

Hester

**California Cooperative  
Snow Surveys  
Bulletin 120-85**



State of California  
The Resources Agency

Department of  
Water Resources

# Water Conditions in California

## Report 2 March 1, 1985

Gordon K. Van Vleck  
Secretary for Resources  
The Resources Agency

George Deukmejian  
Governor  
State of California

David N. Kennedy  
Director  
Department of Water Resources

State of California  
GEORGE DEUKMEJIAN, Governor

The Resources Agency  
GORDON K. VAN VLECK, Secretary for Resources

Department of Water Resources  
DAVID N. KENNEDY, Director

ALEX R. CUNNINGHAM  
Deputy Director

ROBERT E. WHITING  
Deputy Director

HOWARD H. EASTIN  
Deputy Director

SALLE S. JANTZ  
Assistant Director

ROBERT W. JAMES  
Chief Counsel

Division of Flood Management

G. Donald Meixner ..... Chief  
Maurice D. Roos ..... Chief, Flood Hydrology and Water Supply Branch

Prepared by

Jack G. Pardee ..... Senior Engineer, W. R.  
Ming Q. Ong ..... Associate Engineer, W. R.  
James D. Spence ..... Associate Engineer, W. R.  
David M. Hart ..... Water Resources Engineering Associate  
Howard J. Sullivan ..... Water Resources Engineering Associate  
Patrick M. Armstrong ..... Lead Snow Gauger  
David D. Sharp ..... Lead Snow Gauger  
Murton A. Stewart ..... Lead Snow Gauger  
Susan A. Burak ..... Snow Gauger  
Mead Hargis ..... Snow Gauger  
Nick Hartzell ..... Snow Gauger  
K. Jay Jensen ..... Snow Gauger

COOPERATING AGENCIES

Public Agencies

Buena Vista Water Storage District  
Central California Irrigation District  
East Bay Municipal Utility District  
Friant Water Users Association  
Kaweah Delta Water Conservation District  
Kaweah River Association  
Kern Delta Water District  
Kings River Conservation District  
Kings River Water Association  
Los Angeles 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  
South San Joaquin Irrigation District  
St. Johns River Association  
Tulare Lake Basin Water Storage District

Public Agencies (continued)

Tri-Dam Project  
Tule River Association  
Turlock Irrigation District  
Yuba County Water Agency

Private Companies

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

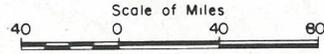
California Department of Forestry  
California Department of Water Resources  
California Department of Parks and  
Recreation  
U.S. Department of Agriculture  
Forest Service (14 National Forests)  
Pacific Southwest Forest and Range  
Experiment Station  
Soil Conservation Service  
U.S. Department of Commerce  
National Weather Service  
U.S. Department of The Interior  
Bureau of Reclamation  
Geological Survey, Water Resources  
Division  
National Park Service (3 National  
Parks)  
U.S. Department of the Army  
Corps of Engineers

Other Cooperative Programs

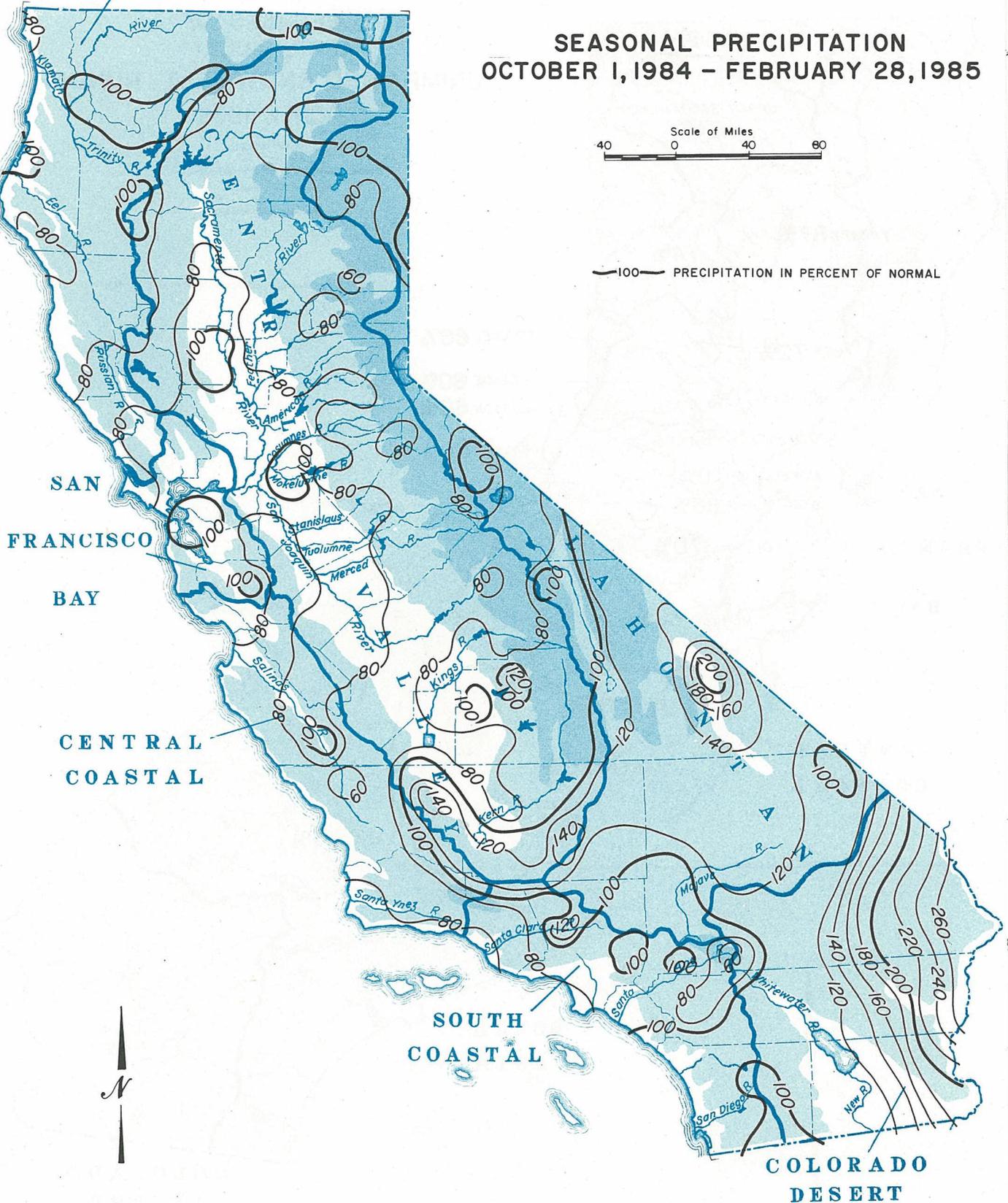
Nevada Cooperative Snow Surveys  
Oregon Cooperative Snow Surveys

NORTH  
COASTAL

### SEASONAL PRECIPITATION OCTOBER 1, 1984 - FEBRUARY 28, 1985

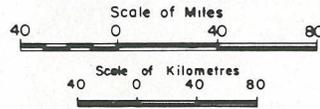


— 100 — PRECIPITATION IN PERCENT OF NORMAL



**NORTH  
COASTAL**

**FORECASTS OF  
APRIL - JULY  
UNIMPAIRED SNOWMELT RUNOFF  
MARCH 1, 1985**



LEGEND

100% Runoff Forecast In Percent of Normal



**CENTRAL  
COASTAL**

**SOUTH  
COASTAL**

**COLORADO  
DESERT**

\* Forecast by Department of Water & Power, City of Los Angeles

# SUMMARY OF WATER CONDITIONS

MARCH 1, 1985

THE EFFECT OF THE HIGH PRESSURE RIDGE WHICH HAS PERSISTED OVER THE EASTERN PACIFIC IS DRAMATICALLY ILLUSTRATED BY A STUDY OF THE DRYNESS RANKINGS OF 25 IMPORTANT CALIFORNIA STREAMS.

MONTHLY FLOWS IN THESE STREAMS WERE RANKED FROM LOWEST, I.E., DRIEST TO HIGHEST. IN WET NOVEMBER, ALL 25 STREAMS WERE IN THE HIGHEST QUARTILE. BY DECEMBER, WHEN THE HIGH PRESSURE RIDGING BEGAN, ONLY 7 OF THE 25 WERE IN THE TOP QUARTILE, AND BY JANUARY 5 OF THE 25 WERE IN THE LOWEST QUARTILE AND THIS FIGURE HAD RISEN TO 11 IN FEBRUARY.

FORECASTS WHICH ARE GENERALLY LOWER THIS MONTH ARE A REFLECTION OF THE CONTINUED DRY CONDITIONS.

SNOW SURVEYS FOR MARCH 1 INDICATE THAT SNOW STORED WATER VARIES FROM ABOUT 70 PERCENT OF THE SEASONAL (APRIL 1) NORMAL IN THE LAHONTAN AREA TO ABOUT 80 PERCENT IN THE NORTH COAST. ON A STATEWIDE BASIS, THE SNOWPACK IS HOLDING ABOUT 75 PERCENT OF THE SEASONAL NORMAL WHICH IS SOMEWHAT BELOW AVERAGE FOR THIS DATE. DESPITE THE STORMS OF EARLY FEBRUARY, NO AREA OF THE STATE RECEIVED ITS NORMAL MONTHLY INCREMENT.

