STATE OF CALIFORNIA
Department of Public Works
SACRAMENTO

DIVISION OF WATER RESOURCES
401 PUBLIC WORKS BUILDING

EDWARD HYATT, STATE ENGINEER
CHIEF OF DIVISION

CALIFORNIA COOPERATIVE SNOW SURVEYS

MONTHLY BULLETIN OF SNOW SURVEY AND PRECIPITATION DATA
May 1, 1932

Although the principal snow surveys as a basis for stream flow estimates were made at the last of March and reported in the April 1st bulletin, additional surveys have been made in the latter part of April at the key snow courses to furnish information for possible modification of earlier estimates in accordance with the addition to or melting of the snow pack since April 1st. These later surveys complete the seasonal record of monthly surveys, February to May, for the key snow courses.

Normally, melting commences about April 1st and for this reason the seasonal water content used in determining normal seasonal water content, as given in these bulletins, is that shown by the April 1st surveys. Instead, therefore, of expressing the water content of the May 1st surveys in per cent of the seasonal water content (April 1st) the per cent departure of the May from the April water content is given. This shows the additions to or extent of melting of the snow pack.

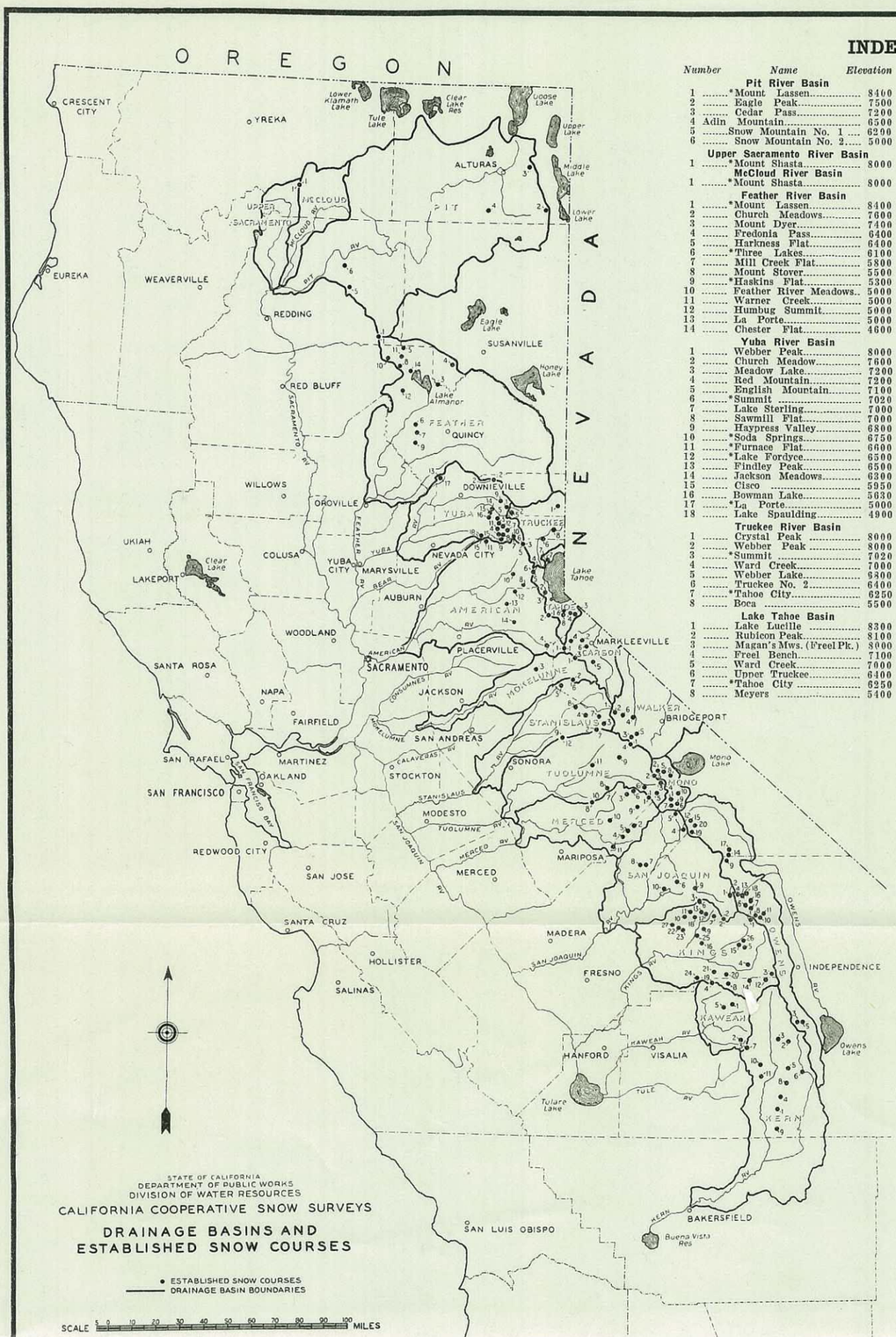
Table I presents the snow survey data and Table II the available precipitation data to May 1st for the mountain stations of the U. S. Weather Bureau, State, Districts and Public Utilities.

