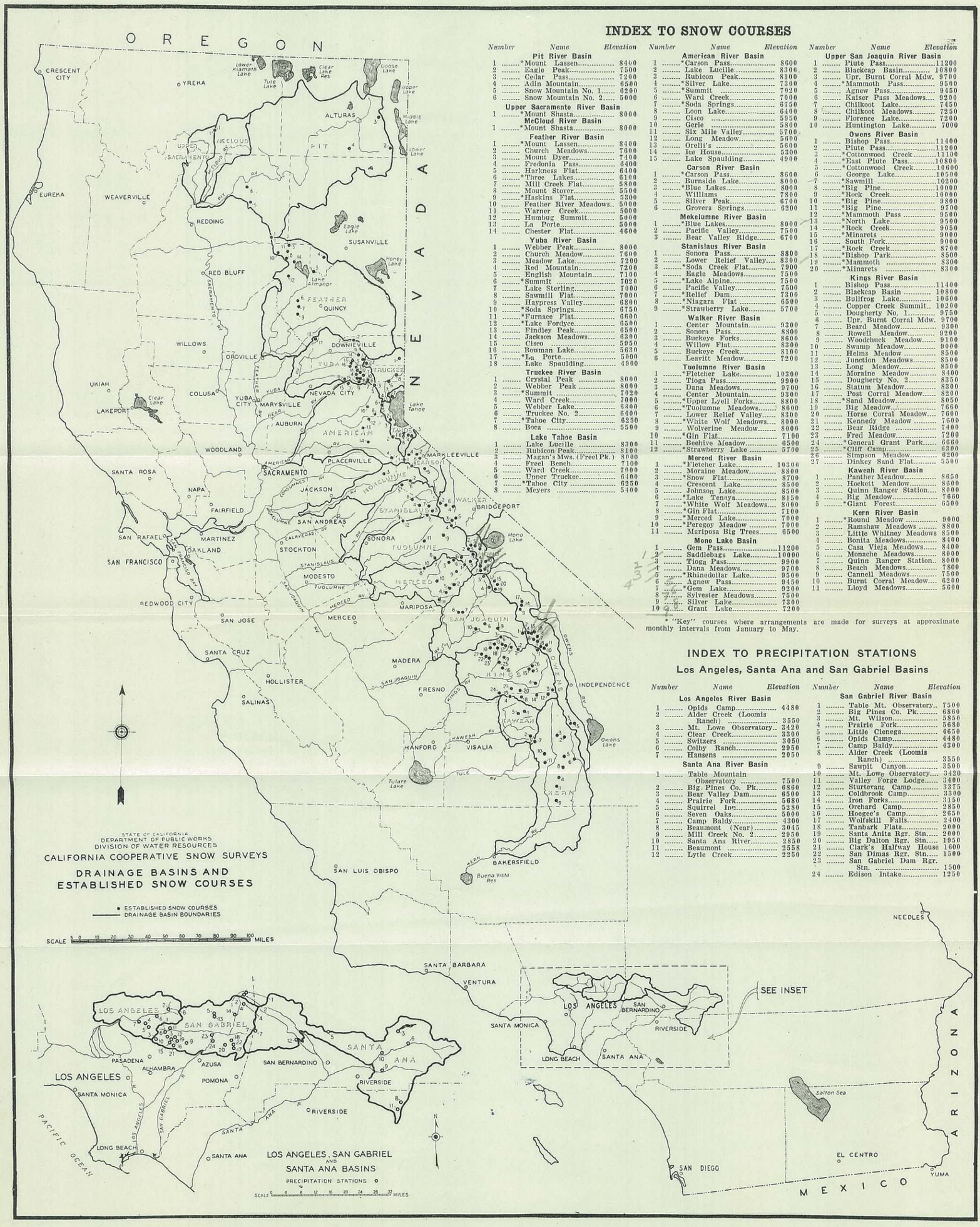

INDEX TO SNOW COURSES

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	7600
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	Cleo	5950
16	Bowman Lake	5630
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	Boca	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	6100
7	*Tahoe City	6250
8	Meyers	5400
	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	Orelli'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	8300
9	Wolverine Meadow	8000
10	*Gin Flat	7100
11	Beehive Meadow	6500
12	*Strawberry Lake	5700
	Merced River Basin	
1	*Fletcher Lake	10300
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
	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	7600
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
	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 Clenega	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