PRECIPITATION OVER THE STATE AVERAGED 55 PERCENT OF NORMAL DURING FEBRUARY. WITH ONLY TWO STORM PERIODS IN THE FIRST WEEK OF THE MONTH, SUBNORMAL PRECIPITATION WAS THE GENERAL RULE OVER THE ENTIRE STATE. IN THE CENTRAL VALLEY, THE SACRAMENTO BASIN AVERAGED 55 PERCENT AND THE SAN JOAQUIN AVERAGED 60 PERCENT. FOR THE WATER YEAR TO DATE, HEAVY PRECIPITATION DURING THE FIRST QUARTER HAS SUSTAINED PRECIPITATION TOTALS AT ONLY SLIGHTLY BELOW AVERAGE OVER MOST OF THE STATE. THE NORMALLY THREE WETTEST MONTHS, JANUARY AND FEBRUARY, WHICH ACCOUNT FOR OVER HALF THE YEAR'S PRECIPITATION, ALL FELL SHORT WITH 85, 20, AND 55 PERCENT OF NORMAL, RESPECTIVELY.

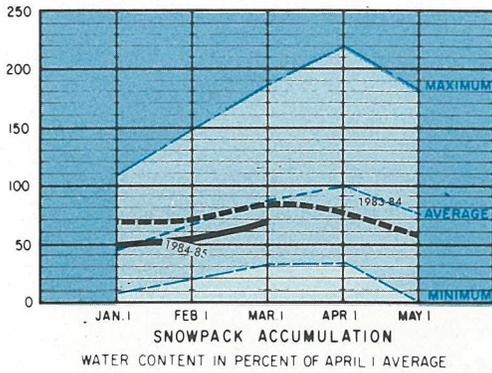
RUNOFF DURING FEBRUARY WAS GENERALLY LESS THAN HALF OF THE AVERAGE WITH THE ONLY EXCEPTION BEING THE LAHONTAN REGION WHERE IT WAS ABOUT NORMAL. THE SACRAMENTO VALLEY WITH ABOUT 45 PERCENT OF AVERAGE WAS THE RELATIVELY DRIEST MAJOR WATER PRODUCING AREA.

RESERVOIR STORAGE IS LESS (102 VS 116 PERCENT OF AVERAGE) THAN IT WAS ONE YEAR AGO IN ALL AREAS OF THE STATE WITH THE EXCEPTION OF THE LAHONTAN REGION WHERE IT IS ABOUT THE SAME AS LAST YEAR. STORAGE FIGURES VARY FROM ABOUT 80 PERCENT OF AVERAGE IN THE CENTRAL COAST TO ABOUT 115 PERCENT IN THE SAN JOAQUIN VALLEY AND LAHONTAN AREA. RESERVOIRS ON THE KAWEAH AND TULE RIVERS, HOWEVER, ARE HOLDING LESS THAN HALF THE AMOUNT FOR THIS DATE.

SUMMARY OF WATER CONDITIONS IN PERCENT OF AVERAGE						
HYDROGRAPHIC AREA	PRECIPITATION OCTOBER 1 TO DATE	SNOW WATER CONTENT	RESERVOIR STORAGE	RUNOFF		
				OCTOBER 1 TO DATE	APR-JULY FORECAST	WATER YEAR FORECAST
NORTH COASTAL	90	90	100	85	85	75
SAN FRANCISCO BAY	90	--	85	40	--	60
CENTRAL COASTAL	80	--	80	35	--	60
SOUTH COASTAL	95	--	100	45	--	70
SACRAMENTO VALLEY	80	80	95	65	75	70
SAN JOAQUIN VALLEY	80	80	115	75	65	65
LAHONTAN	110	80	115	110	65	70
COLORADO DESERT	180	--	--	165	--	--
STATEWIDE	90	85	100	75	75	70

## SACRAMENTO RIVER BASIN

**SNOWPACK** - MEASUREMENTS OF THE SNOWPACK OBTAINED AT 83 SNOW COURSES AND 14 SENSORS ON OR ABOUT MARCH 1 SHOW A BASIN WIDE AVERAGE WATER EQUIVALENT OF 22.3 INCHES WHICH IS 81 PERCENT OF THE SEASONAL (APRIL 1) AVERAGE FOR THOSE SITES WHICH REPORTED. ONE YEAR AGO, THIS BASIN CONTAINED 86 PERCENT OF ITS AVERAGE SEASONAL ACCUMULATION.



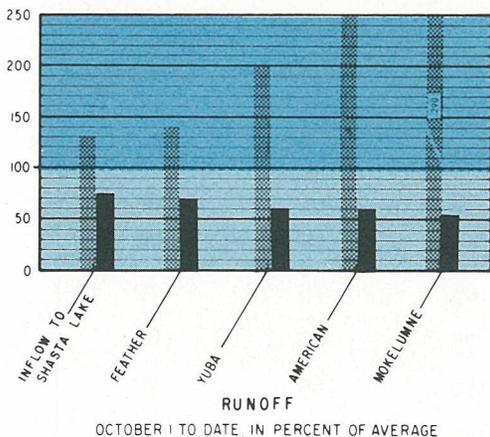
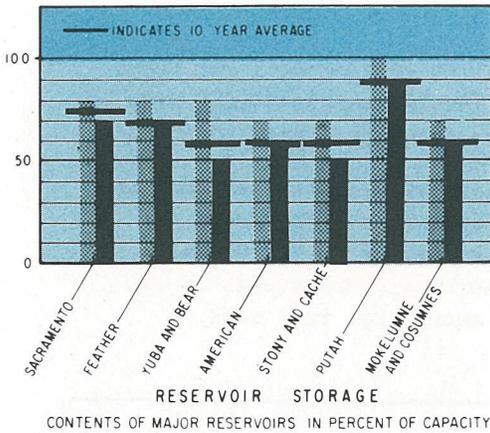
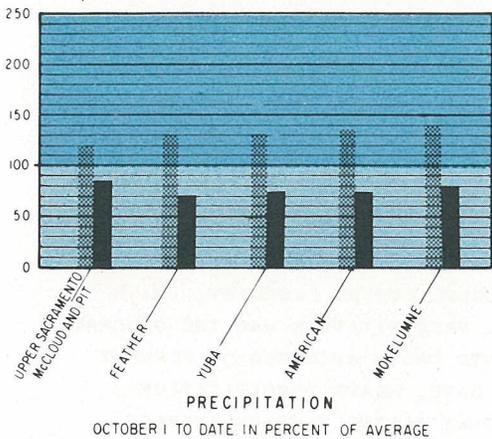
**PRECIPITATION** - PRECIPITATION OVER THE SACRAMENTO VALLEY AVERAGED 80 PERCENT OF NORMAL. ALL SUBDRAINAGES, INCLUDING THE VALLEY FLOOR, WERE BELOW NORMAL. SEASONAL CATCHES WERE GENERALLY ONE-HALF THE AMOUNTS FOR THE SAME PERIOD A YEAR AGO. ALL THE EARLIER GAINS FROM A WET OCTOBER AND NOVEMBER HAVE BEEN DIMINISHED BY A SERIES OF SUBNORMAL MONTHS, DECEMBER, JANUARY AND FEBRUARY. EXAMPLES OF FIVE-MONTH TOTALS ARE: DUNSMUIR 35.08 INCHES OR 87 PERCENT, BRUSH CREEK 36.38 INCHES OR 72 PERCENT AND BLUE CANYON 34.63 INCHES OR 78 PERCENT.

FEBRUARY PRECIPITATION AVERAGED 55 PERCENT OF NORMAL. IT VARIED FROM 139 PERCENT WITH 2.43 INCHES AT JESS VALLEY, IN THE PIT RIVER DRAINAGE, TO 12 PERCENT WITH 0.41 INCH AT ORLAND, ON THE VALLEY FLOOR. EXAMPLES OF MOUNTAIN STATION CATCHES ARE: PIT RIVER P. H. No. 5 WITH 4.31 INCHES OR 37 PERCENT, BRUSH CREEK R. S. 6.94 INCHES OR 59 PERCENT AND CHALLENGE R. S. 7.53 INCHES OR 67 PERCENT.

**RESERVOIR STORAGE** - MARCH 1 STORAGE IN 47 MAJOR SACRAMENTO VALLEY RESERVOIRS WAS ABOUT 11.6 MILLION ACRE- FEET OR ABOUT 96 PERCENT OF AVERAGE. ABOUT 68 PERCENT OF THE AVAILABLE CAPACITY WAS BEING USED. STORAGE IN THESE RESERVOIRS ONE YEAR AGO WAS ABOUT 13.6 MILLION ACRE- FEET. SHASTA RESERVOIR IS CURRENTLY STORING ABOUT 3.2 MILLION ACRE- FEET.

**RUNOFF** - FEBRUARY RUNOFF FROM TRIBUTARIES TO THE SACRAMENTO VALLEY AMOUNTED TO 1.1 MILLION ACRE- FEET, WHICH IS 43 PERCENT OF AVERAGE FEBRUARY FLOWS. FOR THE PERIOD OCTOBER THROUGH FEBRUARY, FLOWS HAVE TOTALED 5.2 MILLION ACRE- FEET WHICH IS 65 PERCENT OF AVERAGE. LAST YEAR, RUNOFF FOR THIS SAME PERIOD WAS 12.4 MILLION ACRE- FEET.

THE SACRAMENTO VALLEY FOUR BASIN INDEX FOR THIS WATER YEAR IS FORECAST AT 12.6 MILLION ACRE- FEET ASSUMING MEDIAN CONDITIONS FOR THE REMAINDER OF THE YEAR. THIS CLASSIFIES THE YEAR AS "BELOW NORMAL" IN THE SACRAMENTO- SAN JOAQUIN DELTA ACCORDING TO THE STATE WATER RESOURCES CONTROL BOARD DECISION 1485.



