIERRA SNOW LAB., SODA SPRINGS, CALIFORNIA, ELEVATION - 6,900'.

TABLE 3

AERIAL PHOTOGRAPHIC SNOW DEPTH MEASUREMENTS

AREA, DRAINAGE BASIN, AND AERIAL MARKER	CALIF. NO (1)	ELEV IN FEET	DATE OBSERVED	DEPTH IN INCHES	WATER CONTENT IN INCHES ESTIMATED	WATER CONTENT IN INCHES APR 1 AVG (2)
CENTRAL VALLEY AREA						
FEATHER RIVER						
THREE LAKES	53	6250	3- 1-71	106	43	40.1
HARKNESS FLAT	51	6200	3- 2-71	68	26	28.7
MILL CREEK FLAT	54	5900	3- 1-71	107	42	38.7
FREDONYER PASS NO 1	50	5750	3- 2-71	5	1	8.7
LETTERBOX	49	5600	3- 1-71	141	58	47.3
FEATHER RIVER MEADOWS	58	5400	3- 2-71	72	31	23.2
WARNER CREEK	59	5100	3- 2-71	54	22	16.2
HUMBUG SUMMIT	60	4850	3- 2-71	36	14	11.6
YUBA RIVER						
RED MOUNTAIN	67	7200	2-26-71	113	52	48.9
LAKE STERLING	70	7100	2-26-71	130	61	53.4
DONNER SUMMIT	69	6900	2-26-71	84	39	39.9
FURNACE FLAT	76	6700	2-26-71	91	45	47.6
LAKE FORDYCE	77	6500	2-26-71	90	46	40.3
AMERICAN RIVER						
LYONS LAKE	552	8500	3- 2-71	101	42	--
UPPER CARSON PASS	106	8500	2-26-71	71	35	34.9
LAKE LOIS	502	8250	3- 2-71	84	30	--
LAKE NO 3	501	8200	3- 2-71	160	59	--
PHIPPS CREEK	503	7600	3- 2-71	55	21	--
LOST CORNER MOUNTAIN	338	7500	3- 2-71	78	32	35.0
WILLOW FLAT	551	7400	3- 2-71	82	32	--
TWO PEAKS	548	7350	3- 2-71	66	26	--
SHADOW LAKE	550	7300	3- 2-71	91	35	--
SILVER LAKE	109	7100	3- 6-71	50	19	23.2
NIGGER FLAT	553	6950	3- 2-71	57	21	--
WRIGHTS LAKE	316	6900	3- 2-71	80	30	33.2
QUINNS CORRAL	553	6800	3- 2-71	102	38	--
UPPER BASSI	549	6350	3- 2-71	58	22	--
HELLS DELIGHT	554	5750	3- 2-71	54	20	--
MOKELUMNE RIVER						
BLUE LAKES	129	8000	2-24-71	91	36	35.5
PACIFIC VALLEY	132	7500	3- 6-71	92	35	38.6
BEAR VALLEY RIDGE NO 1	134	6700	2-26-71	60	25	25.5
STANISLAUS RIVER						
DEADMAN CREEK	345	9250	2-24-71	84	36	35.4
CLARK FORK MEADOW	344	8900	2-24-71	90	42	38.8
HIGHLAND MEADOW	323	8800	2-24-71	96	40	49.8
MOUNT REBA	566	8500	2-24-71	97	44	--
LOWER RELIEF VALLEY	138	8100	2-24-71	76	36	39.4
SODA CREEK FLAT	139	7800	2-24-71	30	11	22.4
LAKE ALPINE	141	7550	2-24-71	70	36	41.3
EAGLE MEADOW	140	7500	2-24-71	53	21	24.6
RELIEF DAM	143	7250	2-24-71	30	12	20.2
TUOLUMNE RIVER						
DANA MEADOWS	157	9850	3- 2-71	89	32	30.1
BOND PASS	159	9300	3- 2-71	100	40	43.5
NEW GRACE MEADOW	368	8900	3- 2-71	90	36	45.1
HORSE MEADOW	162	8400	3- 2-71	96	41	46.6
WILMER LAKE	163	8000	3- 2-71	110	39	43.2
SACHSE SPRINGS	165	7900	3- 2-71	94	38	37.7
HUCKLEBERRY LAKE	166	7800	3- 2-71	83	34	42.9
SPOTTED FAWN	164	7800	3- 2-71	88	37	46.6