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PROGRESS REPORT OF SNOW SURVEY AND PRECIPITATION DATA
TO FEBRUARY 1, 1933
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	2 NORMAL SEASONAL WATER CONTENT (ENTIRE SEASON) INCHES	PERCENTAGE OF NORMAL SEASONAL WATER CONTENT TO SURVEY DATE	CORRESPONDING PERCENTAGE OF NORMAL SEASONAL WATER CONTENT LAST YEAR
PIT RIVER									
MOUNT LASSEN	8400	2/3/33	102.2	29.9	30.6	61.2	*	*	*
UPPER SACRAMENTO RIVER									
MOUNT SHASTA	8000	1/29/33	93.2	27.0	25.1	21.7	*	*	*
MC CLOUD RIVER									
MOUNT SHASTA	8000	1/29/33	93.2	27.0	25.1	21.7	*	*	*
FEATHER RIVER									
MOUNT LASSEN	8400	2/3/33	102.2	29.9	30.6	61.2	*	*	*
THREE LAKES	6100	2/3/33	92.0	32.8	30.2	51.6	*	*	*
HASKINS FLAT	5300	2/5/33	141.8	29.4	41.7	40.6	*	*	*
LA PORTE	5000	2/1/33	97.0	27.9	27.0	28.5	*	*	*
YUBA RIVER									
SUMMIT	7020	2/5/33	81.0	31.0	25.1	46.9	3 40.8	62	115
SODA SPRINGS	6750	2/5/33	78.7	32.3	25.4	40.7	34.5	74	118
FURNACE FLAT	6600	2/4/33	92.0	29.2	26.9		49.2	55	
LAKE FORDYCE	6500	2/3/33	89.0	31.9	28.4		43.5	65	
LA PORTE	5000	2/1/33	97.0	27.9	27.0	28.5	*	*	*
TRUCKEE RIVER									
SUMMIT	7020	2/5/33	81.0	31.0	25.1	46.9	4 47.8	52	98
AMERICAN RIVER									
CARSON PASS	8600	2/1/33	83.0	26.3	21.8	50.5	5 *	*	*
SILVER LAKE	7300	2/2/33	73.4	24.2	17.7	35.2	*	*	*
SUMMIT	7020	2/5/33	81.0	31.0	25.1	46.9	49.2	51	95
SODA SPRINGS	6750	2/5/33	78.7	32.3	25.4	40.7	49.9	51	82
ICE HOUSE	5300	2/5/33	68.5	23.8	16.3	21.6	*	*	*

* RECORD IS OF INSUFFICIENT LENGTH TO REPORT A NORMAL.

1 DATA FOR COURSES COMMON TO MORE THAN ONE BASIN ARE LISTED UNDER EACH BASIN.

2 THE NORMALS IN THIS COLUMN HAVE BEEN DETERMINED BY COMPARING RECORDED SNOW SURVEY DATA WITH LONG-TIME STREAM FLOW RECORDS. SPECIFIC NOTES FOR EACH BASIN INDICATE STREAM FLOW STATION AND PERIOD USED. WHERE A "CREST" SNOW COURSE IS COMMON TO TWO BASINS THE NORMAL COMPUTED BY COMPARISON WITH STREAM FLOW IN ONE BASIN MAY DIFFER FROM THAT SIMILARLY COMPUTED FOR THE OTHER. UNTIL SUCH TIME AS THE TRUE NORMAL CAN BE DETERMINED FROM AN ACTUAL LONG-TIME RECORD OF SNOW SURVEYS, IT IS REQUIRED THAT DIFFERENT NORMALS BE USED FOR SUCH A COURSE ACCORDING TO THE BASIN IN WHICH IT IS GROUPED.

3 NORMALS BY COMPARISON WITH NATURAL FLOW AT LANGS CROSSING ON SOUTH YUBA, 1890-1932.

4 NORMAL BY COMPARISON WITH FLOW OF TRUCKEE RIVER AT ICELAND 1904-1927. AS COMPUTED AND USED BY NEVADA FORECAST COMMITTEE.

