CALIFORNIA COOPERATIVE SNOW SURVEYS

STATE OF CALIFORNIA

The Resources Agency

Department of Water Resources

BULLETIN No. 120-69

WATER CONDITIONS IN CALIFORNIA

Special Supplement

JUNE 1969

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Secretary for Resources
The Resources Agency

RONALD REAGAN
Governor
State of California

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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, 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."

THIS SPECIAL SUPPLEMENT IS PUBLISHED AS A RESULT OF THE INTEREST GENERATED BY THE EXTREMELY HEAVY SNOWPACK THAT ACCUMULATED IN MOUNTAINOUS WATERSHEDS THROUGHOUT CALIFORNIA AND WHICH FAR SURPASSED ANY PREVIOUSLY RECORDED IN SOUTHERN SAN JOAQUIN VALLEY BASINS. WHILE EMPHASIS IS DIRECTED TO THE SNOWMELT WATERSHEDS OF THE CENTRAL VALLEY, THE TABULATED PRECIPITATION AND RUNOFF DATA ARE STATEWIDE IN SCOPE.

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, 1931-1965 (35 YEARS).

PRECIPITATION - AVERAGES ARE BASED ON THE PERIOD, 1931-1965 (35 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, 1916-1965 (50 YEARS).

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

Runoff from the snow zone is exceptionally high this year, as indicated in this picture of the South Fork Yuba River near Cisco Grove. Last winter's heavy snowpack has resulted in record snowmelt runoff from many Sierra watersheds.

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
- U. S. DEPARTMENT OF COMMERCE - WEATHER BUREAU
- 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
- 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
- SAUSALITO 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
- TAHOE PARADISE COLLEGE
- UNION CARBIDE CORPORATION

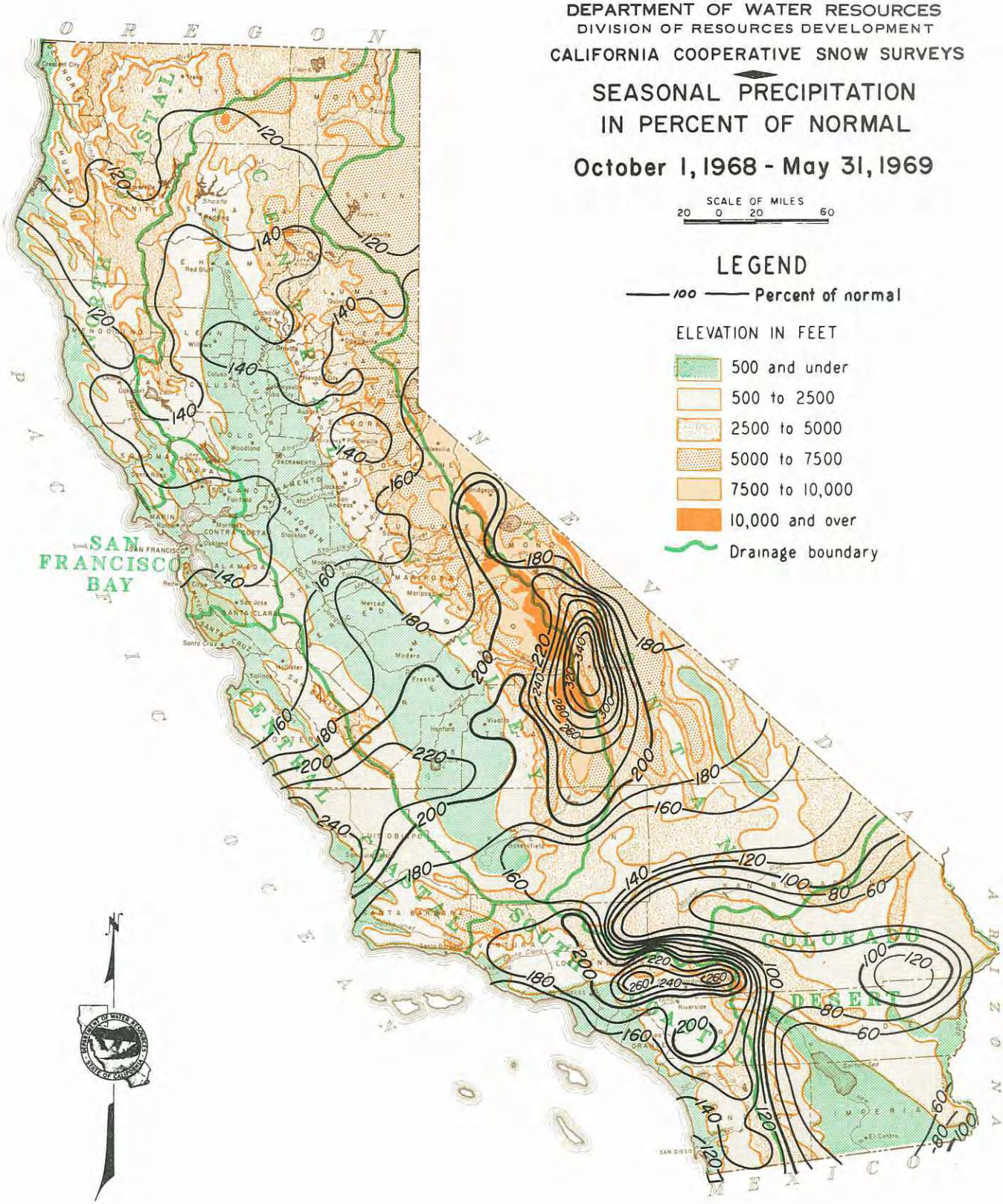
OTHER COOPERATIVE PROGRAMS

- NEVADA COOPERATIVE SNOW SURVEYS
- OREGON COOPERATIVE SNOW SURVEYS

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES DEVELOPMENT
CALIFORNIA COOPERATIVE SNOW SURVEYS

SEASONAL PRECIPITATION IN PERCENT OF NORMAL

October 1, 1968 - May 31, 1969

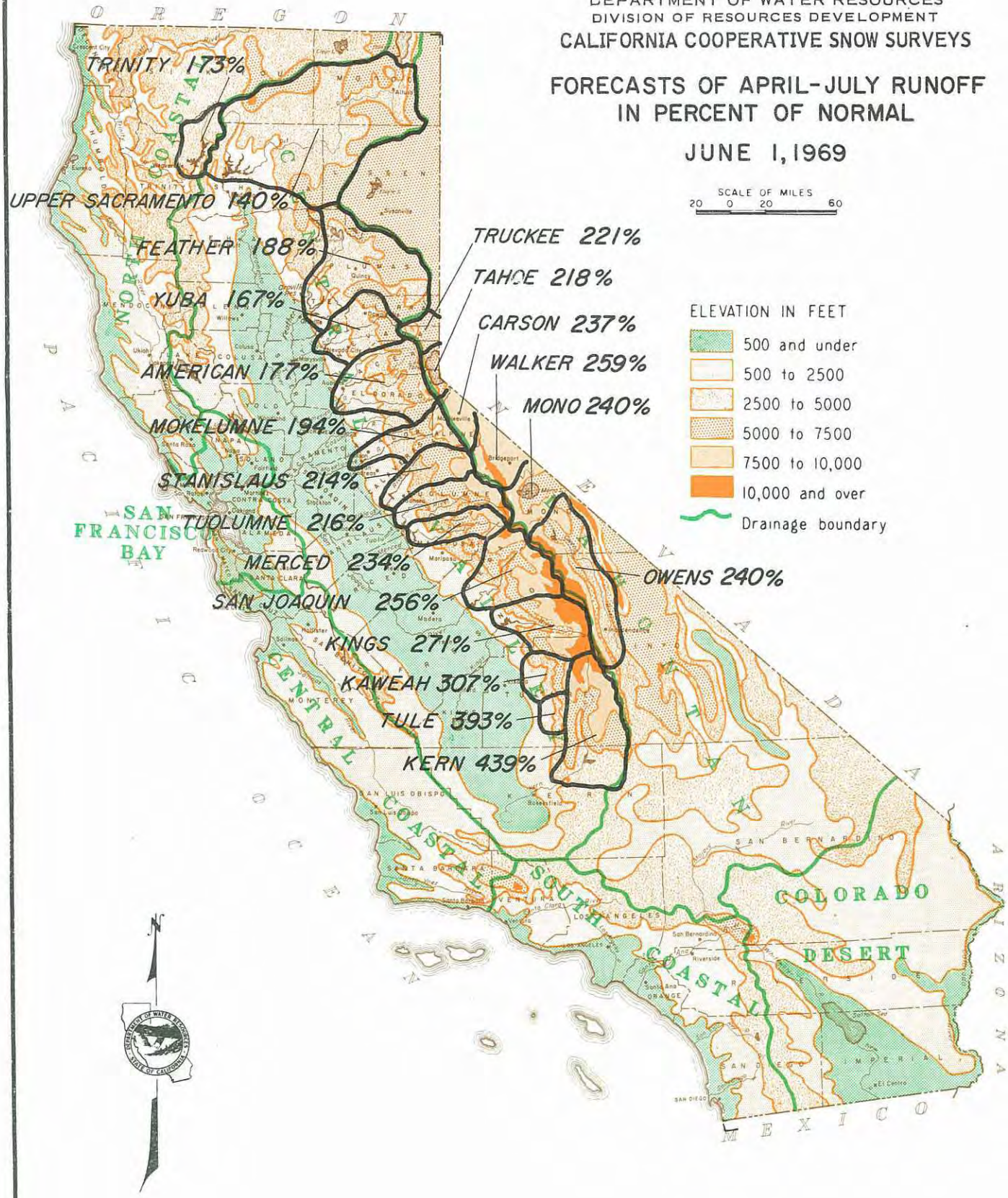


STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES DEVELOPMENT

CALIFORNIA COOPERATIVE SNOW SURVEYS

FORECASTS OF APRIL-JULY RUNOFF IN PERCENT OF NORMAL

JUNE 1, 1969



SUMMARY OF WATER CONDITIONS

THE WETTEST YEAR IN RECENT CALIFORNIA HISTORY CONTINUES TO PRODUCE RECORD-BREAKING STREAMFLOWS. THE RESIDUAL SNOWMELT FROM LAST WINTER'S RECORD PACK IS SUSTAINING HIGH STREAMFLOWS IN THE NORTHERN PORTION OF THE STATE AND PROLONGING FLOOD CONTROL PROBLEMS IN THE HARDER HIT SAN JOAQUIN VALLEY AREAS SERVED FROM CENTRAL AND SOUTHERN SIERRA WATERSHEDS.

COMPREHENSIVE SUPPLEMENTARY SNOW SURVEYS HAVE BEEN MADE THIS YEAR, BEGINNING IN MID-APRIL. THE JUNE 1 MEASUREMENTS IN THE SOUTHERN SIERRA INDICATE THAT A SUBSTANTIAL SNOW COVER REMAINS AT HIGH ELEVATIONS WITH MANY COURSES RETAINING WATER CONTENT IN EXCESS OF THEIR APRIL 1 AVERAGES. HERE, RECORD SNOWMELT RUNOFF VOLUMES WERE EXPERIENCED DURING MAY AND PEAK RECORDS WERE EXCEEDED AS TEMPERATURES CONTINUED TO REMAIN ABOVE-NORMAL DURING THE MONTH.

FORTUNATELY, MAY PRECIPITATION WAS FAR BELOW-NORMAL IN MOST AREAS. ALSO, AS STREAMFLOW INCREASED STEADILY TOWARD RECORD PEAKS, A COOLING TREND DEVELOPED IN EARLY JUNE WHICH MODIFIED THE RUNOFF RATES. THIS PROVIDED VALUABLE TIME TO SAN JOAQUIN VALLEY WATER MANAGERS WHO ARE NOW INVOLVED IN A DELICATE WATER REGULATION EFFORT TO MINIMIZE DAMAGES FROM LOWLAND FLOODING.

FORECASTS OF RUNOFF VOLUMES ARE BEING REVIEWED AND UPDATED CONTINUOUSLY IN A COORDINATED EFFORT BY LOCAL, STATE, AND FEDERAL AGENCIES TO RETAIN MAXIMUM REGULATORY FLEXIBILITY IN THE FLOOD AFFECTED AREAS. UPDATED FORECASTS BASED ON THE LATEST SNOW SURVEY AND RELATED DATA ARE CONTAINED IN THIS REPORT.

THIS YEAR'S RECORD SNOWPACK WILL EXTEND THE RUNOFF PERIOD THROUGHOUT THE SUMMER IN MOST SAN JOAQUIN VALLEY WATERSHEDS. THIS WILL PROVIDE WATER USERS WITH AMPLE SUPPLIES DURING THE IRRIGATION SEASON AND VIRTUALLY ASSURES AN UMPRECEDENTED AMOUNT OF CARRYOVER STORAGE IN SAN JOAQUIN VALLEY RESERVOIRS AT THE END OF THE WATER YEAR. THROUGHOUT THE STATE, CALIFORNIA'S RESERVOIRS ARE HOLDING RECORD AMOUNTS OF WATER WITH 120 OF THE MAJOR RESERVOIRS NOW STORING 24,214,000 ACRE-FEET OR 89 PERCENT OF THEIR AGGREGATE CAPACITY.

THIS YEAR, THE DEPARTMENT OF WATER RESOURCES IN COOPERATION WITH THE U. S. WEATHER BUREAU INITIATED A PROGRAM OF RELEASING, DURING THE SNOWMELT PERIOD, SEMIWEEKLY FORECASTS OF RUNOFF FOR THE MAJOR SNOWMELT STREAMS OF CALIFORNIA. THESE FORECASTS, WHICH COVER THE 30-DAY PERIOD FOLLOWING THE DATE OF THE FORECAST, PRESENT THE MOST PROBABLE FLOWS FOR EACH OF THE NEXT FIVE DAYS AND THE MAXIMUM, MINIMUM, AND MOST PROBABLE FLOWS FOR EACH SUCCESSIVE 5-DAY PERIOD REQUIRED TO COMPLETE THE 30-DAY SPAN. (SEE EXAMPLE ON PAGE 46.)

ENGINEERING CONSULTANTS DEVISED FOR THE DEPARTMENT A SOPHISTICATED AND COMPREHENSIVE COMPUTER MODEL OF THE KINGS RIVER BASIN WHICH HAS BEEN EXTREMELY VALUABLE IN ANALYSES OF THIS SEASON'S RECORD RUNOFF. BASICALLY, THIS IS A TOOL WITH WHICH THE FORECASTER CAN OBTAIN THE HYDROGRAPH GENERATED BY TEMPERATURE REGIMES OF ANY PARTICULAR YEAR ACTING ON A SPECIFIC FORECASTED SUPPLY. HOPEFULLY, SIMILAR MODELS WILL BECOME AVAILABLE FOR OTHER MAJOR SNOWMELT BASINS IN THE NEAR FUTURE.

THE DATA CONTAINED IN THIS SPECIAL SUPPLEMENT HAVE BEEN COLLECTED BY MANY OF THE AGENCIES ACTIVE IN THE CALIFORNIA COOPERATIVE SNOW SURVEYS PROGRAM. THIS SUMMARY OF DATA IS PROVIDED TO DOCUMENT THE WATER SUPPLY CONDITIONS DURING THIS EXCEPTIONAL YEAR SO THAT AN ADDITIONAL GUIDE WILL BE AVAILABLE IN THE FUTURE WHEN SIMILAR CONDITIONS OCCUR.

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
SACRAMENTO RIVER BASIN					
Upper Sacramento River					
Pit River inflow to Shasta Lake	1,012	1,796	480	1,450	143
McCloud River inflow to Shasta Lake	416	850	194	530	127
Sacramento River inflow to Shasta Lake	281	636	39	450	160
Total inflow to Shasta Lake	1,750	3,064	726	2,450	140
Sacramento River near Red Bluff	2,400	4,611	943	3,200	133
Feather River					
Inflow to Lake Almanor (nr Prattville)	323	675	120		
North Fork at Pulga	1,016	2,416	254		
Middle Fork near Clio	84	518	8		
South Fork at Enterprise	107	267	19		
Total inflow to Oroville Reservoir	1,861	4,676	396	3,500	188
Yuba River					
North Fork below Goodyears Bar	288	647	68		
Combined inflow to Jackson Mdw. and Bowman Reservoirs	108	236	37		
South Fork at Langs Crossings	231	481	74		
Yuba River at Smartville	1,090	2,424	239	1,820	167
American River					
North Fork at North Fork Dam	262	716	48		
Middle Fork near Auburn	550	1,406	117		
Silver Creek below Camino Diversion Dam	179	383	43		
Total inflow to Folsom Reservoir	1,329	3,074	257	2,350	177
Sacramento River at Sacramento					
Cosumnes River					
Cosumnes River at Michigan Bar	128	361	12	250	195
Mokelumne River					
North Fork near West Point	418	829	143		
Total inflow to Pardee Reservoir	464	1,065	127	900	194
SAN JOAQUIN RIVER BASIN					
Stanislaus River					
Middle Fork at Sand Bar Flat near Avery	337	702	83		
Total inflow to Melones Reservoir	711	1,710	167	1,520	214
Tuolumne River					
Cherry Creek and Eleanor Creek near Hetch Hetchy	304	560	102		
Tuolumne River near Hetch Hetchy	592	1,392	215		
Total inflow to Don Pedro Reservoir	1,179	2,609	385	2,550	216
Merced River					
Merced River at Pohono Bridge	356	888	121		
Total inflow to Exchequer	599	1,491	175	1,400	234
San Joaquin River					
South Fork near Florence Lake	187	511	58		
Big Creek below Huntington Lake	86	264	19		
San Joaquin River at Mammoth Pool	949	2,218	254		
Total inflow to Millerton Lake	1,173	3,355	310	3,000	256
San Joaquin River near Vernalis					
TULARE LAKE BASIN					
Kings River					
North Fork near Cliff Camp	228	478	50		
Total inflow to Pine Flat Reservoir	1,143	2,959	280	3,100	271
Kaweah River					
Total inflow to Terminus Reservoir	261	814	69	800	307
Tule River					
Total inflow to Success Reservoir	56	169	2	215	384
Kern River					
Kern River near Kernville	336	952	75		
Total inflow to Isabella Reservoir	410	1,086	84	1,800	439