PARADISE	167	7700	3- 2-71	86	34	40.2
LOWER KIBBIE RIDGE	173	6700	3- 2-71	78	33	28.2
UPPER KIBBIE RIDGE	168	6700	3- 2-71	68	25	19.8
VERNON LAKE	169	6700	3- 2-71	65	27	24.2
BEEHIVE MEADOW	171	6500	3- 2-71	69	28	26.8
SAN JOAQUIN RIVER						
HUMPHREYS BASIN	509	11600	3- 2-71	38	15	--
EMERALD LAKE	184	10600	3- 2-71	79	29	36.4
PIONEER BASIN	276	10400	3- 2-71	74	28	37.2
ISLAND PASS	504	10300	3- 2-71	69	26	--
BENCH CANYON	506	10200	3- 2-71	62	24	--
HEART LAKE	185	10100	3- 2-71	59	19	28.2
VOLCANIC KNOB	186	10100	3- 2-71	66	22	31.4
ROSE MARIE	187	10000	NO SURVEY MADE			30.0
COLBY MEADOW	188	9700	3- 2-71	46	18	23.2
AGNEW PASS	189	9450	NO SURVEY MADE			31.3
DUTCH LAKE	191	9100	NO SURVEY MADE			27.3
KAISER PASS	190	9100	NO SURVEY MADE			38.2
COYOTE LAKE	192	8850	3- 2-71	76	25	33.4
CORA LAKES	193	8400	3- 2-71	72	31	36.8
STRING MEADOW	508	8400	3- 2-71	68	26	--
TWIN MEADOWS	505	8400	3- 2-71	28	11	--
GREEN MOUNTIAN	571	7900	NO SURVEY MADE			--
CLOVER MEADOW	200	7000	3- 2-71	62	22	23.9
JACKASS MEADOW	201	6950	3- 2-71	52	23	23.8
CHIQUITO CREEK	202	6800	3- 2-71	52	24	21.2
KINGS RIVER						
BISHOP PASS	222	11200	NO SURVEY MADE			31.3
TABOOSE PASS	536	11000	2-26-71	36	15	--
CARDINAL LAKE	513	10900	2-26-71	49	20	--
CHARLOTTE RIDGE	299	10700	2-26-71	55	22	35.1
BENCH LAKE	510	10600	2-26-71	46	19	--
BLACKCAP BASIN	223	10300	NO SURVEY MADE			34.2
KINGS RIVER (CONTINUED)						
STATE LAKES	545	10300	3- 3-71	48	19	--
GRANITE BASIN	546	10000	3- 3-71	75	30	--
MITCHELL MEADOW	511	9900	3- 3-71	69	27	--
RATTLESNAKE CREEK BASI	515	9900	3- 3-71	66	26	--
BEARD MEADOW	225	9800	3- 2-71	58	23	32.8
UPPER BURNT CORRAL MEA	224	9700	NO SURVEY MADE			35.0
SCENIC MEADOW	512	9650	3- 3-71	51	20	--
UPPER WOODCHUCK MEADOW	341	9100	NO SURVEY MADE			33.6
ROUND CORRAL	229	9000	3- 3-71	63	25	34.0
SWAMP MEADOW	228	9000	3- 3-71	81	32	37.6
ROWELL MEADOW	226	8850	3- 3-71	54	19	27.5
WEST WOODCHUCK MEADOW	570	8800	3- 3-71	60	21	--
WOODCHUCK MEADOW	227	8800	3- 3-71	69	25	31.3
HELMS MEADOW	230	8500	3- 3-71	54	20	25.5
LONG MEADOW	232	8500	3- 2-71	58	21	28.7
STATUM MEADOW	233	8300	3- 3-71	63	26	30.8
DODSONS MEADOW	308	8050	3- 3-71	57	22	30.1
HORSE CORRAL MEADOW	237	7600	3- 3-71	36	12	17.6
PATTERSON MOUNTAIN	567	7300	NO SURVEY MADE			--
FRED MEADOW	239	7200	3- 3-71	54	22	21.1
KAWEAH RIVER						
GIANT FOREST	568	6650	NO SURVEY MADE			--
KERN RIVER						
UPPER TYNDALL CREEK	516	11450	3- 3-71	36	13	--
BIGHORN PLATEAU	250	11350	3- 3-71	33	12	23.4