5 NORMALS BY COMPARISON WITH NATURAL FLOW OF NORTH FORK AT COLFAX, 1890-1932.

TABLE 1 – 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	2 NORMAL SEASONAL WATER CONTENT (ENTIRE SEASON) INCHES	PERCENTAGE OF NORMAL SEASONAL WATER CONTENT TO SURVEY DATE	CORRESPONDING PERCENTAGE OF NORMAL SEASONAL WATER CONTENT LAST YEAR
CARSON RIVER									
CARSON PASS	8600	2/1/33	83.0	26.3	21.8	50.5	*	*	*
BLUE LAKES	8000	2/7/33	73.8	28.4	20.9	40.0	6 48.1	44	83
MOKELUMNE RIVER									
BLUE LAKES	8000	2/7/33	73.8	28.4	20.9	40.0	7 43.1	49	93
BEAR VALLEY RIDGE	6700	1/6/33	25.2	28.6	7.2	28.0	*	*	*
		2/6/33	70.6	29.0	20.5	44.3	*	*	*
STANISLAUS RIVER									
SODA CREEK FLAT	7900	1/26/33	57.0	20.4	11.6	25.5	*	*	*
LAKE ALPINE	7500	1/18/33	37.6	25.0	9.4		*	*	*
RELIEF DAM	7300	1/26/33	62.5	21.5	13.4	28.1	*	*	*
NIAGARA FLAT	6500	1/29/33	87.6	20.3	17.8	26.0	*	*	*
STRAWBERRY LAKE	5700	1/31/33	73.6	24.2	17.8	19.8	*	*	*
TUOLUMNE RIVER									
FLETCHER LAKE	10300	2/6/33	58.2	34.1	19.8	24.8	*	*	*
UPPER LYELL FORK	8800	1/1/33	12.9	27.9	3.6		*	*	*
		2/5/33	37.6	28.8	10.8	14.8	*	*	*
TUOLUMNE MEADOWS	8600	12/31/32	18.1	27.6	5.0		*	*	*
		2/7/33	54.6	29.8	16.3	21.1	*	*	*
GIN FLAT	7100	1/24/33	76.4	21.8	16.6		*	*	*
		2/7/33	90.3	24.6	22.2	59.5	*	*	*
STRAWBERRY LAKE	5700	1/3/33	73.6	24.2	17.8	19.8	*	*	*
MERCED RIVER									
FLETCHER LAKE	10300	2/6/33	58.2	34.1	19.8	24.8	*	*	*
MORAINE MEADOW	8800	2/3/33	89.6	23.9	21.4	31.6	*	*	*
SNOW FLAT	8700	2/8/33	86.4	29.4	25.4	32.8	*	*	*
JOHNSON LAKE	8500	2/2/33	91.3	28.0	25.6	33.0	*	*	*
LAKE TENAYA	8150	1/2/33	26.7	30.0	8.0		*	*	*
		2/4/33	67.4	29.8	20.1	14.1	*	*	*
GIN FLAT	7100	1/24/33	76.4	21.8	16.6		*	*	*
		2/7/33	90.3	24.6	22.2	59.5	*	*	*
PEREGOY MEADOW	7000	2/1/33	82.7	23.7	19.6	40.5	*	*	*
MONO LAKE									
RHINEDOLLAR LAKE	9500	2/1/33	77.4	22.8	17.6	26.3	8 32.7	54	80
GEM LAKE	9200	2/1/33	70.5	19.9	14.0	25.0	*	*	*
SYLVESTER MEADOWS	7500	2/1/33	22.1	35.3	7.8	9.3	*	*	*
SILVER LAKE	7300	2/1/33	29.0	29.0	8.4	12.1	*	*	*
GRANT LAKE	7200	2/1/33	24.3	30.4	7.4	8.0	*	*	*

*, 1, 2, SEE FOOTNOTES FIRST PAGE OF THIS TABLE.

