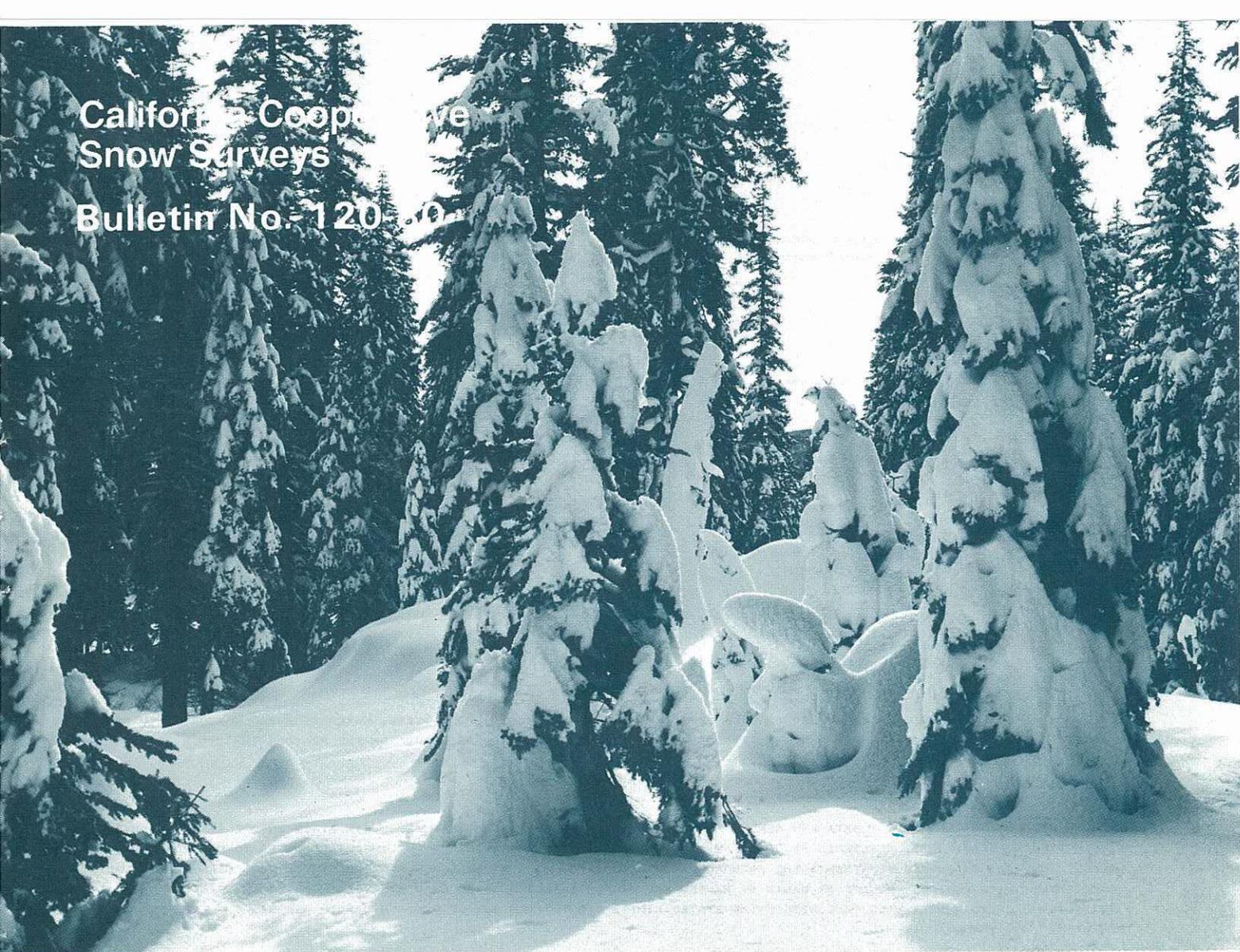


California Cooperative
Snow Surveys

Bulletin No. 120-50



State of California
The Resources Agency

Department of
Water Resources



Water Conditions in California

Report No. 1 February 1, 1980

Huey D. Johnson
Secretary for Resources
The Resources Agency

Edmund G. Brown Jr.
Governor
State of California

Ronald B. Robie
Director
Department of Water Resources

STATE OF CALIFORNIA
EDMUND G. BROWN JR., GOVERNOR

THE RESOURCES AGENCY
HUEY D. JOHNSON, SECRETARY FOR RESOURCES

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WATER CONDITIONS INDEXES

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, 1931-1975 (45 YEARS).

PRECIPITATION - AVERAGES ARE BASED ON THE PERIOD, 1931-1975 (45 YEARS).

RUNOFF AND FORECASTS - RUNOFF DATA AND RUNOFF FORECASTS SHOWN ARE UNIMPAIRED VALUES. UNIMPAIRED RUNOFF IS WHAT WOULD OCCUR UNDER NATURAL CONDITIONS, UNALTERED BY UPSTREAM DIVERSIONS, STORAGE, OR BY EXPORT OR IMPORT OF WATER TO OR FROM OTHER WATERSHEDS. UNIMPAIRED RUNOFF REPRESENTS THE NATURAL WATER PRODUCTION OF A RIVER BASIN. 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, 1926-1975 (50 YEARS).

S. I. METRIC CONVERSION FACTORS PERTINENT TO DATA APPEARING IN THIS REPORT ARE: 1 ACRE-FOOT = 1.2335 CUBIC DEKAMETRES
1 INCH = 25.4 MILLIMETRES OR 2.54 CENTIMETRES, 1 FOOT = .305 METRES, 1 MILE = 1.6093 KILOMETRES.

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
KAWAIAH DELTA WATER CONSERVATION DISTRICT
KAWAIAH RIVER ASSOCIATION
KERN DELTA WATER DISTRICT
KINGS RIVER CONSERVATION DISTRICT
KINGS RIVER WATER ASSOCIATION
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
LOWER TULE RIVER IRRIGATION DISTRICT
MERCED IRRIGATION DISTRICT
MODESTO IRRIGATION DISTRICT
NEVADA IRRIGATION DISTRICT
NORTH KERN WATER STORAGE DISTRICT
OAKDALE IRRIGATION DISTRICT
OMOCHUMNE-HARTNELL WATER DISTRICT
OROVILLE-WYANDOTTE IRRIGATION DISTRICT
PLACER COUNTY WATER AGENCY
SACRAMENTO MUNICIPAL UTILITY DISTRICT
ST. JOHNS RIVER ASSOCIATION
TULARE LAKE BASIN WATER STORAGE DISTRICT
TRI-DAM PROJECT

PUBLIC AGENCIES (CONTINUED)

TULE RIVER ASSOCIATION
TURLOCK IRRIGATION DISTRICT
YUBA COUNTY WATER AGENCY

PRIVATE ORGANIZATIONS

J. G. BOSWELL COMPANY
UNION CARBIDE CORPORATION

PUBLIC UTILITIES

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

MUNICIPALITIES

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

STATE AND FEDERAL AGENCIES

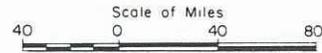
CALIFORNIA DEPARTMENT OF FORESTRY
CALIFORNIA DEPARTMENT OF WATER RESOURCES
CALIFORNIA DEPARTMENT OF PARKS AND RECREATION
U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE (14 NATIONAL FORESTS)
PACIFIC SOUTHWEST FOREST AND RANGE EXPERIMENT STATION
SOIL CONSERVATION SERVICE
U. S. DEPARTMENT OF COMMERCE
NATIONAL WEATHER SERVICE
U. S. DEPARTMENT OF THE INTERIOR
WATER AND POWER RESOURCES SERVICE
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