COTTONWOOD PASS	251	11050	NO SURVEY MADE			14.1
SIBERIAN PASS	252	10900	3- 3-71	39	13	18.9
CRABTREE MEADOW	253	10700	3- 3-71	36	12	19.8
GUYOT FLAT	254	10650	3- 3-71	36	13	21.0
SANDY MEADOW	275	10650	NO SURVEY MADE			19.0
TYNDALL CREEK	255	10650	3- 3-71	33	11	18.9
SHOTGUN PASS	517	10400	NO SURVEY MADE			--
CHAGOOPA PLATEAU	514	10300	3- 3-71	33	11	--
BIG WHITNEY MEADOW	257	9750	NO SURVEY MADE			17.6
ROCK CREEK	256	9600	NO SURVEY MADE			17.7
ROUND MEADOW	258	9000	3- 3-71	60	25	25.6
WET MEADOW	518	8950	3- 3-71	48	18	--
RAMSHAW MEADOW	259	8700	3- 3-71	15	5	11.5
LITTLE WHITNEY MEADOW	260	8500	3- 3-71	24	8	14.0
CASA VIEJA MEADOWS	262	8400	3- 3-71	36	15	19.7
QUINN RANGER STATION	264	8350	NO SURVEY MADE			20.4
BONITA MEADOWS	261	8300	3- 3-71	36	13	14.3
MONACHE MEADOWS	263	8000	3- 3-71	24	7	7.9
BEACH MEADOWS	265	7650	3- 3-71	15	5	9.5
LAHONTAN AREA						
CARSON RIVER						
EBBETS PASS	562	8700	2-26-71	79	31	--
UPPER FISH VALLEY	563	8100	2-26-71	30	11	--
WET MEADOWS LAKE	561	8100	2-26-71	52	20	--
WOLF CREEK	560	8000	2-26-71	54	20	--
POISON FLAT	330	7700	2-26-71	28	10	15.6
WALKER RIVER						
CENTER MOUNTIAN	151	9400	3- 2-71	92	33	37.8
LOBDELL LAKE	564	9200	2-26-71	38	14	--
MONO LAKE BASIN						
DONAHUE PASS	522	10800	3- 2-71	52	20	--
ALGER LAKE	521	10600	3- 2-71	48	18	--
SLATE CREEK	520	10300	3- 2-71	69	26	--
SADDLEBAG LAKE	519	10200	NO SURVEY MADE			--
WARREN CREEK	523	10200	3- 2-71	55	21	--
TIOGA PASS	181	9800	3- 2-71	42	16	26.1
OWENS RIVER						
SCHOBER PASS	525	12300	3- 2-71	18	7	--
MOUNT MORGAN	533	12000	2-26-71	54	20	--
PIUTE PASS	565	11700	2-26-71	0	0	--
BIG PINE CREEK BASIN	534	11500	2-26-71	60	23	--
COYOTE RIDGE	527	11500	3- 2-71	102	37	--
LAKE DOROTHY	531	11400	2-26-71	66	26	--
SAWMILL PASS	537	11400	2-26-71	30	12	--
BISHOP LAKE	284	11300	NO SURVEY MADE			21.7
KEARSARGE PASS	539	11300	2-26-71	0	0	--
COTTONWOOD LAKES	541	11200	2-26-71	36	14	--
HORSESHOE MEADOWS	543	11100	2-26-71	24	10	--
DRUNKEN SAILOR	530	11000	3- 2-71	52	20	--
PIUTE LAKE (EAST)	524	11000	NO SURVEY MADE			--
GEORGE LAKE	529	10600	3- 2-71	28	11	--
GOLDEN TROUT CABIN	542	10600	2-26-71	18	7	--
SHEPHERDS PASS	540	10500	2-26-71	66	26	--
TREASURE LAKE	528	10200	3- 2-71	54	20	--
BIG PINE LAKES	535	10100	2-26-71	24	10	--
ROCK CREEK LAKES	532	10000	2-26-71	18	7	--
MAMMOTH PASS	205	9500	2-26-71	96	38	42.1
ONION VALLEY	538	9000	2-26-71	0	0	--

(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 1931-70.