6 NORMAL BY COMPARISON WITH FLOW OF CARSON RIVER, 1904–1927. AS COMPUTED AND USED BY NEVADA FORECAST COMMITTEE.

7 NORMAL BY COMPARISON WITH NATURAL FLOW OF NORTH FORK NEAR WEST POINT, 1890–1932.

8 NORMAL BY COMPARISON WITH NATURAL FLOW OF LEEVINING CREEK, 1905–1932.

from Yosemite

only April survey

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	2 NORMAL SEASONAL WATER CONTENT (ENTIRE SEASON) INCHES	PERCENTAGE OF NORMAL SEASONAL WATER CONTENT TO SURVEY DATE	CORRESPONDING PERCENTAGE OF NORMAL SEASONAL WATER CONTENT LAST YEAR
UPPER SAN JOAQUIN RIVER							9		
MAMMOTH PASS	9500	1/12/33	25.6	27.0	6.9	37.1	48.2	14	77
FLORENCE LAKE	7200	1/24/33	42.8	18.2	7.8	13.9	*	*	*
HUNTINGTON LAKE	7000	DATA	NOT	IN		23.7	*	*	*
OWENS RIVER							10		
UPPER OWENS									
MAMMOTH PASS	9500	1/12/33	25.6	27.0	6.9	37.1	50.3	14	74
MINARETS	9000	1/11/33	19.6	27.6	5.4	30.4	35.2	15	86
MINARETS	8300	1/10/33	13.9	23.8	3.3	21.3	21.9	15	97
MAMMOTH	8300	1/10/33	12.0	21.6	2.6	18.9	22.9	11	82
ROCK CREEK									
ROCK CREEK	10000	1/9/33	5.9	17.0	1.0	12.5	12.8	8	98
ROCK CREEK	9050	1/9/33	8.1	12.3	1.0	10.7	9.4	11	114
ROCK CREEK	8700	1/9/33	6.2	12.9	0.8	10.6	9.2	9	115
BISHOP CREEK									
SAWMILL	10200	2/1/33	42.0	29.6	12.4	8.8	20.7	60	42
NORTH LAKE	9500	2/1/33	25.4	27.6	7.0	8.2	*	*	*
SOUTH FORK	9000	2/1/33	24.5	29.0	7.1	7.6	*	*	*
BISHOP PARK	8500	2/1/33	21.4	26.6	5.7	8.5	*	*	*
BIG PINE CREEK									
BIG PINE CREEK	10000	1/13/33	5.5	29.1	1.6	18.5	22.5	7	82
BIG PINE CREEK	9800	1/12/33	3.2	28.0	0.9	15.4	14.6	6	106
BIG PINE CREEK	9700	1/12/33	4.8	25.0	1.2	17.2	14.8	8	116
COTTONWOOD CREEK									
COTTONWOOD CREEK	11100	1/10/33	1.4	28.5	0.4	11.6	17.0	2	68
COTTONWOOD CREEK	10600	1/10/33	3.4	26.5	0.9	12.1	15.4	6	79
KINGS RIVER									
SAND MEADOW	8050	1/8/33	20.3	26.1	5.3		*	*	*
GENERAL GRANT PARK	6660		DATA	NOT	IN		*	*	*
CLIFF CAMP	6300	1/7/33	13.1	26.7	3.5		*	*	*
KAWEAH RIVER									
PANTHER MEADOW	8650		DATA	NOT	IN	38.6	*	*	*
GIANT FOREST	6500	1/30/33	106.6	23.1	24.6	26.6	*	*	*
KERN RIVER									
ROUND MEADOW	9000	2/5/33	78.3	26.7	20.9	27.7	*	*	*

*, 1, 2, SEE FOOTNOTES FIRST PAGE OF THIS TABLE.

9 NORMAL BY COMPARISON WITH NATURAL FLOW OF SAN JOAQUIN RIVER ABOVE MOUTH OF BIG CREEK, 1890-1932.

10 NORMALS BY COMPARISON WITH FLOW OF COTTONWOOD CREEK NEAR OLANCHA 1904-1932, FOR COTTONWOOD COURSES; WITH FLOW OF BIG PINE CREEK NEAR BIG PINE 1904-1932, FOR BIG PINE COURSES; WITH FLOW OF ROCK CREEK ABOVE LITTLE ROUND VALLEY 1904-1932, FOR ROCK CREEK COURSES; WITH FLOW OF HOT CREEK AT COUNTY ROAD 1904-1932, FOR MAMMOTH AND MINARETS COURSES; AND WITH NATURAL FLOW OF BISHOP CREEK AT PLANT #5, 1904-1932, FOR BISHOP CREEK COURSES.