**NORTH
COASTAL**

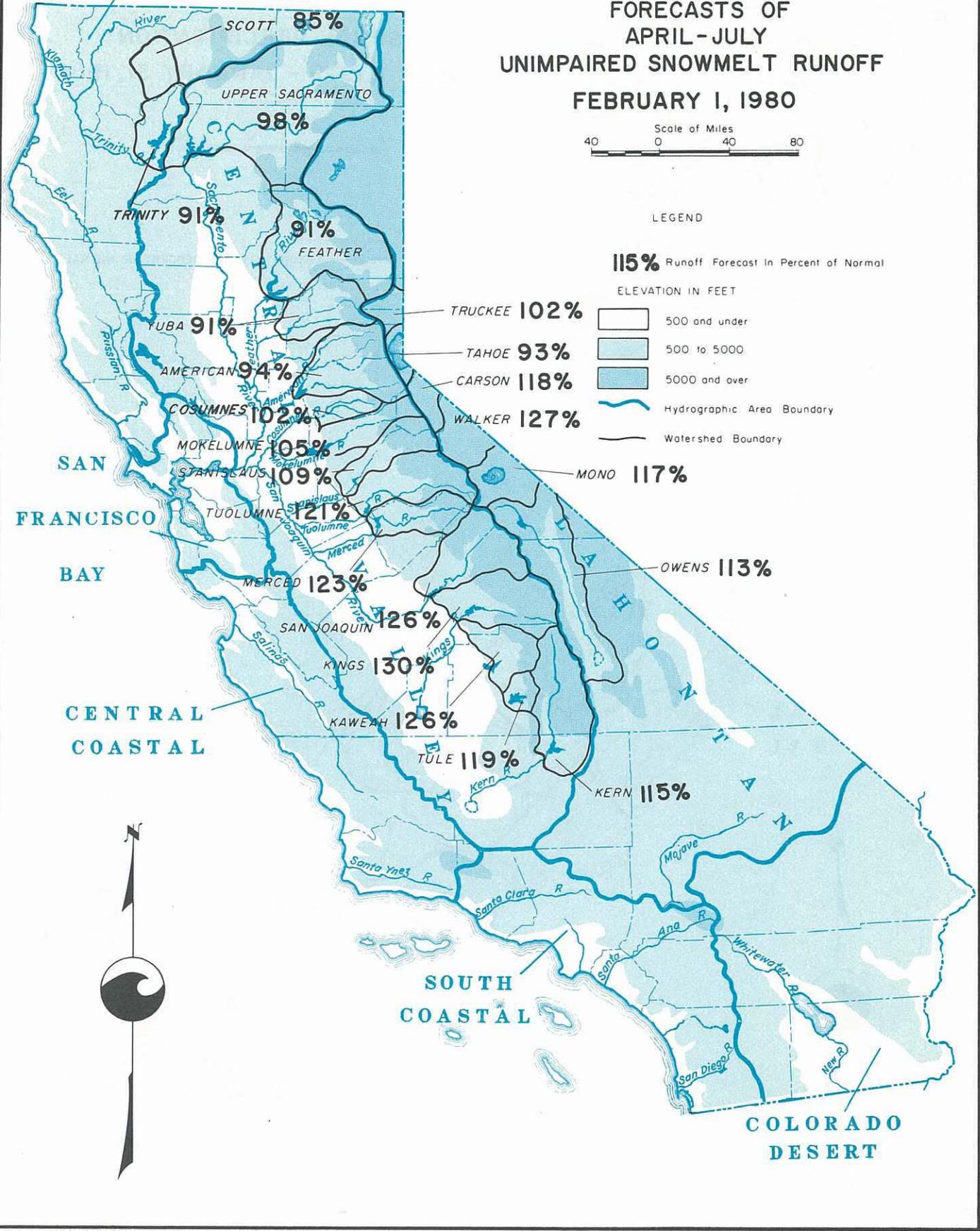
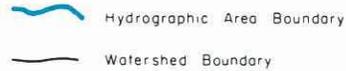
**FORECASTS OF
APRIL-JULY
UNIMPAIRED SNOWMELT RUNOFF
FEBRUARY 1, 1980**



LEGEND

115% Runoff Forecast In Percent of Normal

ELEVATION IN FEET



**SAN
FRANCISCO
BAY**

**CENTRAL
COASTAL**

**SOUTH
COASTAL**

**COLORADO
DESERT**

SUMMARY OF WATER CONDITIONS

FEBRUARY 1, 1980

THE EFFECTS OF STORMS IN LATE DECEMBER AND IN MID-JANUARY INDICATE CALIFORNIA SHOULD HAVE NEAR NORMAL WATER SUPPLIES DURING 1980. THE HEAVY JANUARY RAINS MELTED SOME OF THE LOW ELEVATION SNOWPACK AND CAUSED HIGH STREAMFLOWS AND LOCAL FLOODING IN CENTRAL AND SOUTHERN CALIFORNIA, BUT RESERVOIR STORAGE IS NOW EXCELLENT IN ALL AREAS. FORECASTS OF SPRING AND SUMMER SNOWMELT RUNOFF INDICATE LITTLE LIKELIHOOD OF WATER DEFICIENCIES THIS YEAR.

FORECASTS OF UNIMPAIRED APRIL-JULY RUNOFF IN CENTRAL VALLEY STREAMS RANGE FROM 90 PERCENT OF AVERAGE FOR THE FEATHER RIVER TO 130 PERCENT FOR THE KINGS. ALL STREAMS SOUTH OF THE AMERICAN RIVER ARE FORECASTED TO PRODUCE ABOVE NORMAL FLOWS DURING THE SNOWMELT PERIOD. BASED ON THE FEBRUARY 1 RUNOFF FORECASTS, 1980 WILL BE CLASSIFIED AS A "ABOVE NORMAL" YEAR UNDER THE STATE WATER RESOURCES CONTROL BOARD CLASSIFICATION SYSTEM FOR THE SACRAMENTO RIVER DRAINAGE AREA. EAST SIDE SIERRA STREAMS WILL ALL HAVE NORMAL OR SLIGHTLY ABOVE NORMAL SNOWMELT RUNOFF, EXCEPT THE SPRING RISE IN THE LEVEL OF LAKE TAHOE IS FORECASTED TO BE ONLY 93 PERCENT OF NORMAL THIS YEAR.

SNOWPACK DATA, BASED ON THE FIRST SNOW SURVEYS OF THE YEAR, SHOW THAT THE PACK IS DENSER THAN NORMAL FOR FEBRUARY DUE TO SOME RETENTION OF RAINFALL FROM THE MID-JANUARY STORMS, SO ALTHOUGH THE SNOWPACK WAS PARTIALLY DEPLETED BY RAIN, THE REMAINING SNOW IS STORING MORE WATER THAN USUAL. THE SNOWPACK AVERAGED 80 PERCENT OF NORMAL FEBRUARY 1 WATER CONTENT IN THE SACRAMENTO VALLEY RIVER BASINS, 115 PERCENT IN SAN JOAQUIN VALLEY TRIBUTARY WATERSHEDS, AND 125 PERCENT IN THE LAHONTAN AREA. IN TERMS OF SEASONAL SNOW ACCUMULATION, ONE-HALF TO THREE-QUARTERS OF THE TOTAL SEASONAL ACCUMULATION HAS BEEN RECEIVED.

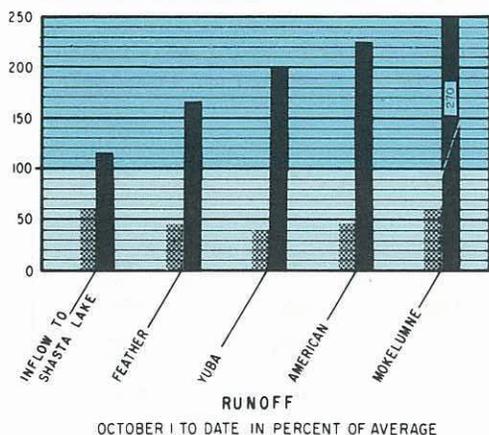
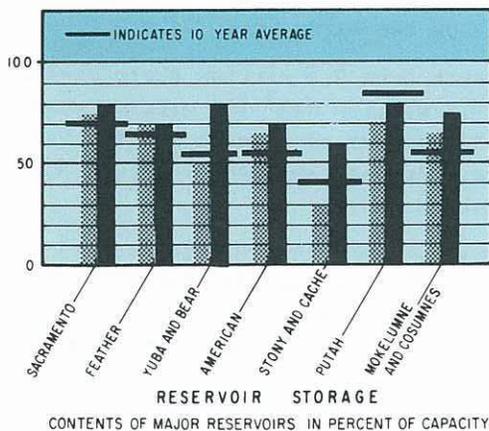
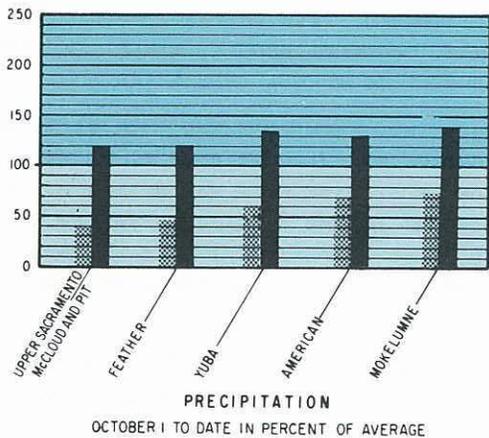
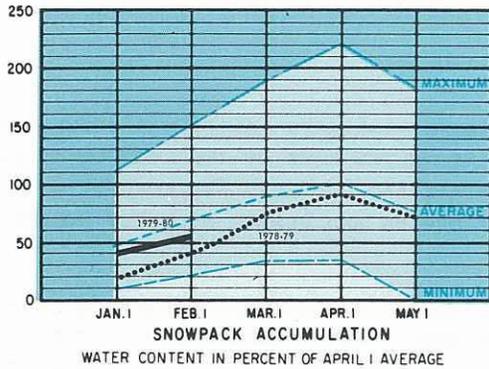
PRECIPITATION DURING JANUARY WAS ABOUT 90 PERCENT OF NORMAL ON THE NORTH COAST AND IN THE NORTHERN PORTION OF THE SACRAMENTO VALLEY, 150 TO 200 PERCENT OF NORMAL IN THE SAN JOAQUIN VALLEY, AND WELL ABOVE AVERAGE (UP TO 300 PERCENT) IN THE SOUTHERN SIERRA AND ON THE SOUTH COAST. TOTAL PRECIPITATION FOR THE WATER YEAR TO DATE HAS BEEN 125 PERCENT IN THE SACRAMENTO VALLEY AND 145 PERCENT IN THE SAN JOAQUIN VALLEY. PRECIPITATION IN TWO SMALL AREAS, ONE ON THE NORTH COAST AND ONE ON THE CENTRAL COAST, STILL REMAIN SLIGHTLY BELOW AVERAGE FOR THE WATER YEAR.