The recent surveys show that melting has occurred at all measured snow courses below 8000 feet but above that elevation, six out of sixteen courses on the western Sierra slope show an increase in the pack and water content over the April 1st measurements. Of these six, Mt. Lassen course (8400) shows an increase of 30 per cent, Mammoth Pass (9500) at the headwaters of the San Joaquin River, an increase of 15 per cent, Mt. Shasta (8000) 4 per cent, and Fletcher Lake (10300), Snow Flat (8700), and Crescent Lake (8500) in the Tuolumne and Merced basins increases of 4, 2 and 9 per cent, respectively. In general, for a given elevation below 8000, the results indicate an increase in the percentage of melting in going from northern to southern basins of the Sacramento-San Joaquin drainage. For the 8000 foot elevation the average per cent of melting appears to increase, north to south, from about 5 to 20 per cent; for 7000 foot elevation from about 15 to 30 per cent; for 6000, from about 35 to 75 per cent; and for 5000, from about 65 to 100 per cent. In 1931 the corresponding data indicated melting at all measured courses; varying from 5 to 70 per cent for those above elevation 7500 and practically 100 per cent or no snow for all courses below 7500.

As on April 1st, the average precipitation to May 1st in per cent of normal shows, in general, a progressive increase in going from northern to southern stream basins of the western Sierra slope, with a variation from about 80 per cent in the north to 130 per cent in the south. The Los Angeles, San Gabriel and Santa Ana basins show a variation from about 115 to 140 per cent and the basins of the eastern Sierra slope vary from about 100 per cent in the Truckee and Tahoe basins to about 140 per cent in the Owens basin.

The above normal April precipitation in northern basins combined with the small percentage of melting or actual increase of the snow pack at the higher elevations probably warrants a slight upward modification of the estimates

given on April 1st for seasonal stream flow in these basins. On this basis the estimated seasonal stream flow in per cent of the 40-year average (1889-1929) for the entire Sacramento basin including tributaries might be increased from 75 to 80 per cent. In San Joaquin basins, the barely normal or subnormal April precipitation combined with the greater percentage of melting and lesser actual accretions to the high elevation snow pack appears to warrant no change in the April 1st stream flow estimates and the estimated 1932 seasonal stream flow for the entire Sacramento-San Joaquin drainage would also probably remain at 90 per cent, the April 1st figure.



STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

CALIFORNIA COOPERATIVE SNOW SURVEYS

DRAINAGE BASINS AND ESTABLISHED SNOW COURSES

• ESTABLISHED SNOW COURSES
—— DRAINAGE BASIN BOUNDARIES

SCALE 0 10 20 30 40 50 60 70 80 90 100 MILES

INDEX TO SNOW COURSES

Number	Name	Elevation
	Pit River Basin	
1	*Mount Lassen	8400
2	Eagle Peak	7500
3	Cedar Pass	7200
4	Adin Mountain	6500
5	Snow Mountain No. 1	6200
6	Snow Mountain No. 2	5000
	Upper Sacramento River Basin	
1	*Mount Shasta	8000
	McCloud River Basin	
1	*Mount Shasta	8000
	Feather River Basin	
1	*Mount Lassen	8400
2	Church Meadows	7000
3	Mount Dyer	7400
4	Fredonia Pass	6400
5	Harkness Flat	6400
6	*Three Lakes	6100
7	Mill Creek Flat	5800
8	Mount Stover	5500
9	*Haskins Flat	5300
10	Feather River Meadows	5000
11	Warner Creek	5000
12	Humbug Summit	5000
13	La Porte	5000
14	Chester Flat	4600
	Yuba River Basin	
1	Webber Peak	8000
2	Church Meadow	7600
3	Meadow Lake	7200
4	Red Mountain	7200
5	English Mountain	7100
6	*Summit	7020
7	Lake Sterling	7000
8	Sawmill Flat	7000
9	Haypress Valley	6800
10	*Soda Springs	6750
11	*Furnace Flat	6600
12	*Lake Fordyce	6500
13	Findley Peak	6500
14	Jackson Meadows	6300
15	Cisco	5950
16	Bowman Lake	5650
17	*La Porte	5000
18	Lake Spaulding	4900
	Truckee River Basin	
1	Crystal Peak	8000
2	Webber Peak	8000
3	*Summit	7020
4	Ward Creek	7000
5	Webber Lake	6800
6	Truckee No. 2	6400
7	*Tahoe City	6250
8	Bora	5500
	Lake Tahoe Basin	
1	Lake Lucille	8300
2	Rubicon Peak	8100
3	Magan's Mws. (Freel Pk.)	8000
4	Freel Bench	7100
5	Ward Creek	7000
6	Upper Truckee	6400
7	*Tahoe City	6250
8	Meyers	5400