* Maximum of Record

CENTRAL VALLEY STREAMS

Water Year --- in 1,000 Acre-Feet										
HISTORICAL			1968-69 TO DATE			FORECASTS				
50-Year Average	Maximum of Record	Minimum of Record	October Through March	April	May	June	July	August and September	Water Year Forecast	Percent of Average
2,848	4,698	1,484	2,061	648	444	--	--	--	3,820	134
1,215	2,353	632	774	206	175	--	--	--	1,430	118
761	1,767	171	536	204	182	--	--	--	1,020	134
5,318	9,700	2,479	4,589	1,090	815	330	215	481	7,520	141
7,690	15,121	3,294	7,775	1,480	1,071	--	--	--	11,500	150
716	1,269	396	--	--	--	--	--	--	--	--
125	4,400	819	--	--	--	--	--	--	--	--
197	637	41	--	--	--	--	--	--	--	--
253	562	67	--	--	--	--	--	--	--	--
4,159	9,492	1,295	3,540	1,195	1,340	670	295	220	7,260	175
516	1,056	162	--	--	--	--	--	--	--	--
86	292	60	--	--	--	--	--	--	--	--
335	565	114	--	--	--	--	--	--	--	--
2,226	4,544	603	1,834	510	781	400	130	75	3,730	168
537	1,234	110	--	--	--	--	--	--	--	--
996	2,575	283	--	--	--	--	--	--	--	--
291	537	83	--	--	--	--	--	--	--	--
2,525	5,787	543	2,188	658	957	590	145	52	4,590	182
										165
339	876	40	469	117	83	40	10	1	720	212
577	1,009	197	--	--	--	--	--	--	--	--
690	1,692	190	440	209	381*	250	60	20	1,360	197
452	929	128	--	--	--	--	--	--	--	--
1,057	2,834	261	772	334	616*	450	120	38	2,320	220
420	740	158	--	--	--	--	--	--	--	--
726	1,661	265	--	--	--	--	--	--	--	--
1,741	3,756	546	1,235	450	910*	850	340	135	3,920	225
431	1,020	145	--	--	--	--	--	--	--	--
897	2,126	252	788	267	573*	460	100	42	2,230	249
225	653	71	--	--	--	--	--	--	--	--
99	298	22	--	--	--	--	--	--	--	--
1,225	2,964	361	--	--	--	--	--	--	--	--
1,617	4,368	444	965	464	1,096*	1,000	440	165	4,130	255
										240
261	542	58	--	--	--	--	--	--	--	--
1,530	3,857	392	867	398	1,117*	1,150	435	163	4,130	270
383	1,105	102	412	148	282*	280	90	38	1,250	326
124	364	19	266	82	73*	50	10	9	490	395
491	1,388	147	--	--	--	--	--	--	--	--
604	1,393	175	423	336	594*	530	340	177	2,400	397

TABLE 2

SNOW COURSE DATA, APRIL - JUNE 1969

AREA, DRAINAGE BASIN, AND SNOW COURSE	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
NORTH COASTAL AREA																						
SHASTA RIVER																						
PARKS CREEK	1	6700	1936	34.0	3-26	131.2	56.3															
LITTLE SHASTA	2	6200	1946	20.0	3-31	60.4	26.6															
SWEETWATER	3	5850	1936	13.9	3-26	68.7	27.2															
SCOTT RIVER																						
MIDDLE BOULDER 1	5	6600	1946	30.5	3-26	99.2	45.6				5- 1	68.2	35.0									
MIDDLE BOULDER 3	311	6200	1948	26.2	3-26	99.1	45.6				5- 1	63.0	32.6									
ETNA MOUNTAIN	4	5900	1951	34.0	3-27	140.5	64.0															
MARBLE VALLEY	278	5900	1951	46.0	3-26	147.9	67.1															
DYNAMITE MEADOW	298	5700	1955	16.6	3-26	88.5	38.8				5- 1	50.0	25.0									
SWAMPY JOHN	285	5500	1951	37.2	3-27	142.6	64.8				4-28	115.6	58.2				5-28	29.8	16.2			
TRINITY RIVER																						
DEADFALL LAKES	9	7200	1946	31.6	3-26	113.3	51.7															
RED ROCK MOUNTAIN	10	6700	1946	42.2	3-26	152.1	66.7				4-28	114.5	64.2									
BEAR BASIN	11	6500	1947	37.5	3-26	134.8	61.5				4-28	103.6	56.2									
SHIMMY LAKE	12	6200	1947	46.1	3-26	180.9	91.3				4-28	128.5	76.5									
WOLFORD CABIN	13	6400	1949	33.7	3-26	127.4	56.3															
HIGHLAND LAKES	16	6000	1947	31.3	3-26	136.7	63.0				4-30	92.1	47.4									
MUMBO BASIN	15	5700	1947	24.9	3-29	107.5	47.8															
WHALAN	14	5400	1940	19.5	3-29	106.5	45.7															
BIG FLAT	17	5100	1946	14.9	3-26	78.8	36.1				4-28	43.4	22.7									
EEL RIVER																						
PLASKETT MEADOWS	63	6000	1944	19.0	3-26	91.7	40.1															
SOUTH COASTAL AREA																						
PIRU CREEK																						
MOUNT PINOS	310	8600	1955	5.6	3-28	56.3	25.4															

TABLE 2 - SNOW COURSE DATA, APRIL - JUNE 1969 (CONTINUED)

AREA, DRAINAGE BASIN, AND SNOW COURSE	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
SANTA ANA RIVER																						
UPPER THUNDER MOUNTAIN	300	8500	1955	13.4	4- 2	133.4	61.5															
CHRISTMAS TREE HILL	351	8500	1962	--	3-28	97.4	44.5				4-28	88.0	45.0									
LOWER THUNDER MOUNTAIN	301	7500	1955	4.5	4- 2	46.8	24.0															
SAN YCA	352	7500	1962	--	3-28	37.6	14.5				4-28	0.0	0.0									
MANKER FLAT	302	6500	1955	1.3	4- 2	0.0	0.0															
ICE HOUSE 4	303	5800	1955	--	4- 8	12.4	5.1															
SAN GABRIEL RIVER																						
DEER FLATS	356	6800	1963	--	4- 7	13.9	6.0															
SAN JACINTO RIVER																						
CINCO POSES	293	7500	1955	3.4	4- 3	34.1	17.6															
MARION MOUNTAIN	294	6700	1955	2.1	4- 2	25.3	10.5															
THOMAS MOUNTAIN	295	6600	1955	1.4	3-27	20.9	9.1															
COTTONWOOD CREEK																						
LITTLE LAGUNA MEADOW	274	5500	1949	1.7	3-28	0.0	0.0															
CENTRAL VALLEY AREA																						
SACRAMENTO RIVER																						
MOUNT SHASTA	18	7900	1930	48.5	4- 4	147.4	66.2				5- 1	143.8	77.5									
NORTH FORK SACRAMENTO	20	6900	1936	22.6	3-26	104.9	47.2															
SAND FLAT	19	6800	1950	40.2	4- 4	122.9	56.2				5- 1	110.4	60.9									
GRAY ROCK LAKES	21	6200	1941	43.1	3-27	161.7	74.1															
SLATE CREEK	22	5600	1945	27.1	3-26	133.1	63.0				4-30	87.3	45.4									
MCCLOUD RIVER																						
BREWER CREEK	23	6250	1945	34.4	4- 2	111.7	57.9															
BUCK MOUNTAIN	24	5550	1938	26.4	4- 3	93.2	41.8															
STOUTS MEADOW	25	5400	1945	40.5	4- 1	124.1	66.2				5- 2	109.7	60.2									
ASH CREEK	26	5000	1945	20.9	4- 2	72.4	32.4															

TABLE 2 - SNOW COURSE DATA, APRIL - JUNE 1969 (CONTINUED)

AREA, DRAINAGE BASIN, AND SNOW COURSE	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
MCCLOUD RIVER (CONTINUED)																						
DEAD HORSE CANYON	27	4500	1945	12.8	4- 4	63.8	28.0															
PIT RIVER																						
BLUE LAKE RANCH	28	7300	1940	9.9	4- 4	38.0	16.7															
EAGLE PEAK	29	7200	1930	15.6	4- 2	47.1	20.1															
CEDAR PASS	30	7100	1930	16.7	3-28	57.6	23.6															
BLACKS MOUNTAIN	31	6700	1945	8.3	3-25	52.9	21.0															
MEDICINE LAKE	32	6700	1938	31.1	4- 1	98.8	45.8															
THOUSAND LAKES	33	6500	1946	35.7	4- 1	119.9	58.4				4-29	101.9	51.8									
ADIN MOUNTAINS	35	6350	1930	13.2	4- 2	47.3	20.2				5- 5	22.9	9.6									
NEW MANZANITA LAKE	343	5900	1950	7.7	3-27	49.5	18.4				5- 1	6.4	3.2									
MCELROY PASS	37	5300	1939	2.1	4- 3	0.0	0.0															
BURNEY SPRINGS	41	4700	1945	2.4	4- 2	20.1	7.8															
FEATHER RIVER																						
UPPER LASSEN PEAK	336	8500	1931	77.4	3-26	259.5	129.0				5- 1	233.0	123.2									
LOWER LASSEN PEAK	47	8250	1930	75.4	3-27	252.7	123.6				5- 2	233.3	118.2									
KETTLE ROCK	361	7300	1965	--	4- 2	84.9	39.8				5- 1	62.6	33.1				5-28	0.0	0.0			
MOUNT DYER 1	48	7100	1930	24.3	3-27	101.7	43.7				4-25	81.1	36.0				5-28	12.8	7.0			
GRIZZLY	359	6900	1965	--	3-26	117.6	51.7	4-16	94.9	48.2	4-30	79.1	40.2	5-16	48.3	23.9	5-28	9.8	5.4			
EUREKA BOWL	279	6800	1948	42.0	4- 1	145.0	75.3				5- 2	118.0	64.1									
CHURCH MEADOWS	75	6700	1931	31.3	3-26	125.5	59.5	4-16	103.5	57.0				5-16	59.0	32.7	6- 2	0.0	0.0			
ROWLAND CREEK	280	6700	1950	17.4	3-27	80.9	32.7				4-28	56.5	26.8				5-29	0.0	0.0			
MT HOUGH	360	6700	1965	--	3-28	110.2	49.6				4-25	81.9	41.4				5-29	4.3	2.4			
THREE LAKES	53*	6250	1930	38.0	3-26	152.3	69.9															
HARKNESS FLAT	51*	6200	1930	28.3	3-27	104.0	47.5															
EUREKA LAKE	52	6200	1939	32.0	4- 1	118.6	56.6				5- 2	89.0	46.3									
MOUNT DYER 2	290	6050	1952	15.8	3-27	77.4	31.5				4-25	54.5	23.2				5-28	0.0	0.0			
FRENCHMAN COVE	353	5800	1963	--	3-27	37.4	15.8				4-28	0.0	0.0				5-29	0.0	0.0			

TABLE 2 - SNOW COURSE DATA, APRIL - JUNE 1969 (CONTINUED)

AREA, DRAINAGE BASIN, AND SNOW COURSE	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
FEATHER RIVER (CONTINUED)																						
MILL CREEK FLAT	54*	5900	1930	38.3	3-26	153.9	71.3										5-28	56.7	30.7			
FREDONYER PASS 1	50*	5750	1930	8.8	3-27	51.5	22.9															
ANTELOPE RIDGE	354	5650	1963	--	4- 2	25.9	10.2				4-30	0.0	0.0				5-28	0.0	0.0			
ABBEY	355	5650	1963	--	3-26	57.5	23.2				4-30	14.6	7.0				5-28	0.0	0.0			
LETTERBOX	49*	5600	1940	47.0	3-26	185.1	86.8	4-16	165.2	89.5	4-25	158.8	82.2	5-16	110.8	61.0	5-28	69.1	36.0			
MOUNT STOVER	55	5600	1931	16.2	3-27	86.3	36.9				4-25	65.7	29.3				5-28	0.0	0.0			
BROWNS CAMP	56	5400	1937	22.3	3-26	122.5	58.7				4-25	100.0	48.4				5-28	0.0	0.0			
FEATHER RIVER MEADOWS	58*	5400	1930	22.6	3-27	98.9	43.4										5-28	0.0	0.0			
HASKINS FLAT	57	5200	1930	29.2	3-26	130.9	64.3				4-25	101.2	51.1				5-28	11.8	8.1			
WARNER CREEK	59*	5100	1930	15.9	3-27	76.0	35.5															
HUMBUG SUMMIT	60*	4850	1930	11.6	3-27	72.8	30.1															
CHESTER FLAT	61	4600	1930	6.8	3-27	63.8	25.6				4-25	22.4	10.5									
STONY CREEK																						
ANTHONY PEAK	62	6200	1944	28.9	3-26	128.2	58.8				5- 1	91.0	48.7									
YUBA RIVER																						
CASTLE CREEK 5	65	7400	1946	50.9	3-28	181.7	89.5				5- 1	144.1	84.6				5-29	75.2	45.4			
MEADOW LAKE	66	7200	1920	54.9	3-25	201.6	90.0										5-29	92.0	57.8			
RED MOUNTAIN	67*	7200	1918	48.4	3-26	184.1	80.3										5-29	67.0	44.1			
ENGLISH MOUNTAIN	68	7100	1927	44.2	3-27	163.3	83.8															
LAKE STERLING	70*	7100	1920	53.3	3-25	188.1	84.2										5-29	80.0	49.6			
SAWMILL FLAT	71	7100	1918	50.4	3-26	178.4	81.8				4-28	153.7	81.3				5-29	69.0	44.2			
DONNER SUMMIT	69*	6900	1910	38.6	3-26	150.4	69.9				4-28	121.8	65.0				5-29	31.3	17.8			
HAYPRESS VALLEY	72	6800	1930	35.2				4-16	111.2	67.3												
YUBA PASS	74	6700	1937	30.4	3-27	129.9	61.3				4-30	86.8	47.6									
FURNACE FLAT	76*	6700	1918	46.8	3-25	165.8	84.5				4-28	136.2	79.2				5-29	55.6	37.6			
LAKE FORDYCE	77*	6500	1918	40.0	3-25	150.9	71.7				4-28	122.9	70.0									

TABLE 2 - SNOW COURSE DATA, APRIL - JUNE 1969 (CONTINUED)

AREA, DRAINAGE BASIN, AND SNOW COURSE	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
YUBA RIVER (CONTINUED)																						
FINDLEY PEAK	78	6500	1927	28.5	3-27	127.3	59.8															
CISCO	80	5900	1918	24.8	3-26	122.5	55.6				4-28	82.0	41.6									
CHAPMAN CREEK	372	5850	1968	--	3-27	103.1	50.1				4-30	65.9	35.8									
SARDINE FLAT	82	5800	1937	17.3	3-27	84.5	37.1															
BOWMAN LAKE	83	5650	1927	20.6	3-27	98.8	46.0															
GIBSONVILLE	277	5400	1950	31.4	4- 2	105.3	50.9				5- 1	73.8	36.6									
LAKE SPAULDING	85	5200	1927	24.9	3-26	104.3	46.1				4-28	74.2	36.9									
AMERICAN RIVER																						
UPPER CARSON PASS	106*	8500	1930	34.6	3-25	151.4	68.6	4-19	122.5	63.3	4-25	124.5	63.0	5-15	81.7	47.7	6- 2	28.6	17.5			
EMIGRANT VALLEY	297	8400	1953	43.3	3-25	182.8	82.4				4-25	153.9	75.1				6- 2	63.0	38.0			
LOWER CARSON PASS	331	8400	1951	37.2	3-25	160.1	71.8				4-25	130.0	66.4				6- 2	41.4	23.5			
TWIN LAKES	107	8000	1939	30.0	3-25	138.6	59.9				4-25	111.1	53.6									
ALPHA	365	7600	1965	--	3-27	141.4	65.5				4-30	104.8	57.8									
LOST CORNER MOUNTAIN	338*	7500	1959	32.4	3-28	145.0	67.3	4-16	123.6	66.2	5- 3	108.1	57.7	5-16	74.2	39.8	6- 2	16.6	9.0			
ECHO SUMMIT	108	7450	1940	37.3	3-26	151.5	65.6				4-28	110.3	59.9				5-26	25.4	15.2			
LAKE AUDRAIN	110	7300	1941	35.5	3-26	154.3	64.3				4-28	117.0	60.5				5-26	33.2	19.0			
SILVER LAKE	109*	7100	1930	22.8	3-26	112.1	52.6															
DARRINGTON	111	7100	1941	30.6	3-27	135.0	62.6				4-28	95.5	50.5									
WRIGHTS LAKE	316*	6900	1956	32.6	3-28	139.8	66.8				5- 3	101.8	54.9				6- 2	12.0	7.0			
PHILLIPS	113	6800	1941	28.7	4- 1	113.8	57.8				4-28	90.0	48.3									
LYONS CREEK	320	6700	1937	31.1	3-28	126.7	59.4				5- 3	89.5	47.6				6- 2	7.0	4.3			
HUYSINK	115	6600	1937	45.9	4- 1	149.3	76.1				4-29	131.4	73.6									
TAMARACK FLAT	289	6550	1939	27.9	3-27	124.3	56.6				4-28	96.1	49.8									
WABENA MEADOWS	114	6300	1937	39.1	3-27	158.5	72.8	4-16	139.2	65.0	4-28	128.1	67.0	5-16	88.6	47.6	6- 2	34.0	19.4			
MIRANDA CABIN	369	6200	1967	--	3-27	151.3	69.6				4-28	117.2	69.8									
ONION CREEK	120	6100	1937	21.5	3-26	109.1	54.6				4-30	61.5	34.6				5-28	0.0	0.0			
DIAMOND CROSSING	371	6050	1967	--	3-27	109.1	51.0				4-28	69.1	36.1									

TABLE 2 - SNOW COURSE DATA, APRIL - JUNE 1969 (CONTINUED)

AREA, DRAINAGE BASIN, AND SNOW COURSE	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
AMERICAN RIVER (CONTINUED)																						
TALBOT CAMP	122	5750	1940	18.3	3-27	105.3	48.9				4-28	65.2	33.4									
SIXMILE VALLEY	123	5750	1930	22.8	3-26	105.8	48.6															
STRAWBERRY	124	5700	1942	8.5	4- 1	51.5	26.4				4-28	7.2	3.5									
ROBBS VALLEY (ORELLI)	322	5600	1932	22.3	3-28	89.9	44.3				5- 3	41.1	21.3									
ICE HOUSE	127	5300	1932	13.2	3-28	56.0	27.0				4-30	11.8	5.9									
CARPENTER FLAT	128	5300	1946	18.4	3-25	90.1	40.1															
MOKELUMNE RIVER																						
TRAGEDY CREEK	364	8150	1965	--	3-26	170.7	78.6															
BLUE LAKES	129*	8000	1918	34.8	3-26	161.0	66.4				4-28	123.8	60.5	5-19	86.4	46.2	6- 1	53.8	31.1			
TRAGEDY SPRINGS	130	7900	1938	43.3	3-26	174.6	80.9															
WHEELER LAKE	131	7800	1937	51.6	3-28	198.1	92.5	4-19	173.0	89.2	5- 1	164.5	91.9	5-15	135.2	80.0	6- 2	87.2	50.5			
PACIFIC VALLEY	132*	7500	1930	36.2	3-28	156.0	71.4				5- 1	114.3	64.9									
CORRAL FLAT	133	7200	1938	38.8	3-27	156.8	77.4															
PODESTA	363	7200	1965	--	3-27	177.7	83.9															
BEAR VALLEY RIDGE 1	134*	6700	1930	25.4	3-26	102.0	46.0				4-28	69.7	36.1									
BEAR VALLEY RIDGE 2	339	6600	1930	28.2	3-26	120.0	50.3				4-28	85.1	39.8									
LUMBERYARD	135	6500	1937	31.0	4- 1	110.0	57.3				4-25	97.3	48.3									
MUD SPRINGS	362	5800	1965	--	4- 1	46.7	24.2				4-25	23.2	10.7									
HAMS STATION	136	5500	1937	8.2	3-28	56.9	25.4				4-25	12.9	6.4									
ANTELOPE SPRINGS	137	4350	1939	3.2	3-28	29.4	11.9				4-25	3.0	1.2									
STANISLAUS RIVER																						
DEADMAN CREEK	345*	9250	1960	33.6	3-25	150.4	62.8				4-29	123.0	58.2				5-29	72.5	40.0			
CLARK FORK MEADOW	344*	8900	1960	36.9	3-25	163.5	67.0	4-19	132.0	63.5	4-29	130.5	65.8	5-15	102.0	56.4	5-29	70.0	38.6			
HIGHLAND MEADOW	323*	8800	1952	48.1	3-28	179.2	85.6				5- 1	147.1	79.5									
LOWER RELIEF VALLEY	138*	8100	1930	38.5	3-25	173.1	73.8	4-19	143.8	67.8	4-25	144.5	74.0	5-15	105.4	60.8	5-29	66.9	38.8			
SODA CREEK FLAT	139*	7800	1931	21.5	3-25	132.2	57.6				4-29	101.2	51.0									