RUNOFF DURING JANUARY IN CENTRAL VALLEY STREAMS TOTALED OVER 9.8 MILLION CUBIC DEKAMETRES (7.9 MILLION ACRE-Feet). WATER YEAR RUNOFF TO DATE TOTALED 13.5 MILLION DAM³ (11 MILLION AC-FT) OR 165 PERCENT OF AVERAGE. FLOWS TO DATE RANGED FROM A LOW OF 112 PERCENT OF AVERAGE FOR THE UPPER SACRAMENTO RIVER TO A HIGH OF 293 PERCENT FOR THE KAWEAH RIVER. ALL STREAMS FROM THE YUBA RIVER SOUTH HAVE PRODUCED OVER TWICE NORMAL RUNOFF VOLUMES SINCE OCTOBER 1.

RESERVOIR STORAGE IN THE SACRAMENTO VALLEY IS 1.6 MILLION DAM³ (1.3 MILLION AC-FT) GREATER THAN ONE YEAR AGO, AND 115 PERCENT OF NORMAL FOR FEBRUARY 1. IN THE SAN JOAQUIN VALLEY, STORAGE IS 135 PERCENT OF NORMAL, UP 379 000 DAM³ (307,000 AC-FT) OVER LAST FEBRUARY, AND IS 58 PERCENT OF AVAILABLE RESERVOIR CAPACITY. THIS UNUSED CAPACITY IS AVAILABLE FOR FUTURE FLOOD CONTROL OPERATIONS AND THE SPRING SNOWMELT.

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	APR-JULY FORECAST	WATER YEAR FORECAST
NORTH COAST	115	75	105	135	90	110
SAN FRANCISCO BAY	125	--	110	115	--	--
CENTRAL COASTAL	105	--	120	185	--	--
SOUTH COASTAL	130	--	140	80	--	--
SACRAMENTO VALLEY	125	80	115	150	100	120
SAN JOAQUIN VALLEY	145	115	135	240	125	135
LAHONTAN	110	125	100	150	115	120
COLORADO DESERT	75	--	--	--	--	--
STATEWIDE	125	100	120	155	105	120

SACRAMENTO RIVER BASIN



FEBRUARY 1, 1979

FEBRUARY 1, 1980

SNOWPACK - MEASUREMENTS OF SNOWPACK OBTAINED AT 86 SNOW COURSES AND 3 AUTOMATIC SNOW SENSORS ON OR ABOUT FEBRUARY 1 SHOW A BASIN AVERAGE WATER CONTENT OF 462 MM (18.2 INCHES). SNOW WATER CONTENT IS 81 PERCENT OF THE FEBRUARY 1 AVERAGE AND 52 PERCENT OF THE APRIL 1 AVERAGE. THIS COMPARES TO 39 PERCENT OF THE APRIL 1 AVERAGE MEASURED AT THIS TIME LAST YEAR.

THE SNOWPACK WAS DIMINISHED AT LOWER ELEVATIONS DUE TO THE MELT INDUCED BY WARM STORMS IN MID-JANUARY. THE STORMS ALSO INCREASED THE DENSITY OF THE MID-ELEVATION SNOWPACK AND ADDED TO THE SNOW ACCUMULATION AT THE HIGHER ELEVATIONS.

PRECIPITATION - OCTOBER THROUGH JANUARY PRECIPITATION OVER THE SACRAMENTO VALLEY AVERAGED 125 PERCENT OF NORMAL. ALL SUBDRAINAGES, INCLUDING MOST OF THE VALLEY FLOOR, WERE WELL ABOVE NORMAL. SEASONAL CATCHES WERE GENERALLY ABOUT DOUBLE THE AMOUNTS FOR THIS SAME PERIOD A YEAR AGO. EXAMPLES REPORTED WERE: DUNSMUIR, IN THE UPPER SACRAMENTO RIVER DRAINAGE, 910 MM (35.84 INCHES) OR 109 PERCENT; LAKE SPAULDING, IN THE YUBA, 1 462 MM (57.54 INCHES) OR 155 PERCENT; AND FOLSOM DAM, IN THE AMERICAN, 421 MM (16.57 INCHES) OR 128 PERCENT.

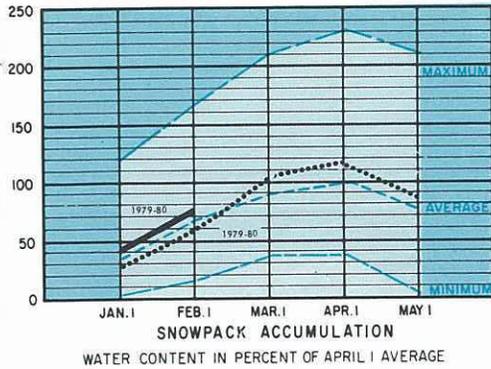
JANUARY PRECIPITATION AVERAGED 155 PERCENT OVER THE AREA. A HUGE VOLUME OF RAIN FELL DURING A 10-DAY STORM PERIOD. EXAMPLES OF MONTHLY TOTALS REPORTED WERE: PLUMAS EUREKA STATE PARK, 679 MM (26.74 INCHES) OR 216 PERCENT; LAKE SPAULDING 675 MM (26.58 INCHES) OR 206 PERCENT; BLUE CANYON 607 MM (23.91 INCHES) OR 193 PERCENT.

RESERVOIR STORAGE - FEBRUARY 1 STORAGE IN 47 MAJOR RESERVOIRS IN THE SACRAMENTO VALLEY WAS ABOUT 15.5 MILLION CUBIC DEKAMETRES (12.6 MILLION ACRE-Feet), UP ABOUT 1.6 MILLION DAM³ (1.3 MILLION AC-FT) FROM A YEAR AGO. PRESENT STORAGE IS 114 PERCENT OF THE AVERAGE FOR FEBRUARY 1 AND ABOUT 75 PERCENT OF AVAILABLE CAPACITY. ONLY SIX OF THE 47 RESERVOIRS IN THIS AREA WERE BELOW AVERAGE IN STORAGE ON FEBRUARY 1. THE FIRST UNCONTROLLED SPILL AT OROVILLE RESERVOIR SINCE 1974 OCCURRED DURING MID-JANUARY, AMOUNTING TO OVER 860 000 DAM³ (700,000 AC-FT).

RUNOFF - DURING JANUARY RUNOFF OF TRIBUTARIES TO THE SACRAMENTO VALLEY AMOUNTED TO 7.2 MILLION CUBIC DEKAMETRES (5.8 MILLION ACRE-Feet) OR 243 PERCENT OF AVERAGE, AND REPRESENTING 70 PERCENT OF THE FLOWS FOR THE WATER YEAR PERIOD OCTOBER THROUGH JANUARY. THE FLOWS FOR THIS FOUR-MONTH PERIOD WERE 10.4 MILLION DAM³ (8.4 MILLION AC-FT), OR ABOUT 150 PERCENT OF NORMAL. LAST YEAR RUNOFF FOR THIS SAME WATER YEAR PERIOD WAS 2.8 MILLION DAM³ (2.3 MILLION AC-FT), OR ABOUT 46 PERCENT OF NORMAL. THE MOKELUMNE UNIMPAIRED RUNOFF AT PARDEE RESERVOIR WAS THE HIGHEST OF 80 YEARS OF RECORD FOR THE MONTH OF JANUARY. THE INFLOW FOR THE MONTH WAS ABOUT 311 000 DAM³ (252,000 AC-FT), OR 542 PERCENT OF NORMAL.

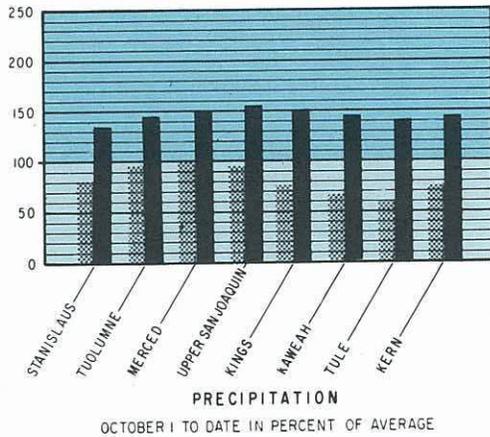
THE SACRAMENTO FOUR RIVER INDEX BASINS UNIMPAIRED RUN-OFF WOULD BE 23.7 MILLION DAM³ (19.2 MILLION AC-FT), ASSUMING MEDIAN PRECIPITATION FOR THE REST OF THE WATER YEAR. THIS CLASSIFIES THE WATER YEAR AS "ABOVE NORMAL" IN THE DELTA ACCORDING TO STATE WATER RESOURCES CONTROL BOARD DECISION 1485.