Number	Name	Elevation
	American River Basin	
1	*Carson Pass	8600
2	Lake Lucille	8300
3	Rubicon Peak	8100
4	*Silver Lake	7300
5	*Summit	7020
6	Ward Creek	7000
7	*Soda Springs	6750
8	Loon Lake	6400
9	Cisco	5950
10	Gerle	5800
11	Six Mile Valley	5700
12	Long Meadow	5600
13	Orelll's	5600
14	Ice House	5300
15	Lake Spaulding	4900
	Carson River Basin	
1	*Carson Pass	8600
2	Burnside Lake	8000
3	*Blue Lakes	8000
4	Williams	7800
5	Silver Peak	6700
6	Grovers Springs	6200
	Mokelumne River Basin	
1	*Blue Lakes	8000
2	Pacific Valley	7500
3	Bear Valley Ridge	6700
	Stanislaus River Basin	
1	Sonora Pass	8800
2	Lower Relief Valley	8300
3	*Soda Creek Flat	7900
4	Eagle Meadows	7500
5	*Lake Alpine	7500
6	Pacific Valley	7500
7	*Relief Dam	7300
8	*Niagara Flat	6500
9	*Strawberry Lake	5700
	Walker River Basin	
1	Center Mountain	9300
2	Sonora Pass	8800
3	Buckeye Forks	8600
4	Willow Flat	8300
5	Buckeye Creek	8100
6	Leavitt Meadow	7200
	Tuolumne River Basin	
1	*Fletcher Lake	10300
2	Tioga Pass	9900
3	Dana Meadows	9700
4	Center Mountain	9300
5	*Upper Lyell Forks	8800
6	*Tuolumne Meadows	8600
7	Lower Relief Valley	8300
8	*White Wolf Meadows	8000
9	Wolverine Meadow	8000
10	*Gin Flat	7100
11	Beehive Meadow	6500
12	*Strawberry Lake	5700
	Merced River Basin	
1	*Fletcher Lake	10338
2	Moraine Meadow	8800
3	*Snow Flat	8700
4	Crescent Lake	8500
5	Johnson Lake	8500
6	*Lake Tenaya	8150
7	*White Wolf Meadows	8000
8	*Gin Flat	7100
9	*Merced Lake	7000
10	*Peregoy Meadow	7000
11	Mariposa Big Trees	6500
	Mono Lake Basin	
1	Gem Pass	11200
2	Saddlebags Lake	10000
3	Tioga Pass	9900
4	Dana Meadows	9700
5	*Rhinedollar Lake	9500
6	Agnew Pass	9450
7	*Gem Lake	9200
8	Sylvester Meadows	7500
9	Silver Lake	7300
10	Grant Lake	7200