PROGRESS REPORT OF SNOW SURVEY AND PRECIPITATION DATA
TO FEBRUARY 1, 1933

TABLE II — PRECIPITATION DATA

1 BASIN AND PRECIPITATION STATION	ELEVATION IN FEET	PRECIPITATION SINCE JULY 1, 1932 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)	SNOW ON GROUND INCHES: THIS DATE	SNOW ON GROUND INCHES: 3 MAXIMUM THIS DATE FOR PREVIOUS YEARS	SNOW ON GROUND INCHES: 3 MINIMUM THIS DATE AND YEAR
UPPER SACRAMENTO, PIT, AND MC CLOUD RIVERS								
JESS VALLEY	5400	5.68				28		
ALTURAS	4360	5.08	6.78	75	12.15	10	11-1921 (7)	0
BIEBER	4200	6.98				18		
MT SHASTA	3555	18.13	19.78	92	34.37	36	48-1921 (19)	0
HAT CREEK	3400	7.02	11.18	63	19.13	11	7-1932 (11)	0
FALL RIVER MILLS	3340	6.18	10.52	59	18.84	21	11-1932 (9)	0
MC CLOUD	3270	14.57	29.53	49	51.00	59	55-1916 (20)	0
MONTGOMERY CREEK	2119	J 6.25	J 23.13	J 27	55.09			
KENNETT	730	25.08	37.81	66	64.79	6		
FEATHER RIVER								
BUCKS STORAGE DAM	5100	21.85				131		
WESTWOOD	5000	10.09	16.39	62	28.51	48	41-1932 (11)	0
SIERRAVILLE	5000	J 2.86	J 9.44	J 30	26.79	36	49-1916 (18)	0
LA PORTE	5000	28.38	39.05	73	73.05	94	120-1916 (19)	0-1918
MINERAL	4935	17.68				69	83-1932 (6)	8-1931
PORTOLA	4832	7.39	9.83	75	17.68	34	51-1916 (18)	0
INSKIP	4808	23.49	45.73	51	84.28	93	120-1916 (19)	0
PRATTVILLE	4600	13.58	22.02	62	39.52	55		
CANYON DAM	4570	15.47	20.82	74	38.84	61	72-1932 (18)	0-1918
CHESTER	4550	9.32	19.69	47	33.83	40	64-1921 (20)	0
DOYLE	4300	2.67	7.60	35	13.08	0		
VERAMONT	3500	8.78	21.30	41	37.67	16		
QUINCY	3409	10.97	23.49	47	41.33	23	52-1916 (18)	0
WEST BRANCH	3212	J 8.83	J 27.27	J 32	77.94	J 12	56-1916 (18)	0
CARIBOU	3000	13.59	24.11	56	44.44	39		
SMITHS POINT	2500	20.18	35.39	57	64.97	27		
LAKE WILENOR	2000	J 8.22						
STORRIE	1760	19.62				15		
LAS PLUMAS	506	20.87	29.74	70	53.52	0		

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 43-YEAR NORMALS FOR THE PERIOD 1890-1932 INCLUSIVE. WHERE THE PERIODS OF RECORD ARE LESS THAN 43-YEARS, THE NORMALS HAVE BEEN COMPUTED BY COMPARISON WITH THE RECORDS OF STATIONS FOR WHICH THE ACTUAL 43-YEAR DATA ARE COMPLETE. THIS GIVES ALL NORMALS BASED UPON THE SAME PERIOD OF YEARS AND COMPARABLE.

3 THE PERIODS COVERED BY PUBLISHED RECORDS OF SNOW ON THE GROUND DIFFER CONSIDERABLY FOR THE VARIOUS STATIONS, AND LONG-TIME RECORDS ARE AVAILABLE FOR ONLY A FEW STATIONS. IN THESE COLUMNS THE NUMERAL IN PARENTHESES INDICATES THE NUMBER OF YEARS RECORD UPON WHICH THE DATA ARE BASED. THE YEAR OF ZERO MINIMUM IS ONLY SHOWN WHEN ZERO DID NOT OCCUR IN MORE THAN ONE YEAR IN THE PERIOD OF RECORD.

J RECORD TO JANUARY FIRST ONLY.