TABLE 2 - SNOW COURSE DATA, APRIL - JUNE 1969 (CONTINUED)

AREA, DRAINAGE BASIN, AND SNOW COURSE	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
STANISLAUS RIVER (CONTINUED)																						
LAKE ALPINE	141*	7550	1930	40.6	4- 1	158.5	78.4				4-30	134.3	73.3									
EAGLE MEADOW	140*	7500	1930	23.8	3-25	119.5	50.4				4-29	85.2	41.8									
HERRING CREEK	142	7300	1937	27.8	3-25	138.1	60.2				4-25	111.7	53.4				5-29	23.6	12.4			
RELIEF DAM	143*	7250	1930	19.4	3-25	109.8	45.4				4-29	77.1	36.0									
SPICERS	144	6600	1937	28.8	3-28	120.0	59.5				5- 1	84.6	47.7									
BIG MEADOW	146*	6550	1940	27.8	4- 1	98.1	50.4				4-30	76.0	40.2				5-28	40.2	29.5			
HELLS KITCHEN	373	6550	1968	--	4- 1	105.3	53.8				4-30	78.6	42.6									
NIAGARA FLAT	145	6500	1930	20.4	3-25	102.9	43.2				4-25	77.1	34.6									
COTTAGE SPRING	147	5750	1938	14.2	4- 1	72.6	34.1				4-30	37.3	18.8									
DORRINGTON	149	4750	1938	5.6	4- 1	35.1	17.0				4-30	0.0	0.0									
TUOLUMNE RIVER																						
DANA MEADOWS	157*	9850	1926	29.3	3-27	133.2	58.0				4-30	106.9	52.9				6- 4	44.0	23.0			
RAFFERTY MEADOWS	158	9400	1948	30.2	3-27	141.7	56.8				4-30	114.2	50.9									
BOND PASS	159	9300	1948	42.4	3-25	193.0	85.3				4-29	162.6	81.9	5-15	134.4	78.4	5-29	105.5	61.2			
NEW GRACE MEADOW	368	8900	1966	--	3-25	188.4	84.7				4-29	149.0	79.8									
TUOLUMNE MEADOWS	161	8600	1930	21.9	3-27	125.6	50.5				4-30	81.9	45.5				6- 3	4.5	2.2			
HORSE MEADOW	162	8400	1948	45.2	3-25	190.4	87.4				4-29	155.9	86.3									
WILMER LAKE	163	8000	1946	42.3	3-25	191.8	84.1				4-29	151.0	79.7									
SACHSE SPRINGS	165	7900	1948	37.3	3-26	179.5	81.4				4-30	139.0	73.2									
SPOTTED FAWN	164	7800	1948	45.3	3-26	195.8	88.0				4-30	161.9	86.2									
HUCKLEBERRY LAKE	166	7800	1948	41.1	3-26	181.9	82.7				4-30	151.4	79.7									
PARADISE	167	7700	1946	39.3	3-25	163.8	85.6				4-29	120.8	70.1									
KERRICK CORRAL	348	7000	1965	--	3-25	122.7	53.0				4-28	76.2	41.2									
UPPER KIBBIE RIDGE	168	6700	1937	19.5	3-26	109.0	46.7				4-30	67.5	34.1									
VERNON LAKE	169	6700	1947	23.9	3-25	122.6	54.2				4-29	88.9	43.9									
LOWER KIBBIE RIDGE	173	6700	1937	26.2	3-26	131.3	58.2				4-30	90.8	47.5									
BEEHIVE MEADOW	171	6500	1930	26.4	3-25	122.4	52.4				4-29	86.8	42.2									

TABLE 2 - SNOW COURSE DATA, APRIL - JUNE 1969 (CONTINUED)

AREA, DRAINAGE BASIN, AND SNOW COURSE	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
TUOLUMNE RIVER (CONTINUED)																						
BELL MEADOW	172	6500	1937	17.8	3-26	104.9	42.2				4-28	52.2	26.0									
MERCED RIVER																						
SNOW FLAT	176	8700	1930	41.2	3-25	198.1	86.0				5- 1	146.1	87.6				6- 4	61.2	44.1			
OSTRANDER LAKE	177	8200	1938	33.0	4- 1	153.6	70.2				5- 5	132.5	72.7				6- 2	40.1	22.9			
LAKE TENAYA	178	8150	1930	33.0							5- 1	121.5	65.8				6- 4	36.8	24.2			
GIN FLAT	179	7000	1930	33.8	3-27	155.4	66.7				5- 1	110.3	58.4				6- 3	15.8	8.1			
PEREGOY MEADOWS	180	7000	1931	32.0	4- 2	154.4	64.8				5- 5	125.4	60.3				6- 2	68.4	35.3			
SAN JOAQUIN RIVER																						
MONO PASS	182	11450	1950	32.8	3-25	157.7	65.8				4-29	140.0	66.8	5-15	124.6	63.9	5-30	101.8	59.4			
PIUTE PASS	183	11300	1930	34.2	3-27	184.5	80.1				4-27	158.5	80.9				5-29	115.0	68.7			
EMERALD LAKE	184*	10600	1944	34.4	3-25	161.5	69.5	4-16	173.2	81.2	4-29	148.7	73.5	5-15	128.7	69.4	5-30	95.0	57.0			
PIONEER BASIN	276*	10400	1949	37.2	3-25	170.0	71.0				4-29	136.0	69.1				5-30	79.8	47.2			
HEART LAKE	185*	10100	1940	27.5	3-25	143.3	60.2										5-30	63.3	37.4			
VOLCANIC KNOB	186*	10100	1946	30.7	3-25	152.4	63.0				4-29	120.4	62.7				5-30	67.3	40.1			
ROSE MARIE	187*	10000	1946	29.0	3-26	138.6	61.7				4-29	111.0	61.1				5-30	67.3	41.6			
COLBY MEADOW	188*	9700	1944	21.8	3-25	123.3	51.8				4-29	86.3	48.6									
AGNEW PASS	189*	9450	1930	30.6	3-27	157.8	65.6				4-29	117.4	62.5									
KAISER PASS	190*	9100	1930	37.5	3-26	192.3	82.2	4-16	170.5	82.4	5- 1	145.0	76.4	5-14	121.6	67.0	5-28	88.0	54.0			
DUTCH LAKE	191*	9100	1938	27.3	3-26	144.6	62.2				4-30	107.6	58.6				5-30	42.5	26.8			
COYOTE LAKE	192*	8850	1946	31.7	3-25	180.1	76.0				4-29	129.7	68.0				5-30	57.7	34.9			
CORA LAKES	193*	8400	1939	38.6	3-26	188.1	80.6	4-16	157.2	74.2	5- 1	129.0	83.7	5-15	102.0	54.5	6- 2	55.6	32.9			
BADGER FLAT	346	8300	1960	31.2	3-27	162.6	69.3										5-28	43.4	27.6			
NELLIE LAKE	194	8000	1944	36.4	3-24	191.2	79.4				5- 2	133.9	75.5				5-29	55.2	30.9			
LAKE THOMAS A EDISON	324	7800	1958	14.1	3-26	106.8	46.4				4-29	62.2	32.9				6- 1	0.0	0.0			
CHILKOOT LAKE	196	7450	1930	36.4	3-27	180.2	82.8				4-29	142.2	73.2									
TAMARACK CREEK	347	7250	1960	24.4	3-27	145.9	68.4				5-30	89.5	48.9				5-29	21.4	11.6			
FLORENCE LAKE	198	7200	1930	7.4	3-26	76.9	29.8										6- 1	0.0	0.0			

TABLE 2 - SNOW COURSE DATA, APRIL - JUNE 1969 (CONTINUED)

AREA, DRAINAGE BASIN, AND SNOW COURSE	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
SAN JOAQUIN RIVER (CONTINUED)																						
CHILKOOT MEADOW	197	7150	1930	35.7	3-27	170.8	82.0				4-29	133.0	73.6									
HUNTINGTON LAKE	199	7000	1930	20.2	3-24	122.3	53.6	4-16	96.3	47.9	4-28	74.1	39.8				5-29	0.0	0.0			
CLOVER MEADOW	200*	7000	1939	23.1	3-25	140.4	62.6				4-30	91.3	47.8				6- 2	6.2	3.4			
JACKASS MEADOW	201*	6950	1939	23.2	3-25	143.8	64.7				4-30	84.5	45.6									
CHIQUITO CREEK	202*	6800	1939	21.7	3-27	131.5	60.2				4-29	84.8	44.3									
POISON MEADOW	204	6800	1944	24.6	3-27	121.4	54.3				4-29	80.7	42.0									
KINGS RIVER																						
BISHOP PASS	222*	11200	1930	29.8	3-25	176.8	78.4	4-16	154.6	71.6	4-27	147.1	74.1	5-15	130.8	67.7	5-29	113.6	61.7			
CHARLOTTE RIDGE	299*	10700	1955	29.4				4-17	160.1	75.8				5-15	119.4	64.6	5-29	98.9	51.2			
BULLFROG LAKE	307	10650	1932	27.8				4-17	147.0	70.5							5-29	94.3	55.2			
BLACKCAP BASIN	223*	10300	1930	32.6	3-27	156.2	66.4				4-28	142.8	68.6				5-29	88.8	54.0			
BEARD MEADOW	225*	9800	1930	30.9	3-27	168.4	72.2				4-28	142.4	74.0									
UPPER BURNT CORRAL MEADOW	224*	9700	1927	33.3	3-27	186.0	78.8	4-16	174.4	76.2	4-28	150.6	75.8	5-15	122.4	67.2	5-28	88.4	54.4			
VIDETTE MEADOW	309	9500	1956	18.6				4-17	105.6	62.2												
UPPER WOODCHUCK MEADOW	341*	9100	1955	30.7	3-28	184.7	82.3				4-29	118.0	66.2				5-28	63.5	36.3			
SWAMP MEADOW	228*	9000	1930	35.4	3-28	189.4	87.1				4-29	146.0	73.1									
ROUND CORRAL	229*	9000	1938	32.8	3-28	200.0	88.0				4-29	156.8	74.0									
ROWELL MEADOW	226*	8850	1930	26.1	4- 4	157.8	73.9	4-16	152.5	74.8	5- 3	119.8	65.9	5-15	100.6	56.4	5-28	62.6	37.0			
WOODCHUCK MEADOW	227*	8800	1930	29.5	3-28	185.6	81.3				4-29	138.9	71.6									
LONG MEADOW	232*	8500	1930	27.1	3-27	163.4	69.2				4-28	120.0	67.0				5-28	55.0	33.6			
STATUM MEADOW	233*	8300	1930	30.1	3-28	162.3	83.3				4-29	122.1	71.6				5-28	43.9	29.1			
HELMS MEADOW	230*	8250	1930	24.2	3-28	139.3	65.8				4-29	108.3	59.2									
POST CORRAL MEADOW	234	8200	1930	24.8	3-27	160.6	69.4				4-28	120.6	64.4									
DODSONS MEADOW	308*	8050	1956	27.4	3-27	163.1	70.9				4-28	110.1	58.4									
GRANT GROVE	240	6600	1930	14.4	3-29	94.2	42.4				4-27	48.7	24.9	5-17	0.0	0.0	6- 1	0.0	0.0			
BIG MEADOWS	236	7600	1930	25.2	4- 4	138.6	74.7				5- 3	104.1	62.5				5-28	40.2	29.5			
HORSE CORRAL MEADOW	237*	7600	1930	17.0	4- 4	107.0	56.1				5- 3	70.0	40.8				5-28	0.0	0.0			

TABLE 2 - SNOW COURSE DATA, APRIL - JUNE 1969 (CONTINUED)

AREA, DRAINAGE BASIN, AND SNOW COURSE	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
KINGS RIVER (CONTINUED)																						
FRED MEADOW	239*	6950	1930	21.1	4- 4	122.4	57.7				5- 1	83.5	43.6									
KAWEAH RIVER																						
FAREWELL GAP	292	9000	1952	31.7	4- 7	219.4	99.3				4-26	182.4	88.9	5-16	145.4	84.7	5-28	106.9	67.6			
PANTHER MEADOW	243	8600	1925	35.9	3-31	217.5	98.8				4-26	195.8	100.9	5-17	160.6	84.9	5-29	121.2	73.9			
HOCKETT MEADOWS	244	8500	1930	29.1	4- 5	144.2	71.6				4-26	121.1	66.5	5-16	86.2	49.0	5-29	56.5	31.1			
MINERAL KING	245	8000	1948	19.2	4- 7	138.0	63.8				4-26	108.2	57.6	5-16	69.9	38.0	5-28	36.8	21.9			
GIANT FOREST	246	6400	1930	16.7	3-29	108.4	49.9				4-27	78.0	42.5	5-17	0.0	0.0	6- 1	0.0	0.0			
TULE RIVER																						
QUAKING ASPEN	247	7000	1937	13.3	3-26	97.5	44.7				5- 2	36.9	19.1				5-28	0.0	0.0			
OLD ENTERPRISE MILL	248	6600	1937	16.9	3-28	95.8	44.4				5- 1	56.6	29.2				5-28	0.0	0.0			
DEER CREEK																						
DEAD HORSE MEADOW	249	7300	1937	12.7	3-27	92.6	41.0				4-29	51.5	24.3									
KERN RIVER																						
BIGHORN PLATEAU	250*	11350	1949	22.7	4- 4	123.7	55.3	4-15	119.2	55.0	5- 5	107.7	53.7	5-15	91.0	48.0	5-29	67.0	38.4			
COTTONWOOD PASS	251	11050	1948	13.2	4- 1	93.3	41.1				5- 2	75.1	36.4	5-16	62.9	33.0	6- 1	31.7	17.4			
SIBERIAN PASS	252*	10900	1948	18.0	4- 2	110.8	48.4	4-15	106.0	45.8	5- 3	88.1	44.4	5-16	75.4	40.0	5-31	44.2	27.3			
CRABTREE MEADOW	253	10700	1949	19.0	4- 3	110.6	48.5				5- 4	85.9	42.2	5-16	68.3	37.5	5-29	39.5	22.7			
GUYOT FLAT	254	10650	1949	20.2	4- 3	117.5	50.6				5- 4	92.1	46.0	5-16	74.6	41.0	5-30	45.7	26.0			
TYNDALL CREEK	255*	10650	1949	18.3	4- 4	112.8	48.6				5- 5	91.3	45.9	5-15	74.9	41.1	5-28	50.4	29.3			
SANDY MEADOWS	275	10650	1949	18.4	4- 4	105.2	46.3				5- 5	77.0	37.4	5-16	56.8	31.3	5-29	26.9	14.9			
BIG WHITNEY MEADOW	257	9750	1948	16.8	4- 1	102.4	45.0				5- 2	74.0	39.3	5-16	56.2	31.1	5-31	25.1	13.7			
ROCK CREEK	256	9600	1949	17.0	4- 2	104.5	45.8				5- 3	69.9	37.0	5-16	50.0	27.1	5-31	13.8	7.2			
ROUND MEADOW	258*	9000	1930	25.3	3-25	153.7	70.2	4-15	132.4	72.2	4-24	115.2	66.2	5-17	78.1	42.6	5-29	39.6	24.2			
RAMSHAW MEADOWS	259*	8700	1930	11.2	3-31	89.7	38.1				5- 1	54.1	28.6	5-17	25.1	14.5	6- 1	0.0	0.0			
LITTLE WHITNEY MEADOW	260*	8500	1930	13.2	3-31	99.5	45.5				5- 1	60.7	31.0	5-17	24.2	13.3	6- 1	0.0	0.0			
CASA VIEJA MEADOWS	262*	8400	1930	18.8	3-28	132.0	61.4	4-15	112.4	56.0	4-27	96.1	54.4	5-17	60.7	35.6	5-29	26.5	15.1			

TABLE 2 - SNOW COURSE DATA, APRIL - JUNE 1969 (CONTINUED)

AREA, DRAINAGE BASIN, AND SNOW COURSE	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
KERN RIVER (CONTINUED)																						
QUINN RANGER STATION	264*	8350	1930	19.9	4- 7	128.1	59.6				4-26	93.0	50.2	5-16	52.0	29.3	5-29	12.5	6.3			
BONITA MEADOWS	261*	8300	1930	13.7	3-26	115.5	50.2				4-25	76.4	44.5	5-17	32.6	17.9	6- 1	0.0	0.0			
MONACHE MEADOWS	263*	8000	1931	7.5	3-31	69.8	40.8				4-29	34.8	22.1	5-17	0.0	0.0	6- 1	0.0	0.0			
BEACH MEADOWS	265*	7650	1930	9.3	3-27	84.4	36.8				4-26	45.7	21.2	5-17	0.0	0.0	6- 1	0.0	0.0			
LAHONTAN AREA																						
SURPRISE VALLEY																						
BARBER CREEK	313	6500	1958	11.6	3-27	46.0	18.6															
HAYS CANYON (NEVADA)	349	6400	1958	1.8	3-27	27.0	10.8															
49 MOUNTAIN (NEVADA)	350	6000	1958	2.6	3-26	28.0	10.4															
RESERVATION CREEK	314	5900	1958	11.8	3-26	43.0	18.0															
SUSAN RIVER																						
SILVER LAKE MEADOWS	45	6450	1940	27.6	3-26	116.3	57.4				4-30	75.4	47.0									
NORVELL FLAT	46	5700	1940	15.6	3-26	80.3	36.8				4-30	33.5	19.1									
TRUCKEE RIVER																						
MOUNT ROSE (NEVADA)	334	9000	1910	32.8	3-24	177.0	81.7															
INDEPENDENCE LAKE	86	8450	1937	40.3	3-28	152.0	66.5				5- 1	140.0	68.0									
WEBBER PEAK	64	7800	1922	43.8	3-27	178.0	81.2	4-16	155.6	72.8				5-16	116.5	64.2	6- 2	87.3	50.6			
SQUAW VALLEY 2	318	7500	1954	51.6	3-30	184.0	84.0				5- 1	154.5	82.5									
INDEPENDENCE CAMP	88	7000	1941	22.7	3-28	101.0	46.7				5- 1	69.0	34.5									
WEBBER LAKE	89	7000	1925	31.7	3-27	129.9	56.5															
SAGE HEN CREEK	90	6500	1937	17.9	3-28	84.0	36.6				5- 1	53.0	24.8									
INDEPENDENCE CREEK	91	6500	1937	12.9	3-28	68.0	29.1				5- 1	36.0	15.9									
TRUCKEE 2	92	6400	1930	16.2	3-30	71.0	30.4															
DONNER PARK 2	342	6000	1959	17.3	3-26	86.0	34.6															
BOCA 2	95	5900	1933	4.8	3-27	38.0	15.5															