Number	Name	Elevation
	Upper San Joaquin River Basin	
1	Piute Pass	11200
2	Blackcap Basin	10800
3	Upr. Burnt Corral Mdw.	9700
4	*Mammoth Pass	9500
5	Agnew Pass	9450
6	Kaiser Pass Meadows	9200
7	Chilkoot Lake	7450
8	Chilkoot Meadows	7250
9	Florence Lake	7200
10	Huntington Lake	7000
	Owens River Basin	
1	Bishop Pass	11400
2	Piute Pass	11200
3	*Cottonwood Creek	11100
4	*East Piute Pass	10800
5	*Cottonwood Creek	10600
6	George Lake	10500
7	*Sawmill	10200
8	*Big Pine	10000
9	*Rock Creek	10000
10	*Big Pine	9800
11	*Big Pine	9700
12	*Mammoth Pass	9500
13	*North Lake	9500
14	*Rock Creek	9050
15	*Minarets	9000
16	South Fork	9000
17	*Rock Creek	8700
18	*Bishop Park	8500
19	*Mammoth	8300
20	*Minarets	8300
	Kings River Basin	
1	Bishop Pass	11400
2	Blackcap Basin	10800
3	Bullfrog Lake	10600
4	Copper Creek Summit	10200
5	Dougherty No. 1	9750
6	Upr. Burnt Corral Mdw.	9700
7	Beard Meadow	9300
8	Rowell Meadow	9200
9	Woodchuck Meadow	9100
10	Swamp Meadow	9000
11	Helms Meadow	8500
12	Junction Meadows	8500
13	Long Meadow	8500
14	Moraine Meadow	8400
15	Dougherty No. 2	8350
16	Statum Meadow	8300
17	Post Corral Meadow	8200
18	*Sand Meadow	8050
19	Big Meadow	7660
20	Horse Corral Meadow	7600
21	Kennedy Meadow	7600
22	Bear Ridge	7400
23	Fred Meadow	7200
24	*General Grant Park	6660
25	*Cliff Camp	6300
26	Simpson Meadow	6200
27	Dinkey Sand Flat	5500
	Kaweah River Basin	
1	Panther Meadow	8650
2	Hockett Meadow	8600
3	Quinn Ranger Station	8000
4	Big Meadow	7660
5	*Giant Forest	6500
	Kern River Basin	
1	*Round Meadow	9000
2	Ramshaw Meadows	8800
3	Little Whitney Meadows	8500
4	Bonita Meadows	8400
5	Casa Vieja Meadows	8400
6	Monache Meadows	8000
7	Quinn Ranger Station	8000
8	Beach Meadows	7800
9	Cannell Meadows	7500
10	Burnt Corral Meadow	6200
11	Lloyd Meadows	5600

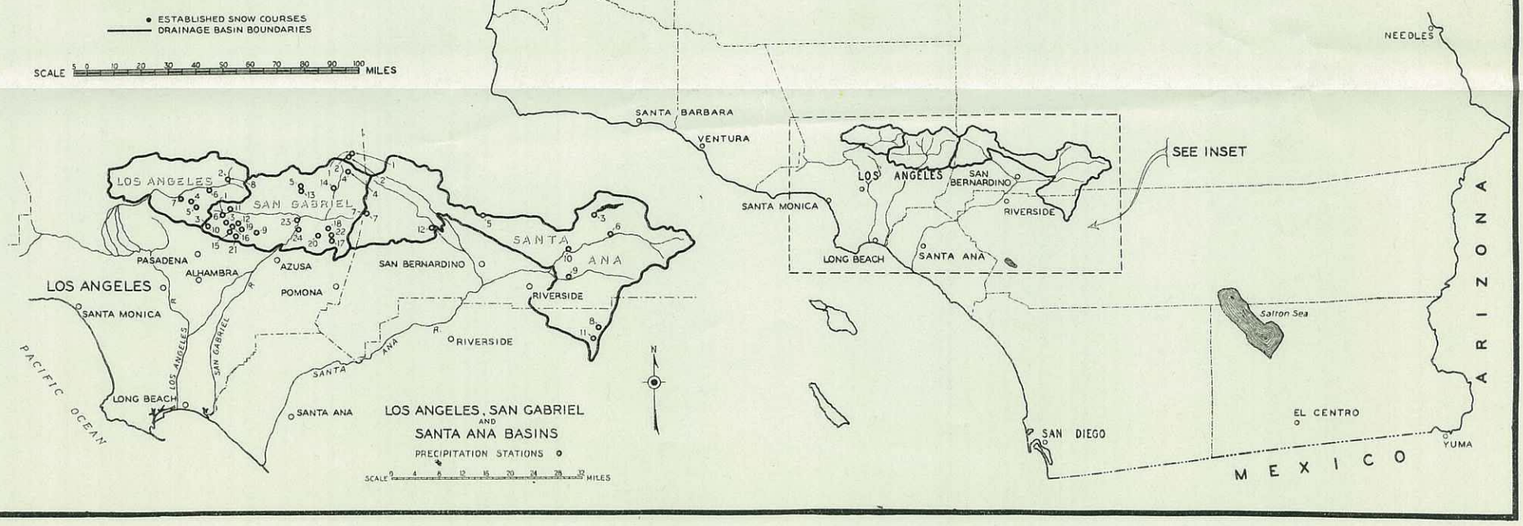
* "Key" courses where arrangements are made for surveys at approximate monthly intervals from January to May.