TABLE II — PRECIPITATION DATA—CONTINUED

1 BASIN AND PRECIPITATION STATION	ELEVATION IN FEET	PRECIPITATION SINCE JULY 1, 1932 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)	SNOW ON GROUND INCHES: THIS DATE	SNOW ON GROUND INCHES: 3 MAXIMUM THIS DATE FOR PREVIOUS YEARS	SNOW ON GROUND INCHES: 3 MINIMUM THIS DATE AND YEAR
YUBA RIVER								
SODA SPRINGS	6752	18.32	24.73	74	46.78	*130	*218-1911(26)	*2-1918
CARVIN MINE	5516	21.67				86		
BOWMAN DAM	5347	23.67	36.93	64	70.58	80	100-1932 (8)	1-1931
LA PORTE	5000	28.38	39.05	73	73.05	94	120-1916 (19)	0-1918
DRUM FOREBAY	4653	12.55	30.07	42	59.13	75	90-1916 (17)	0
LAKE SPAULDING	4600	19.77	35.54	56	68.18	84	138-1916(19)	0
ALLEGHANY	4500	14.69				63		
DEER CREEK	3700	21.56	37.73	57	71.41	72	60-1916(19)	0
CAMPTONVILLE	3500	20.84	37.98	55	69.71	59	40-1916(19)	0
NORTH BLOOMFIELD	3214	18.06	27.82	65	52.57	46	23-1922(20)	0
DOWNIEVILLE	3150	16.55	34.67	48	66.23	40	48-1916(18)	0
NEVADA CITY	2580	J 6.88	J 17.46	J 39	49.82	J 0	18-1922(15)	0
DOBBINS	1650	14.01	23.73	59	43.82	0		
CHUTE CAMP	1500	18.83	31.24	60	57.57	T		
TRUCKEE AND TAHOE BASINS								
TWIN LAKES	7970	17.99	23.64	76	46.71	84	144-1921(11)	0
PHILLIPS STATION	7050	20.51				95		
SODA SPRINGS	6752	18.32	24.73	74	46.78	*130	*218-1911(26)	*2-1918
TAHOE	6230	11.73	17.35	68	33.50	73	88-1932(16)	3-1918
AMERICAN RIVER								
TWIN LAKES	7970	17.99	23.64	76	46.71	84	144-1921(11)	0
PHILLIPS STATION	7050	20.51				95		
SODA SPRINGS	6752	18.32	24.73	74	46.78	*130	*218-1911(26)	*2-1918
BLUE CANYON	4695	15.26	32.71	47	61.36	82	134-1916(19)	0
DRUM FOREBAY	4653	12.55	30.07	42	59.13	75	90-1916(17)	0
RASOR LODGE	3400	19.50				60		
COLFAX	2420	11.40	25.74	44	48.26	24		
PLACERVILLE	1925	13.27	21.42	62	40.57			
MOKELUMNE RIVER								
TWIN LAKES	7970	17.99	23.64	76	46.71	84	144-1921(11)	0
LAKE ALPINE	7500	21.75				102		
SALT SPRINGS	3660	15.87				41		
MILL CREEK #1 (TIGER CREEK)	2400	14.82	25.36	58	48.14	22		
WEST POINT	2326	12.44	21.41	58	40.81	26		
ELECTRA	700	10.20	17.15	60	32.43	0		

1, 2, 3, J, SEE FOOTNOTES FIRST PAGE OF THIS TABLE.

* DATA FOR NORDEN OR SUMMIT WHERE DAILY SNOW DEPTHS REPORTED BY SOUTHERN PACIFIC COMPANY ARE READ. U.S.W.B. STATION WAS MOVED A SHORT DISTANCE FROM NORDEN TO SODA SPRINGS IN APRIL, 1931.