TABLE 2 - SNOW COURSE DATA, APRIL - JUNE 1969 (CONTINUED)

AREA, DRAINAGE BASIN, AND SNOW COURSE	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
LAKE TAHOE BASIN																						
HEAVENLY VALLEY	375	8850	1969	--	3-28	124.1	47.0				5- 1	85.0	45.0									
LAKE LUCILLE	96	8200	1913	58.4	3-24	232.0	95.3															
RUBICON PEAK 1	97	8100	1910	48.5	3-25	209.0	82.8															
HAGANS MEADOW	98	8000	1916	17.6	3-27	93.0	39.8				4-29	51.0	26.9									
MARLETTE LAKE (NEVADA)	332	8000	1915	22.5	3-26	108.0	45.4				4-30	72.0	38.7									
RUBICON PEAK 2	99	7500	1912	30.5	3-25	138.0	58.8															
DAGGETTS PASS (NEVADA)	337	7350	1916	11.7	3-26	72.0	27.5															
FREEL BENCH	100	7300	1930	11.3	3-27	71.0	31.2				4-29	28.0	13.6									
WARD CREEK	101	7000	1913	45.0	3-26	169.0	82.4				4-30	127.0	68.9									
GLENBROOK 2	333	6900	1942	12.9	3-23	75.0	26.4															
WARD CREEK 3	376	6750	1965	--	3-26	152.0	68.4				4-30	112.0	61.3									
RICHARDSONS 2	103	6500	1944	16.7	3-23	84.0	30.6															
UPPER TRUCKEE	104	6400	1930	7.5	3-27	56.0	23.0															
TAHOE CITY	105	6250	1910	11.0	3-30	55.0	27.0															
WALKER RIVER																						
VIRGINIA LAKES	150	9500	1947	17.0	3-24	100.0	40.1				4-28	66.0	34.9									
VIRGINIA LAKES RIDGE	377	9200	1965	--	3-24	99.0	37.3				4-28	72.0	34.4									
CENTER MOUNTAIN	151*	9400	1922	35.4	3-27	175.0	75.7															
SONORA PASS	152	8800	1930	24.1	3-25	120.0	51.4				4-29	85.0	44.8									
BUCKEYE FORKS	153	8500	1930	19.2	3-27	128.0	54.4															
WILLOW FLAT	154	8250	1925	10.3	3-24	73.0	29.0															
BUCKEYE ROUGHS	155	7900	1922	20.4	3-21	118.0	47.7															
LEAVITT MEADOW	156	7200	1923	7.5	3-25	69.0	28.0															
MONO LAKE BASIN																						
GEM PASS	281	10400	1931	32.5	3-27	154.0	64.5				4-29	125.8	62.2									
TIOGA PASS	181*	9800	1926	25.8	3-27	134.7	56.6	4-19	106.7	49.0	4-30	94.8	47.8	5-15	83.8	43.0	6- 3	47.0	24.8			
SADDLEBAG LAKE	287	9750	1926	33.2	3-27	145.3	60.9										6- 3	46.2	24.8			

TABLE 2 - SNOW COURSE DATA, APRIL - JUNE 1969 (CONTINUED)

AREA, DRAINAGE BASIN, AND SNOW COURSE	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
MONO LAKE BASIN (CONTINUED)																						
ELLERY LAKE (RHINEDOLLAR)	286	9600	1926	30.1	3-27	132.5	57.2				4-30	100.5	53.7				6- 3	40.2	22.5			
GEM LAKE	282	9150	1927	31.3	3-27	145.9	60.3				4-29	111.7	61.4									
OWENS RIVER																						
BISHOP LAKE	284*	11300	1951	19.0	3-24	116.3	46.3				4-26	101.1	46.9				5-29	61.4	33.5			
COTTONWOOD LAKES 2	220	11100	1926	12.5	3-27	99.3	41.4				4-30	80.6	38.5									
EAST PIUTE PASS	212	10800	1930	11.8	3-26	100.1	40.1				4-26	78.4	40.7				5-29	37.5	20.6			
COTTONWOOD LAKES 1	221	10600	1926	11.5	3-27	96.4	39.5				4-30	66.4	35.3									
SAWMILL	213	10300	1926	17.7	3-24	120.8	49.3				4-26	90.0	47.0									
ROCK CREEK 3	209	10000	1926	14.2	3-28	97.3	39.3				4-30	0.0	0.0									
BIG PINE CREEK 1	217	10000	1926	22.9	3-27	152.0	63.5				4-30	122.5	57.4									
BIG PINE CREEK 3	218	9800	1926	15.8	3-27	147.2	65.2				4-30	109.2	55.1									
BIG PINE CREEK 2	219	9700	1926	16.3	3-27	124.1	50.4				4-30	85.6	43.1									
MAMMOTH PASS	205*	9500	1928	41.9	3-27	197.6	86.5				4-29	163.6	81.6	5-17	125.8	66.6	5-30	90.7	49.6			
NUCLEAR 2	358	9500	1964	--	3-28	154.9	65.5				4-28	104.4	59.2									
NORTH LAKE	214	9300	1930	8.7	3-26	83.1	35.5				4-27	55.0	29.9									
ROCK CREEK 2	210	9050	1926	9.3	3-28	82.4	31.0				4-30	46.2	23.4	5-16	21.6	11.2	5-29	0.0	0.0			
MINARETS 2	206	9000	1928	30.2	3-27	148.4	63.0				4-29	121.2	60.3	5-17	89.2	49.4	5-30	59.6	33.4			
SOUTH FORK	215	8850	1927	4.6	3-24	72.4	28.7				4-26	41.0	20.9									
ROCK CREEK 1	211	8700	1926	7.9	3-28	71.9	28.6				4-30	41.0	20.9	5-16	18.2	9.3	5-29	0.0	0.0			
BISHOP PARK	216	8400	1927	4.1	3-26	67.8	29.2				4-27	28.3	15.7									
MAMMOTH	208	8300	1928	19.8	3-27	110.2	46.4				4-29	89.4	47.4	5-17	64.1	36.2	5-30	31.3	18.7			
MINARETS 3	367	8200	1966	--	3-27	120.9	49.6				4-29	84.2	44.0	5-17	45.9	26.8	5-29	14.6	8.5			
NUCLEAR 1	357	7800	1964	--	3-27	36.4	15.8				5- 1	0.0	0.0									
MOJAVE DESERT																						
ISLIP 3	305	7600	1945	14.2	4- 9	78.3	35.6															
ISLIP 4	306	7550	1950	14.8	4- 9	87.4	45.1															
ISLIP 2	304	7400	1944	10.8	4- 9	58.0	30.4															

TABLE 2 - SNOW COURSE DATA, APRIL - JUNE 1969 (CONTINUED)

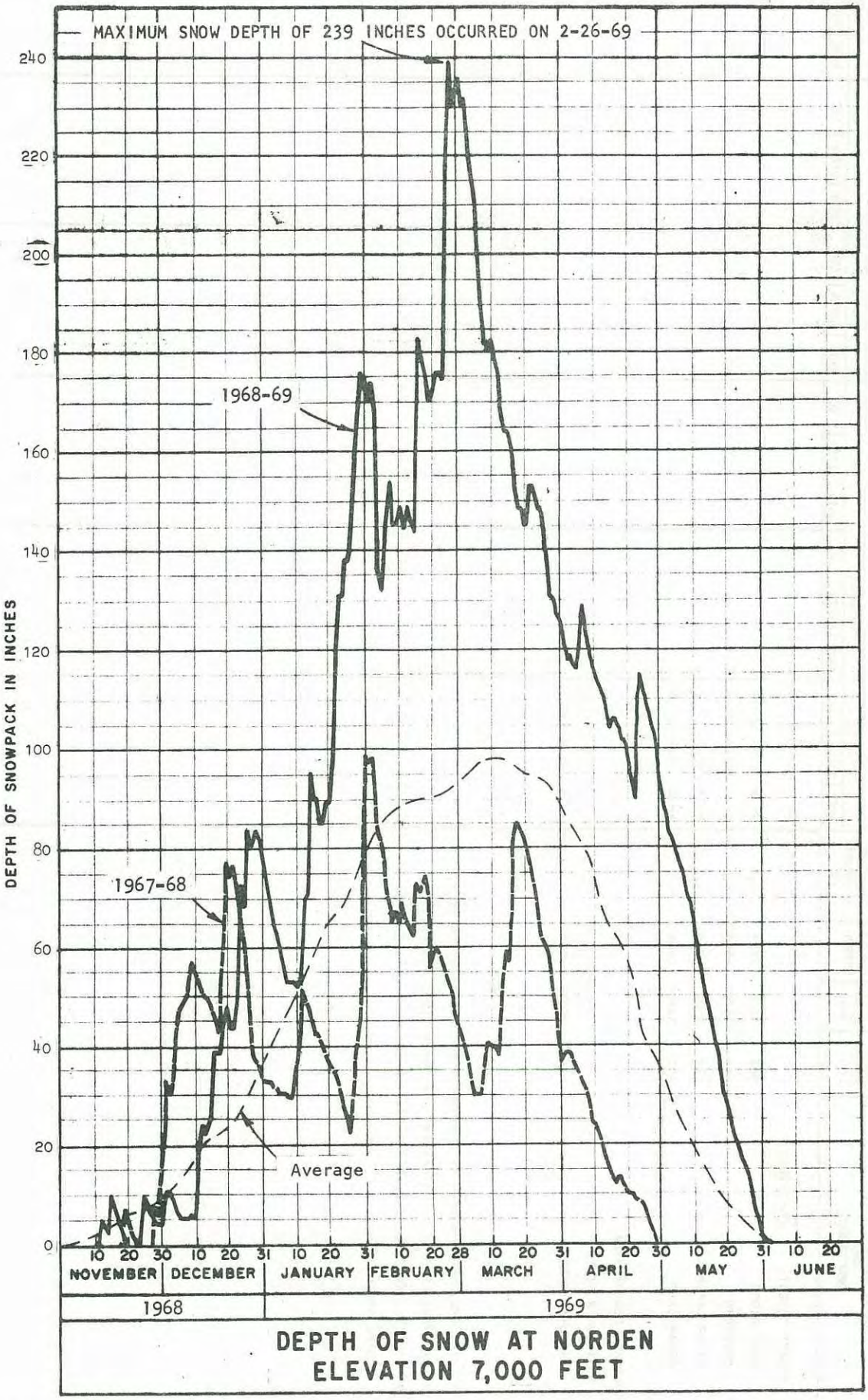
AREA, DRAINAGE BASIN, AND SNOW COURSE	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
MOJAVE DESERT (CONTINUED)																						
BLUE RIDGE	340	7200	1959	2.4	4- 4	29.5	14.8															
BUCKHORN	271	7100	1948	5.1	4- 4	41.6	21.4															
CEDAR SPRINGS	272	6500	1948	4.3	4- 4	32.5	15.4															
SQUAW CAMP	273	5800	1948	--	4- 2	0.0	0.0															
COLORADO DESERT AREA																						
WHITEWATER RIVER																						
TAHQUITZ VALLEY	296	7800	1952	8.1	4- 1	62.5	32.4															

(1) THE CALIFORNIA NUMBER IS ASSIGNED FOR IDENTIFICATION ONLY.

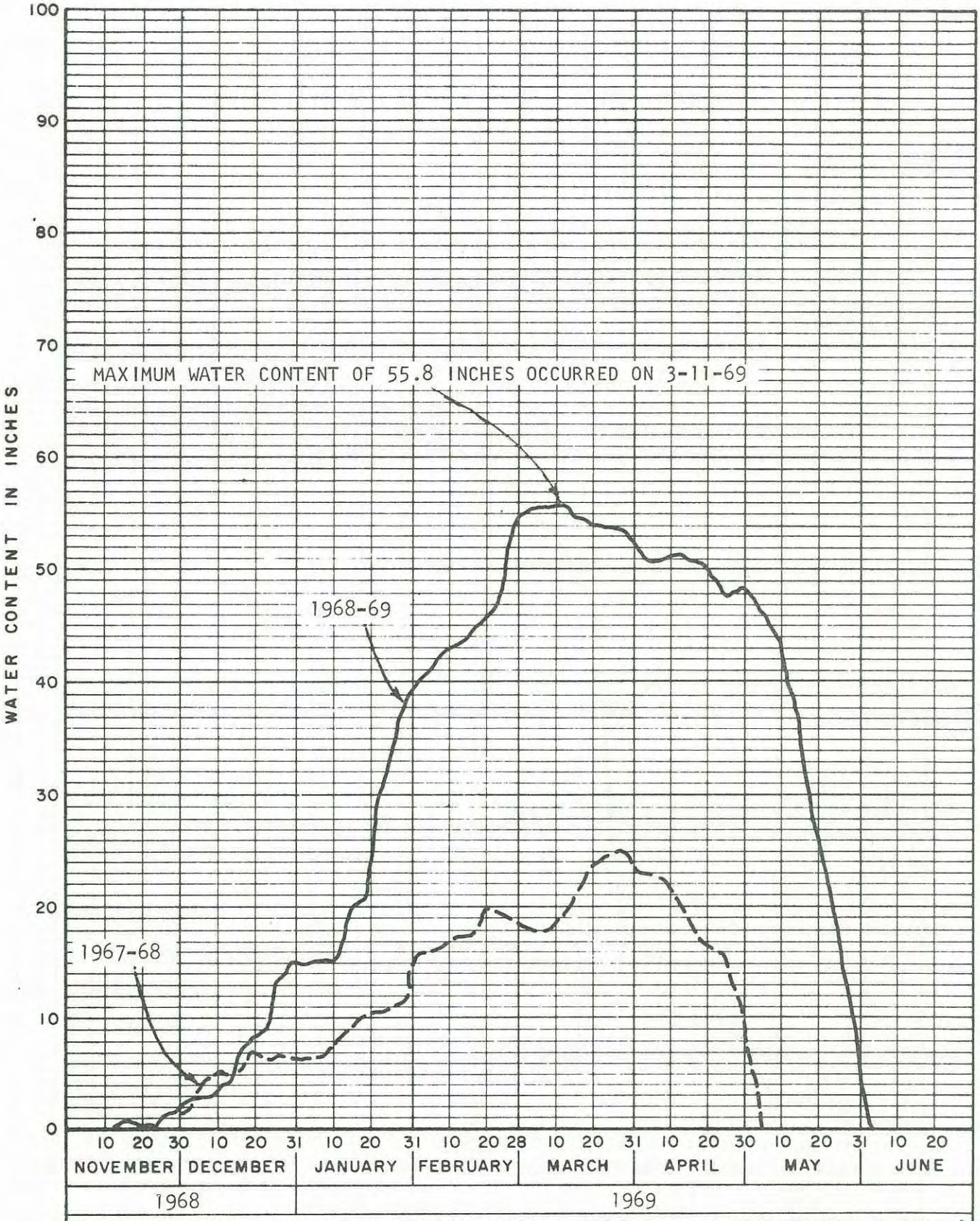
(2) AVERAGE APRIL 1 WATER CONTENT FOR THE PERIOD, 1931-1965.

* AERIAL MARKER LOCATED ON OR NEAR SNOW COURSE WITH SAME NAME AND NUMBER.