INDEX TO PRECIPITATION STATIONS

Los Angeles, Santa Ana and San Gabriel Basins

Number	Name	Elevation
	Los Angeles River Basin	
1	Opids Camp	4480
2	Alder Creek (Loomis Ranch)	3550
3	Mt. Lowe Observatory	3420
4	Clear Creek	3300
5	Switzers	3050
6	Colby Ranch	2950
7	Hansens	2050
	Santa Ana River Basin	
1	Table Mountain Observatory	7500
2	Big Pines Co. Pk.	6860
3	Bear Valley Dam	6500
4	Prairie Fork	5680
5	Squirrel Inn	5280
6	Seven Oaks	5000
7	Camp Baldy	4300
8	Beaumont (Near)	3045
9	Mill Creek No. 2	2950
10	Santa Ana River	2850
11	Beaumont	2558
12	Lytle Creek	2250

Number	Name	Elevation
	San Gabriel River Basin	
1	Table Mt. Observatory	7500
2	Big Pines Co. Pk.	6860
3	Mt. Wilson	5850
4	Prairie Fork	5680
5	Little Cienega	4650
6	Opids Camp	4480
7	Camp Baldy	4300
8	Alder Creek (Loomis Ranch)	3550
9	Sawpit Canyon	3500
10	Mt. Lowe Observatory	3420
11	Valley Forge Lodge	3400
12	Sturtevant Camp	3375
13	Coldbrook Camp	3300
14	Iron Forks	3150
15	Orchard Camp	2850
16	Hoegee's Camp	2650
17	Wolfskill Falls	2400
18	Tanbark Flats	2000
19	Santa Anita Rgr. Stn.	2000
20	Big Dalton Rgr. Stn.	1950
21	Clark's Halfway House	1600
22	San Dimas Rgr. Stn.	1500
23	San Gabriel Dam Rgr. Stn.	1500
24	Edison Intake	1250



LOS ANGELES, SAN GABRIEL AND SANTA ANA BASINS

PRECIPITATION STATIONS

SCALE 0 4 8 12 16 20 24 28 32 MILES

PROGRESS REPORT OF SNOW SURVEY AND PRECIPITATION DATA
TO May 1, 1932

TABLE I - SNOW SURVEY DATA FOR KEY COURSES

1 Drainage Basins and Snow Courses	Elevation in Feet	Date of Survey	Depth of Snow Inches	Density per cent	Water Content Inches	Corresponding Water Content Last Year Inches	Per cent Departure from April 1, 1932 Seasonal Water Content	Corresponding Percentage Departure in 1931
PIT RIVER								
Mount Lassen	8400	4/30/32	143.2	46.0	65.9	41.4	+30	-4
UPPER SACRAMENTO RIVER								
Mount Shasta	8000	4/29/32	59.4	47.5	28.2	16.6	+4	-25
McCLOUD RIVER								
Mount Shasta	8000	4/29/32	59.4	47.5	28.2	16.6	+4	-25
FEATHER RIVER								
Mount Lassen	8400	4/30/32	143.2	46.0	65.9	41.4	+30	-4
Three Lakes	6100	5/2/32	103.6	49.3	51.0	0.7	-16	-83
Haskins Flat	5300	4/30/32	42.8	50.0	21.4	0	-50	-100
La Porte	5000	5/2/32	23.3	46.5	10.8		-56	
YUBA RIVER								
Summit	7020	5/2/32	67.3	51.0	34.3	0	-31	-100
Soda Springs	6750	5/2/32	65.0	52.1	33.9	0	-21	-100
Furnace Flat	6600	4/29/32	109.5	46.2	50.6	0	-9	-100
Lake Fordyce	6500	4/30/32	94.1	51.1	48.1	0	-9	-100
La Porte	5000	5/2/32	23.3	46.5	10.8		-56	

1 Data for courses common to more than one basin are listed under each basin.

TABLE I - SNOW SURVEY DATA FOR KEY COURSES - CONTINUED

1 Drainage Basins and Snow Courses	Elevation in Feet	Date of Survey	Depth of Snow Inches	Density per cent	Water Content Inches	Corresponding Water Content Last Year Inches	Per Cent Departure from April 1, 1932 Seasonal Water Content	Corresponding Percentage Departure in 1931
TRUCKEE RIVER								
Summit	7020	5/2/32	67.3	51.0	34.3	0	-31	-100
AMERICAN RIVER								
Carson Pass	8600	4/28/32	100.5	48.6	48.8	12.3	-1	-34
Silver Lake	7300	4/25/32	47.2	44.6	21.1	0	-31	-100
Summit	7020	5/2/32	67.3	51.0	34.3	0	-31	-100
Soda Springs	6750	5/2/32	65.0	52.1	33.9	0	-21	-100
Ice House	5300	4/30/32	19.9	44.8	8.9		-66	
CARSON RIVER								
Carson Pass	8600	4/23/32	100.5	48.6	48.8	12.3	-1	-34
Blue Lakes	8000	4/29/32	92.4	47.8	44.1	6.6	-10	-63
MOKELUMNE RIVER								
Blue Lakes	8000	4/29/32	92.4	47.8	44.1	6.6	-10	-63
STANISLAUS RIVER								
Soda Creek Flat	7900	4/25/32	53.6	49.6	26.6	0	-25	-100
Relief Dam	7300	4/25/32	53.9	49.6	26.7	0	-27	-100
Niagara Flat	6500	4/27/32	47.6	39.1	18.6	0	-43	-100
Strawberry Lake	5700	4/28/32	6.1	47.5	2.9	0	-83	