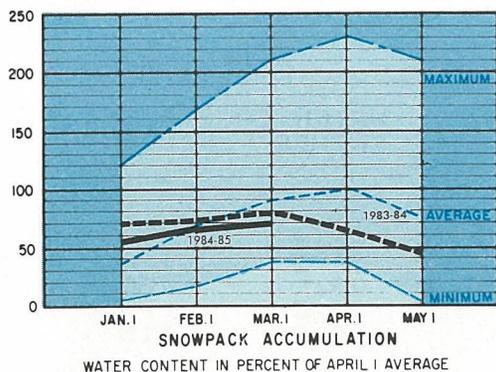
MARCH 1, 1984



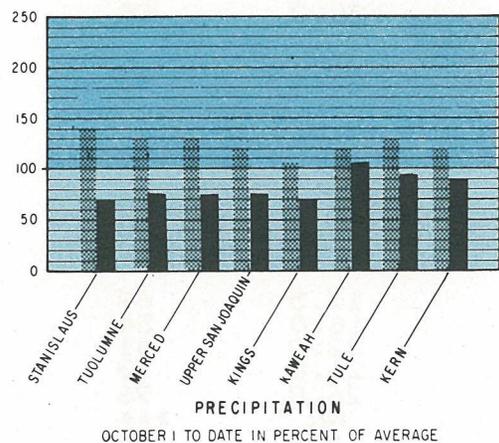
MARCH 1, 1985



# SAN JOAQUIN RIVER AND TULARE LAKE BASINS

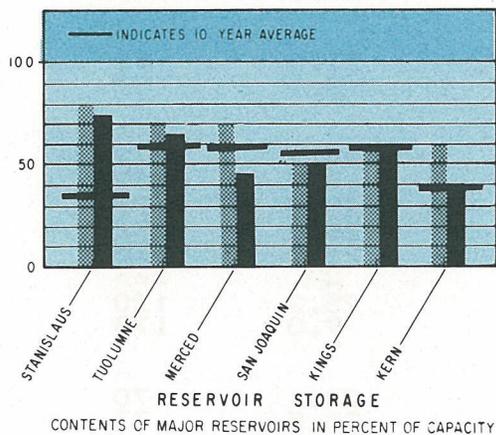


**SNOWPACK** - MEASUREMENTS OF THE SNOWPACK OBTAINED AT 75 SNOW COURSES, 19 SENSORS AND 13 AERIAL MARKERS ON OR ABOUT MARCH 1 SHOW A BASIN WIDE AVERAGE WATER EQUIVALENT OF 18.4 INCHES WHICH IS 72 PERCENT OF THE SEASONAL (APRIL 1) AVERAGE FOR THOSE SITES WHICH REPORTED. ONE YEAR AGO, THESE BASINS CONTAINED 80 PERCENT OF THEIR AVERAGE SEASONAL ACCUMULATION.

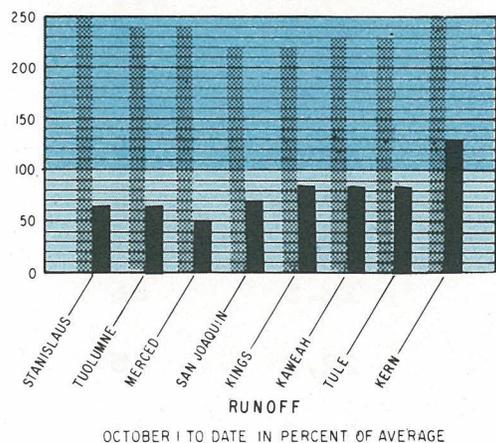


**PRECIPITATION** - PRECIPITATION FOR THE SEASON FROM OCTOBER THROUGH FEBRUARY AVERAGED 80 PERCENT OF NORMAL. EXCEPT FOR THE KAWEAH DRAINAGE, ALL OTHERS, INCLUDING THE VALLEY FLOOR, ARE BELOW NORMAL AND CATCH AMOUNTS ARE DOWN AS MUCH AS ONE-HALF LESS THAN THOSE EXPERIENCED A YEAR AGO. IT VARIED FROM 152 PERCENT WITH 5.73 INCHES AT SOUTH BELBRIDGE, ON THE TULARE LAKE FLOOR, TO 64 PERCENT WITH 18.21 INCHES AT PINECREST-STRAWBERRY, IN THE STANISLAUS. EXAMPLES OF FIVE-MONTH TOTALS ARE: CALAVERAS BIG TREES 27.53 INCHES OR 74 PERCENT, HUNTINGTON LAKE 21.60 INCHES OR 92 PERCENT AND LODGEPOLE 27.56 INCHES OR 91 PERCENT.

FEBRUARY PRECIPITATION AVERAGED 60 PERCENT OF NORMAL OVER THE AREA. IT VARIED FROM 185 PERCENT WITH 3.34 INCHES AT TEHACHAPI TO A SCANT 3 PERCENT WITH 0.05 INCH AT COALINGA. EXAMPLES OF MOUNTAIN SITE CATCHES ARE: CALAVERAS BIG TREES 5.29 INCHES OR 59 PERCENT, HUNTINGTON LAKE 3.40 INCHES OR 56 PERCENT AND LODGEPOLE 6.04 INCHES OR 74 PERCENT.



**RESERVOIR STORAGE** - MARCH 1 STORAGE IN 31 MAJOR SAN JOAQUIN VALLEY RESERVOIRS WAS 7.8 MILLION ACRE-Feet WHICH IS 116 PERCENT OF THE AVERAGE FOR THIS DATE. SIXTY-FOUR PERCENT OF AVAILABLE CAPACITY IS IN USE. ONE YEAR AGO THESE RESERVOIRS WERE STORING 8.8 MILLION ACRE-Feet; 1.8 MILLION ACRE-Feet ARE CURRENTLY IN STORAGE AT SAN LUIS RESERVOIR.



**RUNOFF** - DURING FEBRUARY, RUNOFF OF THE TRIBUTARIES TO THE SAN JOAQUIN VALLEY WAS 206 THOUSAND ACRE-Feet, WHICH IS 50 PERCENT OF THE MONTHLY AVERAGE. DURING THE PERIOD OCTOBER THROUGH FEBRUARY, 759,000 ACRE-Feet FLOWED IN THESE STREAMS. THIS WAS 63 PERCENT OF THE AVERAGE FLOW FOR THIS PERIOD. LAST YEAR, RUNOFF FOR THIS PERIOD WAS 528,000 ACRE-Feet. FEBRUARY RUNOFF FOR THE TULARE LAKE BASIN WAS 125 THOUSAND ACRE-Feet OR 71 PERCENT OF THE MONTHLY AVERAGE. FLOWS FOR THE YEAR TO DATE, OCTOBER THROUGH FEBRUARY, HAVE TOTALED 510,000 ACRE-Feet WHICH IS 96 PERCENT OF NORMAL.

MARCH 1, 1984



MARCH 1, 1985



## CALIFORNIA DATA EXCHANGE CENTER

TELEMETERED WATER EQUIVALENTS AS OF		MARCH 04, 1985		PAGE 1 OF 2	
BASIN, SENSOR, AND AGENCY	ELEV FEET	APR 1 AVG INCHES	WATER EQUIVALENT INCHES	PERCENT	
TRINITY RIVER					
PETERSON FLAT	DWR	6700	****	26.9	***
BONANZA KING	USBR	6450	****	26.2	***
HIGHLAND LAKES	DWR	6000	34.0	23.9	70
MUMBO BASIN	DWR	5700	25.8	20.0	78
BIG FLAT	DWR	5100	15.8	18.2	115
UPPER SACRAMENTO RIVER					
SAND FLAT	USBR	6750	42.4	28.0	66
SLATE CREEK	USBR	5600	30.0	20.3	68
MCCLOUD RIVER					
STOUTS MEADOW	DWR	5250	42.5	21.4	50
PIT RIVER					
CEDAR PASS	SCS	7100	16.3	17.7	109
MEDICINE LAKE	DWR	6700	32.7	22.9	70
ADIN MOUNTAIN	SCS	6350	13.6	14.9	110
SNOW MOUNTAIN	USBR	5950	27.0	23.8	88
FEATHER RIVER					
KETTLEROCK	DWR	7300	25.5	17.5	69
GRIZZLY	DWR	6900	29.7	16.0	54
PILOT PEAK	OWID	6800	52.6	32.0	61
GOLD LAKE	DWR	6750	36.5	26.8	73
HUMBUG	DWR	6500	28.0	26.8	96
HARKNESS FLAT	PGE	6200	26.2	NR	***
RATTLESNAKE	DWR	6100	14.0	14.9	106
BUCKS LAKE	DWR	5750	44.7	44.6	100
FOUR TREES	DWR	5150	20.0	23.1	116
YUBA RIVER					
CENT SIERRA SNOW LAB	USFS	6900	33.6	21.0	62
BLUE CANYON	NWS	5300	9.0	5.1	57
AMERICAN RIVER					
SCHNEIDERS	SMUD	8750	34.5	24.9	72
CAPLES LAKE	EBMUD	7800	27.1	19.7	73
ALPHA	SMUD	7600	35.9	25.5	71
VAN VLECK	SMUD	6700	35.9	26.0	72
HUYSINK	NWS	6600	40.0	26.0	65
ROBBS SADDLE	SMUD	5900	21.4	NR	***
GREEK STORE	NWS	5600	21.0	25.2	120
ROBBS POWERHOUSE	SMUD	5150	5.2	9.0	173
MOKELUMNE RIVER					
BLUE LAKES	SCS	8000	34.6	24.1	70
MUD LAKE	SMUD	7900	44.9	34.5	77
STANISLAUS RIVER					
GIANELLI MEADOW	USBR	8350	****	29.0	***
LOWER RELIEF VALLEY	DWR	8100	41.2	28.5	69
BLOODS CREEK	USBR	7200	37.8	21.4	57
BLACK SPRINGS	USBR	6500	27.1	23.3	86
TUOLUMNE RIVER					
DANA MEADOWS	DWR	9800	27.7	23.6	85
SLIDE CANYON	DWR	9200	****	31.4	***
TUOLUMNE MEADOWS	DWR	8600	22.6	14.0	62
HORSE MEADOW	DWR	8400	48.6	26.1	54
DODGE RIDGE	USBR	8150	40.8	29.0	71
PARADISE	DWR	7650	41.3	32.8	79
LOWER KIBBIE	DWR	6600	27.4	23.5	86
MERCED RIVER					
GIN FLAT	DWR	7050	34.2	22.2	65
SAN JOAQUIN RIVER					
KAISER POINT	USBR	9100	31.4	20.7	66
GREEN MOUNTAIN	USBR	7900	30.8	17.4	56
TAMARACK SUMMIT	USBR	7600	26.0	15.4	59
GRAVEYARD MEADOW	USBR	6900	23.8	12.4	52
POISON RIDGE	USBR	6900	28.9	18.1	63