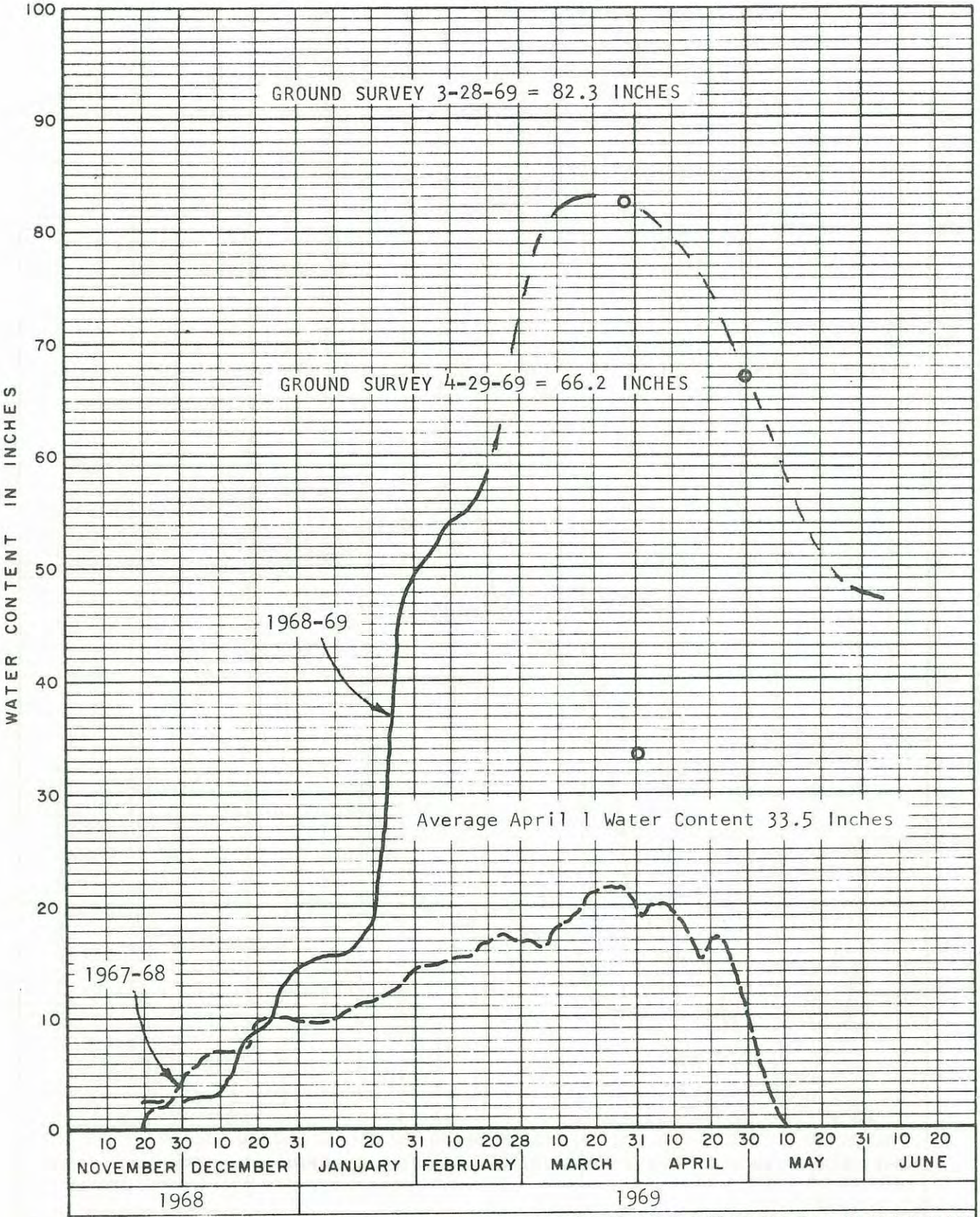
Plate 3



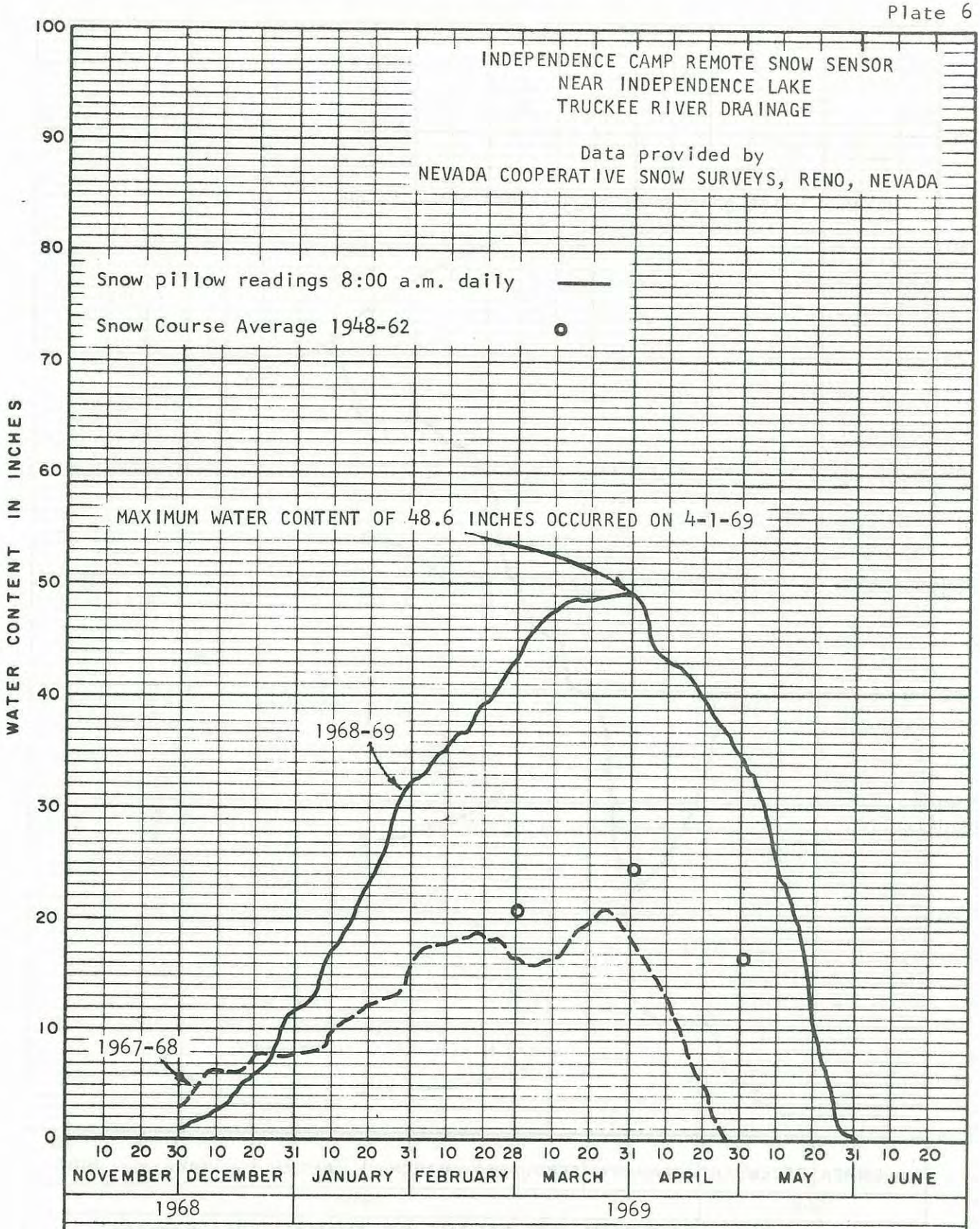
DEPTH OF SNOW AT NORDEN
ELEVATION 7,000 FEET



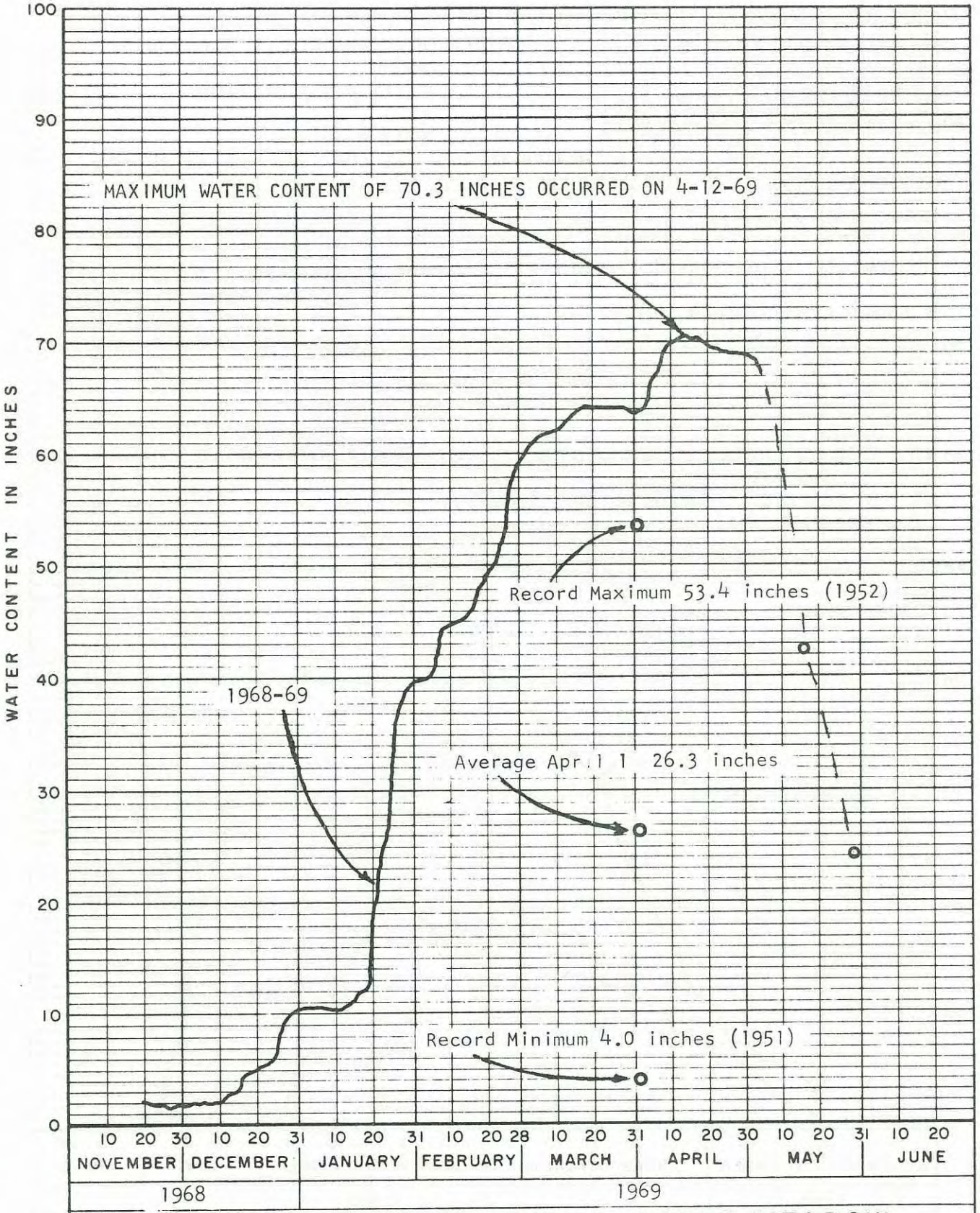
WATER CONTENT OF SNOW AT ALPHA (near WRIGHTS LAKE)
ELEVATION 7,600 FEET
AMERICAN RIVER BASIN



WATER CONTENT OF SNOW AT UPPER WOODCHUCK MEADOW
ELEVATION 9,100 FEET
KINGS RIVER BASIN



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



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

TABLE 3

AERIAL SNOW DEPTH MEASUREMENTS, APRIL - JUNE 1969

AREA, DRAINAGE BASIN, AND AERIAL MARKER	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND ESTIMATED WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
CENTRAL VALLEY AREA																						
FEATHER RIVER																						
THREE LAKES	53*	6250	1965	38.0	3-27	144	66	4-15	120	6	4-25	108	55									
HARKNESS FLAT	51*	6200	1964	28.3	3-27	108	50	4-15	84	46	4-25	72	37				5-30	0	0			
MILL CREEK FLAT	54*	5900	1965	38.3	3-27	160	74	4-15	174	95	4-25	126	65									
FREDONYER PASS 1	50*	5750	1964	8.8	3-27	40	18	4-15	6	3	4-25	6	3				5-30	0	0			
LETTERBOX	49*	5600	1965	47.0	3-27	174	82	4-15	150	81	4-25	144	75									
FEATHER RIVER MEADOWS	58*	5400	1964	22.6	3-27	96	42	4-15	72	40	4-25	60	30									
WARNER CREEK	59*	5100	1964	15.9	3-27	78	37	4-15	60	33	4-25	48	25				5-30	0	0			
HUMBUG SUMMIT	60*	4850	1964	11.6	3-27	68	28	4-15	48	26	4-25	24	11				5-30	0	0			
YUBA RIVER																						
RED MOUNTAIN	67*	7200	1964	48.4	3-25	186	82	4-15	156	78	4-28	150	75	5- 9	116	64	5-29	48	27			
LAKE STERLING	70*	7100	1965	53.3	3-25	192	86	4-15	156	78	4-28	156	78	5- 9	132	73	5-29	52	30			
DONNER SUMMIT	69*	6900	1965	38.6	3-25	162	75	4-15	132	61	4-28	132	70	5- 9	100	55	5-29	28	16			
FURNACE FLAT	76*	6700	1965	46.8	3-25	168	84				4-28	132	73	5- 9	103	57	5-29	48	32			
LAKE FORDYCE	77*	6500	1965	40.0	3-25	144	68	4-15	126	63	4-28	126	69	5- 9	96	53	5-29	24	14			
AMERICAN RIVER																						
UPPER CARSON PASS	106*	8500	1961	34.6	3-29	145	68	4-16	126	63	5- 1	113	58				6- 2	36	22			
LYONS LAKE	552	8500	1964	--	4- 4	192	96	4-16	189	98	5- 9	155	85				6- 3	96	52			
LAKE LOIS	502	8250	1963	--				4-16	93	48	5- 9	74	41				6- 3	6	4			
LAKE 3	501	8200	1963	--	4- 4	199	99	4-16	204	106	5- 9	166	91				6- 3	102	55			
PHIPPS CREEK	503	7600	1963	--	4- 4	91	45	4-16	94	49	5- 9	62	34				6- 3	0	0			
LOST CORNER MOUNTAIN	338*	7500	1963	32.4	4- 4	117	59	4-16	110	59	5- 9	72	40				6- 3	0	0			
WILLOW FLAT	551	7400	1964	--													6- 3	0	0			
TWO PEAKS	548	7350	1964	--	4- 4	116	58	4-16	117	60	5- 9	76	42				6- 3	0	0			
SHADOW LAKE	550	7300	1964	--	4- 4	156	78	4-16	144	73	5- 9	117	64				6- 3	34	19			
SILVER LAKE	109*	7100	1961	22.8	3-29	106	51	4-16	84	43	5- 1	66	36				6- 2	0	0			
NIGGER FLAT	555	6950	1964	--	4- 4	90	45	4-16	93	47	5- 9	54	30				6- 3	0	0			

TABLE 3 - AERIAL SNOW DEPTH MEASUREMENTS, APRIL - JUNE 1969 (CONTINUED)

AREA, DRAINAGE BASIN, AND AERIAL MARKER	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND ESTIMATED WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
AMERICAN RIVER (CONTINUED)																						
WRIGHTS LAKE	316*	6900	1963	32.6	4- 4	129	65	4-16	126	64	5- 9	82	45				6- 3	0	0			
QUINNS CORRAL	553	6800	1966	--	4- 4	131	66	4-16	130	66	5- 9	84	46				6- 3	10	6			
UPPER BASSI	549	6350	1964	--	4- 4	79	40	4-16	72	37	5- 9	26	14				6- 3	0	0			
HELLS DELIGHT	554	5750	1964	--	4- 4	56	28	4-16	40	20	5- 9	0	0				6- 3	0	0			
MOKELUMNE RIVER																						
BLUE LAKES	129*	8000	1961	34.8	3-29	174	73	4-16	148	71	5- 1	127	64	5- 9	108	58	6- 2	62	36			
PACIFIC VALLEY	132*	7500	1961	36.2	3-29	160	74	4-16	122	59	5- 1	103	57				6- 2	28	17			
BEAR VALLEY RIDGE 1	134*	6700	1961	25.4	3-25	108	45	4-16	93	45	5- 1	72	36	5- 9	48	26	5-29	0	0			
STANISLAUS RIVER																						
DEADMAN CREEK	345*	9250	1966	33.6	3-25	162	68	4-15	144	69	4-28	144	68	5- 9	112	58	5-29	78	43			
CLARK FORK MEADOW	344*	8900	1966	36.9	3-25	168	69	4-15	144	69	4-28	156	78	5- 9	105	55	5-29	67	37			
HIGHLAND MEADOW	323*	8800	1961	48.1	3-25	184	86	4-15	156	75	4-28	152	82	5- 9	126	65	5-29	68	38			
MOUNT REBA	566	8480	1969	--	3-29	197	97	4-16	174	84	5- 1	160	86	5- 9	160	77	6- 2	78	45			
LOWER RELIEF VALLEY	138*	8100	1961	38.5	3-25	170	73	4-15	144	69	4-28	114	58	5- 9	108	59	5-29	64	40			
SODA CREEK FLAT	139*	7800	1961	21.5																		
LAKE ALPINE	141*	7550	1961	40.6	3-25	176	86	4-16	139	67	5- 1	124	68	5- 9	100	52	6- 2	38	25			
EAGLE MEADOW	140*	7500	1961	23.8	3-25	120	50	4-15	96	46	4-28	94	47	5- 9	60	32	5-29	6	4			
RELIEF DAM	143*	7250	1961	19.4	3-25	108	44	4-15	84	40	4-23	72	34	5- 9	36	20	5-29	0	0			
TUOLUMNE RIVER																						
DANA MEADOWS	157*	9850	1952	29.3	3-28	139	60	4-16	121	56												
SAN JOAQUIN RIVER																						
HUMPHREYS BASIN	509	11600	1952	--	3-28	144	63	4-16	139	65												
EMERALD LAKE	184*	10600	1952	34.4	3-28	178	77	4-16	166	78												
PIONEER BASIN	276*	10400	1952	37.2	3-28	162	70	4-16	148	70												
ISLAND PASS	504	10300	1952	--	3-28	156	67	4-16	141	66												
BENCH CANYON	506	10200	1953	--	3-28	172	74	4-16	153	72												

TABLE 3 - AERIAL SNOW DEPTH MEASUREMENTS, APRIL - JUNE 1969 (CONTINUED)

AREA, DRAINAGE BASIN, AND AERIAL MARKER	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND ESTIMATED WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
SAN JOAQUIN RIVER (CONTINUED)																						
HEART LAKE	185*	10100	1952	27.5	3-28	134	58	4-16	118	56												
VOLCANIC KNOB	186*	10100	1953	30.7	3-28	142	60	4-16	132	63												
ROSE MARIE	187*	10000	1952	29.0	3-28	130	58	4-16	113	54												
COLBY MEADOW	188*	9700	1953	21.8	3-28	120	52	4-16	103	49												
MAMMOTH PASS	205*	9500	1953	41.9	3-28	216	92	4-16	192	90												
AGNEW PASS	189*	9450	1952	30.6	3-28	159	67	4-16	138	66												
KAISER PASS	190*	9100	1953	37.5	3-28	183	79	4-16	161	77												
DUTCH LAKE	191*	9100	1953	27.3	3-28	144	63	4-16	129	61												
COYOTE LAKE	192*	8850	1953	31.7	3-28	176	77	4-16	154	73												
CORA LAKES	193*	8400	1967	38.6				4-16	160	76												
STRING MEADOW	508	8400	1953	--	3-28	152	70	4-16	132	63												
TWIN MEADOWS	505	8400	1953	--	3-28	102	47	4-16	74	35												
CLOVER MEADOW	200*	7000	1967	23.1	3-28	140	64	4-16	110	52												
JACKASS MEADOW	201*	6950	1967	23.2	3-28	137	63	4-16	101	48												
CHIQUITO CREEK	202*	6800	1967	21.7	3-28	120	56	4-16	95	45												
KINGS RIVER																						
BISHOP PASS	222*	11200	1953	29.8	3-27	157	71	4-16	140	64												
TABOOSE PASS	536	11000	1954	--	3-27	156	70	4-16	144	67												
CARDINAL LAKE	513	10900	1959	--										5-16	78	41						
CHARLOTTE RIDGE	299*	10700	1960	29.4	3-27	195	88	4-16	162	75												
BENCH LAKE	510	10600	1966	--	3-27	150	68	4-16	128	59				5-16	96	51						
STATE LAKES	545	10350	1956	--	3-27	156	70	4-16	126	58	4-29	108	51	5-16	96	52	6- 3	60	33			
BLACKCAP BASIN	223*	10300	1953	32.6	3-28	173	74	4-16	159	73												
GRANITE BASIN	546	10000	1953	--	3-27	192	86	4-16	174	80	4-29	150	73	5-16	132	69	6- 3	90	49			
MITCHELL MEADOW	511	9900	1956	--	3-27	192	86	4-16	174	80	4-29	159	78	5-16	126	73						
RATTLESNAKE CREEK BASIN	515	9900	1953	--				4-16	216	95	4-29	174	85	5-16	151	78	6- 3	90	49			
BEARD MEADOW	225*	9800	1967	30.9	3-28	164	71	4-16	144	65				5-15	90	47						