1 Data for courses common to more than one basin are listed under each basin.

TABLE I - SNOW SURVEY DATA FOR KEY COURSES - CONTINUED

1 Drainage Basins and Snow Courses	Elevation in Feet	Date of Survey	Depth of Snow Inches	Density per cent	Water Content Inches	Corresponding Water Content Last Year Inches	Per Cent Departure from April 1, 1932 Seasonal Water Content	Corresponding Percentage Departure in 1931
TUOLUMNE RIVER								
Fletcher Lake	10300	5/2/32	81.4	50.0	40.6	9.7	+4	-22
Upper Lyell Fork	8800	5/1/32	36.8	49.5	18.2	0	-28	-100
Tuolumne Meadows	8600	5/1/32	51.2	53.8	27.6	0	-23	-100
Gin Flat	7100	5/4/32	80.3	51.6	41.4	8.6	-19	-62
Beehive Meadow	6500	5/2/32	48.5	52.4	25.4		-29	
Strawberry Lake	5700	4/28/32	6.1	47.5	2.9	0	-33	
MERCED RIVER								
Fletcher Lake	10300	5/2/32	81.4	50.0	40.6	9.7	+4	-22
Moraine Meadow	8800	5/1/32	84.1	54.4	45.7		-11	
Snow Flat	8700	4/30/32	108.2	49.4	53.4	16.4	+2	-22
Crescent Lake	8500	4/30/32	89.8	64.5	57.8		+9	
Johnson Lake	8500	4/30/32	93.0	49.0	45.5		-15	
Lake Tenaya	8150	4/30/32	70.5	69.3	48.8	7.0	-7	-60
Gin Flat	7100	5/4/32	80.3	51.6	41.4	8.6	-19	-62
Merced Lake	7000	5/3/32	Practically no snow on course 0					-100
Peregoy Meadow	7000	5/2/32	60.9	53.2	32.4	5.0	-30	-72
MONO LAKE								
Rhinedollar Lake	9500	5/1/32	72.1	52.8	38.1		-3	
Gem Lake	9200	5/1/32	66.4	47.2	31.3		-12	

1 Data for courses common to more than one basin are listed under each basin.

TABLE I - SNOW SURVEY DATA FOR KEY COURSES - CONTINUED

1 Drainage Basin and Snow Courses	Elevation in feet	Date of Survey	Depth of Snow Inches	Density per cent	Water Content Inches	Corresponding Water Content Last Year Inches	Per cent Departure from April 1, 1932 Seasonal Water Content	Corresponding Percentage Departure in 1931
UPPER SAN JOAQUIN RIVER								
Mammoth Pass	9500	4/14/32	120.5	47.8	57.7	13.0	+15	-16
OWENS RIVER								
Upper Owens								
Mammoth Pass	9500	4/14/32	120.5	47.8	57.7	13.0	+15	-16
Minarets	9000	4/13/32	88.5	45.9	40.6	7.0	+2	-36
Minarets	8300	4/13/32	53.5	49.4	26.4	4.0	-12	-36
Mammoth	8300	4/14/32	54.4	47.4	25.8	2.0	-14	-61
Rock Creek								
Rock Creek	10000	4/11/32	42.6	40.4	17.2	1.5	+8	-50
Rock Creek	9050	4/12/32	25.5	43.6	11.1	0	-21	
Rock Creek	8700	4/12/32	24.8	43.8	10.9	0	-22	
Bishop Creek								
Sawmill	10200	5/1/32	51.9	49.1	25.5		-10	
North Lake	9500	5/1/32	16.1	47.9	7.7		-49	
Bishop Park	8500	5/1/32	No snow on course				-100	
Big Pine Creek								
Big Pine Creek	10000	4/19/32	72.7	44.2	32.2	2.5	+ 7	-47
Big Pine Creek	9800	4/19/32	51.2	45.3	23.2	0	-3	-100
Big Pine Creek	9700	4/18/32	49.1	44.3	21.8	0	-5	-100
Cottonwood Creek								
Cottonwood Creek	11100	4/12/32	40.5	41.1	16.6	0	-8	-100
Cottonwood Creek	10600	4/12/32	39.3	46.1	18.1	0	-5	-100