CALIFORNIA DATA EXCHANGE CENTER

TELEMETERED WATER EQUIVALENTS AS OF		MARCH 04, 1985		PAGE 2 OF 2	
BASIN, SENSOR, AND AGENCY	ELEV FEET	APR 1 AVG INCHES	WATER EQUIVALENT INCHES	PERCENT	
KINGS RIVER					
CHARLOTTE LAKE	DWR 10400	****	27.5	***	
STATE LAKES	USCE 10300	29.0	19.6	68	
MITCHELL MEADOW	USCE 9900	32.9	21.8	66	
WEST WOODCHUCK MEADOW	USCE 8800	32.8	NR	***	
BIG MEADOWS	DWR 7600	25.9	13.7	53	
KAWEAH RIVER					
GIANT FOREST	USCE 6650	10.0	8.4	84	
TULE RIVER					
QUAKING ASPEN	DWR 7200	****	19.6	***	
KERN RIVER					
UPPER TYNDALL CREEK	USCE 11450	27.7	26.7	96	
CRABTREE	DWR 10700	19.8	15.4	78	
PASCOE	USCE 9150	24.9	21.1	85	
TUNNEL	DWR 8950	****	12.9	***	
WET MEADOW	USCE 8950	30.3	NR	***	
BEACH MEADOW	DWR 7650	11.0	9.0	82	
SURPRISE VALLEY AREA					
DISMAL SWAMP	SCS 7050	25.0	25.5	102	
TRUCKEE RIVER					
MOUNT ROSE	SCS 9000	35.9	18.4	51	
MOUNT ROSE SKI AREA	SCS 8850	38.5	26.1	68	
INDEPENDENCE LAKE	SCS 8450	41.3	25.6	62	
BIG MEADOWS	SCS 8300	25.7	16.7	65	
SQUAW VALLEY G.C.	SCS 7800	46.5	25.5	55	
INDEPENDENCE CAMP	SCS 7000	21.8	13.0	60	
INDEPENDENCE CREEK	SCS 6500	12.7	13.3	105	
TRUCKEE NO. 2	SCS 6350	14.3	11.4	80	
LAKE TAHOE BASIN					
HEAVENLY VALLEY	SCS 8800	28.1	17.6	63	
HAGANS MEADOW	SCS 8000	16.5	11.1	67	
MARLETTE LAKE	SCS 8000	21.0	16.4	78	
ECHO PEAK	SCS 7800	39.5	23.5	59	
RUBICON NO. 2	SCS 7500	29.1	19.8	68	
TAHOE CITY CROSS	SCS 6750	16.0	11.0	69	
WARD CREEK NO. 3	SCS 6750	39.5	21.7	55	
FALLEN LEAF LAKE	SCS 6300	7.0	9.6	137	
CARSON RIVER					
EBBETTS PASS	SCS 8700	36.9	24.5	66	
WET MEADOWS LAKE	SCS 8050	33.5	26.8	80	
POISON FLAT	SCS 7900	16.2	12.4	77	
SPRATT CREEK	SCS 6150	4.5	5.6	124	
WALKER RIVER					
VIRGINIA LAKES RIDGE	SCS 9200	16.9	12.2	72	
LOBDELL LAKE	SCS 9200	16.4	10.6	65	
SONORA PASS BRIDGE	SCS 8750	26.0	16.3	63	
LEAVITT MEADOWS	SCS 7200	6.7	6.5	97	
OWENS RIVER					
GEM PASS	LADWP 10750	31.7	25.0	79	
COTTONWOOD LAKES	LADWP 10200	11.6	10.7	92	
SOUTH LAKE	LADWP 9600	16.0	13.5	84	
MAMMOTH PASS	USBR 9500	42.4	28.5	67	
ROCK CREEK	LADWP 8200	****	8.9	***	

NORDEN SNOW DEPTH = 54" ( 2" NEW)  
 BLUE CANYON SNOW DEPTH = 13" ( 0" NEW)

FOOTNOTES: NR NO REPORT  
 \*\* NOT AVAILABLE  
 APR 1 AVG -- AVERAGE WATER EQUIVALENT ON APRIL 1  
 % OF AVG -- CURRENT MEASUREMENT COMPARED TO APRIL 1 AVERAGE

# FORECASTS OF APRIL - JULY AND FOR CENTRAL V AS MARCH

DRAINAGE BASIN AND WATERSHED	April through July Unimpaired Runoff in 1,000 Acre-feet (5)					
	HISTORICAL			FORECASTS		
	50-Year Average (1)	Maximum of Record	Minimum of Record	April-July Forecast	Percent of Average	80% Prob. Range
<b>+</b>						
<b>SACRAMENTO RIVER BASIN</b>						
Upper Sacramento River						
Sacramento River unimpaired flow at Shasta Lake	292	850	63	220	75	--
McCloud River unimpaired flow at Shasta Lake	418	850	185	340	81	--
Pit River unimpaired flow at Shasta Lake	1,045	1,796	480	950	91	--
Total unimpaired flow at Shasta Lake	1,811	3,189	726	1,530	84	1,000 to 2,300
Sacramento River above Bend Bridge, near Red Bluff	2,469	4,674	943	2,100	85	1,350 to 3,300
<b>Feather River</b>						
Unimpaired flow at Lake Almanor near Pratville	333	675	120	270	81	--
North Fork at Pulga	1,044	2,416	243	780	75	--
Middle Fork near Clito (3)	83	518	4	40	48	--
South Fork at Ponderosa Dam	113	267	13	80	71	--
Total unimpaired flow at Oroville Reservoir	1,894	4,676	392	1,400	74	900 to 2,250
<b>Yuba River</b>						
North Yuba below Goodyears Bar	290	647	51	200	69	--
Combined unimpaired flow at Jackson Mdws and Bowman Reservoirs	112	236	25	75	67	--
South Yuba at Langs Crossings	229	481	57	170	74	--
Yuba River at Smartville	1,069	2,424	200	770	72	470 to 1,320
<b>American River</b>						
North Fork at North Fork Dam	268	716	43	190	71	--
Middle Fork near Auburn	536	1,406	100	380	71	--
Silver Creek below Camino Diversion Dam	178	383	37	110	62	--
Total unimpaired flow at Folsom Reservoir	1,312	3,074	229	920	70	520 to 1,550
<i>Sacramento River at Sacramento</i>						
<b>Cosumnes River</b>						
Cosumnes River at Michigan Bar	132	363	8	70	53	30 to 140
<b>Mokelumne River</b>						
North Fork near West Point (4)	417	829	104	290	70	--
Total unimpaired flow at Pardee Reservoir	469	1,065	102	330	70	200 to 520
<b>SAN JOAQUIN RIVER BASIN</b>						
<b>Stanislaus River</b>						
Middle Fork below Beardsley Dam	344	702	64	220	64	--
Total unimpaired flow at Melones Reservoir	725	1,710	116	480	66	280 to 760
<b>Tuolumne River</b>						
Cherry Creek and Eleanor Creek near Hetch Hetchy	316	727	97	210	66	--
Tuolumne River near Hetch Hetchy	605	1,392	153	430	71	--
Total unimpaired flow at Don Pedro Reservoir	1,206	2,682	301	840	70	550 to 1,260
<b>Merced River</b>						
Merced River at Pohono Bridge	363	888	80	240	66	--
Total unimpaired flow at Exchequer Reservoir	620	1,587	123	390	63	260 to 620
<b>San Joaquin River</b>						
San Joaquin River at Mammoth Pool	988	2,279	235	680	69	--
Big Creek below Huntington Lake (2)	105	300	19	65	62	--
South Fork near Florence Lake	202	511	58	145	72	--
Total unimpaired flow at Millerton Lake	1,232	3,355	262	830	67	520 to 1,250
<i>San Joaquin River near Vernalis</i>						
<b>TULARE LAKE BASIN</b>						
<b>Kings River</b>						
North Fork near Cliff Camp	237	565	50	160	68	--
Total unimpaired flow at Pine Flat Reservoir	1,203	3,114	273	810	67	500 to 1,220
<b>Kaweah River</b>						
Total unimpaired flow at Terminus Reservoir	284	814	61	200	70	120 to 300
<b>Tule River</b>						
Total unimpaired flow at Success Reservoir	63	256	2	37	59	20 to 65
<b>Kern River</b>						
Kern River near Kernville	375	1,203	83	280	75	--
Total unimpaired flow at Isabella Reservoir	452	1,657	84	320	71	210 to 450

(1) All 50 year averages are based on data for water years 1931-1980 except:  
 (2) 50 year average based on years 1930-1979  
 (3) 50 year average based on years 1929-1978

(4) 43 year average based on years 1929-1971  
 (5) See inside back cover for definition of unimpaired runoff and 80 percent probability ranges.