TABLE 4

SUMMARY OF STORAGE IN MAJOR RESERVOIRS

AREA	NUMBER OF RESERVOIRS	TOTAL CAPACITY 1000 AF	AGGREGATE STORAGE AS OF MARCH 1: 10-YEAR AVE 1961-1970 1000 AF	1970 1000 AF	1971 1000 AF	1971 PERCENT OF AVERAGE	1971 PERCENT OF CAPACITY
INTRASTATE							
NORTH COASTAL	4	2713.900	2175.280	2635.120	2386.790	110	88
SAN FRANCISCO BAY	17	620.400	424.650	548.800	505.740	119	82
CENTRAL COASTAL	6	985.700	632.830	665.670	701.750	111	71
SOUTH COASTAL	26	1485.600	524.710	806.140	733.020	140	49
SACRAMENTO VALLEY	34	16005.400	12026.600	12854.720	11920.850	99	74
SAN JOAQUIN VALLEY	27	5925.400	2705.530	3451.160	2914.380	108	49
LAHONTAN	7	348.200	227.290	298.790	243.190	107	70
SUBTOTAL	121	28084.600	18716.880	21260.400	19405.720	104	69
INTERSTATE							
NORTH COASTAL	3	1205.100	592.710	874.150	821.580	139	68
LAHONTAN	3	828.300	451.990	713.620	595.430	132	72
COLORADO DESERT (1)	4	53533.000	26533.170	28441.530	31184.200	118	58
SUBTOTAL (1)	10	55566.400	27577.870	30029.300	32601.210	118	59
TOTAL (1)	131	83651.000	46294.750	51289.700	52006.920	112	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	CAPACITY (1) 1000 AF	STORAGE AS OF MARCH 1: 10-YR AVE 1961-1970 1000 AF	1970 1000 AF	1971 1000 AF	1971 PER-CENT AVE
NORTH COASTAL AREA							
KLAMATH R	UPPER KLAMATH (2)	USBR	584.000	350.430	426.400	387.200	110
	CLEAR LAKE (2)	USBR	526.800	198.310	366.090	354.760	179
	GERBER (2)	USBR	94.300	43.950	81.660	79.620	181
SHASTA R	DWINNELL	MONTAGUE WCD	50.000	33.150	48.700	40.200	121
TRINITY R	CLAIR ENGLE LAKE	USBR	2447.700	2004.660(6)	2444.700	2214.600	109
SOUTH EEL R	LAKE PILLSBURY	PAC GAS AND ELEC CO	93.700	66.380	67.210	66.140	100
RUSSIAN R	LAKE MENDOCINO	US CORPS OF ENGIN	122.500	71.070	74.510	65.850	93
SAN FRANCISCO BAY AREA							
NORTH BAY							
CONN CR	LAKE HENNESSEY	CITY OF NAPA	31.000	30.250	31.000	31.000	102
NICASIO CR	NICASIO	MARIN MWD	22.500	22.290(6)	22.500	22.440	100
LAGUNITAS CR	KENT	MARIN MWD	16.700	14.530	16.680	16.380	113
	ALPINE	MARIN MWD	8.900	7.780	8.900	8.400	108
SOUTH EAST BAY							
SAN PABLO CR	SAN PABLO (3)	EAST BAY MUD	43.200	34.060	39.070	31.890	94
SAN LEANDRO CR	U SAN LEANDRO (3)	EAST BAY MUD	41.400	35.860	41.580	38.160	106
	CHABOT(3)	EAST BAY MUD	12.600	9.870	10.450	10.380	105
BEAR CR	BRIONES (3)	EAST BAY MUD	60.400	34.750(6)	52.010	58.120	166
SAN ANTONIO CR	SAN ANTONIO	CITY CO SAN FRANCISCO	50.500	32.150(6)	34.650	30.530	94
COYOTE CR	COYOTE	SANTA CLARA VALLEY WC	24.500	14.720	23.520	21.200	144
	LEROY ANDERSON	SANTA CLARA VALLEY WC	93.100	31.000	78.460	68.870	222
LOS GATOS CR	LEXINGTON	SANTA CLARA VALLEY WC	21.400	11.970	17.870	10.580	88
	AUSTRIAN	SAN JOSE WATER WORKS	6.200	4.490	6.200	5.540	123
CALAVERAS CR	CALAVERAS (3)	CITY CO SAN FRANCISCO	100.000	73.200	94.760	84.430	115
PENINSULA							
SAN ANDREAS CR	SAN ANDREAS	CITY CO SAN FRANCISCO	18.500	16.960	16.790	17.930	106
LAGUNA CR	UPPER AND LOWER						
SAN MATEO CR	CRYSTAL SPRINGS(3)	CITY CO SAN FRANCISCO	69.500	50.690	54.340	49.890	98