TABLE 3 - AERIAL SNOW DEPTH MEASUREMENTS, APRIL - JUNE 1969 (CONTINUED)

AREA, DRAINAGE BASIN, AND AERIAL MARKER	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND ESTIMATED WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
KINGS RIVER (CONTINUED)																						
UPPER BURNT CORRAL MEADOW	224*	9700	1953	33.3	3-27	186	79	4-16	168	74												
SCENIC MEADOW	512	9650	1953	--	3-27	162	71	4-16	132	59	4-29	126	63	5-16	102	53						
UPPER WOODCHUCK MEADOW	341*	9100	1953	30.7	3-27	180	80	4-16	168	74	4-29	147	73	5-16	99	52	6- 3	36	20			
SWAMP MEADOW	228*	9000	1966	35.4	3-27	192	87	4-16	168	74	4-29	144	72	5-16	126	66	6- 3	60	33			
ROUND CORRAL	229*	9000	1967	32.8	3-27	198	87	4-16	180	88	4-29	150	71	5-16	120	63						
ROWELL MEADOW	226*	8850	1967	26.1				4-16	144	71	4-29	132	73	5-16	96	54						
WOODCHUCK MEADOW	227*	8800	1962	29.5	3-27	186	82	4-16	165	81	4-29	138	71	5-16	108	56	6- 3	36	20			
LONG MEADOW	232*	8500	1967	27.1	3-28	156	68	4-16	132	65				5-15	81	45						
STATUM MEADOW	233*	8300	1967	30.1	3-27	180	90	4-16	144	71	4-29	126	69	5-16	96	54	6- 3	42	23			
HELMS MEADOW	230*	8250	1967	24.2	3-27	156	73				4-29	108	59	5-16	72	40	6- 3	24	13			
DODSONS MEADOW	308*	8050	1966	27.4	3-27	162	70	4-16	123	60	4-29	102	54	5-16	72	40	6- 3	30	16			
HORSE CORRAL MEADOW	237*	7600	1967	17.0				4-16	96	47	4-29	78	43	5-16	36	20						
FRED MEADOW	239*	6950	1967	21.1				4-16	102	50	4-29	84	43	5-16	66	36						
KERN RIVER																						
UPPER TYNDALL CREEK	516	11400	1958	--				4-16	174	70	4-29	156	75				6- 3	75	41			
BIGHORN PLATEAU	250*	11350	1953	22.7	3-27	144	59	4-16	126	58	4-29	114	55				6- 3	54	30			
SIBERIAN PASS	252*	10900	1953	18.0	3-27	126	52	4-16	96	41	4-29	90	43				6- 3	36	20			
TYNDALL CREEK	255*	10650	1967	18.3	3-27	132	54	4-16	108	49	4-29	102	49				6- 3	24	13			
SHOTGUN PASS	517	10400	1959	--	3-27	170	70	4-16	141	63	4-29	123	59	5-16	93	48	6- 3	51	28			
CHAGOOPA PLATEAU	514	10300	1953	--	3-27	126	52	4-16	108	49	4-29	90	43	5-16	72	37	6- 3	24	13			
ROUND MEADOW	258*	9000	1953	25.3	3-27	156	71	4-16	126	69	4-29	108	59				6- 3	0	0			
WET MEADOW	518	8950	1957	--				4-16	132	63	4-29	102	54	5-16	66	36	6- 3	36	20			
RAMSHAW MEADOW	259*	8700	1953	11.2	3-27	96	39	4-16	60	30	4-29	54	28				6- 3	0	0			
LITTLE WHITNEY MEADOW	260*	8500	1964	13.2	3-27	108	46	4-16	72	36	4-29	48	24				6- 3	0	0			
CASA VIEJA MEADOWS	262*	8400	1964	18.8	3-27	126	59	4-16	102	51	4-29	90	49									
QUINN RANGER STATION	264*	8350	1953	19.9				4-16	114	57	4-29	90	49				6- 3	0	0			
BONITA MEADOWS	261*	8300	1964	13.7	3-27	114	52	4-16	78	39	4-29	66	36				6- 3	0	0			

TABLE 3 - AERIAL SNOW DEPTH MEASUREMENTS, APRIL - JUNE 1969 (CONTINUED)

AREA, DRAINAGE BASIN, AND AERIAL MARKER	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND ESTIMATED WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
KERN RIVER (CONTINUED)																						
MONACHE MEADOWS	263*	8000	1964	7.5	3-27	78	39	4-16	36	19	4-29	36	20				6- 3	0	0			
BEACH MEADOWS	265*	7650	1964	9.3	3-27	90	40	4-16	54	29	4-29	36	17				6- 3	0	0			
LAHONTAN AREA																						
CARSON RIVER																						
EBBETS PASS	562	8700	1964	--	3-28	140	59															
WET MEADOWS LAKE	561	8100	1964	--	3-28	132	57															
UPPER FISH VALLEY	563	8100	1961	--	3-28	78	34															
WOLF CREEK	560	8000	1966	--	3-28	132	57															
POISON FLAT	330*	7700	1961	15.6	3-28	82	35															
WALKER RIVER																						
CENTER MOUNTIAN	151*	9400	1961	35.4																		
LOBDELL LAKE	564	9200	1964	--	3-28	96	40															
MONO LAKE BASIN																						
DONAHUE PASS	522	10800	1952	--	3-28	152	64	4-16	139	63												
ALGER LAKE	521	10600	1952	--	3-28	121	51	4-16	108	49												
SLATE CREEK	520	10300	1952	--	3-28	142	60	4-16	125	56												
SADDLEBAG LAKE	519	10200	1952	--	3-28	214	90	4-16	199	89												
WARREN CREEK	523	10200	1953	--	3-28	130	55	4-16	111	50												
TIOGA PASS	181*	9800	1968	25.8				4-16	117	54												
OWENS RIVER																						
SCHOBER PASS	525	12300	1952	--	3-28	117	49	4-16	113	51												
MOUNT MORGAN	533	12000	1954	--	3-28	126	53	4-16	114	53												
PIUTE PASS	565	11700	1962	--																		
COYOTE RIDGE	527	11500	1952	--	3-28	183	73	4-16	182	82												
BIG PINE CREEK BASIN	534	11500	1954	--	3-27	180	76	4-16	156	75												
KEARSARGE PASS	539	11500	1954	--																		

TABLE 3 - AERIAL SNOW DEPTH MEASUREMENTS, APRIL - JUNE 1969 (CONTINUED)

AREA, DRAINAGE BASIN, AND AERIAL MARKER	CALIF. NUMBER (1)	ELEV IN FEET	RECORD BEGAN	AVERAGE APR 1 WC IN INCHES (2)	DEPTH AND ESTIMATED WATER CONTENT IN INCHES																	
					APRIL 1			MID-APRIL			MAY 1			MID-MAY			JUNE 1			SUPPLEMENTARY		
					DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC	DATE	DEPTH	WC
OWENS RIVER (CONTINUED)																						
LAKE DOROTHY	531	11400	1954	--	3-26	150	63	4-16	132	62												
SAWMILL PASS	537	11400	1954	--	3-27	174	73	4-16	156	72												
BISHOP LAKE	284*	11300	1953	19.0	3-28	120	50	4-16	115	52												
HUNGRY PACKER LAKE	526	11300	1950	--	3-28	207	87	4-16	205	92												
COTTONWOOD LAKES	541	11200	1954	--	3-27	132	55	4-16	120	54												
PIUTE LAKE (EAST)	524	11000	1952	--	3-28	157	66	4-16	141	63												
DRUNKEN SAILOR	530	11000	1953	--	3-28	135	57	4-16	126	57												
GEORGE LAKE	529	10600	1953	--	3-28	104	44	4-16	86	39												
GOLDEN TROUT CABIN	542	10600	1954	--	3-27	90	38	4-16	72	35												
SHEPHERDS PASS	540	10500	1955	--	3-27	186	78	4-16	168	77												
TREASURE LAKE	528	10200	1953	--	3-28	114	48	4-16	105	47												
BIG PINE LAKES	535	10100	1954	--	3-27	126	53	4-16	102	48												
ROCK CREEK LAKES	532	10000	1954	--	3-28	96	40	4-16	78	37												
HORSESHOE MEADOWS	543	10000	1954	--	3-28	96	40	4-16	78	37												
MAMMOTH PASS	205*	9500	1953	41.9	3-28	216	92	4-16	192	90												
ONION VALLEY	538	9000	1954	--	3-27	84	35	4-16	54	27												

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

(2) AVERAGE APRIL 1 WATER CONTENT FOR THE PERIOD, 1931-1965, IS THE AVERAGE FOR THE ASSOCIATED SNOW COURSE.

* AERIAL MARKER LOCATED ON OR NEAR SNOW COURSE WITH SAME NAME AND NUMBER.

TABLE 4

PRECIPITATION DATA

AREA, DRAINAGE BASIN, AND PRECIPITATION STATION	ELEVATION IN FEET	SOURCE OF DATA (1)	PRECIPITATION						
			MAY 1969			OCTOBER 1,1968 - MAY 31,1969			AVERAGE WATER YEAR (2) (INCHES)
			AVERAGE (2) (INCHES)	TOTAL FOR MONTH (INCHES)	IN PER-CENT OF AVERAGE	AVERAGE (2) (INCHES)	TOTAL FOR SEASON (INCHES)	IN PER-CENT OF AVERAGE	
NORTH COASTAL AREA									
SMITH RIVER									
ELK VALLEY	1711	USWB	3.53	1.02	29	77.82	73.99	95	81.12
GASQUET RS	384	USWB	5.14	2.28	44	89.59	91.07	102	93.03
CRESCENT CITY 11E	360	DWR	6.18	2.46	40	97.65	105.63	108	102.53
BROOKINGS, OREGON	80	USWB	4.52	-	-	75.31	-	-	80.72
CRESCENT CITY 1N	40	USWB	3.92	1.85	47	68.76	71.16	103	74.15
KLAMATH RIVER									
TULELAKE INSPECTION STATION	4408	DWR	1.72	.21	12	12.47	13.94	112	15.30
KLAMATH FALLS 2SSW, OREGON	4098	USBR	1.10	.85	77	11.95	11.72	98	14.02
TULELAKE	4035	USWB	1.20	.45	38	8.47	9.42	111	10.43
CALLAHAN RS	3136	USWB	.91	.44	48	18.49	22.24	120	19.90
MONTAGUE	2500	DWR	.96	.35	36	10.79	12.09	112	12.54
YREKA	2625	USWB	.99	.44	44	15.91	17.68	111	17.96
HAPPY CAMP RS	1090	USWB	2.11	.87	41	52.65	54.43	103	54.95
ORLEANS	403	USWB	2.40	.99	41	49.40	54.33	110	51.51
ORICK ARCATA REDWOOD CO	75	DWR	3.75	1.37	37	63.61	64.84	102	66.72
TRINITY RIVER									
COFFEE CREEK RS	2500	USWB	3.26	-	-	46.94	-	-	52.54
BURNT RANCH 1S	2150	USWB	1.78	.77	43	40.61	55.94	138	42.08
WEAVERVILLE RS	2050	USWB	1.57	.15	10	34.91	41.27	118	36.77
BIG BAR RS	1260	USWB	1.29	.17	13	35.14	46.72	133	36.67
EEL RIVER									
MAD RIVER RS	2775	USWB	2.19	.45	21	56.65	72.12	127	58.85
OLD HARRIS	2225	DWR	3.16	.38	12	69.18	84.29	122	71.02
HONOR CAMP NO 42	1875	DWR	3.36	1.74	52	72.27	81.92	113	74.93
COVELO	1385	USWB	1.12	.47	42	38.16	51.54	135	39.53
STANDISH-HICKEY STATE PARK	850	USWB	3.07	.20	7	72.85	80.42	110	74.48
HONEYDEW 2WSW	375	USWB	4.33	2.26	52	107.89	123.62	115	110.50
UPPER MATTOLE	255	USWB	3.18	1.68	53	77.53	90.69	117	79.62
BLUE LAKE	105	DWR	2.11	.94	45	45.28	51.67	114	46.99
SCOTIA	139	USWB	1.91	.73	38	46.82	62.54	134	48.23
FORT BRAGG	80	USWB	1.48	.29	20	36.94	49.53	134	38.18
EUREKA WB CITY	43	USWB	2.11	1.01	48	36.78	44.40	121	38.36

TABLE 4 - PRECIPITATION DATA (Continued)

AREA, DRAINAGE BASIN, AND PRECIPITATION STATION	ELEVATION IN FEET	SOURCE OF DATA (1)	PRECIPITATION						
			MAY 1969			OCTOBER 1,1968 - MAY 31,1969			AVERAGE WATER YEAR (2) (INCHES)
			AVERAGE (2) (INCHES)	TOTAL FOR MONTH (INCHES)	IN PER-CENT OF AVERAGE	AVERAGE (2) (INCHES)	TOTAL FOR SEASON (INCHES)	IN PER-CENT OF AVERAGE	
NORTH COASTAL AREA (CONTINUED)									
RUSSIAN RIVER									
CAZADERO	1040	USWB	2.63	.34	13	71.72	95.36	133	73.35
POTTER VALLEY PH	1014	PG+E	1.58	.07	4	42.74	47.39	111	44.02
UKIAH	623	USWB	1.12	0.00	0	35.40	49.74	141	36.25
BOONVILLE MAINT STATION	342	USWB	1.17	.02	2	36.32	53.54	147	37.15
SANTA ROSA	167	USWB	.89	.03	3	28.27	40.71	144	28.93
FORT ROSS	116	USWB	1.43	.18	13	37.63	46.08	122	38.89
HEALDSBURG	102	USWB	1.09	.03	3	39.00	61.39	157	39.89
SAN FRANCISCO BAY AREA									
MOUNT HAMILTON	4206	USWB	.89	-	-	25.75	-	-	26.11
GERBER RANCH	2140	USWB	.48	-	-	17.73	-	-	18.03
ANGWIN PAC UNION COLLEGE	1815	USWB	1.00	.09	9	37.09	57.91	156	37.79
LAGUNITAS LAKE	785	MMWD	1.38	0.00	0	47.23	58.80	124	48.09
LIVERMORE 2SSW	545	USWB	.47	0.00	0	14.05	18.30	130	14.31
SAN JOSE	70	CSJ	.41	.03	7	13.06	19.16	147	13.28
NAPA STATE HOSPITAL	60	USWB	.77	0.00	0	23.32	27.89	120	23.76
SAN FRANCISCO FOB	52	USWB	.58	0.00	0	20.02	24.95	125	20.42
REDWOOD CITY	31	USWB	.50	.01	2	18.87	28.58	151	19.19
OAKLAND WB AP	3	USWB	.60	0.00	0	17.56	24.18	138	17.90
CENTRAL COASTAL AREA									
SALINAS RIVER									
PRIEST VALLEY	2300	USWB	.49	.02	4	19.56	38.85	199	19.83
PASO ROBLES	700	USWB	.34	.06	18	13.13	30.03	229	13.41
SAN ARDO	435	DWR	.18	-	-	12.00	-	-	12.08
KING CITY	320	USWB	.23	0.00	0	10.35	18.04	174	10.50
SAN LUIS OBISPO POLY	300	USWB	.39	0.00	0	21.11	54.49	258	21.43
BIG SUR STATE PARK	235	USWB	1.05	.10	10	40.28	61.01	151	40.94
SALINAS FAA AP	75	USWB	.38	0.00	0	13.53	20.35	150	13.88
PT PIEDRAS BLANCAS	59	USWB	.48	.09	19	18.84	45.52	242	19.13
PAJARO RIVER									
HOLLISTER	285	USWB	.33	.01	3	12.87	19.40	151	13.16
SANTA CRUZ	125	USWB	.92	.08	9	30.06	44.82	149	30.62
WATSONVILLE WATER WORKS	95	USWB	.50	0.00	0	20.54	31.77	155	20.98

TABLE 4 - PRECIPITATION DATA (Continued)

AREA, DRAINAGE BASIN, AND PRECIPITATION STATION	ELEVATION IN FEET	SOURCE OF DATA (1)	PRECIPITATION						
			MAY 1969			OCTOBER 1, 1968 - MAY 31, 1969			AVERAGE WATER YEAR (2) (INCHES)
			AVERAGE (2) (INCHES)	TOTAL FOR MONTH (INCHES)	IN PER-CENT OF AVERAGE	AVERAGE (2) (INCHES)	TOTAL FOR SEASON (INCHES)	IN PER-CENT OF AVERAGE	
CENTRAL COASTAL AREA (CONTINUED)									
SANTA MARIA AND SANTA YNEZ RIVERS									
CACHUMA DAM	781	USBR	.37	-	-	18.29	-	-	18.71
LOS ALAMOS	565	USWB	.27	-	-	14.75	-	-	15.05
SANTA MARIA WB AP	238	USWB	.22	.01	5	12.77	21.13	165	13.10
SANTA BARBARA	100	USWB	.30	.06	20	17.31	30.37	175	17.55
SOUTH COASTAL AREA									
COASTAL PLAIN									
LOS ANGELES WB CITY	312	USWB	.14	.03	21	14.16	27.32	193	14.55
SANTA ANA FS	115	USWB	.23	.05	22	13.75	20.81	151	14.06
LOS ANGELES WB AP	97	USWB	.11	0.00	0	12.18	16.14	133	10.46
LAGUNA BEACH	56	USWB	.24	-	-	11.91	-	-	12.28
VENTURA	45	USWB	.19	0.00	0	14.01	16.98	121	14.17
LONG BEACH	34	USWB	.12	.07	58	12.56	22.19	177	12.86
SAN DIEGO WB AP	19	USWB	.15	.17	113	9.85	11.76	119	10.18
SANTA CLARA RIVER									
MINT CANYON - THE OAKS	2350	LACFCD	.25	.19	76	12.41	25.74	207	12.83
SAUGUS PP NO 1	2105	USWB	.38	.23	61	17.44	32.38	186	17.92
DRY CANYON RESERVOIR	1515	USWB	.31	.08	26	12.40	21.68	175	12.78
SANTA PAULA	263	USWB	.22	0.00	0	17.00	31.72	187	17.23
LOS ANGELES RIVER									
LOOMIS RANCH - ALDER CR	4300	LACFCD	.28	.32	114	17.23	36.25	210	18.18
HAINES CANYON UPPER	3450	LACFCD	.59	.14	24	27.56	51.29	186	28.33
BIG TUJUNGA DAM	2315	LACFCD	.41	.10	24	25.77	60.55	235	26.36
ARROYO SECO RS	1220	LACFCD	.37	.09	24	21.48	45.80	213	22.12
BURBANK WB AP	699	USWB	.17	0.00	0	14.14	26.50	187	14.53
SAN GABRIEL RIVER									
MT WILSON	5709	USWB	.44	-	-	31.84	-	-	32.68
SAN DIMAS TANBARK FLAT	2745	LACFCD	.31	.50	161	21.62	62.40	289	22.16
HOEGEES	2650	LACFCD	.61	.41	67	37.07	90.54	244	38.04
HENNINGER FLATS	2550	LACFCD	.59	.31	53	25.30	54.92	217	26.23
SAN GABRIEL DAM CAMP	1500	LACFCD	.34	.28	82	25.47	66.28	260	26.02
SAN DIMAS DAM	1350	LACFCD	.54	.22	41	20.70	45.62	220	21.27
CLAREMONT POMONA COLLEGE	1201	USWB	.24	.20	83	17.03	25.87	152	17.54