TABLE II — PRECIPITATION DATA — CONTINUED

1 BASIN AND PRECIPITATION STATION	ELEVATION IN FEET	PRECIPITATION SINCE JULY 1, 1932, 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)	SNOW ON GROUND INCHES: THIS DATE	SNOW ON GROUND INCHES: 3 MAXIMUM THIS DATE FOR PREVIOUS YEARS	SNOW ON GROUND INCHES: 3 MINIMUM THIS DATE AND YEAR
STANISLAUS RIVER								
LAKE ALPINE	7500	21.75				102		
STRAWBERRY LAKE	5620	17.70	17.73	100	37.83	74		
SPRING GAP	4875	19.69	22.15	89	43.84	72		
CALAVERAS BIG TREES	4700	21.22				76		
CONFIDENCE	4000	18.92				60		
SAND BAR	2700	15.53	21.11	74	41.93	42		
WALKER RIVER								
LUNDY LAKE	7760	5.53	7.97	69	15.27	48	58-1932 (9)	3-1928
SHIELDS RANCH	5300	5.59	6.48	86	12.28	12	14-1932(13)	0
TUOLUMNE RIVER								
STRAWBERRY LAKE	5620	17.70	17.73	100	37.83	74		
SPRING GAP	4875	19.69	22.15	89	43.84	72		
LAKE ELEANOR	4650	J 6.57	J 13.73	J 48	43.36	J 14	77-L932(18)	0
MATHER	4500	14.55				48		
CONFIDENCE	4000	18.92				60		
HETCH HETCHY	3530	12.33	17.93	69	35.97	35	23-1923(18)	0
GROVELAND	2828	12.17	20.43	59	38.21	22		
SONORA	1825	12.29	16.99	72	32.77	0		
MERCED RIVER								
FISH CAMP	5500	J 2.69	J 15.52	J 17	53.24	86		
YOSEMITE	3960	15.01	18.88	80	35.65	43	46-1916(19)	0
DUDLEYS	3000	15.92	20.87	76	40.70	30	21-1922(12)	0
MARIPOSA	1932	12.64	16.55	76	29.14			
MERCED FALLS	351	6.62	8.49	78	16.77			
MONO LAKE								
ELLERY LAKE	9600	11.63	21.96	53	42.93	81	86-1932 (9)	24-1926
GEM LAKE	9120	10.32	17.72	58	32.67	74	86-1932 (9)	24-1925
LUNDY LAKE	7760	5.53	7.97	69	15.27	48	58-1932 (9)	3-1928
LEEVINING HEADQUARTERS	7500	8.19				26		
UPPER SAN JOAQUIN RIVER								
HUNTINGTON LAKE	7000	13.68	15.51	88	30.27	80	102-1922(18)	0-1918
FISH CAMP	5500	J 2.69	J 15.52	J 17	53.24	86		
DINKEY MEADOW	5440	J 4.06	J 15.56	J 26	40.18		64-1932(12)	2-1924
BIG CREEK	4900	10.80	16.21	67	31.66	46	32-1916(18)	0
CRANE VALLEY	3500	17.75	21.19	84	40.06			
NORTH FORK	3000	14.19	14.68	97	32.91	7		
AUBERRY	2050	12.72	12.18	105	24.42	0		

1, 2, 3, J, SEE FOOTNOTES FIRST PAGE OF THIS TABLE.