# WATER YEAR UNIMPAIRED RUNOFF VALLEY STREAMS OF , 1985

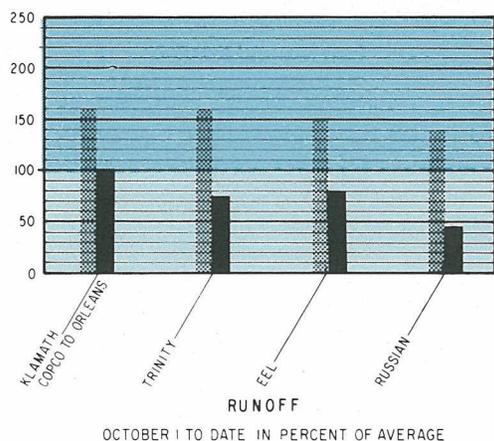
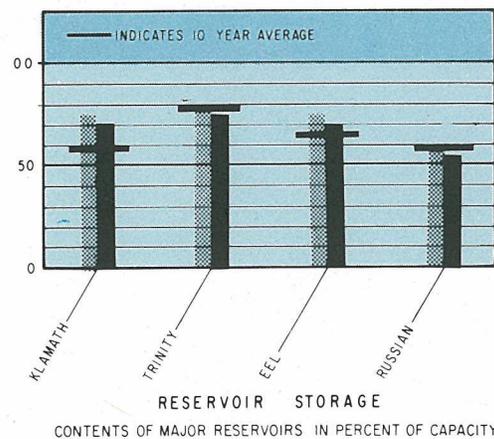
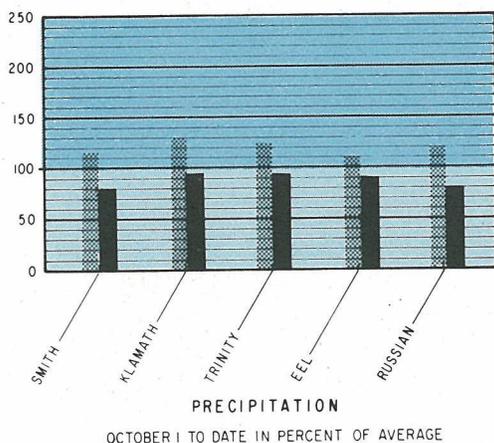
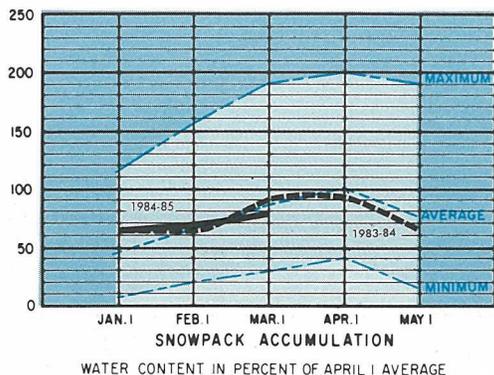
Water Year Unimpaired Runoff...October through September ... in 1,000 Acre-Feet (5)												
HISTORICAL			*	*	DISTRIBUTION						FORECASTS	
50-Year Average	Maximum of Record	Minimum of Record	October through January	February	March	April	May	June	July	August and September	Water Year Forecast	Percent of Average
Values in parentheses indicate the 80 percent probability range for water year forecasts												
817	2,353	165	--	--	--	--	--	--	--	--	--	--
1,240	2,353	577	--	--	--	--	--	--	--	--	--	--
3,056	5,150	1,484	--	--	--	--	--	--	--	--	4,530	79
5,756	10,796	2,479	1,620	350	630	600	430	280	220	400	(3,650 to 5,820)	
8,317	17,180	3,294	2,420	500	780	800	610	400	290	500	(5,200 to 8,300)	76
759	1,269	366	--	--	--	--	--	--	--	--	--	--
2,346	4,400	666	--	--	--	--	--	--	--	--	--	--
206	637	24	--	--	--	--	--	--	--	--	--	--
282	562	31	--	--	--	--	--	--	--	--	--	--
4,430	9,492	994	825	240	435	570	470	230	130	170	(2,400 to 4,270)	69
543	1,056	102	--	--	--	--	--	--	--	--	--	--
173	292	30	--	--	--	--	--	--	--	--	--	--
348	565	98	--	--	--	--	--	--	--	--	--	--
2,297	4,926	369	370	125	225	310	310	120	30	30	(1,200 to 2,250)	66
585	1,234	66	--	--	--	--	--	--	--	--	--	--
1,018	2,575	144	--	--	--	--	--	--	--	--	--	--
303	537	59	--	--	--	--	--	--	--	--	--	--
2,620	6,381	349	400	140	260	370	370	150	30	20	(1,300 to 2,560)	66
363	997	20	50	28	47	35	25	8	2	1	196	54
											(130 to 310)	
589	1,009	124	--	--	--	--	--	--	--	--	--	--
721	1,800	129	65	30	55	110	150	60	10	2	482	67
											(340 to 700)	
469	855	88	--	--	--	--	--	--	--	--	--	--
1,116	2,952	155	115	50	95	170	190	100	20	10	750	67
											(510 to 1,090)	
449	1,147	123	--	--	--	--	--	--	--	--	--	--
756	1,661	258	--	--	--	--	--	--	--	--	--	--
1,835	4,430	383	195	70	140	240	360	200	40	15	1,260	69
											(920 to 1,760)	
447	1,020	92	--	--	--	--	--	--	--	--	--	--
952	2,788	150	75	35 <sup>e</sup>	65	120	170	80	20	5	570	60
											(400 to 840)	
1,298	2,964	308	--	--	--	--	--	--	--	--	--	--
122	339	22	--	--	--	--	--	--	--	--	--	--
265	653	71	--	--	--	--	--	--	--	--	--	--
1,742	4,642	362	160	55	110	200	330	220	80	35	1,190	68
											(830 to 1,680)	66
274	607	58	--	--	--	--	--	--	--	--	--	--
1,631	4,294	383	160	50	95	180	330	230	70	35	1,150	70
											(790 to 1,620)	
431	1,402	92	55	20	40	55	80	55	10	5	320	74
											(220 to 440)	
142	615	16	30	13	22	16	15	5	1	0	102	72
											(70 to 140)	
553	1,577	163	--	--	--	--	--	--	--	--	--	--
680	2,309	175	130	35	65	70	110	100	40	30	580	85
											(440 to 750)	

\* Unimpaired runoff to date . e Estimated.  
Monthly distributions of runoff forecasts are estimated based on comparisons with previous historic water years.

## NORTH COASTAL AREA

**SNOWPACK** - MEASUREMENTS OF THE SNOWPACK OBTAINED AT 12 SNOW COURSES AND 3 SENSORS ON OR ABOUT MARCH 1 SHOW A BASIN WIDE AVERAGE WATER EQUIVALENT OF 24.0 INCHES WHICH IS 81 PERCENT OF THE SEASONAL (APRIL 1) AVERAGE FOR THOSE SITES WHICH REPORTED. ONE YEAR AGO, THIS AREA CONTAINED 92 PERCENT OF ITS SEASONAL ACCUMULATION.

THE OREGON COOPERATIVE SNOW SURVEYS, THROUGH THE U. S. SOIL CONSERVATION SERVICE IN PORTLAND, OREGON, REPORTS THAT THE SNOWPACK WATER EQUIVALENT IN THE UPPER KLAMATH RIVER BASIN WAS 121 PERCENT OF NORMAL ON MARCH 1. THIS COMPARES WITH 124 PERCENT AT THIS TIME LAST YEAR.



**PRECIPITATION** - PRECIPITATION IN THE NORTH COASTAL AREA AVERAGED 90 PERCENT OF NORMAL FOR THE PERIOD OCTOBER 1 THROUGH FEBRUARY 28. THREE OF THE PAST FIVE MONTHS, DECEMBER, JANUARY AND FEBRUARY WERE SUBNORMAL. PRECIPITATION AMOUNTS IN THE SUBDRAINAGES ARE A QUARTER TO A THIRD LESS THAN THOSE OF ONE YEAR AGO. GREATEST SEASONAL ACCUMULATION IN THE STATE WAS 58.62 INCHES OR 74 PERCENT OF THE SEASON AVERAGE AT HONEYDEW 1SW, IN THE MATTOLE RIVER DRAINAGE. OTHER HIGH SEASONAL TOTALS ARE: CRESCENT CITY 11E 56.39 INCHES OR 80 PERCENT, GASQUET R. S. 55.46 INCHES OR 83 PERCENT AND UPPER MATTOLE 50.63 INCHES OR 89 PERCENT. FEBRUARY AVERAGED 65 PERCENT OF NORMAL. IT VARIED FROM 85 PERCENT WITH 5.94 INCHES AT ORLEANS TO 38 PERCENT WITH 2.32 INCHES AT FORT ROSS. A HIGH YIELD STATION, CRESCENT CITY 11E, RECEIVED 9.99 INCHES OR 74 PERCENT OF ITS MONTHLY AVERAGE.