SAN JOAQUIN RIVER AND TULARE LAKE BASINS

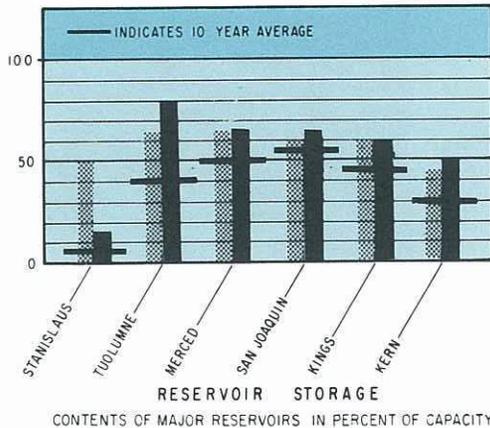


SNOWPACK - MEASUREMENTS OF SNOWPACK OBTAINED AT 79 SNOW COURSES, 48 AERIAL MARKERS, AND 9 AUTOMATIC SNOW SENSORS ON OR ABOUT FEBRUARY 1 SHOW A BASIN AVERAGE WATER CONTENT OF 554 MM (21.8 INCHES). SNOW WATER CONTENT IS 116 PERCENT OF THE FEBRUARY 1 AVERAGE AND 76 PERCENT OF THE APRIL 1 AVERAGE. THIS IS AN INCREASE OVER THE 1979 LEVEL OF 57 PERCENT OF THE APRIL 1 AVERAGE, BUT LESS THAN THE 103 PERCENT OF THE APRIL 1 AVERAGE AT THIS TIME IN 1978.

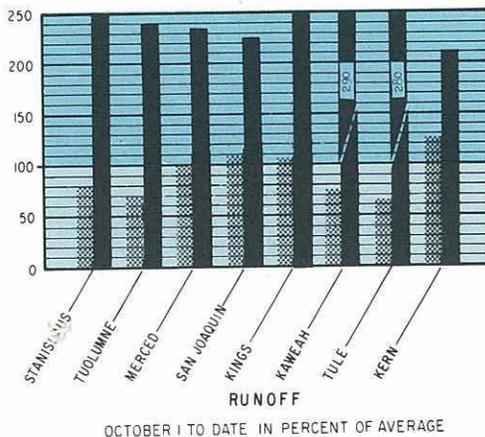
THE WARM CHARACTERISTICS OF THE MID-JANUARY STORMS RESULTED IN SOME LOSS OF THE LOW ELEVATION SNOWPACK, BUT IT INCREASED WATER CONTENTS AT HIGHER ELEVATIONS, AND INCREASED SNOW DENSITIES GENERALLY ABOUT 10 PERCENT GREATER THAN USUAL FOR FEBRUARY 1.



PRECIPITATION - PRECIPITATION FOR THE SEASON FROM OCTOBER THROUGH JANUARY AVERAGED 145 PERCENT OF NORMAL. SUB-DRAINAGE VALUES WERE ALL WELL ABOVE NORMAL. CATCH AMOUNTS WERE ONE-AND-ONE-HALF TO TWO TIMES MORE THAN THOSE EXPERIENCED A YEAR AGO. SUBSTANTIAL SEASONAL TOTALS WERE: CALAVARAS BIG TREES 1 112 MM (43.78 INCHES) OR 152 PERCENT; GRANT GROVE 903 MM (35.57 INCHES) OR 156 PERCENT; AND GLENNVILLE 393 MM (15.47 INCHES) OR 174 PERCENT. HEAVY JANUARY PRECIPITATION AVERAGED 265 PERCENT OF NORMAL OVER THE AREA. IMPRESSIVE JANUARY TOTALS REPORTED WERE: HUNTINGTON LAKE 495 MM (19.50 INCHES) OR 346 PERCENT; GRANT GROVE 621 MM (24.44 INCHES) OR 337 PERCENT; AND A RECORD JANUARY HIGH AT GLENNVILLE, IN THE KERN DRAINAGE, WITH 282 MM (11.12 INCHES) OR 347 PERCENT.



RESERVOIR STORAGE - FEBRUARY 1 STORAGE IN 31 MAJOR RESERVOIRS SERVING THE SAN JOAQUIN VALLEY WAS 8.6 MILLION CUBIC DEKAMETRES (7.0 MILLION ACRE-Feet) OR ABOUT 135 PERCENT OF AVERAGE AND ABOUT 58 PERCENT OF AVAILABLE CAPACITY. THIS WAS AN INCREASE OF ABOUT 380 000 DAM³ (300,000 AC-FT) OVER LAST YEAR'S FEBRUARY 1 STORAGE. ALL BUT FOUR OF THE 31 RESERVOIRS ARE ABOVE AVERAGE IN STORAGE. THE MOST IMPRESSIVE INCREASE WAS TERMINUS RESERVOIR ON THE KAWEAH RIVER WHICH INCREASED 385 PERCENT DURING THE MONTH OF JANUARY, ENDING WITH A FEBRUARY 1 STORAGE OF ABOUT 95 000 DAM³ (77,000 AC-FT) OR 570 PERCENT OF FEBRUARY 1 AVERAGE AND 51 PERCENT OF CAPACITY.



RUNOFF - DURING JANUARY, RUNOFF OF TRIBUTARIES TO THE SAN JOAQUIN VALLEY AMOUNTED TO 2.6 MILLION CUBIC DEKAMETRES (2.1 MILLION ACRE-Feet) OR 486 PERCENT OF NORMAL. FOR THE WATER YEAR, OCTOBER THROUGH JANUARY, THE FOUR-MONTH TOTAL WAS 3.2 MILLION DAM³ (2.6 MILLION AC-FT) OR 241 PERCENT OF NORMAL. ONE YEAR AGO THE FOUR-MONTH WATER YEAR RUNOFF FOR THE SAN JOAQUIN VALLEY WAS 90 PERCENT OF NORMAL. THE JANUARY RUNOFF FOR THE TULARE LAKE BASIN WAS ABOUT 822 000 DAM³ (666,000 AC-FT) OR 516 PERCENT OF NORMAL AND THE WATER YEAR TO DATE TOTALED ABOUT 1.04 MILLION DAM³ (844,000 AC-FT) OR 247 PERCENT OF NORMAL.

FORECASTS OF APRIL - JULY AND FOR CENTRAL V AS FEBRUAR

DRAINAGE BASIN AND WATERSHED	April through July Unimpaired Runoff in 1,000 Acre-feet (1)					
	HISTORICAL			FORECASTS		
	50-Year Average	Maximum of Record	Minimum of Record	April-July Forecast	Percent of Average	80% Prob. Range
SACRAMENTO RIVER BASIN						
Upper Sacramento River						
Sacramento River unimpaired flow at Shasta Lake	285	636	39	280	98	--
McCloud River unimpaired flow at Shasta Lake	420	850	184	410	98	--
Pit River unimpaired flow at Shasta Lake	1,013	1,796	480	1,000	99	--
Total unimpaired flow at Shasta Lake	1,777	3,064	726	1,735	98	1,095 to 2,635
Sacramento River above Bend Bridge, near Red Bluff	2,422	4,611	943	2,375	98	1,505 to 3,575
Feather River						
Unimpaired flow at Lake Almanor (near Prattville)	326	675	120	305	94	--
North Fork at Pulga	1,025	2,416	243	935	91	--
Middle Fork near Clio	86	518	4	75	88	--
South Fork at Ponderosa Dam	106	267	13	95	90	--
Total unimpaired flow at Oroville Reservoir	1,862	4,676	365	1,700	91	1,100 to 2,760
Yuba River						
North Yuba below Goodyears Bar	287	647	51	260	91	--
Combined unimpaired flow at Jackson Mdws. and Bowman Reservoirs	111	236	36	102	92	--
South Yuba at Langs Crossings	232	481	62	215	93	--
Yuba River at Smartville	1,081	2,424	196	980	91	630 to 1,640
American River						
North Fork at North Fork Dam	261	716	43	245	94	--
Middle Fork near Auburn	543	1,407	100	515	95	--
Silver Creek below Camino Diversion Dam	179	383	38	170	95	--
Total unimpaired flow at Folsom Reservoir	1,321	3,074	229	1,240	94	740 to 2,140
<i>Sacramento River at Sacramento</i>						
Cosumnes River						
Cosumnes River at Michigan Bar	132	361	10	135	102	85 to 240
Mokelumne River						
North Fork near West Point	415	829	104	440	106	--
Total unimpaired flow at Pardee Reservoir	466	1,065	106	490	105	340 to 740
SAN JOAQUIN RIVER BASIN						
Stanislaus River						
Middle Fork below Beardsley Dam	338	702	63	370	109	--
Total unimpaired flow at Melones Reservoir	717	1,710	119	780	109	570 to 1,170
Tuolumne River						
Cherry Creek and Eleanor Creek near Hetch Hetchy	304	572	88	370	122	--
Tuolumne River near Hetch Hetchy	599	1,392	179	735	123	--
Total unimpaired flow at Don Pedro Reservoir	1,236	2,682	275	1,450	121	1,100 to 1,990
Merced River						
Merced River at Pohono Bridge	358	888	80	445	124	--
Total unimpaired flow at Exchequer Reservoir	608	1,491	118	750	123	560 to 1,050
San Joaquin River						
San Joaquin River at Mammoth Pool	966	2,279	235	1,200	124	--
Big Creek below Huntington Lake	90	264	19	110	122	--
South Fork near Florence Lake	187	511	58	235	126	--
Total unimpaired flow at Millerton Lake	1,193	3,355	261	1,500	126	1,100 to 2,090
<i>San Joaquin River near Vernalis</i>						
TULARE LAKE BASIN						
Kings River						
North Fork near Cliff Camp	230	565	50	300	130	--
Total unimpaired flow at Pine Flat Reservoir	1,157	3,114	273	1,505	130	1,065 to 2,025
Kaweah River						
Total unimpaired flow at Teminus Reservoir	270	814	61	340	126	230 to 485
Tule River						
Total unimpaired flow at Success Reservoir	59	224	2	70	119	45 to 115
Kern River						
Kern River near Kernville	353	1,258	83	395	112	--
Total unimpaired flow at Isabella Reservoir	420	1,657	84	485	115	315 to 685

(1) See page 2 for definition of unimpaired runoff and 80 percent probability range.