TABLE 4 - PRECIPITATION DATA (Continued)

AREA, DRAINAGE BASIN, AND PRECIPITATION STATION	ELEVATION IN FEET	SOURCE OF DATA (1)	PRECIPITATION						
			MAY 1969			OCTOBER 1,1968 - MAY 31,1969			AVERAGE WATER YEAR (2) (INCHES)
			AVERAGE (2) (INCHES)	TOTAL FOR MONTH (INCHES)	IN PER-CENT OF AVERAGE	AVERAGE (2) (INCHES)	TOTAL FOR SEASON (INCHES)	IN PER-CENT OF AVERAGE	
SOUTH COASTAL AREA (CONTINUED)									
SANTA ANA RIVER									
BIG BEAR LAKE	6745	USWB	.53	2.27	428	22.56	56.88	252	24.34
SQUIRREL INN NO 2	5680	USWB	.86	2.10	244	39.06	84.20	216	40.37
MT BALDY G S FC85G	4275	USWB	.52	1.42	273	31.44	83.85	267	32.44
LYTLE CREEK RS	2760	USWB	.62	1.14	184	30.12	78.11	259	30.86
ELSINORE	1285	USWB	.14	.27	193	10.89	22.34	205	11.40
SAN BERNARDINO CO HOSPITAL	1125	USWB	.41	1.21	295	16.43	31.38	191	17.04
SAN DIEGO COUNTY									
CUYAMACA	4650	USWB	1.11	.73	66	34.00	46.25	136	35.94
JULIAN WYNOLA	3650	USWB	1.08	.80	74	26.29	32.89	125	28.08
WARNER SPRINGS	3180	USWB	.32	2.07	647	14.08	24.87	177	15.86
CAMPO	2630	USWB	.37	.23	62	14.48	18.69	129	15.62
BARRETT DAM	1623	CSD	.44	.46	105	16.19	23.62	146	16.87
EL CAPITAN DAM	600	USWB	.49	.34	69	14.72	20.70	141	15.24
CENTRAL VALLEY AREA									
SACRAMENTO VALLEY FLOOR									
FRENCH GULCH	1100	USWB	1.57	.36	23	36.67	46.52	127	38.49
REDDING FS NO 2	577	USWB	1.58	0.00	0	33.91	42.50	125	35.36
ONO	980	USWB	2.30	0.00	0	30.87	49.07	159	32.74
VOLTA PH	2200	PG+E	1.70	.03	2	36.25	48.92	135	38.14
HARRISON GULCH RS	2710	USWB	1.60	.08	5	32.57	43.87	135	34.66
HUNTER DISTRICT - GRAVES	770	USWB	.59	0.00	0	21.23	33.92	160	23.22
MINERAL	4911	USWB	2.54	.03	1	48.72	70.34	144	51.45
RED BLUFF WB AP	341	USWB	1.07	0.00	0	20.73	29.24	141	21.71
CENTERVILLE PH	522	USWB	1.63	.02	1	41.78	58.32	140	42.89
PASKENTA RS	755	USWB	1.07	0.00	0	21.50	33.05	154	22.23
ORLAND	254	USWB	.64	0.00	0	18.25	25.77	141	19.07
CHICO EXP STATION	205	USWB	1.09	0.00	0	25.07	36.57	146	25.92
STONY GORGE RESERVOIR	791	USBR	.65	0.00	0	18.33	26.34	144	19.02
WILLOWS	140	USWB	.60	0.00	0	16.84	22.01	131	17.48
OROVILLE BRIDGE	165	USWB	1.12	0.00	0	26.93	36.79	137	27.72

TABLE 4 - PRECIPITATION DATA (Continued)

AREA, DRAINAGE BASIN, AND PRECIPITATION STATION	ELEVATION IN FEET	SOURCE OF DATA (1)	PRECIPITATION						
			MAY 1969			OCTOBER 1,1968 - MAY 31,1969			AVERAGE WATER YEAR (2) (INCHES)
			AVERAGE (2) (INCHES)	TOTAL FOR MONTH (INCHES)	IN PER-CENT OF AVERAGE	AVERAGE (2) (INCHES)	TOTAL FOR SEASON (INCHES)	IN PER-CENT OF AVERAGE	
SACRAMENTO VALLEY FLOOR (CONTINUED)									
EAST PARK RESERVOIR	1205	USBR	.62	0.00	0	18.08	25.83	143	18.71
STONYFORD COOLEY RANCH	3015	USWB	1.76	.52	30	49.96	65.09	130	51.24
COLUSA 1SSW	60	USWB	.60	0.00	0	15.13	21.81	144	15.55
MARYSVILLE	60	USWB	.75	0.00	0	19.91	28.70	144	20.41
LAKEPORT	1343	USWB	.81	.10	12	27.74	38.36	138	28.46
LEESVILLE KEEGAN RANCH	1330	USWB	.62	-	-	21.72	-	-	22.16
NICOLAUS NO 2	47	USWB	.63	.01	2	16.99	29.90	176	17.40
DUNNIGAN-POWERS RANCH	104	DWR	.39	.04	10	15.79	22.75	144	16.19
COBB	2520	DWR	1.87	.41	22	62.63	95.74	153	63.91
ROCKLIN	239	USWB	.88	0.00	0	22.52	34.25	152	22.94
CITRUS HEIGHTS	138	DWR	.91	.09	10	22.80	32.55	143	23.22
CAPAY 4W	300	DWR	.62	.07	11	21.66	32.13	148	22.06
WOODLAND 1WNW	69	USBR	.52	.05	10	16.33	24.89	152	16.63
SACRAMENTO WB CITY	25	USWB	.56	.09	16	17.38	25.36	146	17.77
DAVIS 2WSW	60	USBR	.52	-	-	16.27	-	-	16.57
WINTERS	135	USBR	.44	0.00	0	17.68	29.28	166	18.03
ARBUCKLE 5SSW	360	DWR	.51	-	-	15.71	-	-	15.96
SAN JOAQUIN VALLEY FLOOR									
CAMP PARDEE	658	USWB	.88	0.00	0	20.07	30.75	153	20.50
GALT	47	DWR	.58	.10	17	16.05	24.00	150	16.39
WALLACE 1SE	214	USWB	.68	0.00	0	19.21	27.61	144	19.59
RIO VISTA	22	USWB	.49	0.00	0	15.85	18.88	119	16.14
LODI	40	USWB	.56	.18	32	15.82	22.92	145	16.20
BRENTWOOD	85	DWR	.38	-	-	12.35	-	-	12.59
ANTIOCH FIBREBOARD MILL	28	USWB	.43	0.00	0	12.90	19.16	149	13.17
STOCKTON FS NO 4	11	USWB	.53	.06	11	14.03	19.96	142	14.35
OAKDALE	155	DWR	.58	-	-	13.94	-	-	14.20
KNIGHTS FERRY 2SE	315	USWB	.63	-	-	17.70	-	-	18.02
TRACY CARBONA	140	USWB	.40	0.00	0	9.13	12.96	142	9.34
MODESTO	91	USWB	.45	0.00	0	11.69	18.43	158	11.98
DENAIR 3NNE	137	USWB	.50	0.00	0	12.03	21.76	181	12.26

TABLE 4 - PRECIPITATION DATA (Continued)

AREA, DRAINAGE BASIN, AND PRECIPITATION STATION	ELEVATION IN FEET	SOURCE OF DATA (1)	PRECIPITATION						
			MAY 1969			OCTOBER 1,1968 - MAY 31,1969			AVERAGE WATER YEAR (2) (INCHES)
			AVERAGE (2) (INCHES)	TOTAL FOR MONTH (INCHES)	IN PER-CENT OF AVERAGE	AVERAGE (2) (INCHES)	TOTAL FOR SEASON (INCHES)	IN PER-CENT OF AVERAGE	
SAN JOAQUIN VALLEY FLOOR (CONTINUED)									
NEWMAN 2NW	108	USWB	.33	0.00	0	10.25	18.19	177	10.47
MERCED FS NO 2	169	USWB	.43	0.00	0	11.86	21.77	184	12.09
LOS BANOS	125	USWB	.29	0.00	0	8.67	14.04	162	8.85
DELTA RANCH	90	DWR	.37	0.00	0	9.23	16.84	182	9.43
FRIANT GOVERNMENT CAMP	410	USWB	.28	0.00	0	14.22	25.65	180	14.34
MADERA	268	USWB	.41	.02	5	10.46	20.84	199	10.69
MENDOTA DAM	166	USWB	.30	0.00	0	7.45	13.40	180	7.61
FRESNO WB AP	331	USWB	.30	.22	73	10.79	22.28	206	10.96
ORANGE COVE	431	USWB	.37	-	-	12.79	-	-	13.01
PANOCHE	1265	USWB	.28	0.00	0	8.33	13.88	167	8.48
LEMON COVE	513	USWB	.50	.11	22	13.51	26.87	199	13.82
VISALIA	354	USWB	.31	0.00	0	9.79	19.29	197	9.96
HANFORD	242	USWB	.23	.32	139	7.87	17.14	218	8.00
LINDSAY	395	USWB	.44	.20	45	11.22	22.66	202	11.49
COALINGA	671	USWB	.26	0.00	0	7.13	16.83	236	7.34
PORTERVILLE	393	USWB	.40	.23	57	10.74	21.45	200	10.93
ANGIOLA	205	USWB	.21	.11	52	7.26	15.67	216	7.46
WASCO	333	USWB	.23	.03	13	6.39	11.78	184	6.55
SOUTH BELRIDGE	575	DWR	.17	0.00	0	4.94	9.25	187	5.16
BAKERSFIELD WB AP	494	USWB	.20	.08	40	5.95	8.90	150	6.16
SAN EMIGDIO RANCH	1450	DWR	.31	-	-	8.18	-	-	8.48
TEHACHAPI	3975	USWB	.45	.02	4	10.05	17.56	175	11.09
TEJON RANCHO	1425	USWB	.55	0.00	0	11.55	15.78	137	11.90
PATTIWAY	3868	USWB	.27	.19	70	9.40	15.61	166	9.79
UPPER SACRAMENTO, PIT, AND MCCLOUD RIVERS									
JESS VALLEY	5290	USWB	2.10	.40	19	14.39	15.21	106	17.40
ALTURAS RS	4365	USWB	1.37	.29	21	11.02	10.67	97	13.10
BIEBER - CARY	4125	DWR	1.51	-	-	16.02	-	-	17.71
MOUNT SHASTA WB CITY	3544	USWB	1.99	1.03	52	34.15	41.38	121	36.70
MCCLOUD	3300	USWB	2.59	1.27	49	47.37	60.05	127	50.28
HAT CREEK PH NO 1	3015	PG+E	1.33	.15	11	16.41	21.79	133	18.08

TABLE 4 - PRECIPITATION DATA (Continued)

AREA, DRAINAGE BASIN, AND PRECIPITATION STATION	ELEVATION IN FEET	SOURCE OF DATA (1)	PRECIPITATION						
			MAY 1969			OCTOBER 1,1968 - MAY 31,1969			AVERAGE WATER YEAR (2) (INCHES)
			AVERAGE (2) (INCHES)	TOTAL FOR MONTH (INCHES)	IN PER-CENT OF AVERAGE	AVERAGE (2) (INCHES)	TOTAL FOR SEASON (INCHES)	IN PER-CENT OF AVERAGE	
UPPER SACRAMENTO PIT AND MCCLOUD RIVERS (CONTINUED)									
DUNSMUIR RS	2420	USWB	2.85	.98	34	54.28	66.18	122	57.83
PIT RIVER PH NO 5	1458	PG+E	3.63	.28	8	70.84	85.79	121	75.22
VOLLMERS	1359	USWB	2.87	-	-	63.89	-	-	66.65
SHASTA DAM	1076	USBR	2.45	.04	2	55.53	77.34	139	57.83
FEATHER RIVER									
BUCKS STORAGE RESERVOIR	5200	PG+E	3.31	-	-	67.28	-	-	69.54
SIERRAVILLE RS	4975	USWB	1.31	.49	37	24.36	35.95	148	25.84
VINTON	4945	DWR	1.03	.67	65	11.71	15.78	135	13.19
PORTOLA	4838	USWB	1.14	.06	5	19.36	28.73	148	20.81
CANYON DAM	4555	USWB	1.85	.07	4	36.88	50.57	137	38.61
CHESTER	4525	USWB	1.64	.15	9	30.44	43.27	142	32.34
BRUSH CREEK RS	3560	USWB	2.94	0.00	0	69.07	88.05	127	71.04
QUINCY RS	3409	USWB	1.93	.21	11	38.61	52.39	136	40.17
CARIBOU PH	2986	PG+E	1.88	.13	7	39.14	51.24	131	40.61
LAKE WILENOR	2040	DWR	1.99	.21	11	48.31	76.88	159	49.78
BUCKS CREEK PH (STORRIE)	1760	PG+E	2.79	.31	11	63.11	82.80	131	65.17
YUBA RIVER									
SODA SPRINGS 1E	6885	USWB	3.58	-	-	63.67	-	-	66.08
BOWMAN DAM	5347	USWB	3.61	.33	9	64.62	83.05	129	67.03
LAKE SPAULDING	5156	USWB	3.60	.28	8	64.65	89.09	138	66.90
DEER CREEK PH	3700	USWB	3.17	.10	3	66.20	99.58	150	67.87
DOWNIEVILLE RS	2895	USWB	3.20	.17	5	59.59	84.44	142	61.45
CAMPTONVILLE RS	2755	USWB	2.79	.04	1	57.97	71.23	123	59.43
GRASS VALLEY	2400	USWB	2.39	0.00	0	53.85	70.44	131	55.02
NEVADA CITY	2600	USWB	2.35	.03	1	52.16	77.73	149	53.31
INDIAN ROCK	2240	DWR	3.34	.03	1	66.46	85.01	128	67.74
DOBBINS COLGATE FOREBAY	1550	USWB	1.92	0.00	0	40.08	52.05	130	41.00
COLGATE PH	585	PG+E	1.80	0.00	0	38.93	51.98	134	39.81
NORTH SAN JUAN	2081	DWR	2.20	-	-	46.82	-	-	47.93

TABLE 4 - PRECIPITATION DATA (Continued)

AREA, DRAINAGE BASIN, AND PRECIPITATION STATION	ELEVATION IN FEET	SOURCE OF DATA (1)	PRECIPITATION						
			MAY 1969			OCTOBER 1,1968 - MAY 31,1969			AVERAGE WATER YEAR (2) (INCHES)
			AVERAGE (2) (INCHES)	TOTAL FOR MONTH (INCHES)	IN PER-CENT OF AVERAGE	AVERAGE (2) (INCHES)	TOTAL FOR SEASON (INCHES)	IN PER-CENT OF AVERAGE	
CENTRAL VALLEY AREA (CONTINUED)									
AMERICAN RIVER									
TWIN LAKES	7829	PG+E	2.48	1.42	57	44.99	68.66	153	48.06
BIG BEND RS	5739	USWB	3.69	.02	1	66.78	88.36	132	69.13
BLUE CANYON WB AP	5280	USWB	3.10	.51	16	59.56	89.51	150	61.35
DRUM FOREBAY	4640	PG+E	3.24	.32	10	59.69	62.61	105	61.50
SLY PARK	3530	USBR	2.26	.13	6	48.73	59.50	122	49.96
PACIFIC HOUSE	3440	USWB	2.19	.06	3	49.54	62.97	127	51.00
GEORGETOWN RS	3001	USWB	2.22	0.00	0	52.46	72.21	138	53.84
COLFAX	2418	USWB	2.11	.01	0	46.05	68.86	150	47.03
PLACERVILLE	1890	USWB	1.77	.02	1	38.78	49.82	128	39.70
AUBURN	1297	USWB	1.42	.15	11	34.20	48.40	142	34.89
FOLSOM DAM	350	USBR	.98	.01	1	23.14	34.60	150	23.58
MOKELUMNE RIVER									
SALT SPRINGS PH	3700	PG+E	2.42	.72	30	42.20	64.88	154	43.89
WEST POINT 3 SW	2365	USWB	1.49	-	-	35.77	-	-	36.78
TIGER CREEK PH	2355	PG+E	2.17	.06	3	44.61	62.65	140	45.79
FIDDLETOWN LYNCH RANCH	2140	USWB	1.35	0.00	0	33.34	52.77	158	34.20
ELECTRA PH	715	PG+E	1.31	0.00	0	29.14	39.17	134	29.77
STANISLAUS RIVER									
PINECREST	5620	PG+E	2.14	.49	23	40.23	66.41	165	42.00
SPRING GAP FOREBAY	4875	PG+E	1.82	.25	14	40.27	59.39	147	41.61
CALAVERAS BIG TREES	4696	USWB	2.37	.07	3	52.59	84.47	161	53.90
TUOLUMNE RIVER									
LAKE ELEANOR	4662	USWB	1.96	-	-	41.16	-	-	42.66
HETCH HETCHY	3870	USWB	1.99	.55	28	33.32	53.71	161	35.01
SONORA RS	1749	USWB	1.25	0.00	0	31.24	46.62	149	31.95
MERCED RIVER									
YOSEMITE NP	3985	USWB	1.53	.07	5	35.19	62.49	178	36.69
DUDLEYS	3000	USWB	1.31	.15	11	37.53	58.51	156	38.36
MARIPOSA	2011	USWB	.99	.14	14	29.45	51.56	175	29.99
EXCHEQUER RESERVOIR	484	USWB	.67	.11	16	18.71	32.17	172	19.10

TABLE 4 - PRECIPITATION DATA (Continued)