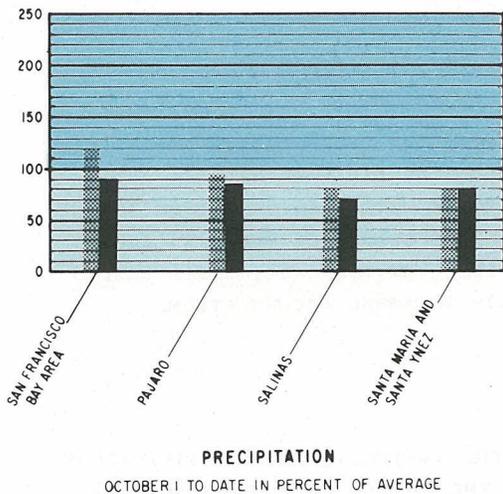
**RESERVOIR STORAGE** - STORAGE ON MARCH 1 IN SIX NORTH COASTAL RESERVOIRS TOTALED 2.1 MILLION ACRE-FEET. THIS IS 97 PERCENT OF AVERAGE MARCH 1 STORAGE AND 76 PERCENT OF AVAILABLE CAPACITY. LAST YEAR AT THIS TIME THESE RESERVOIRS WERE STORING ABOUT THE SAME AMOUNT.

**RUNOFF** - FEBRUARY RUNOFF OF SELECTED NORTH COASTAL STREAMS WAS ABOUT 1.2 MILLION ACRE-FEET OR 54 PERCENT OF AVERAGE. THE WATER YEAR TO DATE (OCTOBER THROUGH FEBRUARY) WAS 6.4 MILLION ACRE-FEET OR 83 PERCENT OF AVERAGE. LAST YEAR'S FEBRUARY FLOWS WERE 1.7 MILLION ACRE-FEET, AND THE WATER YEAR TO DATE WAS 11.7 MILLION ACRE-FEET.

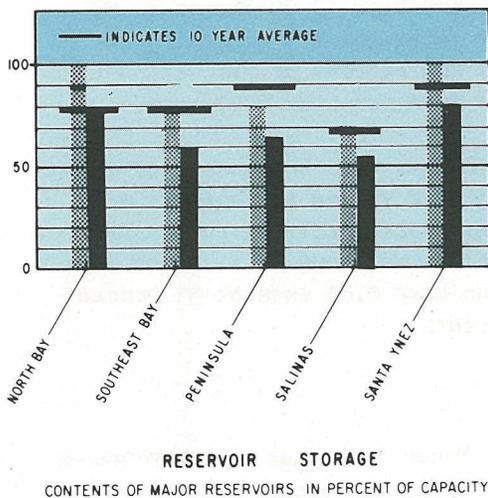
MARCH 1, 1984

MARCH 1, 1985

# SAN FRANCISCO BAY AND CENTRAL COASTAL AREAS

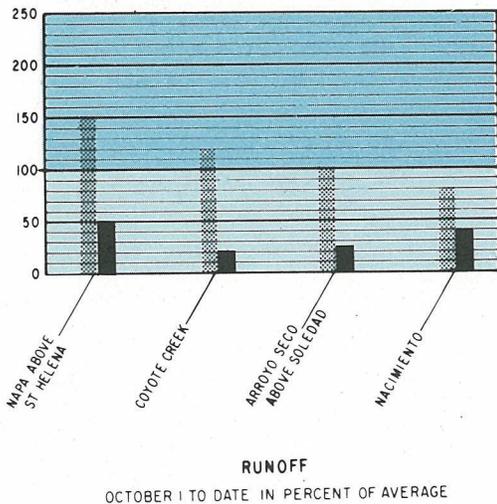


**PRECIPITATION** - IN THE SAN FRANCISCO BAY AND CENTRAL COASTAL AREAS, PRECIPITATION AVERAGED 85 PERCENT OF NORMAL FOR THE PERIOD OCTOBER 1 THROUGH FEBRUARY 28. SLIGHTLY BELOW NORMAL CONDITIONS CHARACTERIZED THE WHOLE AREA WITH SUBDRAINAGE VALUES SLIGHTLY LESS THAN THOSE AMOUNTS OF ONE YEAR AGO. IT VARIED FROM 117 PERCENT WITH 20.10 INCHES AT MT. HAMILTON TO 54 PERCENT WITH 5.50 INCHES AT PASO ROBLES. OTHER OCTOBER-FEBRUARY TOTALS ARE: LAGUNITAS LAKE 28.40 INCHES OF 76 PERCENT, SANTA CRUZ 22.03 INCHES OR 99 PERCENT AND BIG SUR STATE PARK 20.33 INCHES OR 67 PERCENT. FEBRUARY PRECIPITATION WAS LIGHT, AVERAGING 45 PERCENT. IT VARIED FROM 73 PERCENT WITH 4.88 INCHES AT ANGINW PACIFIC UNION COLLEGE TO 13 PERCENT AT KING CITY. THE CONSECUTIVE SUBNORMAL MONTHS OF JANUARY, 0.10 INCH, AND FEBRUARY, 0.29 INCH, OR 9 PERCENT COMBINED, EXPERIENCED AT KING CITY, WAS THEIR DRIEST OF RECORD SINCE 1887.



**RESERVOIR STORAGE** - STORAGE ON MARCH 1 IN 17 MAJOR RESERVOIRS IN THE SAN FRANCISCO BAY AREA TOTALED 444,000 ACRE- FEET, WHICH IS 87 PERCENT OF THE AVERAGE FOR THIS DATE AND IS 63 PERCENT OF AVAILABLE CAPACITY. ONE YEAR AGO, THESE RESERVOIRS WERE STORING 555,000 ACRE- FEET.

MARCH 1 STORAGE IN SIX CENTRAL COASTAL RESERVOIRS WAS 613,000 ACRE- FEET. THIS IS 82 PERCENT OF THE MARCH 1 AVERAGE AND 62 PERCENT OF AVAILABLE CAPACITY. LAST YEAR ON THIS DATE THESE RESERVOIRS WERE HOLDING 782,000 ACRE- FEET.



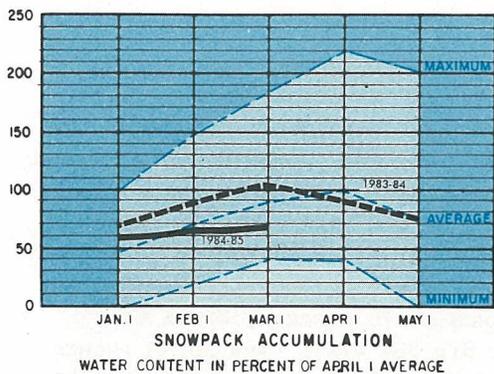
**RUNOFF** - FEBRUARY RUNOFF FROM SELECTED SAN FRANCISCO BAY AREA STREAMS WAS ABOUT 15,400 ACRE- FEET OR 55 PERCENT OF THE FEBRUARY AVERAGE. FOR THE WATER YEAR TO DATE, THE FIVE- MONTH TOTAL IS 31,000 ACRE- FEET OR 39 PERCENT OF AVERAGE. ONE YEAR AGO, THE MONTHLY FLOW WAS 27 PERCENT OF AVERAGE WHILE WATER YEAR TO DATE FLOW WAS 140 PERCENT OF AVERAGE.

RUNOFF FROM SELECTED CENTRAL COASTAL STREAMS WAS 20,300 ACRE- FEET WHICH IS 24 PERCENT OF THE FEBRUARY AVERAGE. THE FIVE- MONTH TOTAL FOR THE WATER YEAR TO DATE IS 72,600 ACRE- FEET WHICH IS 35 PERCENT OF AVERAGE FOR THIS PERIOD. LAST YEAR, THESE STREAMS PRODUCED 8,000 ACRE- FEET DURING FEBRUARY AND 110,000 ACRE- FEET DURING THE OCTOBER THROUGH FEBRUARY PERIOD.

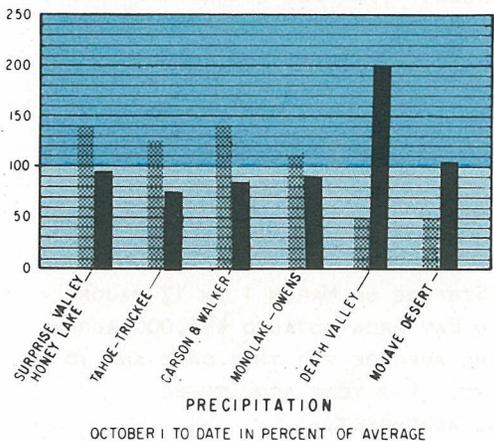
MARCH 1, 1984

MARCH 1, 1985

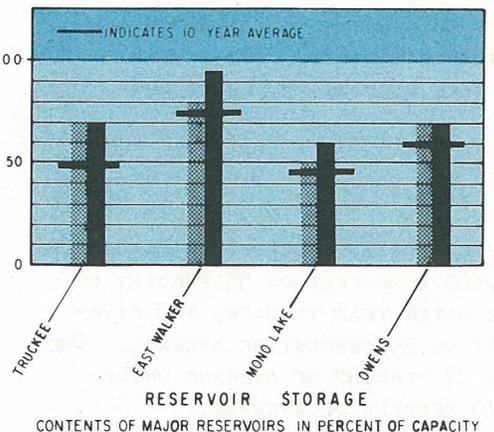
# LAHONTAN AREA



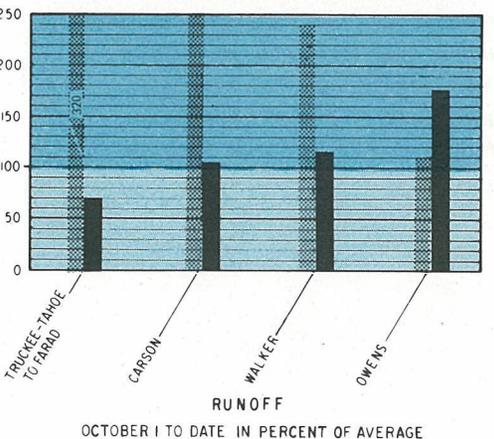
**SNOWPACK** - MEASUREMENTS OF THE SNOWPACK OBTAINED AT 55 SNOW COURSES, 3 SENSORS AND 1 AERIAL MARKER ON OR ABOUT MARCH 1 SHOW A BASIN WIDE AVERAGE WATER EQUIVALENT OF 16.6 INCHES WHICH IS 69 PERCENT OF THE SEASONAL (APRIL 1) AVERAGE FOR THOSE SITES WHICH REPORTED. ONE YEAR AGO, THESE BASINS CONTAINED 104 PERCENT OF THEIR SEASONAL ACCUMULATION.