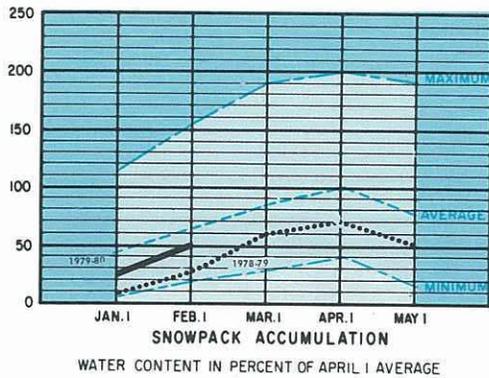
WATER YEAR UNIMPAIRED RUNOFF VALLEY STREAMS OF 1, 1980

Water Year Unimpaired Runoff -- October through September -- in 1,000 Acre-feet (1)												
HISTORICAL			*	DISTRIBUTION							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
Values in parentheses indicate the 80 percent probability range for water year forecasts												
785	1,792	162	--	--	--	--	--	--	--	--	--	--
1,230	2,353	577	--	--	--	--	--	--	--	--	--	--
2,895	5,314	1,484	--	--	--	--	--	--	--	--	--	--
5,482	10,796	2,479	2,198	605	685	695	485	315	240	400	5,625 (4,360 to 7,400)	103
7,948	15,916	3,294	3,342	1,080	1,060	975	665	425	310	515	8,375 (6,530 to 10,915)	105
727	1,269	368	--	--	--	--	--	--	--	--	--	--
2,283	4,400	669	--	--	--	--	--	--	--	--	--	--
209	637	24	--	--	--	--	--	--	--	--	--	--
260	562	32	--	--	--	--	--	--	--	--	--	--
4,287	9,492	968	1,907	505	515	680	575	290	155	190	4,820 (3,790 to 6,630)	112
529	1,056	102	--	--	--	--	--	--	--	--	--	--
169	292	40	--	--	--	--	--	--	--	--	--	--
343	565	114	--	--	--	--	--	--	--	--	--	--
2,274	4,544	339	1,184	280	290	375	400	165	40	40	2,775 (2,205 to 3,845)	122
554	1,234	66	--	--	--	--	--	--	--	--	--	--
1,014	2,575	144	--	--	--	--	--	--	--	--	--	--
300	537	60	--	--	--	--	--	--	--	--	--	--
2,573	5,787	339	1,366	290	345	460	480	250	50	25	3,265 (2,500 to 4,645)	127
351	876	23	209	55	60	70	45	15	5	2	460 (365 to 660)	131
586	1,009	124	--	--	--	--	--	--	--	--	--	--
705	1,692	134	297	55	75	140	205	125	20	10	925 (735 to 1,250)	131
457	929	88	--	--	--	--	--	--	--	--	--	--
1,085	2,834	161	406	95	120	205	320	200	55	15	1,415 (1,145 to 1,920)	131
428	765	122	--	--	--	--	--	--	--	--	--	--
740	1,661	209	--	--	--	--	--	--	--	--	--	--
1,854	3,852	339	628	140	175	305	520	465	160	45	2,440 (2,000 to 3,110)	136
439	1,020	92	--	--	--	--	--	--	--	--	--	--
920	2,188	128	305	70	100	165	270	255	60	15	1,240 (1,005 to 1,615)	135
225	653	308	--	--	--	--	--	--	--	--	--	--
105	298	22	--	--	--	--	--	--	--	--	--	--
1,255	2,964	71	413	90	135	270	510	510	210	95	2,235 (1,750 to 2,950)	135
1,659	4,368	362	--	--	--	--	--	--	--	--	--	--
265	607	58	--	--	--	--	--	--	--	--	--	--
1,549	4,203	383	391	70	110	240	515	540	210	90	2,165 (1,645 to 2,780)	138
403	1,270	92	164	25	35	75	125	105	35	15	580 (445 to 755)	144
133	504	16	84	15	20	25	30	10	5	2	190 (155 to 260)	144
521	1,686	163	--	--	--	--	--	--	--	--	--	--
627	2,227	175	194	35	50	95	170	145	75	50	815 (595 to 1,070)	130

* Unimpaired runoff to date.

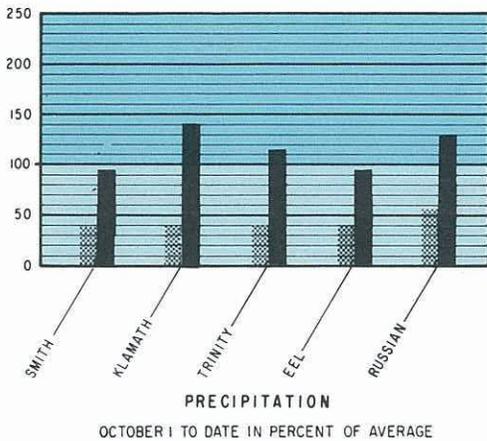
Monthly distributions of runoff forecasts are estimated values based on comparisons with previous historic water years.
S.I. Metric Conversion 1,000 acre-feet = 1,2335 cubic dekametres.

NORTH COASTAL AREA

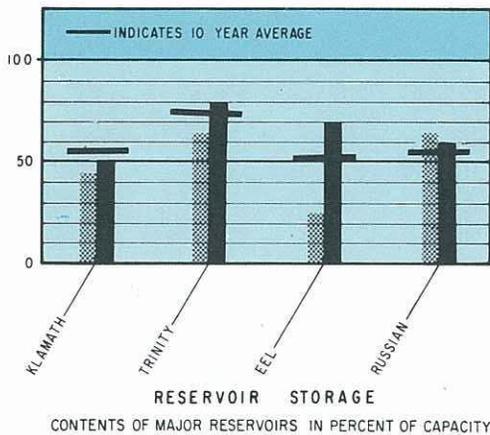


SNOWPACK - MEASUREMENTS OF SNOWPACK WERE OBTAINED AT 12 SNOW COURSES ON OR ABOUT FEBRUARY 1. THESE MEASUREMENTS INDICATE THAT SNOWPACK WATER CONTENT WAS 76 PERCENT OF AVERAGE FOR THIS DATE AS COMPARED TO 40 PERCENT OF THE FEBRUARY 1 AVERAGE LAST YEAR. THE WATER CONTENT WAS 49 PERCENT OF THE APRIL 1 AVERAGE WITH A BASIN AVERAGE OF 381 MM (15.0 INCHES).

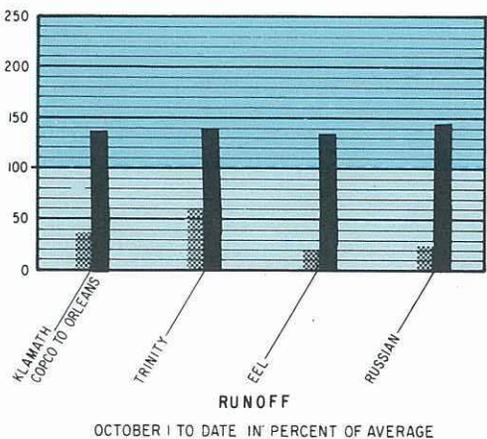
THE OREGON COOPERATIVE SNOW SURVEYS, THROUGH THE U. S. SOIL CONSERVATION SERVICE, PORTLAND, OREGON, REPORTS THAT SNOWPACK WATER CONTENT IN THE UPPER KLAMATH RIVER BASIN ON FEBRUARY 1 WAS 105 PERCENT OF NORMAL, AS COMPARED TO 30 PERCENT OF NORMAL ONE YEAR AGO.



PRECIPITATION - PRECIPITATION IN THIS AREA FOR THE FOUR MONTHS SINCE OCTOBER 1 AVERAGED 115 PERCENT OF NORMAL. IT VARIED FROM 633 MM (24.93 INCHES) OR 146 PERCENT AT SANTA ROSA TO 358 MM (14.08 INCHES) OR 63 PERCENT AT EUREKA. JANUARY PRECIPITATION AVERAGED 90 PERCENT OF NORMAL OVER THE AREA. EXTREMES VARIED FROM 224 MM (8.83 INCHES) OR 111 PERCENT AT UKIAH TO 144 MM (5.68 INCHES) OR 45 PERCENT AT CRESCENT CITY.