CENTRAL COASTAL AREA							
SALINAS R	SANTA MARGARITA LK	SAN LUIS OBISPO CITY	26.000	22.590	22.370	24.050	106
	SAN ANTONIO	MONTEREY CO FCWCD	350.000	212.470(6)	309.130	276.300	129
	NACIMIENTO	MONTEREY CO FCWCD	350.000	187.890	99.580	168.180	90
SANTA YNEZ R	GIBRALTAR	SANTA BARBARA CITY	14.800	10.480	9.740	9.040	86
	CACHUMA	USBR	204.900	182.280	188.950	187.500	103
OLD CR	WHALE ROCK	SAN LUIS OBISPO CITY	40.000	17.090(6)	35.900	36.680	214

TABLE 5 - STORAGE IN MAJOR RESERVOIRS (CONTINUED)

AREA AND DRAINAGE BASIN	RESERVOIR	OPERATOR	CAPACITY (1) 1000 AF	STORAGE AS OF MARCH 1 10-YR AVE 1961-1970 1000 AF	1970 1000 AF	1971 1000 AF	1971 PER-CENT AVE
SOUTH COASTAL AREA							
VENTURA-SANTA CLARA RIVERS							
COYOTE CR	CASITAS	VENTURA R MWD	254.000	100.420(6)	209.780	214.520	213
PIRU CR	LAKE PIRU	UNITED WCD CONS DIST	101.200	39.630	58.980	53.370	135
MATILIJA CR	MATILIJA	VENTURA CO FCD	3.500	3.170	1.800	0.630	20
SAN GABRIEL-SANTA ANA RIVERS							
SAN GABRIEL R	COGSWELL	LA CO FCD	10.900	2.840	4.850	2.840	100
	SAN GABRIEL	LA CO FCD	43.800	8.320	3.150	5.850	70
BEAR CR	BEAR VALLEY	BEAR V MUT WATER CO	72.200	24.620	63.380	62.120	252
TRIB, CAJALCO CR	LAKE MATHEWS (4)	METROPOLITAN WD	182.000	167.300(6)	169.740	172.500	102
SAN JACINTO R	LAKE HEMET	LAKE HEMET WATER CO	13.400	5.170	10.430	8.310	161
	RAILROAD CANYON (3)	TEMESCAL WATER CO	14.700	4.510	7.270	8.340	185
SANTIAGO CR	SANTIAGO (3)	SERRANO AND CARPENTER ID AND IRVINE CO	25.000	12.130	17.350	7.570	62
	VILLA PARK	ORANGE COUNTY FCD	15.600	0.500(6)	0.170	0.180	34
SANTA MARGARITA-SAN LUIS REY RIVERS							
TEMECULA CR	VAIL	VAIL COMPANY	49.500	9.770	30.170	26.800	274
SAN LUIS REY R	HENSHAW	VISTA ID	194.300	13.890	29.200	11.870	85
SAN DIEGUITO-SAN DIEGO RIVERS							
SAN DIEGUITO R	LAKE HODGES (3)	CITY OF SAN DIEGO	33.600	5.860	10.200	1.350	23
SAN YSABEL CR	SUTHERLAND	CITY OF SAN DIEGO	29.700	4.130	2.850	3.000	73
SAN VICENTE CR	SAN VICENTE (3)	CITY OF SAN DIEGO	90.200	65.710	65.100	66.380	101
SAN DIEGO R	EL CAPITAN (3)	CITY OF SAN DIEGO	112.800	22.240	58.620	27.650	124
BOULDER CR	CUYAMACA	HELIX ID	11.800	1.360	0.820	1.190	87
QUAIL CANYON CR	LAKE JENNINGS (3)	HELIX ID	9.800	5.870(6)	7.880	8.020	135
CHAPPAREL CANYON	MURRAY (3)	CITY OF SAN DIEGO	5.700	3.320	1.590	3.890	117
SWEETWATER-OTAY RIVERS - COTTONWOOD CR							
SWEETWATER R	LAKE LOVELAND	CALIF WATER AND TEL C	25.400	3.780	15.360	15.760	416
	SWEETWATER MAIN (3)	CALIF WATER AND TEL C	27.700	3.080	2.150	2.840	92
OTAY R	LOWER OTAY (3)	CITY OF SAN DIEGO	56.500	7.170	17.430	16.190	226
COTTONWOOD CR	MORENA	CITY OF SAN DIEGO	50.200	1.470	4.550	3.900	264
	BARRETT	CITY OF SAN DIEGO	44.800	2.870	7.600	1.490	52
SOLEDAD VALLEY							
BIG SURR CR	MIRAMAR (3)	CITY OF SAN DIEGO	7.300	5.410(6)	5.720	6.460	118
CENTRAL VALLEY AREA							
SACRAMENTO R	SHASTA	USBR	4500.000	3401.980	3408.700	3439.600	101
	WHISKEYTOWN	USBR	241.100	207.010(6)	243.000	202.300	97