1 Data for courses common to more than one basin are listed under each basin.

TABLE I - SNOW SURVEY DATA FOR KEY COURSES - CONTINUED

1 Drainage Basins and Snow Courses	Elevation in Feet	Date of Survey	Depth of Snow Inches	Density per cent	Water Content Inches	Corresponding Water Content Last Year Inches	Per cent Departure from April 1, 1932 Seasonal Water Content	Corresponding Percentage Departure in 1931
KINGS RIVER								
Sand Meadow	8050	5/2/32	59.9	54.7	32.8	3.2	-21	-62
General Grant Park	6660	4/28/30	21.8	46.1	10.0	2.0	-66	
KAWEAH RIVER								
Panther Meadow	8650	4/29/32	107.9	47.5	51.2	5.7	-2	-64
Giant Forest	6500	4/29/32	40.5	46.9	19.0	0	-40	-100
KERN RIVER								
Round Meadow	9000	4/29/32	49.6	50.2	24.9	3.3	-30	-77

1 Data for courses common to more than one basin are listed under each basin.

PROGRESS REPORT OF SNOW SURVEY AND PRECIPITATION DATA
To May 1, 1932

TABLE II - PRECIPITATION DATA

1 Basin and Precipitation Station	Elevation in Feet	Precipitation since July 1, 1931 Inches (Including Snow as Water)	2 Normal Precipitation for this date Inches	Precipitation to date in per cent of normal	2 Normal Seasonal Precipitation Inches (July to June)	Precipitation to date in per cent of Seasonal Normal (July to June)
UPPER SACRAMENTO, PIT AND McCLOUD RIVERS						
Jess Valley	5400	14.99				
Alturas	4460	10.73	10.40	103	12.13	88
Bieber	4200	13.75				
Mt. Shasta City	3555	24.96	32.03	78	34.46	72
Hat Creek	3400	15.25	16.50	92	19.20	79
Fall River Mills	3340	15.14	16.36	93	18.89	80
McCloud	3270	31.64	47.06	67	51.32	62
Montgomery Creek	2119	A 37.66	A 45.48	A 83	55.22	A 68
Kennett	730	48.78	60.57	80	65.06	75

1 Certain of the stations are not actually in the basin shown but are closely adjacent. Stations common to more than one basin are listed under each basin.

2 These are computed 42-year normals for the period 1890-1931 inclusive. Where the periods of record are less than 42 years, the normals have been computed by comparison with the records of stations for which the actual 42-year data are complete. This gives all normals based upon the same period of years and comparable. Note that the normals used in bulletins previous to February 1, 1932, were based only upon the actual period of record for each station and hence were not strictly comparable.

A Record only available to April first.

TABLE II - PRECIPITATION DATA - CONTINUED

1 Basin and Precipitation Station	Elevation in Feet	Precipitation since July 1, 1931 Inches (Including Snow as Water)	2 Normal Precipitation for this date Inches	Precipitation to date in per cent of Normal	2 Normal Seasonal Precipitation inches (July to June)	Precipitation to date in per cent of Seasonal Normal (July to June)
FEATHER RIVER						
Bucks Storage Dam	5100	67.08				
Westwood	5000	19.87	26.26	76	28.65	69
Sierraville	5000	21.97	25.22	87	26.87	82
La Porte	5000	61.99	67.82	91	73.06	85
Mineral	4935	41.63				
Portola	4832	19.22	16.84	114	17.66	109
Inskip	4808	56.80	79.86	71	84.84	67
Prattville	4600	28.80	37.54	77	39.70	73
Canyon Dam	4570	32.51	36.51	89	38.91	84
Chester	4550	21.53	31.62	68	34.04	63
Humbug Valley	4300	29.03	42.05	69	44.54	65
Doyle	4300	7.31	11.88	62	13.19	55
Butt Valley	4100	36.23	42.01	86	44.80	81
Veramont	3500	28.02	35.73	79	37.83	74
Quincy	3409	26.51	38.73	68	41.57	64
West Branch	3216	57.55	73.65	78	73.34	74
Caribou	3000	34.51	42.00	82	44.59	77
Smiths Point	2500	49.81	61.60	81	65.18	76
Lake Wilenor	2000	43.99				
Storrie	1760	52.20				
Las Plumas	506	41.05	50.70	81	53.78	76

1, 2, See footnotes first page of this table.