RESERVOIR STORAGE - STORAGE ON FEBRUARY 1 IN SIX MAJOR RESERVOIRS OF THE NORTH COASTAL AREA WAS 2.7 MILLION CUBIC DEKAMETRES (2.2 MILLION ACRE-Feet). THIS IS 106 PERCENT OF AVERAGE STORAGE FOR FEBRUARY 1 AND ABOUT 77 PERCENT OF AVAILABLE CAPACITY. ONE YEAR AGO STORAGE IN THESE RESERVOIRS WAS 84 PERCENT OF THE FEBRUARY 1 AVERAGE AND 61 PERCENT OF AVAILABLE CAPACITY. ALL RESERVOIRS, EXCEPT DWINNELL RESERVOIR ON THE SHASTA RIVER, WERE STORING AVERAGE OR ABOVE AVERAGE AMOUNTS. FEBRUARY 1 STORAGE IN DWINNELL WAS 35 000 DAM³ (28,400 AC-FT) OR 87 PERCENT OF AVERAGE AND ABOUT 39 PERCENT OF AVAILABLE CAPACITY.



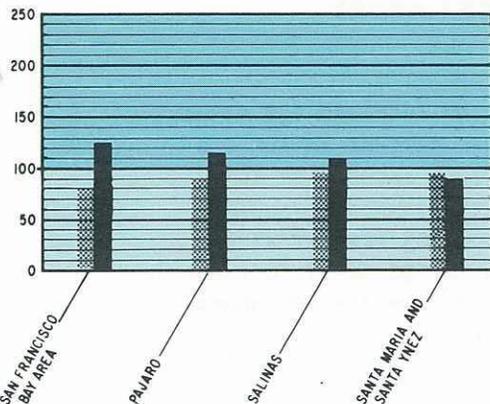
RUNOFF - JANUARY RUNOFF FROM NORTH COASTAL STREAMS WAS 5.3 MILLION CUBIC DEKAMETRES (4.3 MILLION ACRE-Feet) OR 164 PERCENT OF NORMAL. FOR THE WATER YEAR, OCTOBER THROUGH JANUARY, THE FOUR-MONTH TOTAL WAS 9.1 DAM³ (7.4 MILLION AC-FT) OR 136 PERCENT OF NORMAL. ONE YEAR AGO THE FOUR-MONTH WATER YEAR TOTAL WAS 1.7 MILLION DAM³ (1.4 MILLION AC-FT) OR 28 PERCENT OF NORMAL.

FORECASTS - CONDITIONS AT THIS TIME INDICATE THAT RUNOFF OF THE NORTH COASTAL AREA DURING THE 1979-80 WATER YEAR WILL BE ABOUT 110 PERCENT OF AVERAGE. THE APRIL-JULY RUNOFF OF THE TRINITY RIVER AT LEWISTON IS FORECASTED TO BE 691 000 CUBIC DEKAMETRES (560,000 ACRE-Feet), WHICH IS 91 PERCENT OF AVERAGE; WHILE THE SCOTT RIVER NEAR FORT JONES IS EXPECTED TO BE ABOUT 210 000 DAM³ (170,000 AC-FT), 85 PERCENT OF AVERAGE. THE U. S. SOIL CONSERVATION SERVICE, PORTLAND, OREGON, FORECASTS THAT FEBRUARY-SEPTEMBER RUNOFF AT UPPER KLAMATH LAKE WILL BE ABOUT 482 000 DAM³ (391,000 AC-FT), 105 PERCENT OF AVERAGE.

FEBRUARY 1, 1979 FEBRUARY 1, 1980

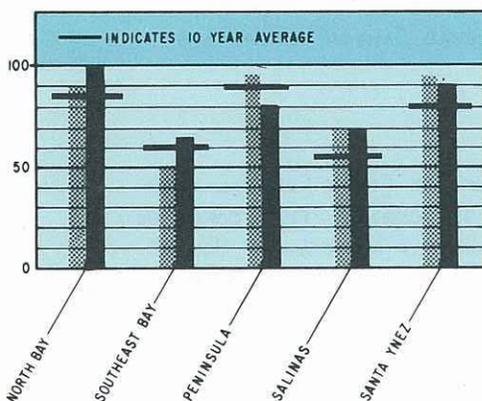
SAN FRANCISCO BAY AND CENTRAL COASTAL AREAS

PRECIPITATION - IN THE SAN FRANCISCO BAY AND CENTRAL COASTAL AREAS, PRECIPITATION WAS 110 PERCENT OF NORMAL FOR THE PERIOD OCTOBER 1 THROUGH JANUARY 31. IT VARIED FROM 152 PERCENT AT NAPA WITH 547 MM (21.55 INCHES), TO 85 PERCENT AT SANTA MARIA WITH 150 MM (5.89 INCHES). ALL SUBDRAINAGE VALUES WERE NEAR OR SLIGHTLY ABOVE NORMAL. DURING JANUARY, PRECIPITATION AVERAGED 130 PERCENT. THE GREATEST MONTHLY TOTAL REPORTED WAS 356 MM (14.02 INCHES) OR 161 PERCENT OF AVERAGE AT BIG SUR STATE PARK.



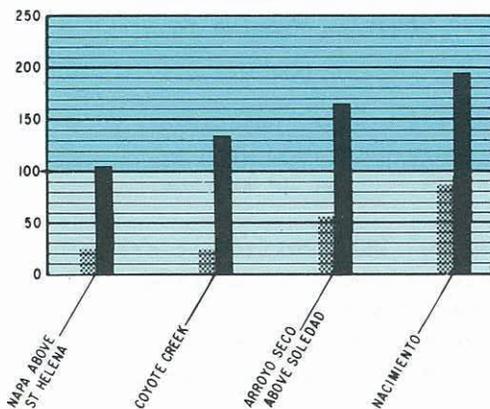
PRECIPITATION
OCTOBER 1 TO DATE IN PERCENT OF AVERAGE

RESERVOIR STORAGE - STORAGE ON FEBRUARY 1 IN 17 MAJOR RESERVOIRS IN THE SAN FRANCISCO BAY AREA WAS 614 000 CUBIC DEKAMETRES (490,000 ACRE-Feet) OR 109 PERCENT OF THE FEBRUARY 1 AVERAGE AND 71 PERCENT OF CAPACITY. ONLY TWO OF THE 17 RESERVOIRS ARE SIGNIFICANTLY BELOW AVERAGE, SAN ANDREAS RESERVOIR ON SAN ANDREAS CREEK AT 76 PERCENT OF AVERAGE, AND LEROY ANDERSON RESERVOIR ON COYOTE CREEK AT 61 PERCENT OF AVERAGE. SAN PABLO RESERVOIR ON SAN PABLO CREEK SHOWS 26 PERCENT OF AVERAGE, BUT IS NOT IN SERVICE AT THIS TIME.



RESERVOIR STORAGE
CONTENTS OF MAJOR RESERVOIRS IN PERCENT OF CAPACITY

STORAGE IN SIX MAJOR RESERVOIRS IN THE CENTRAL COASTAL AREA WAS ABOUT 909 000 DAM³ (737,000 AC-FT). THIS IS 120 PERCENT OF AVERAGE FOR FEBRUARY 1 OR 75 PERCENT OF AVAILABLE CAPACITY, ABOUT THE SAME AMOUNT THAT WAS IN STORAGE IN THESE RESERVOIRS ONE YEAR AGO.



RUNOFF
OCTOBER 1 TO DATE IN PERCENT OF AVERAGE

RUNOFF - JANUARY RUNOFF IN SELECTED SAN FRANCISCO BAY AREA STREAMS WAS 67 200 CUBIC DEKAMETRES (54,500 ACRE-Feet) OR 177 PERCENT OF NORMAL. ONE YEAR AGO, FOR THIS SAME AREA, THE JANUARY RUNOFF WAS 12 300 DAM³ (10,000 AC-FT) OR 32 PERCENT OF NORMAL. FOR THE WATER YEAR, OCTOBER THROUGH JANUARY, THE FOUR-MONTH TOTAL WAS 71 900 DAM³ (58,300 AC-FT) OR 115 PERCENT OF NORMAL.

SELECTED CENTRAL COASTAL AREA STREAMS PRODUCED 228 000 DAM³ (185,000 AC-FT) OR 292 PERCENT OF AVERAGE FOR JANUARY. THE FOUR-MONTH WATER YEAR TOTAL WAS 274 000 DAM³ (222,000 AC-FT) OR 186 PERCENT OF NORMAL. THIS COMPARES WITH 76 PERCENT OF NORMAL FOR THE SAME FOUR-MONTH PERIOD ONE YEAR AGO.

SOUTH COASTAL AND COLORADO DESERT AREAS

PRECIPITATION - IN THE SOUTH COASTAL AREA, PRECIPITATION AVERAGED 130 PERCENT OF NORMAL OVER THE PERIOD OCTOBER 1 THROUGH JANUARY 31. SEASONAL CATCHES IN ALL SUB-DRAINAGES WERE WELL ABOVE NORMAL. TOTALS VARIED FROM 687 MM (27.05 INCHES) OR 161 PERCENT AT MT. WILSON TO 766 MM (30.16 INCHES) OR 188 PERCENT AT CUYAMACA. JANUARY PRECIPITATION AVERAGED 285 PERCENT OVER THE AREA. IT VARIED FROM 303 PERCENT AT SAN DIEGO WITH 142 MM (5.58 INCHES) TO 248 PERCENT AT LOS ANGELES WITH 190 MM (7.50 INCHES). HIGHEST JANUARY OF RECORD WAS MEASURED AT BOTH BARRETT DAM WITH 353 MM (13.89 INCHES) OR 489 PERCENT AND CAMPO WITH 300 MM (11.82 INCHES) OR 499 PERCENT.