FEATHER R	LAKE ALMANOR	PAC GAS AND ELEC CO	1035.500	679.140(6)	914.700	726.620	106
	BUTT VALLEY	PAC GAS AND ELEC CO	49.900	39.720	41.470	32.160	81
	BUCKS STORAGE	PAC GAS AND ELEC CO	101.700	59.000	84.960	38.660	66
	FRENCHMAN	DWR - STATE OF CALIF	55.400	44.120(6)	56.430	48.170	108
	LAKE DAVIS	DWR - STATE OF CALIF	84.400	72.870(6)	88.910	72.270	98
	LITTLE GRASS VALLEY	OROVILLE WYANDOTTE ID	93.000	71.650(6)	75.700	63.000	87
	SLY CREEK	OROVILLE WYANDOTTE ID	65.000	40.310(6)	54.800	18.600	45
	LAKE OROVILLE	DWR - STATE OF CALIF	3538.000	2773.050(6)	2789.500	3091.500	110
YUBA R	NEW BULLARDS BAR	YUBA CO WATER AGENCY	930.000	881.990(6)	881.990	442.460	49
	JACKSON MEADOWS	NEVADA ID	68.700	36.580(6)	54.520	40.720	110
	BOWMAN LAKE	NEVADA ID	69.800	36.880	63.080	34.950	95
	SPAULDING SYSTEM	PAC GAS AND ELEC CO	137.400	56.630	86.850	29.440	52
	SCOTT FLAT	NEVADA ID	48.500	36.620	48.550	48.550	133
BEAR R	ROLLINS	NEVADA ID	66.000	60.070(6)	65.990	65.990	109
	CAMP FAR WEST	SO SUTTER WATER DIST	104.400	102.570(6)	106.500	105.500	102
AMERICAN R	FRENCH MEADOWS	PLACER CO WATER AGENC	133.700	82.220(6)	90.970	43.800	52
	LOWER HELL HOLE	PLACER CO WATER AGENC	208.400	118.470(6)	142.900	43.660	36
	LOON LAKE	SACRAMENTO MUD	76.500	25.730(6)	30.400	18.180	70
	TWIN LAKES	PAC GAS AND ELEC CO	21.600	7.860	9.650	6.690	85
	UNION VALLEY	SACRAMENTO MUD	271.000	142.210(6)	211.250	120.560	84
	ICE HOUSE	SACRAMENTO MUD	46.000	21.640	36.000	18.450	85
	FOLSOM	USBR	1010.300	586.640	620.200	568.500	97
STONY CR	EAST PARK	USBR	50.900	45.790	48.640	48.440	106
	STONY GORGE	USBR	50.000	45.610	44.030	49.280	108
	BLACK BUTTE	US CORPS OF ENGIN	160.000	53.300(6)	35.590	87.790	164
CACHE CR	CLEAR LAKE	CLEAR LAKE WATER CO	314.000	295.980	318.350	270.100	91
PUTAH CR	BERRYESSA	USBR	1602.300	1497.030	1606.300	1608.270	107
COSUMNES R	JENKINSON LAKE	USBR	41.000	35.180	41.160	36.840	105

TABLE 5 - STORAGE IN MAJOR RESERVOIRS (CONTINUED)

AREA AND DRAINAGE BASIN	RESERVOIR	OPERATOR	CAPACITY (1) 1000 AF	STORAGE AS OF MARCH 1: 10-YR AVE 1961-1970 1000 AF	1970 1000 AF	1971 1000 AF	1971 PER-CENT AVE
CENTRAL VALLEY AREA (CONTINUED)							
MOKELUMNE R	LOWER BEAR	PAC GAS AND ELEC CO	48.500	15.920	38.100	9.440	59
	SALT SPRINGS	PAC GAS AND ELEC CO	140.900	36.570	94.320	15.130	41
	PARDEE	EAST BAY MUD	210.000	177.680	187.740	176.250	99
	CAMANCHE	EAST BAY MUD	431.500	238.390(6)	233.470	298.980	124
CALAVERAS R	NEW HOGAN	US CORPS OF ENGIN	325.000	183.900(6)	172.630	166.470	90
STANISLAUS R	RELIEF	PAC GAS AND ELEC CO	15.600	3.490	4.530	6.260	179
	DONNELLS	OAKDALE-SO SAN JOAQ I	64.700	21.320	11.410	6.880	32
	HARTLEY LAKE	OAKDALE-SO SAN JOAQ I	98.300	49.940	78.430	36.120	72
	STRAWBERRY	PAC GAS AND ELEC CO	18.300	8.420	13.300	4.910	58
	MELONES	PAC GAS AND ELEC CO	112.600	77.750	103.820	36.250	47
	TULLOCH	OAKDALE-SO SAN JOAQ I	68.200	47.540	56.280	36.680	77
TUOLUMNE R	HETCH HETCHY	CITY CO SAN FRANCISCO	360.400	130.170	249.680	134.180	103
	CHERRY LAKE	CITY CO SAN FRANCISCO	268.200	93.200	190.600	89.410	96