TABLE II – PRECIPITATION DATA – CONTINUED

1 BASIN AND PRECIPITATION STATION	ELEVATION IN FEET	PRECIPITATION SINCE JULY 1, 1932 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)	SNOW ON GROUND INCHES: THIS DATE	SNOW ON GROUND INCHES: 3 MAXIMUM THIS DATE FOR PREVIOUS YEARS	SNOW ON GROUND INCHES: 3 MINIMUM THIS DATE AND YEAR
OWENS RIVER								
SOUTH LAKE	9620	9.07	10.65	85	19.48	44	58–1932 (9)	15–1929
LAKE SEBRINA	9100	8.03	10.69	75	19.01	38	48–1932 (9)	7–1928
BISHOP CREEK	8390	8.01	8.43	95	15.04	24	55–1916 (19)	0
BIRCH CREEK	8000	6.83	8.62	79	14.21	28		
INTAKE #2 BISHOP CREEK	8000	5.32	6.97	76	12.84	27		
CROOKED CREEK	6700	4.59	5.89	78	10.37			
BIG PINE POWER PLANT #3	5400	6.37						
L.A. AQUEDUCT AT INTAKE	3880	2.39	1.95	122	3.14			
INDEPENDENCE	3957	J 1.48	J 1.71	J 87	4.45			
COTTONWOOD GATES	3600	2.57	1.67	154	3.52			
KINGS RIVER								
GENERAL GRANT PARK	6660	22.61	17.58	129	41.51	109	119–1932 (8)	10–1928
CLIFF CAMP	6150	J 3.79	J 16.88	J 24	39.77		92–1932 (12)	11–1924
DINKEY MEADOW	5440	J 4.06	J 15.56	J 26	40.18		64–1932 (12)	2–1924
BALCH CAMP	1300	13.75	13.37	103	25.99			
PIEDRA	500	11.83	8.61	137	16.62			
KAWEAH RIVER								
GENERAL GRANT PARK	6660	22.61	17.58	129	41.51	109	119–1932 (8)	10–1928
GIANT FOREST	6360	23.82	22.01	108	41.99	106	106–1923 (12)	11–1924
THREE RIVERS	870	10.87	9.21	118	19.43			
KERN RIVER								
WINDY SPRINGS	6200	J 1.64						
SPRINGVILLE (NEAR)	4050	17.90	16.72	107	33.75	71	20–1922 (17)	0
HOT SPRINGS	3300	13.84	11.55	120	23.77	17	10–1922 (17)	0
GLENNVILLE	3300	12.44	9.81	127	20.37	24	7–1922 (16)	0
KERNVILLE	2600	7.48	5.38	139	9.81			
SANTA ANA RIVER								
TABLE MT. OBSERVATORY	7500	J 2.25				J 7		
BIG PINES COUNTY PARK	6850	J 3.32				J 12		
PRAIRIE FORK	5680	J 3.07				J 8		
SQUIRREL INN	5280	22.72	19.14	119	40.76	60	48–1922 (17)	0
SEVEN OAKS	5000	11.74	14.06	84	27.48	26	30–1922 (16)	0
CAMP BALDY	4300	J 3.55	J 10.81	J 33	31.02	J 0		
BEAUMONT (NEAR)	3045	13.78	10.70	128	22.27	0		
MILL CREEK NO. 2	2950	11.61	10.70	108	22.75	0		
SANTA ANA RIVER	2850	13.00	13.08	100	26.80	T		
BEAUMONT	2558	11.89	8.34	143	18.46	0		
LYTLE CREEK	2250	15.71	17.02	92	33.86	0		

1, 2, 3, J, SEE FOOTNOTES FIRST PAGE OF THIS TABLE.

TABLE II — PRECIPITATION DATA — CONTINUED

1 BASIN AND PRECIPITATION STATION	ELEVATION IN FEET	PRECIPITATION SINCE JULY 1, 1932 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)	SNOW ON GROUND INCHES: THIS DATE	SNOW ON GROUND INCHES: 3 MAXIMUM THIS DATE FOR PREVIOUS YEARS	SNOW ON GROUND INCHES: 3 MINIMUM THIS DATE AND YEAR
SAN GABRIEL RIVER								
TABLE MT. OBSERVATORY	7500	J 2.25				J 7		
BIG PINES COUNTY PARK	6850	J 3.32				J 12		
MT. WILSON	5850	21.94	15.19	144	31.14	60	34-1922(15)	0
PRAIRIE FORK	5680	J 3.07				J 8		
LITTLE CIENEGA	4650	J 3.02				J T		
OPIDS CAMP	4480	27.44	17.70	155	39.20	58		
CAMP BALDY	4300	J 3.55	J 10.81	J 33	31.02	J 0		
ALDER CREEK (LOOMIS RANCH)	3550	J 2.03	J 5.35	J 38	20.33			
SAWPIT CANYON	3500	J 3.08						
MT. LOWE OBSERVATORY	3420	13.49	14.31	94	30.33			
COLDBROOK CAMP	3300	J 2.38	J 7.36	J 32	28.98			
CLEAR CREEK	3300	J 2.53						
WOLFSKILL FALLS	2400	J 3.24						
SANTA ANITA FOREST STA.	2000	14.81	16.65	89	33.46			
BIG SANTA ANITA DAM	1250	J 2.40						
LOS ANGELES RIVER								
ALDER CREEK (LOOMIS RCH)	3550	J 2.03	J 5.35	J 38	20.33			
MT. LOWE OBSERVATORY	3420	13.49	14.31	94	30.33			
CLEAR CREEK	3300	J 2.53						
SWITZERS CAMP	3050	J 1.66						

1, 2, 3, J, SEE FOOTNOTES FIRST PAGE OF THIS TABLE.