PRECIPITATION IN THE COLORADO DESERT AREA WAS 75 PERCENT OF NORMAL FOR THE PERIOD OCTOBER 1 THROUGH JANUARY 31. EXTREMES VARIED FROM 134 PERCENT AT IMPERIAL TO 67 PERCENT AT TWENTYNINE PALMS. JANUARY PRECIPITATION AVERAGED 210 PERCENT OVER THE AREA. AMOUNTS WERE IN THE ORDER OF ONE TO TWO INCHES.

RESERVOIR STORAGE - THE COMBINED FEBRUARY 1 STORAGE IN 28 MAJOR RESERVOIRS IN THE SOUTH COASTAL AREA WAS 1.9 MILLION CUBIC DEKAMETRES (1.54 MILLION ACRE-Feet). THIS IS 139 PERCENT OF THE FEBRUARY 1 AVERAGE AND ABOUT 73 PERCENT OF AVAILABLE CAPACITY, AND NEARLY THE SAME AMOUNT IN COMBINED STORAGE ONE YEAR AGO. SPILLING OCCURRED AT SEVERAL OF THE SMALLER RESERVOIRS, SUCH AS LAKE HEMET AND RAILROAD CANYON RESERVOIRS ON THE SAN JACINTO RIVER.

RUNOFF - RUNOFF DURING JANUARY IN SELECTED STREAMS OF THE SOUTH COASTAL AREA WAS 29 000 CUBIC DEKAMETRES (23,500 ACRE-Feet) OR 126 PERCENT OF NORMAL. THIS COMPARES TO 14 300 DAM³ (11,600 AC-FT) OR 63 PERCENT OF AVERAGE FOR JANUARY A YEAR AGO. RUNOFF FOR THE WATER YEAR, OCTOBER THROUGH JANUARY, WAS 38 600 DAM³ (31,300 AC-FT) OR 81 PERCENT OF NORMAL.

MAJOR WATER DISTRIBUTION PROJECTS

COLORADO RIVER - FEBRUARY 1 SNOWPACK IN THE COLORADO RIVER BASIN, ACCORDING TO THE U. S. SOIL CONSERVATION SERVICE, IS ABOUT 118 PERCENT OF NORMAL FOR THE AREA, AND RANGES FROM A LOW OF 100 PERCENT IN THE GREEN RIVER ABOVE FLAMING GORGE IN WYOMING TO A HIGH OF 140 PERCENT ON THE SAN JUAN WATERSHED IN COLORADO.

THE U. S. WATER AND POWER RESOURCES SERVICE, SALT LAKE CITY, UTAH, FORECASTS THAT FLOW IN THE COLORADO RIVER, INFLOW TO LAKE POWELL, DURING APRIL-JULY 1980 WILL BE ABOUT 10.4 MILLION CUBIC DEKAMETRES (8.4 MILLION ACRE-Feet), OR 104 PERCENT OF AVERAGE.

STORAGE IN LAKE POWELL ON FEBRUARY 1 WAS 25.8 MILLION DAM³ (20.9 MILLION AC-FT) OR 140 PERCENT OF AVERAGE FOR THIS DATE, AS COMPARED TO 18.8 MILLION DAM³ (15.2 MILLION AC-FT) OR 108 PERCENT OF AVERAGE A YEAR AGO. LAKE MEAD ON FEBRUARY 1 WAS STORING 116 PERCENT OF AVERAGE, AS COMPARED TO 120 PERCENT OF AVERAGE LAST YEAR. COMBINED STORAGE ON FOUR FEDERAL RESERVOIRS ON THE COLORADO RIVER WAS 57 MILLION DAM³ (46 MILLION AC-FT).

MAJOR WATER DISTRIBUTION PROJECTS

CENTRAL VALLEY PROJECT - FEBRUARY 1 RUNOFF FORECASTS INDICATE THAT ALL CVP RIVER BASINS SHOULD HAVE ABOVE NORMAL FLOWS THIS YEAR, AND THE WATER AND POWER RESOURCES SERVICE REPORTS THAT FOLSOM, SHASTA, MILLERTON, AND CLAIR ENGLE LAKE SHOULD FILL. ALL CONTRACTUAL WATER AND POWER DELIVERIES WILL BE MET. THE WATER SUPPLY FORECASTS FOR MILLERTON LAKE INDICATE A FULL CLASS I SUPPLY AND AN 80 PERCENT OF A FULL CLASS II SUPPLY WILL BE AVAILABLE THIS YEAR.

STORAGE IN MAJOR CENTRAL VALLEY PROJECT RESERVOIRS

RESERVOIR	CAPACITY 1,000 AF	AVERAGE STORAGE ^{1/} 1,000 AF	STORAGE AS OF FEBRUARY 1		
			1979 1,000 AF	1980 1,000 AF	PERCENT AVERAGE
CLAIR ENGLE LAKE	2,448.0	1,842.7	1,533.8	1,932.2	105
SHASTA LAKE	4,552.0	3,174.3	3,338.7	3,605.5	114
WHISKEYTOWN	241.1	209.6	202.4	201.4	96
FOLSOM	1,010.3	567.6	679.7	622.5	110
MILLERTON LAKE	520.6	375.5	456.1	383.7	102
SAN LUIS CVP ^{2/}	970.9 ^{2/}	853.0	964.9 ^{3/}	496.8 ^{3/}	58

STATE WATER PROJECT - BASED ON THE CURRENT FORECASTS OF WATER SUPPLY, LAKE OROVILLE IS EXPECTED TO FILL BY JUNE 1980 AND NO DEFICIENCIES ARE ANTICIPATED THIS YEAR.

STORAGE IN STATE WATER PROJECT RESERVOIRS

RESERVOIR	CAPACITY 1,000 AF	AVERAGE STORAGE ^{1/} 1,000 AF	STORAGE AS OF FEBRUARY 1		
			1979 1,000 AF	1980 1,000 AF	PERCENT AVERAGE
OROVILLE	3,537.6	2,471.6	2,771.6	2,735.5	111
SAN LUIS SWP ^{2/}	1,067.9 ^{2/}	924.1	1,054.3 ^{3/}	1,059.9 ^{3/}	115
LAKE DEL VALLE	77.1	29.2	25.9	33.7	115
SILVERWOOD LAKE	78.0	60.2	71.8	68.2	112
PYRAMID LAKE	171.2	166.4	164.7	166.4	100
CASTAIC LAKE	323.7	186.9	292.5	299.0	159
FERRIS RESERVOIR	131.5	96.2	118.4	112.7	116

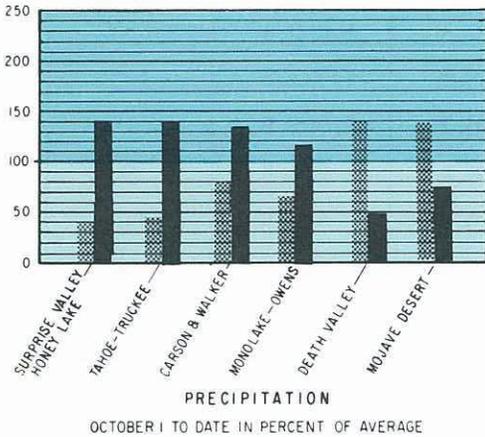
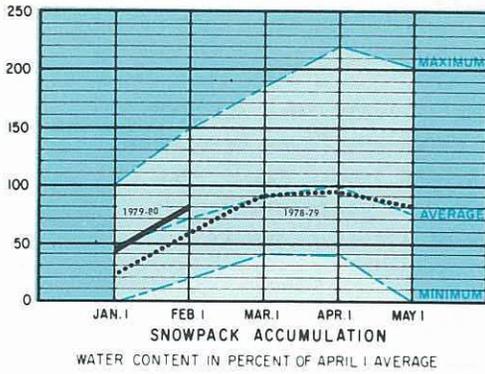
1/ AVERAGE STORAGE BASED ON 10-YEAR PERIOD 1970-1979, AND EXCLUDING PERIOD OF INITIAL FILLING. ALL STATE WATER PROJECT RESERVOIRS, SAN LUIS RESERVOIR, AND CVP WHISKEYTOWN RESERVOIR, HAVE LESS THAN 10-YEAR AVERAGES.

2/ JOINT FEDERAL-STATE RESERVOIR, WITH APPROXIMATELY 52 PERCENT OF CAPACITY (1,067,900 AF) ALLOCATED TO SWP, AND APPROXIMATELY 48 PERCENT (970,900 AF) ALLOCATED TO CVP.

3/ AMOUNT IN STORAGE FOR CVP OR FOR SWP.