	LAKE ELEANOR	CITY CO SAN FRANCISCO	26.100	9.700	23.360	0.000	0
	DON PEDRO	TURLOCK AND MODESTO I	290.400	170.160	159.020	314.480	185
	TURLOCK LAKE	TURLOCK ID	49.000	35.380	32.730	34.400	97
	MODESTO	MODESTO ID	27.000	13.980	7.360	11.900	85
MERCED R	LAKE MCCLURE	MERCED ID	1026.000	537.050(6)	669.500	589.900	109
SAN JOAQUIN R	FLORENCE LAKE	SO CALIF EDISON CO	64.600	0.370	0.350	0.340	92
	THOMAS A EDISON	SO CALIF EDISON CO	125.200	32.290	30.360	35.760	111
	MAMMOTH POOL	SO CALIF EDISON CO	122.700	27.690	10.100	19.740	71
	HUNTINGTON LAKE	SO CALIF EDISON CO	89.800	45.320	66.030	49.180	108
	SHAVER LAKE	SO CALIF EDISON CO	135.400	32.110	60.050	32.390	101
	CRANE VALLEY	PAC GAS AND ELEC CO	45.400	27.800	30.890	18.480	66
	MILLERTON LAKE	USBR	520.600	347.010	387.200	375.800	108
KINGS R	COURTRIGHT	PAC GAS AND ELEC CO	129.900	41.130	8.110	3.950	10
	WISHON	PAC GAS AND ELEC CO	128.600	22.230	24.140	10.850	49
	PINE FLAT	US CORPS OF ENGIN	1013.400	531.700	769.500	700.700	132
KERN R	ISABELLA	US CORPS OF ENGIN	570.000	167.190	256.730	173.550	104
KAWEAH R	TERMINUS	US CORPS OF ENGIN	150.000	21.950(6)	9.600	7.850	35
TULE R	SUCCESS	US CORPS OF ENGIN	80.000	26.570(6)	25.450	17.950	67
LAHONTAN AREA							
TRUCKEE R	LAKE TAHOE(2,7)	TRUCKEE-CARSON ID	744.600	412.830	646.200	526.000	127
	BOCA (2)	WASHOE CO WCD	41.200	8.890	27.300	32.430	365
EAST WALKER R	BRIDGEPORT (2)	WALKER RIVER ID	42.500	30.260	40.120	37.000	122
MONO LAKE BASIN	SADDLEBAG LAKE	SO CALIF EDISON CO	11.100	3.080	3.530	2.440	79
	GEM LAKE	SO CALIF EDISON CO	17.600	3.540	3.540	5.020	141
	GRANT LAKE	CITY OF LOS ANGELES	47.500	33.130	44.710	24.840	75
OWENS R	SOUTH LAKE	SO CALIF EDISON CO	13.400	3.650	5.020	2.170	59
	LAKE CROWLEY	CITY OF LOS ANGELES	183.500	132.570	176.690	150.760	114
	TINEMAHA	CITY OF LOS ANGELES	16.600	5.930	9.660	11.150	188
	HAIWEE (SOUTH)	CITY OF LOS ANGELES	58.500	45.350	55.640	46.810	103
COLORADO DESERT AREA							
COLORADO R	LAKE POWELL (2,7)	USBR	25002.000	7912.000(6)	9439.000	12414.000	156
	LAKE MEAD (2,7)	USBR	26102.000	16408.800	16853.000	16523.000	101
	LAKE MOJAVE (2,7)	USBR	1810.000	1678.710	1616.200	1699.800	101
	LAKE HAVASU (2,7)	USBR	619.000	533.640	533.330	547.400	103

(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)	FEBRUARY 1971 MEASURED FLOW 1000 AF	FEBRUARY 1971 UNIMPAIRED RUNOFF 50-YEAR AVE (2) 1000 AF	FEBRUARY 1971 UNIMPAIRED RUNOFF MONTHLY TOTAL 1000 AF	FEBRUARY 1971 UNIMPAIRED RUNOFF PER-CENT AVE	OCTOBER 1, 1970 - FEBRUARY 28, 1971 MEASURED FLOW 1000 AF	OCTOBER 1, 1970 - FEBRUARY 28, 1971 UNIMPAIRED RUNOFF 50-YEAR AVE (2) 1000 AF	OCTOBER 1, 1970 - FEBRUARY 28, 1971 UNIMPAIRED RUNOFF SEASONAL TOTAL 1000 AF	OCTOBER 1, 1970 - FEBRUARY 28, 1971 UNIMPAIRED RUNOFF PER-CENT AVE
NORTH COASTAL AREA								
KLAMATH, COPCO TO ORLEANS (6)	689.300	607.660	709.800	117	4204.200	2036.440	4338.400	213
SALMON AT SOMESBAR	164.300	157.860	164.300	104	1250.900	529.480	1250.900	236