**PRECIPITATION** - IN THE LAHONTAN AREA, PRECIPITATION WAS 110 PERCENT OF NORMAL FOR THE FIVE-MONTH PERIOD OCTOBER 1 THROUGH FEBRUARY 28. ALL SUBDRAINAGES, WITH THE EXCEPTION OF THE TWO DESERTS, WERE BELOW NORMAL. NEAR AVERAGE SEASONAL ACCUMULATIONS ARE SPILLOVERS FROM HEAVY FIRST QUARTER STORMS, ESPECIALLY DECEMBER FOR THE DESERT PORTION OF THE AREA. SEASONAL ACCUMULATIONS AT VARIOUS STATIONS WERE: THAOE CITY 16.24 INCHES OR 73 PERCENT, ELLERY LAKE 13.90 INCHES OR 87 PERCENT AND LAKE SABRINA 12.02 INCHES OR 114 PERCENT. THE 2.24 INCHES AT DEATH VALLEY IS 202 PERCENT OF THE SEASONAL NORMAL AND EXCEEDING THE WATER YEAR TOTAL BY 0.27 INCH.



FEBRUARY PRECIPITATION AVERAGED 40 PERCENT OF NORMAL IN THE AREA. IT VARIED WIDELY FROM 164 PERCENT WITH 2.33 INCHES AT DOYLE TO NO MEASURABLE PRECIPITATION IN THE DESERT. MONTHLY TOTALS AT VARIOUS STATIONS ARE: TAHOE CITY 1.90 INCHES OR 38 PERCENT, MONO LAKE 0.81 INCH OR 31 PERCENT AND BISHOP 0.01 INCH OR 1 PERCENT.



**RESERVOIR STORAGE** - MARCH 1 STORAGE IN EIGHT MAJOR RESERVOIRS IN THIS AREA WAS 305,000 ACRE-FEET OR 114 PERCENT OF THE AVERAGE FOR THIS DATE. LAST YEAR THESE RESERVOIRS WERE STORING 303,000 ACRE-FEET.

**RUNOFF** - FEBRUARY RUNOFF OF SELECTED LAHONTAN AREA STREAMS TOTALED 55,800 ACRE-FEET. THIS WAS 101 PERCENT OF THE FEBRUARY AVERAGE. FLOW IN THESE STREAMS FROM OCTOBER THROUGH FEBRUARY TOTALED 258,000 ACRE-FEET OR 111 PERCENT OF THE PERIOD'S AVERAGE. ONE YEAR AGO THESE STREAMS PRODUCED 112,000 ACRE-FEET DURING FEBRUARY, AND A SEASONAL-TO-DATE TOTAL OF 530,000 ACRE-FEET.

MARCH 1, 1984

MARCH 1, 1985

**FORECASTS OF APRIL-JULY UNIMPAIRED RUNOFF AT SELECTED CALIFORNIA STREAMS  
AS OF MARCH 1, 1985**

DRAINAGE BASIN AND WATERSHED	UNIMPAIRED RUNOFF IN 1000 ACRE-FEET						(3)
	HISTORICAL			FORECASTS			
	50 Year Average	Maximum of Record	Minimum of Record	April - July Forecasts		Percent of Average	
	1000 Acre-Feet	1000 Acre-Feet	1000 Acre-Feet	1000 Acre-Feet	1000 Acre-Feet		
<b>NORTH COASTAL AREA</b>							
Trinity River at Lewiston	642	1400	80	560		87	
Scott River at Ft. Jones	200			170		85	
Upper Klamath Lake (1)				547		109	
<b>LAHONTAN AREAS</b>							
Truckee River, Lake Tahoe to Farad accretion	269	713	58	170		63	
Lake Tahoe Rise (assuming gates closed)	1.42 ft.			.85 ft.		60	
East Carson River near Gardnerville	184	407	43	130		71	
West Carson River at Woodfords	53	108	12	35		66	
East Walker River near Bridgeport	62	209	7	35		56	
West Walker River near Coleville	146	330	35	110		75	
Owens River at Long Valley Reservoir (2)				72		85	
<b>SURPRISE VALLEY AREA</b>							
Bidwell Creek near Ft. Bidwell	12.00	--	--	12.0		100	
Mill Creek above diversions	4.10	--	--	4.5		110	
Deep Creek above diversions	3.60	--	--	3.6		100	
Eagle Creek at Eagleville	4.30	--	--	4.4		102	
<b>GOOSE LAKE TRIBUTARIES</b>							
New Pine Creek below Schroeders	7.35	--	--	6.1		83	
Cottonwood Creek below Larkin Garden Ditch	2.45	--	--	2.0		81	
Lassen Creek near Willows Ranch	7.54	--	--	7.2		95	
Davis Creek above Diversion No.4	6.25	--	--	6.5		104	

(1) Forecast by U.S. Soil Conservation Service, Portland, Oregon, for monthly period, April through September.  
(2) Forecast by Dept. of Water and Power, City of Los Angeles, for monthly period, April through September.  
(3) Inside back cover for definition of unimpaired runoff.

## SOUTH COASTAL AND COLORADO DESERT AREAS

PRECIPITATION - IN THE SOUTH COASTAL AREA, PRECIPITATION AVERAGED 95 PERCENT OF NORMAL FOR THE PERIOD OCTOBER 1 THROUGH FEBRUARY 28. WET MONTHS WERE LIMITED TO OCTOBER THROUGH DECEMBER. ACCUMULATION VALUES INCREASED TO ABOUT ONE-FOURTH MORE THAN LAST YEAR'S AMOUNTS. SEASONAL VALUES VARIED FROM 28.58 INCHES OR 96 PERCENT AT LAKE ARROWHEAD TO 8.31 INCHES OR 112 PERCENT AT SAN DIEGO. FEBRUARY PRECIPITATION AVERAGED 40 PERCENT OVER THE AREA. IT VARIED FROM 5.66 INCHES OR 81 PERCENT AT CUYAMACA TO 0.45 INCH OR 17 PERCENT AT ELSINORE.

PRECIPITATION IN THE COLORADO DESERT AREA WAS ABOUT 180 PERCENT OF NORMAL. FOR THE PERIOD OF OCTOBER THROUGH FEBRUARY, EXTREMES VARIED FROM 272 PERCENT WITH 6.28 INCHES AT NEEDLES TO 109 PERCENT WITH 2.11 INCHES AT TWENTYNINE PALMS. FEBRUARY PRECIPITATION AVERAGED 50 PERCENT. IT VARIED FROM 93 PERCENT WITH 0.25 INCH AT IRON MOUNTAIN TO NO MEASURABLE AMOUNT AT THERMAL.

RESERVOIR STORAGE - STORAGE IN 28 MAJOR SOUTH COASTAL AREA RESERVOIRS WAS 1.4 MILLION ACRE-FEET ON MARCH 1. THIS IS 102 PERCENT OF AVERAGE FOR THIS DATE AND IS 67 PERCENT OF AVAILABLE CAPACITY. LAST YEAR ON MARCH 1 THESE RESERVOIRS WERE ALSO STORING 1.6 MILLION ACRE-FEET.

RUNOFF - FEBRUARY RUNOFF IN SELECTED SOUTH COASTAL STREAMS WAS 7,000 ACRE-FEET WHICH IS 21 PERCENT OF NORMAL. THE OCTOBER THROUGH FEBRUARY TOTAL WAS 21.6 THOUSAND ACRE-FEET OR 43 PERCENT OF AVERAGE. LAST YEAR, THE MONTHLY AND SEASONAL-TO-DATE FIGURES WERE 10.6 AND 65.0 THOUSAND ACRE-FEET.

## MAJOR WATER DISTRIBUTION PROJECTS

STATE WATER PROJECT - CURRENT FORECASTS OF WATER SUPPLY AND DEMAND INDICATE THAT THE STORAGE IN LAKE OROVILLE WILL BE ABOUT 3.4 MILLION ACRE-FEET THIS SUMMER. THE STATE WATER PROJECT PORTION OF THE STORAGE SPACE IN SAN LUIS RESERVOIR IS FULL AT THIS TIME. ALL APPROVED WATER DELIVERY REQUESTS SHOULD BE MET.