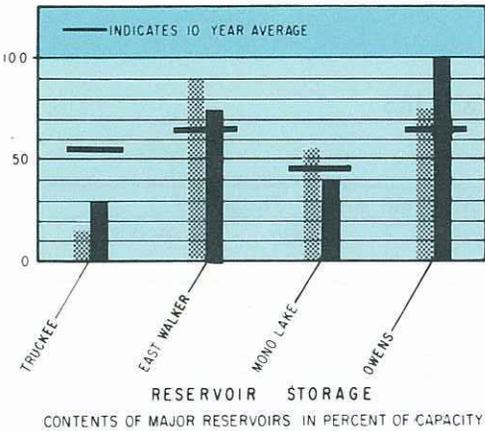
LAHONTAN AREA

SNOWPACK - MEASUREMENTS OF SNOWPACK WERE OBTAINED AT 59 SNOW COURSES AND 16 AERIAL MARKERS ON OR ABOUT FEBRUARY 1. THESE MEASUREMENTS INDICATE THAT SNOWPACK WATER CONTENT WAS 125 PERCENT OF AVERAGE FOR THIS DATE AS COMPARED TO 82 PERCENT OF AVERAGE LAST YEAR. THE WATER CONTENT WAS 81 PERCENT OF THE APRIL 1 AVERAGE WITH A BASIN AVERAGE OF 475 MM (18.7 INCHES). THE FEBRUARY 1 AVERAGE RANGED FROM A HIGH OF 148 PERCENT IN THE MONO LAKE BASIN TO A LOW OF 94 PERCENT IN THE TRUCKEE RIVER BASIN.



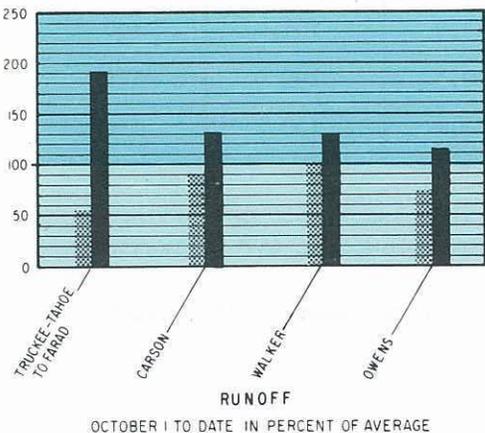
PRECIPITATION - IN THE LAHONTAN AREA, PRECIPITATION WAS 110 PERCENT OF NORMAL FOR THE FOUR-MONTH PERIOD OCTOBER 1 THROUGH JANUARY 31. EXCEPT FOR THE DESERT, ALL SUBDRAINAGES WERE WELL ABOVE NORMAL. SEASONAL VALUES WERE TWO TO THREE TIMES GREATER THAN THOSE EXPERIENCED FOR THIS SAME PERIOD ONE YEAR AGO. ACCUMULATIONS AT VARIOUS STATIONS WERE: TAHOE CITY 672 MM (26.47 INCHES) OR 150 PERCENT OF NORMAL; BRIDGEPORT 148 MM (5.81 INCHES) OR 128 PERCENT; AND MONO LAKE 255 MM (10.02 INCHES) OR 119 PERCENT.

JANUARY PRECIPITATION AVERAGED 205 PERCENT IN THE AREA. MOUNTAIN PASS, NEAR LAS VEGAS, MEASURED ITS HIGHEST JANUARY OF RECORD WITH 54 MM (2.13 INCHES) OR 410 PERCENT OF NORMAL.



RESERVOIR STORAGE - FEBRUARY 1 STORAGE IN EIGHT MAJOR RESERVOIRS IN THIS AREA WAS 341 000 CUBIC DEKAMETRES (276,400 ACRE-Feet). THIS IS 102 PERCENT OF AVERAGE STORAGE FOR FEBRUARY 1 AND 65 PERCENT OF AVAILABLE CAPACITY. ON FEBRUARY 1 THE USABLE STORAGE IN LAKE TAHOE WAS ABOUT 273 000 DAM³ (221,000 AC-FT). THIS IS 53 PERCENT OF AVERAGE FOR FEBRUARY 1. SURFACE ELEVATION WAS 1897.3 METRES (6,224.82 FEET).

RUNOFF - JANUARY RUNOFF IN SELECTED STREAMS OF THE LAHONTAN AREA TOTALED 205 400 CUBIC DEKAMETRES (166,500 ACRE-Feet) OR 316 PERCENT OF NORMAL. FOR THE WATER YEAR, OCTOBER THROUGH JANUARY, THE FOUR-MONTH TOTAL WAS 321 000 DAM³ (260,200 AC-FT) OR 151 PERCENT OF NORMAL. THIS COMPARES TO 210 000 DAM³ (170,000 AC-FT) OR 101 PERCENT OF NORMAL FOR THE SAME FOUR-MONTH PERIOD ONE YEAR AGO.



FORECASTS - CONDITIONS ON FEBRUARY 1 INDICATE THAT RUNOFF FROM THE LAHONTAN AREA DURING THE 1979-80 WATER YEAR WILL BE ABOUT 120 PERCENT OF AVERAGE. THE DEPARTMENT OF WATER AND POWER OF THE CITY OF LOS ANGELES FORECASTS THE APRIL-SEPTEMBER RUNOFF FOR THE OWENS RIVER AT LONG VALLEY RESERVOIR TO BE ABOUT 115 000 CUBIC DEKAMETRES (93,300 ACRE-Feet), 114 PERCENT OF AVERAGE.

FEBRUARY 1, 1979 (Hatched) FEBRUARY 1, 1980 (Solid)

LAHONTAN AREA AND GOOSE LAKE FORECASTS AS OF FEBRUARY 1, 1980

STREAM AND STATION	APRIL-JULY RUNOFF		
	AVERAGE IN ACRE-FEET	IN ACRE-FEET	IN PERCENT OF AVERAGE
Bidwell Creek near Ft. Bidwell	12,000	13,500	113
Mill Creek above diversions	4,100	4,800	117
Deep Creek above diversions	3,600	4,200	117
Eagle Creek at Eagleville	4,300	5,000	116
Truckee River, Lake Tahoe to Farad accretion	264,000	370,000	102
Lake Tahoe Rise (assuming gates closed)	1.42 ft.	1.32 ft.	93
East Carson River near Gardnerville	181,000	220,000	122
West Carson River at Woodfords	51,000	58,000	114
East Walker River near Bridgeport	60,000	75,000	125
West Walker River near Coleville	143,000	185,000	129
Goose Lake Tributaries			
New Pine Creek below Schroeders	7,350	8,000	109
Cottonwood Creek below Larkin Garden Ditch	2,450	2,450	100
Lassen Creek near Willow Ranch	7,540	7,700	102
Davis Creek above Diversion No. 4	6,250	6,600	106

SNOW LINES



COOPERATORS' MEETING - THIS YEAR'S MEETING WAS SPECIAL ---- MARKING THE GOLDEN ANNIVERSARY OF THE CALIFORNIA COOPERATIVE SNOW SURVEYS PROGRAM. HELD IN VISALIA'S HOLIDAY INN ON JANUARY 17-18, IT WAS CO-SPONSORED BY THE TULE RIVER INTERESTS WITH ROGER ROBB AND DICK AND DOROTHY SCHAFER DOING AN EXCELLENT JOB OF LOCAL ARRANGEMENTS. HIGHLIGHTS WERE RECOGNITION OF THE 21 AGENCIES WHO STARTED THE PROGRAM IN 1929, THE MANY RETIREES PRESENT, THE REMINISCENCES OF TWO FORMER SNOW SURVEY SUPERVISORS -- FRED STRAUSS AND BOB MILLER, AND THE ANNUAL SNOWFLAKE AWARD TO JACK HANNAFORD. AND FOR THOSE WHO COULDN'T MAKE IT -- A FEW OF THE 50TH YEAR SOUVENIR COFFEE MUGS, MARKED WITH A SNOWFLAKE AND ORANGE SNOW COURSE SIGN, ARE AVAILABLE FOR 3 BUCKS FROM THE SNOW SURVEYS OFFICE.



NEW COOPERATORS - MEASUREMENTS AT SEVERAL SNOW COURSES HAVE BEEN REASSIGNED THIS YEAR AND, AS A RESULT, TWO OF DWR'S SISTER AGENCIES HAVE JOINED THE CALIFORNIA COOPERATIVE SNOW SURVEYS PROGRAM. THE DEPARTMENT OF FORESTRY WILL BE MAKING SNOW SURVEYS IN MOUNTAIN HOME STATE FOREST, AND THE DEPARTMENT OF PARKS AND RECREATION WILL MEASURE SNOW COURSES IN PLUMAS-EUREKA STATE PARK. WE WARMLY WELCOME BOTH OF THESE RESOURCE ORIENTED AGENCIES TO OUR RANKS.

FRONT COVER - A TYPICAL SCENE AS THE FIRST SNOWS OF A NEW YEAR RECREATE THE CLEAN, WHITE WORLD OF WINTER IN THE HIGH SIERRA. THIS VIEW IS NEAR WRIGHTS LAKE IN THE AMERICAN RIVER BASIN. (DWR PHOTO.)

BACK COVER - SO FAR - THIS SNO-CAT HASN'T SPUTTERED ONCE THIS WINTER. OUR THANKS TO DWR'S HEAVY EQUIPMENT MECHANIC APPRENTICE, LINDA CATHRYNE, SHOWN HERE PERFORMING PRE-WINTER MAINTENANCE. (PHOTO BY ANN MCCULLY, DWR NEWS.)