TRINITY AT LEWISTON	8.300	149.360	151.300	101	54.000	430.980	704.700	164
EEL AT SCOTIA	247.400	1176.630	264.400	22	5717.500	3683.630	5838.100	158
RUSSIAN AT HEALDSBURG	42.700	185.840	33.300	18	825.100	580.880	754.100	130
SAN FRANCISCO BAY AREA								
NAPA NEAR ST HELENA	2.300	16.030	2.300	14	73.190	48.790	73.190	150
COYOTE CREEK NEAR MADRONE	0.420	12.880	0.720	6	7.290	28.920	17.940	62
CENTRAL COASTAL AREA								
ARROYO SECO NEAR SOLEDAD	4.330	30.590	4.330	14	49.280	64.110	49.280	77
NACIMIENTO BELOW NACIMIENTO DAM, NEAR BRADLEY	0.670	58.320	4.990	9	16.580	126.710	113.560	90
SOUTH COASTAL AREA								
SESPE CREEK NEAR FILLMORE	5.220(3)	21.310	5.220	24	55.490(3)	44.060	55.490	126
ARROYO SECO NEAR PASADENA	0.430	1.500	0.430	29	2.340	3.570	2.340	65
SANTA ANA NEAR MENTONE	3.230(4)	8.210	3.440	42	17.700(4)	22.900	18.920	83
SACRAMENTO VALLEY AREA								
INFLOW TO SHASTA (7)	558.500	795.000	558.500	70	3493.000	2557.940	3493.000	137
SACRAMENTO ABOVE BEND BRIDGE (8)	781.800	1274.680	765.600	60	2368.800	3934.880	5493.100	140
FEATHER, INFLOW TO OROVILLE	108.300	540.750	379.300	70	1334.300	1660.510	1832.400	110
YUBA AT SMARTVILLE (5)	192.300	286.650	210.300	73	1019.900	848.970	1023.800	121
AMERICAN, INFLOW TO FOLSOM	188.700	309.170	199.700	65	1273.800	877.560	960.200	109
COSUMNES AT MICHIGAN BAR	26.940	62.870	32.020	51	153.170	150.710	166.850	111
MOKELUMNE, INFLOW TO PARDEE	56.800	55.740	48.600	87	272.500	160.760	185.400	115
SAN JOAQUIN VALLEY AREA								
STANISLAUS, INFLOW TO MELONES	71.500	84.670	73.200	86	281.900	236.550	277.200	117
TUOLUMNE, INFLOW TO DON PEDRO	91.000	140.290	96.500	69	362.700	398.790	426.100	107
MERCED, INFLOW TO EXCHEQUER	27.200	79.830	39.500	49	128.300	208.050	163.200	78
SAN JOAQUIN, INFLOW TO MILLERTON	1.900	95.080	70.800	74	12.000	273.570	267.300	98
KINGS, INFLOW TO PINE FLAT	18.900	80.430	56.100	70	52.500	237.570	212.800	90
KAWEAH, INFLOW TO TERMINUS	18.100	29.530	17.900	61	62.600	84.390	62.900	75
TULE, INFLOW TO SUCCESS	0.500	19.000	9.400	49	28.300	48.360	34.700	72
KERN NEAR BAKERSFIELD	35.100	39.200	30.900	79	116.400	136.410	128.600	94
LAHONTAN AREA								
TRUCKEE, TAHOE TO FARAD (6)	42.300	20.620	15.000	73	174.500	74.840	78.700	105
WEST FORK CARSON AT WOODFORDS	2.900	2.620	2.900	111	10.900	11.750	10.900	93
EAST FORK CARSON NEAR GARDNERVILLE	12.400	9.800	12.400	127	45.500	39.710	45.500	115
WEST WALKER BELOW LITTLE WALKER, NEAR COLEVILLE	5.800	3.600	5.800	161	22.400	17.810	22.400	126
EAST WALKER NEAR BRIDGEPORT	0.500	5.920	6.500	110	6.320	25.490	28.320	111
OWENS BELOW LONG VALLEY DAM	6.900	10.170	8.080	79	86.290	50.950	52.150	102
COLORADO DESERT AREA								
COLORADO, INFLOW TO LAKE POWELL	401.000	370.720	458.000	124	2501.000	1982.040	2413.000	122

(1) RESERVOIR INFLOW DATA ARE BASED ON OBSERVED FLOWS AT STATIONS DOWNSTREAM FROM LISTED FACILITY.
(2) COMPUTED FOR 50 YEAR PERIOD, 1920-21 THROUGH 1969-70.
(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.