CENTRAL VALLEY PROJECT - MARCH 1 RUNOFF FORECASTS INDICATE THAT THE CVP WILL HAVE AN ADEQUATE WATER SUPPLY. ALL CVP WATER OBLIGATIONS WILL BE MET. THE INFLOW TO MILLERTON LAKE INDICATES A FULL CLASS I SUPPLY.

COLORADO RIVER - MARCH 1 SNOWPACK IN THE UPPER COLORADO RIVER BASIN, ACCORDING TO THE U. S. SOIL CONSERVATION SERVICE, IS 99 PERCENT OF NORMAL AND RANGES FROM A HIGH OF 126 PERCENT IN SAN JUAN BASIN TO A LOW OF 74 PERCENT ON THE GREEN RIVER ABOVE FLAMING GORGE.

THE U. S. BUREAU OF RECLAMATION AND THE U. S. NATIONAL WEATHER SERVICE, SALT LAKE CITY, UTAH, FORECASTS THAT THE INFLOW TO LAKE POWELL, DURING APRIL-JULY 1985, WILL BE ABOUT 10.0 MILLION ACRE-FEET OR 134 PERCENT OF THE BUREAU OF RECLAMATION'S LONG-TIME AVERAGE.

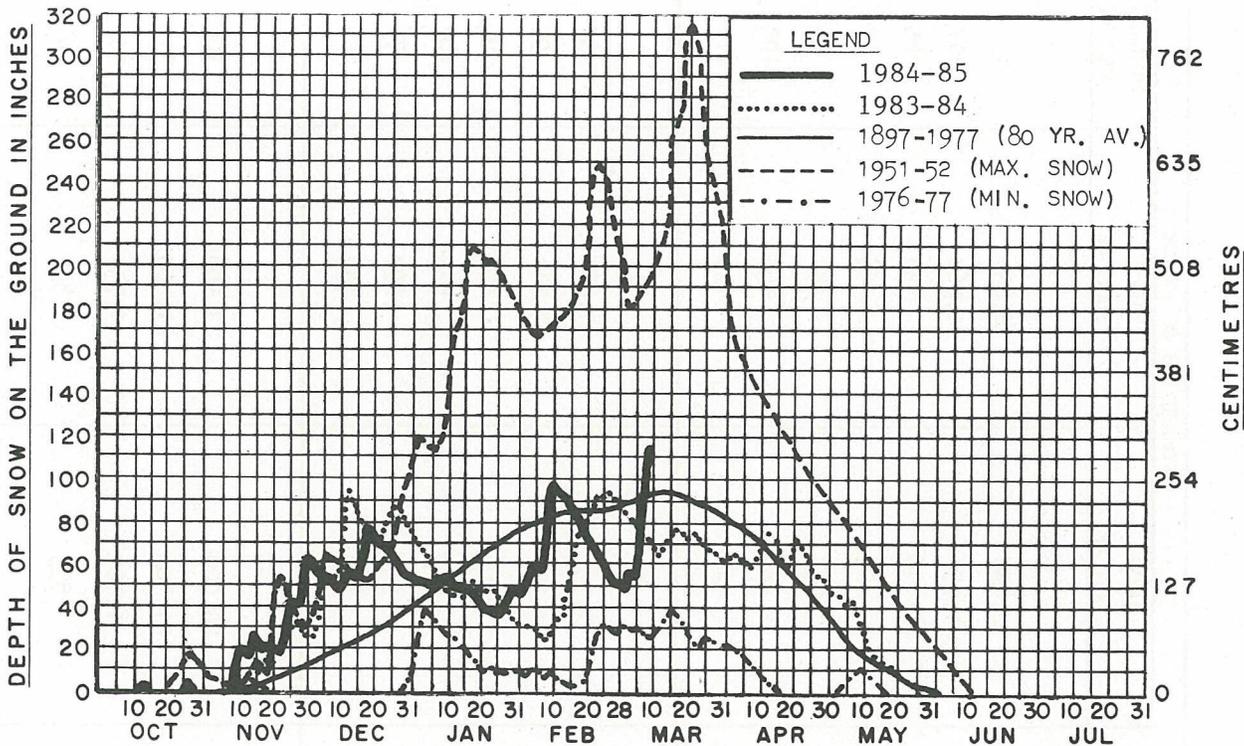
**MAJOR WATER DISTRIBUTION PROJECTS  
RESERVOIR STORAGE**

RESERVOIR	CAPACITY 1,000 AF	AVERAGE STORAGE <sup>1/</sup> 1,000 AF	STORAGE AS OF MARCH 1		PERCENT AVERAGE
			1984 1,000 AF	1985 1,000 AF	
<u>STATE WATER PROJECT</u>					
OROVILLE	3,540	2,730	2,890	2,830	104
SAN LUIS SWP	1,060	908	1,050	1,060	117
LAKE DEL VALLE	77	35	36	30	85
SILVERWOOD LAKE	78	68	69	66	97
PYRAMID LAKE	170	156	155	154	99
CASTAIC LAKE	325	256	255	255	100
PERRIS RESERVOIR	130	111	124	124	111
<u>CENTRAL VALLEY PROJECT</u>					
CLAIR ENGLE LAKE	2,450	1,935	1,935	1,870	97
SHASTA LAKE	4,550	3,410	3,790	3,240	95
WHISKEYTOWN	240	207	206	206	100
FOLSOM	1,010	619	683	633	102
MILLERTON LAKE	520	375	372	292	78
SAN LUIS CVP	980	716	912	737	103
<u>COLORADO RIVER PROJECT</u>					
LAKE MEAD	26,100	22,600	24,000	23,900	106
LAKE POWELL	25,000	19,100	21,500	21,300	112
LAKE MOHAVE	1,810	1,670	1,720	1,730	104
LAKE HAVASU	620	542	553	551	102

<sup>1/</sup> AVERAGE STORAGE BASED ON 10-YEAR PERIOD 1975-1984. EXCLUDES PERIOD OF INITIAL FILLING.

## SNOW DEPTH AT DONNER SUMMIT

ELEVATION 2 134 METRES ( 7,000 FEET )



## SNOW LINES

MAILING LIST - THIS BULLETIN, AND ITS ASSOCIATED PUBLICATIONS, IS MAILED TO A WIDE VARIETY OF ORGANIZATIONS, AND INDIVIDUALS. CHANGING ORGANIZATIONAL STRUCTURES, INDIVIDUAL ADDRESSES AND INTERESTS MEAN THAT OUR MAILING LIST WILL ALWAYS BE SOMEWHAT BEHIND THE TIMES. IN ORDER TO HELP US MINIMIZE THIS GAP, WE ASK THAT YOU LET US KNOW OF POSITION TITLE, ADDRESS AND INTEREST CHANGES AS THEY OCCUR. THANKS.

WHERE'S HONEYDEW? PRECIPITATION AMOUNTS FOR THE STATION AT HONEYDEW 1SW ARE FREQUENTLY QUOTED IN THIS BULLETIN. WE ARE SOMETIMES ASKED, "WHERE IS HONEYDEW"?

IT IS ABOUT 45 MILES DUE SOUTH OF EUREKA AND IS ON THE MATTOLE RIVER. ALTHOUGH NOW ABANDONED, IT SET SOME IMPRESSIVE PRECIPITATION FIGURES IN ITS DAY - AVERAGE SEASONAL CATCH 106.03 INCHES, AVERAGE DECEMBER CATCH 21.45 INCHES.

WHY FORECASTS ARE JUST THAT - FORECASTS - OUR ESTIMATES OF APRIL-JULY RUNOFF ARE BASED ON OBSERVED CONDITIONS TO DATE AND THE ASSUMPTION OF NORMAL PRECIPITATION FROM THE FORECAST DATE THROUGH THE END OF THE ACCUMULATION SEASON.

FUTURE WEATHER IS, OF COURSE, SELDOM "NORMAL," THAT'S WHY WE CONDITION OUR FORECASTS WITH THE 90 PERCENT AND 10 PERCENT PROBABILITY RANGES YOU SEE IN THE CENTER TABLE OF THIS BULLETIN. AS QUANTITATIVE LONG-RANGE WEATHER FORECASTING BECOMES MORE ACCURATE, WE WILL BE ABLE TO PRODUCE COMPARATIVELY MORE ACCURATE FORECASTS AND THUS SAVE OURSELVES A LOT

### SNOW COVERED AREAS (SQ. MI.) - MARCH 1

BASIN	1985	1984	1983	1978
Sacramento	3185	2314	3545	3200
Feather	1580	2065	2865	2180
San Joaquin	1060	1040	1235	1225
Kern	1016	867	1675	1430

**SNOWPACK** — Snow data is a major index of spring and summer runoff from Sierra Nevada watersheds. April 1 data historically reflects the magnitude of the snowpack at or near the maximum seasonal accumulation. Averages are based on April 1 data for 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 are shown as unimpaired values. Unimpaired runoff represents the natural water production of a river basin, unaltered by upstream diversions, storage, or by export or import of water to or from other watersheds. Forecasts of runoff assume median conditions subsequent to the date of forecast.

Runoff probability ranges are statistically derived from historical data. The 80 percent probability range is comprised of the 90 percent exceedence level value and the 10 percent exceedence level value. This means that actual runoff should fall within the stated limits eight times out of ten.

Runoff averages for most streams are based on the 50 year period 1931-1980 with data through 1975 being final values. For more details, contact California Cooperative Snow Surveys, P.O. Box 388, Sacramento, CA 95802, (916) 445-2196.

State of California - Resources Agency  
**Department of Water Resources**  
P.O. Box 388  
Sacramento  
95802

# FIRST CLASS