AREA, DRAINAGE BASIN, AND PRECIPITATION STATION	ELEVATION IN FEET	SOURCE OF DATA (1)	PRECIPITATION						
			MAY 1969			OCTOBER 1,1968 - MAY 31,1969			AVERAGE WATER YEAR (2) (INCHES)
			AVERAGE (2) (INCHES)	TOTAL FOR MONTH (INCHES)	IN PER-CENT OF AVERAGE	AVERAGE (2) (INCHES)	TOTAL FOR SEASON (INCHES)	IN PER-CENT OF AVERAGE	
CENTRAL VALLEY AREA (CONTINUED)									
UPPER SAN JOAQUIN RIVER									
FLORENCE LAKE	7345	SCEC	1.21	.91	75	21.15	45.50	215	23.66
HUNTINGTON LAKE	7020	USWB	1.73	1.07	62	30.99	60.99	197	32.50
CRANE VALLEY PH	3440	PG+E	1.64	.02	1	39.66	66.97	169	40.44
NORTH FORK RS	2630	USWB	1.38	0.00	0	32.88	58.91	179	33.54
AUBERRY 1 NNE	2006	USWB	.95	0.00	0	24.58	44.22	180	25.03
KINGS RIVER									
GRANT GROVE	6580	USWB	1.28	.11	9	43.60	85.20	195	44.25
BALCH PH	1720	USWB	1.13	.31	27	27.68	58.55	212	28.31
PINE FLAT DAM	615	USCE	.68	.03	4	19.13	34.44	180	19.44
KAWEAH RIVER									
GIANT FOREST	6412	USWB	1.87	.69	37	42.66	105.35	247	43.80
ASH MOUNTAIN	1708	USWB	1.13	.09	8	25.57	49.30	193	26.13
THREE RIVERS EDISON PH NO 2	950	USWB	.86	.08	9	20.67	42.39	205	21.06
TULE RIVER									
TULE RIVER INTAKE	2450	SCEC	.33	.16	48	26.32	50.93	194	26.70
KERN RIVER									
KERN RIVER INTAKE NO 3	3650	USWB	.36	.56	156	17.11	37.73	221	17.72
GLENNVILLE	3140	USWB	.82	.19	23	17.49	32.05	183	18.03
KERN RIVER PH NO 3	2703	USWB	.27	.17	63	10.76	25.46	237	11.31
WOFFORD HEIGHTS	2700	USWB	.15	.50	333	9.97	21.66	217	10.41
LAHONTAN AREA									
SURPRISE VALLEY									
CEDARVILLE	4670	USWB	1.05	.24	23	10.99	11.92	108	12.80
FORT BIDWELL	4498	USWB	1.12	.38	34	12.88	14.06	109	14.84
MADELINE PLAINS-HONEY LAKE									
RAVENDALE JIM MARR RANCH	5540	DWR	.70	.20	29	6.96	8.91	128	8.46
SUSANVILLE COURTHOUSE	4325	DWR	.93	.77	83	15.72	20.72	132	17.21
DOYLE	4240	USWB	.65	.73	112	9.03	13.55	150	10.19
SUSANVILLE AP	4148	USWB	.81	-	-	13.41	-	-	14.72
WENDEL 1E	4040	DWR	.49	.16	33	6.89	7.29	106	7.87

TABLE 4 - PRECIPITATION DATA (Continued)

AREA, DRAINAGE BASIN, AND PRECIPITATION STATION	ELEVATION IN FEET	SOURCE OF DATA (1)	PRECIPITATION						
			MAY 1969			OCTOBER 1,1968 - MAY 31,1969			AVERAGE WATER YEAR (2) (INCHES)
			AVERAGE (2) (INCHES)	TOTAL FOR MONTH (INCHES)	IN PER-CENT OF AVERAGE	AVERAGE (2) (INCHES)	TOTAL FOR SEASON (INCHES)	IN PER-CENT OF AVERAGE	
LAHONTAN AREA (CONTINUED)									
TRUCKEE AND TAHOE BASIN									
TAHOE CITY	6230	USWB	1.38	.15	11	30.18	50.01	166	31.74
TRUCKEE RS	5995	USWB	1.50	.69	46	29.95	46.09	154	31.59
CARSON RIVER									
WOODFORDS	5671	USWB	1.18	.14	12	18.66	29.81	160	21.52
WALKER RIVER									
BRIDGEPORT	6470	USWB	.56	.10	18	7.69	18.35	239	9.17
MONO BASIN									
ELLERY LAKE	9600	USWB	1.09	.44	40	21.37	30.46	143	23.99
GEM LAKE	8970	USWB	.97	.38	39	19.07	31.15	163	21.17
MONO LAKE	6450	USWB	.68	.05	7	15.61	17.47	112	17.05
OWENS RIVER									
WHITE MOUNTAIN NO 2	1247	USWB	.91	.74	81	12.76	19.84	155	14.38
SOUTH LAKE	9580	SCEC	.79	1.40	177	15.41	35.35	229	17.67
LAKE SABRINA	9065	SCEC	.75	1.42	189	15.19	23.16	152	17.41
CROOKED CREEK	6700	LADWP	.47	.20	43	9.10	20.37	224	10.18
BIG PINES PH NO 3	4680	LADWP	.23	.32	139	7.86	26.82	341	8.44
BISHOP WB AP	4108	USWB	.24	.27	112	5.18	13.56	262	5.75
INDEPENDENCE	3950	USWB	.12	.26	217	4.45	15.64	351	5.04
LA AQUEDUCT AT INTAKE	3841	LADWP	.16	.23	144	4.86	16.13	332	5.35
HAIWEE	3825	USWB	.12	.40	333	5.34	11.90	223	6.07
COTTONWOOD GATES	3710	LADWP	.11	.34	309	5.52	15.71	285	6.17
DEATH VALLEY									
DEATH VALLEY	-194	USWB	.06	-	-	1.38	-	-	1.80
MOJAVE DESERT									
BIG PINES CAMP	6860	LACFCD	.39	.89	228	23.46	54.04	230	24.92
FAIRMONT	3060	USWB	.25	.18	72	14.49	32.16	222	14.99
PALMDALE FAA AP	2517	USWB	.11	.06	55	7.89	5.51	70	8.37
INYOKERN	2440	USWB	.13	.22	169	3.37	4.80	142	4.15
DAGGETT FAA AP	1922	USWB	.09	0.00	0	3.62	2.02	56	4.54
BAKER 9NNW	1045	USWB	.09	.33	367	2.81	4.08	145	3.84

TABLE 4 - PRECIPITATION DATA (Continued)

AREA, DRAINAGE BASIN, AND PRECIPITATION STATION	ELEVATION IN FEET	SOURCE OF DATA (1)	PRECIPITATION						
			MAY 1969			OCTOBER 1,1968 - MAY 31,1969			AVERAGE WATER YEAR (2) (INCHES)
			AVERAGE (2) (INCHES)	TOTAL FOR MONTH (INCHES)	IN PER-CENT OF AVERAGE	AVERAGE (2) (INCHES)	TOTAL FOR SEASON (INCHES)	IN PER-CENT OF AVERAGE	
COLORADO DESERT AREA									
TWENTYNINE PALMS	1975	USWB	.03	.86	2867	2.50	2.17	87	3.97
IRON MOUNTAIN	922	USWB	.02	.12	600	2.06	3.80	184	2.99
NEEDLES FAA AP	913	USWB	.05	-	-	3.14	-	-	4.56
BLYTHE FAA AP	390	USWB	.02	0.00	0	2.53	1.48	58	3.84
YUMA, ARIZONA, WB AP	199	USWB	.04	.05	125	1.43	1.46	102	2.26
IMPERIAL	-64	USWB	.01	0.00	0	1.94	1.06	55	2.72
THERMAL FAA AP	-120	USWB	.01	.03	300	2.10	.84	40	2.85

(1) USWB - UNITED STATES WEATHER BUREAU. LACFCD - LOS ANGELES COUNTY FLOOD CONTROL DISTRICT. DWR - STATE OF 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) BASED UPON THE 35-YEAR PERIOD 1930-31 THROUGH 1964-65. WHEN THE PERIOD OF RECORD IS LESS THAN 35 YEARS, THE AVERAGE HAS BEEN COMPUTED BY COMPARISON WITH STATIONS HAVING COMPLETE RECORDS. AVERAGES ARE THEREFORE BASED UPON THE SAME PERIOD AND ARE COMPARABLE.

TABLE 5

RUNOFF DATA

AREA, STREAM, AND STATION (1)	SOURCE OF DATA (2)	MAY 1969				OCTOBER 1,1968 - MAY 31,1969			
		MEASURED FLOW (1000 AF)	UNIMPAIRED RUNOFF			MEASURED FLOW (1000 AF)	UNIMPAIRED RUNOFF		
			50-YEAR AVERAGE (3) (1000 AF)	TOTAL FOR MONTH (1000 AF)	IN % OF AVG		50-YEAR AVERAGE (3) (1000 AF)	TOTAL FOR SEASON (1000 AF)	IN % OF AVG
NORTH COASTAL AREA									
KLAMATH, COPCO TO ORLEANS (7)	USGS	1128.000	571.800	1164.200	204	4786.300	3747.700	4955.500	132
SALMON AT SOMESBAR	USGS	366.100	186.500	366.100	196	1429.000	1013.700	1429.000	141
TRINITY AT LEWISTON	USBR	9.500	229.300	521.000	227	81.600	992.600	1485.900	150
EEL AT SCOTIA	USGS	276.200	235.100	298.800	127	8353.000	5028.300	8542.400	170
RUSSIAN AT HEALDSBURG	USGS	36.400	20.900	17.700	85	1506.000	742.300	1383.900	186
SAN FRANCISCO BAY AREA									
NAPA NEAR ST HELENA	USGS	1.190	1.390	1.190	86	119.750	58.400	119.750	205
COYOTE CREEK NEAR MADRONE	USGS	2.380	1.050	.570	54	36.560	42.400	113.820	268
CENTRAL COASTAL AREA									
ARROYO SECO NEAR SOLEDAD	USGS	7.700	4.640	7.700	166	272.000	103.820	272.000	262
NACIMIENTO BELOW NACIMIENTO DAM, NEAR BRADLEY	USGS	35.700	3.540	5.400	153	500.200	185.450	620.210	334
SOUTH COASTAL AREA									
SESPE CREEK NEAR FILLMORE	USGS	6.800(4	3.150	6.800	216	465.680(4)	69.720	465.680	668
ARROYO SECO NEAR PASADENA	USGS	.990	.330	.990	300	36.270	5.060	36.270	717
SANTA ANA NEAR MENTONE	USGS	25.000(5	5.780	25.000	433	148.870(5)	48.010	180.560	376
SACRAMENTO VALLEY AREA									
INFLOW TO SHASTA (8)	USBR	813.800	494.500	813.800	165	6492.100	4376.500	6492.100	148
SACRAMENTO ABOVE BEND BRIDGE (9)	USGS	989.400	668.900	1070.800	160	8610.100	6464.400	10326.600	160
FEATHER, INFLOW TO OROVILLE	USGS/DWR	530.100	647.800	1341.400	207	3498.900	3501.100	6076.600	174
YUBA AT SMARTVILLE (6)	USGS/PGE	451.500	425.000	782.400	184	2223.400	1912.800	3127.500	164
AMERICAN, INFLOW TO FOLSOM	USBR/PGE	482.400	518.700	955.500	184	3497.700	2158.800	3801.900	176
COSUMNES AT MICHIGAN BAR	USGS	80.000	42.610	80.670	189	6480.600	319.090	666.660	209
MOKELUMNE, INFLOW TO PARDEE	EBMUD	282.300	193.900	383.100	198	920.100	543.500	1031.600	190
SAN JOAQUIN VALLEY AREA									
STANISLAUS, INFLOW TO MELONES	PGE	383.800	286.900	614.900	214	1305.500	813.900	1721.200	211
TUOLUMNE, INFLOW TO DON PEDRO	TID/CCSF	530.100	439.600	909.400	207	2046.500	1259.300	2596.500	206
MERCED, INFLOW TO EXCHEQUER	USGS	332.700	239.000	574.300	240	1037.800	672.400	1628.700	242
SAN JOAQUIN, INFLOW TO MILLERTON	USBR	466.000	420.400	1096.100	261	1669.100	1040.600	2525.100	243

TABLE 5 - RUNOFF DATA (Continued)

AREA, STREAM, AND STATION (1)	SOURCE OF DATA (2)	MAY 1969				OCTOBER 1,1968 - MAY 31,1969			
		MEASURED FLOW (1000 AF)	UNIMPAIRED RUNOFF			MEASURED FLOW (1000 AF)	UNIMPAIRED RUNOFF		
			50-YEAR AVERAGE (3) (1000 AF)	TOTAL FOR MONTH (1000 AF)	IN % OF AVG		50-YEAR AVERAGE (3) (1000 AF)	TOTAL FOR SEASON (1000 AF)	IN % OF AVG
SAN JOAQUIN VALLEY AREA (CONTINUED)									
KINGS, INFLOW TO PINE FLAT	USCE	654.400	421.200	1116.100	265	1705.400	966.500	2381.600	246
KAWEAH, INFLOW TO TERMINUS	USCE	203.280	101.030	282.450	280	714.340	277.740	842.520	303
TULE, INFLOW TO SUCCESS	USCE	43.730	20.910	73.230	350	336.860	111.610	421.310	377
KERN NEAR BAKERSFIELD	KCLC	332.000	145.000	618.000	426	1149.200	422.300	1493.900	354
LAHONTAN AREA									
TRUCKEE, TAHOE TO FARAD (7)	USGS	211.770	104.370	238.130	228	488.050	286.300	517.900	181
WEST FORK CARSON AT WOODFORDS	USGS	48.740	21.120	48.740	231	76.840	47.410	76.840	162
EAST FORK CARSON NEAR GARDNERVILLE	USGS	156.700	66.540	156.700	235	295.390	153.760	295.390	192
WEST WALKER BELOW LITTLE WALKER, NEAR COLEVILLE	USGS	98.790	43.920	98.790	225	146.080	84.110	146.080	174
EAST WALKER NEAR BRIDGEPORT	USGS	43.760	13.130	56.820	431	123.110	54.320	134.410	248
OWENS BELOW LONG VALLEY DAM	LADWP	37.220	12.930	38.700	299	176.840	87.940	127.780	145
COLORADO DESERT AREA									
COLORADO, INFLOW TO LAKE POWELL	USBR	786.000	2573.400	2924.000	114	5410.000	6279.800	7165.000	114

(1) RESERVOIR INFLOW DATA ARE BASED ON OBSERVED FLOWS AT STATIONS DOWNSTREAM FROM LISTED FACILITY.
(2) USGS - U S GEOLOGICAL SURVEY, USBR - US BUREAU OF RECLAMATION, USCE - U S CORPS OF ENGINEERS, PGE - PACIFIC GAS AND ELECTRIC CO, EBMUD - EAST BAY MUNICIPAL UTILITY DIST, TID - TURLOCK IRRIGATION DIST, CCSF - CITY AND COUNTY OF SAN FRANCISCO, LADWP - LOS ANGELES DEPARTMENT OF WATER AND POWER, KCLC - KERN COUNTY LAND CO.
(3) COMPUTED FOR 50 YEAR PERIOD, 1915-16 THROUGH 1964-65.
(4) INCLUDES FILLMORE IRRIGATION COMPANY CANAL.
(5) INCLUDES SOUTHERN CALIFORNIA EDISON COMPANY CANAL.
(6) INCLUDES DEER CREEK.
(7) ACCRETIONS BETWEEN STATIONS.
(8) COMPUTED FROM OPERATING RECORDS-- UNADJUSTED FOR UPSTREAM REGULATION.
(9) UNIMPAIRED FLOWS COMPATIBLE TO THOSE AT DISCONTINUED STATION NEAR READ BLUFF.

SNOWMELT PROBABILITY ANALYSIS

FEDERAL STATE RIVER FORECAST CENTER, SACRAMENTO, CALIF.
MONDAY, JUNE 9, 1969 AT 1500 PDST.

FORECASTS HAVE BEEN PREPARED FOR KEY BASINS IN CALIFORNIA AND NEVADA. THE MOST PROBABLE FORECAST INDICATES FLOW EXPECTED WITH NORMAL SPRING TEMPERATURES. THE PROBABLE MAXIMUM FORECAST INDICATES TYPE OF FLOW IF TEMPERATURES ARE AMONG THE HIGHEST OF RECORD. PROBABLE MINIMUM INDICATES THE FLOW IF THE TEMPERATURES ARE AMONG THE LOWEST OF RECORD. IT SHOULD BE NOTED THAT THE MOST PROBABLE PEAK SHOWN IS BASED ON AVERAGE CONDITIONS. ACTUAL EVENTS CAN DEPART SIGNIFICANTLY FROM THE AVERAGE, DEPENDING ON TEMPERATURE DISTRIBUTION.

.....EXPLANATION OF THE FORMAT OF THE FORECASTS.....
THE FLOW FORECASTS FOR THE NEXT 5 DAYS BEGIN WITH THE DATE OF THE BULLETIN AS THE FIRST DAY. THE DAYS INDICATED 6-10, 11-15, ETC. ARE FOR SUCCEEDING 5 DAY PERIODS BEYOND THE INITIAL 5 DAY PERIOD.

. . . . . PROBABILITY EXPLANATION . . . . . .

EACH 5 DAY PROBABILITY PROJECTION ASSUMES THAT NEAR NORMAL TEMPERATURES HAVE OCCURRED PRIOR TO THAT 5 DAY PERIOD. IF ABOVE NORMAL TEMPERATURES OCCUR IN ANY PERIOD, LATER FLOWS WILL BE REDUCED AS A FUNCTION OF THE SMALLER PACK BALANCE REMAINING. PROBABLE MAX FLOWS MAY NOT BE COMBINED AS THE PACK VOLUME WOULD BE INADEQUATE TO MAINTAIN SUCH FLOWS IN SUCCESSIVE PERIODS EVEN IF NEAR RECORD HIGH TEMPERATURES OCCURRED FOR LONGER THAN FIVE DAYS.

SNOW MELT ANALYSIS FOR 6 9 1969

RUNOFF PROJECTION FOR KERN RIVER ABOVE ISABELLA
ALL FORECASTS IN THOUSANDS OF ACRE FEET OF FULL NATURAL FLOW
DIVIDE BY TWO FOR THOUSANDS OF DAY SECOND FEET
ALL FORECASTS IN THOUSANDS OF ACRE FEET
MOST PROBABLE FLOW NEXT FIVE DAYS 19.5 18.3 17.8 17.4 17.0 TOTAL 90.0
PROBABILITY PROJECTIONS IN THOUSANDS OF ACRE FEET

FOR DAYS	6-10	11-15	16-20	21-25	26-30
MOST PROBABLE	80.7	75.6	65.2	53.1	42.3
PROBABLE MAX	90.2	86.1	72.9	59.6	46.6
PROBABLE MIN	71.3	61.7	51.7	43.4	35.9

MOST PROBABLE PEAK DATE 6 2 MAGNITUDE 25.1

RUNOFF PROJECTION FOR KINGS RIVER ABOVE PINE FLAT
ALL FORECASTS IN THOUSANDS OF ACRE FEET OF FULL NATURAL FLOW
DIVIDE BY TWO FOR THOUSANDS OF DAY SECOND FEET
MOST PROBABLE FLOW NEXT FIVE DAYS 40.8 38.0 37.0 36.4 36.5 TOTAL 188.7
PROBABILITY PROJECTIONS IN THOUSANDS OF ACRE FEET

FOR DAYS	6-10	11-15	16-20	21-25	26-30
MOST PROBABLE	187.7	176.2	147.1	112.7	80.0
PROBABLE MAX	225.5	213.5	175.6	131.1	94.8
PROBABLE MIN	158.4	136.5	108.6	79.6	57.7

MOST PROBABLE PEAK DATE 6 2 MAGNITUDE 56.4