TABLE II - PRECIPITATION DATA - CONTINUED

1 Basin and Precipitation Station	Elevation in Feet	Precipitation since July 1, 1931 Inches (Including Snow as Water)	2 Normal Precipitation for this date Inches	Precipitation to date in per cent of Normal	2 Normal Seasonal Precipitation Inches (July to June)	Precipitation to date in per cent of Seasonal Normal (July to June)
YUBA RIVER						
*Soda Springs	6752	50.39	44.24	114	46.60	108
Carvin Mine	5516	53.76				
Bowman Dam	5347	59.58	65.45	91	70.69	84
La Porte	5000	61.99	67.82	91	73.06	85
Drum Forebay	4653	51.69	55.36	94	59.15	87
Lake Spaulding	4600	61.99	63.52	97	68.16	91
Alleghany	4500	67.52				
Deer Creek	3700	57.55	67.27	86	71.57	80
Camptonville	3500	60.25	65.69	92	69.77	86
North Bloomfield	3214	47.94	49.13	98	52.55	91
Downieville	3150	53.44	62.28	86	66.38	80
Nevada City	2580	A 42.21	A 43.21	A 98	49.77	A 85
Dobbins	1650	39.18	41.08	95.	43.82	89
Chute Camp	1500	57.15	53.84	106	57.40	100
TRUCKEE AND TAHOE BASINS						
Twin Lakes	7970	35.32	42.98	82	46.93	75
Phillips Station	7050	55.94				
*Soda Springs	6752	50.39	44.24	114	46.60	108
Tahoe	6230	31.77	31.47	101	33.62	94

1, 2, A, See footnotes first page of this table.

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TABLE II - PRECIPITATION DATA - CONTINUED

1 Basin and Precipitation Station	Elevation in Feet	Precipitation since July 1, 1931 Inches (Including Snow as Water)	2 Normal Precipitation for this date Inches	Precipitation to date in per cent of Normal	2 Normal Seasonal Precipitation Inches (July to June)	Precipitation to date in per cent of Seasonal Normal (July to June)
AMERICAN RIVER						
Twin Lakes	7970	35.32	42.98	82	46.93	75
Phillips Station	7050	55.94				
*Soda Springs	6752	50.39	44.24	114	46.60	108
Blue Canyon	4695	48.95	57.25	85	61.48	80
Drum Forebay	4653	51.69	55.36	94	59.15	87
Rasor Lodge	3400	56.40				
Colfax	2420	42.87	46.94	91	48.32	89
Placerville	1925	38.82	38.28	101	40.56	95
MOKELUMNE RIVER						
Twin Lakes	7970	35.32	42.98	82	46.93	75
Salt Springs	3660	42.86				
Mill Creek No.1 (Tiger Cr.)	2400	41.09	45.39	91	48.23	85
West Point	2326	35.76	38.48	93	40.85	87
Electra	700	27.63	30.85	90	32.49	85
STANISLAUS RIVER						
Strawberry Lake	5620	37.09	34.54	107	37.80	98
Spring Gap	4875	45.49	40.46	112	43.72	104
Calaveras Big Trees	4700	57.87				
Confidence	4000	50.63				
Sand Bar	2700	43.01	38.83	111	41.82	103

1, 2, See footnotes first page of this table.

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TABLE II - PRECIPITATION DATA - CONTINUED

1 Basin and Precipitation Station	Elevation in feet	Precipitation since July 1, 1931 Inches (Including Snow as Water	2 Normal Precipitation for this date Inches	Precipitation to date in per cent of normal	2 Normal Seasonal Precipitation Inches (July to June)	Precipitation to date in per cent of Seasonal Normal (July to June)
WALKER RIVER						
Lundy Lake	7760	16.23	13.66	119	15.20	107
Shields Ranch	5300	A 17.33	A 9.64	A 180	12.11	A 143
TUOLUMNE RIVER						
Strawberry Lake	5620	37.09	34.54	107	37.80	98
Spring Gap	4875	45.49	40.46	112	43.72	104
Lake Eleanor	4650	48.43	40.01	121	43.14	112
Mather	4500	33.31				
Confidence	4000	50.63				
Hetch Hetchy	3530	33.09	32.70	101	35.92	92
Groveland	2828	38.67	36.29	106	38.15	101
Sonora	1825	31.98	30.96	103	32.76	98
MERCED RIVER						
Fish Camp	5500	48.49	51.40	94	53.28	91
Yosemite	3960	38.17	32.74	117	35.54	107
Dudleys	3000	41.48	38.54	108	40.59	102
Mariposa	1932	33.31	27.45	121	29.02	115
Merced Falls	351	14.77	18.24	81	19.18	77

1, 2, A, See footnotes first page of this table.