

Lake Tahoe lies between the main range of the Sierra Nevada, to the west in California, and the Carson Range, to the east in Nevada. Of the 192 mi² of its surface area, 70 percent lies in California and 30 percent in Nevada. Of the 214 mi² of tributary area, 75 percent is in California and 25 percent is in Nevada.

Because of the great interest in Lake Tahoe and its environs for land development and regional planning, there is need for accurate information concerning the areas of the drainage basins that together constitute the hydrologic area of the lake. To meet this need, the basins have been measured on the topographic maps of the region. Table 1 presents a summary of these measurements and lists the component areas that contribute to the outflow of Lake Tahoe at the outlet dam.

Basins and subbasins listed in table 1 are outlined on figure 1, a map of the lake and its tributary area. The map shows the points used to delimit the basins that were measured and shows gaging stations in the area. The points are based on an arbitrary numbering system that runs clockwise around the lake, starting at the northeast end of the Lake Tahoe outlet dam. All basins of appreciable size were measured independently; the intervening areas were also measured. In addition, the areas above stream-gaging points and the areas of major tributaries in selected large basins were measured. Some of these areas differ slightly from the areas previously determined, but the figures shown in this report are considered the best available and should be used.

Because of their possible value in hydrologic studies, table 1 also shows for each basin measured the channel length, the elevation of the channel at two points (10 percent and 85 percent of the channel length from the mouth or other point of interest to the crest of the divide), and the maximum elevation within the basin in question. For sites where a Geological Survey gaging station has been operated, the station number is listed.

Figure 2 is an index to the Geological Survey quadrangle maps that portray the Tahoe basin. All the basin except the southeastmost part has been mapped on 7½-minute quadrangles. The map numbers shown in table 1 correspond to the quadrangle numbers of figure 2.

The gaging stations shown are continuous-record and partial-record streamflow-discharge and water-quality data are also available. Data have been collected for years and continue to be collected at many stations. At other stations the data have been obtained sporadically for specific studies. Other governmental and private agencies have also gathered data at or near these sites. Because of the difficulty of obtaining the availability of all the various data, it is not attempted here; however, it would be wise for planners and developers to ascertain what data are available at the time and place of interest.

In addition to sewage facilities, there are three known means of water export from the basin. Diversion from Echo Lake to the South Fork American River; diversion from Marysville Lake during dry years to Virginia City and Carson City; and diversion from the headwaters of Third Creek to Ophir Creek and thence to Washoe Valley. The total drainage area from which the three diversions can receive inflow is less than 10 mi². There is no known diversion of water into the Lake Tahoe basin from outside sources.

For the 75 years of record ending in September 1975, the average annual runoff from the lake and its basin, adjusted for net change in storage and for estimated diversions, was 7.0 in (158,000 acre-ft). The highest year's runoff was 28.5 in (667,000 acre-ft) in 1907 and the lowest was a net loss, because of low precipitation and high evaporation, of 7.2 in (154,000 acre-ft) in 1934. More than 80 percent of the runoff into Lake Tahoe is from basins in California.

SELECTED REFERENCES

Griffen, J. R., and Pavlek, B. R., 1970, The Lake Tahoe basin, California-Nevada, U.S. Geol. Survey Water-Supply Paper 1972, 56 p.
U.S. Geological Survey, 1976, Water resources data for California, water year 1975, Volume 3, Southern Central Valley basins and The Great Basin from Walker River to Truckee River, U.S. Geol. Survey Water-Data Report, CA-75-3, 397 p. (One in an annual series.)

TABLE 1.—Selected data from areas tributary to Lake Tahoe and Truckee River at the Lake Tahoe outlet dam

Sta. (fig. 1)	Basin name and reference point	Map No. (fig. 2)	Drainage area (mi ²)	Channel length (mi)	Channel elevation (ft) Lower ¹	Channel elevation (ft) Upper ¹	Maximum basin elevation (ft)	Gaging station
1	AREA BETWEEN TRUCKEE RIVER AND SITE 2	4	0.15					
2	LAKE TACHE TRIBUTARY AT MOUTH AT TACHE CITY	4	1.11	2.55	8360	7200	7572	
3	LAKE TACHE TRIBUTARY AT TACHE CITY	4	0.40	1.40	8340	7235	7572	10336680
4	INTERVENING AREA	4	0.40	5.27	8347	6750	7200	
5	NORTH CREEK AT MOUTH	5	0.05	0.05				
6	UNNAMED CREEK AT MOUTH NEAR LAKE FOREST	5	1.13	3.07	8280	7460	8410	
7	INTERVENING AREA	5	0.03					
8	UNNAMED CREEK AT MOUTH AT LAKE FOREST	5	0.60	2.60	8245	6745	7550	
9	INTERVENING AREA	5	0.76					
10	DOLLAR CREEK AT MOUTH	5	1.11	2.68	8340	7580	7925	
10A	DOLLAR CREEK NEAR TACHE CITY	5	1.57	2.48	8440	7600	7925	10336684
11	INTERVENING AREA	5	0.03					
12	UNNAMED CREEK AT MOUTH NEAR CEDAR FLAT	5	0.05	0.57	8260	6605	6680	
13	INTERVENING AREA	5	0.74					
14	WATSON CREEK AT MOUTH	5	2.42	3.32	8444	7640	8615	
15	INTERVENING AREA	5	0.10					
16	UNNAMED CREEK AT MOUTH NEAR CARMELIAN BAY	5	0.74	1.94	8320	7160	7640	
17	UNNAMED CREEK AT MOUTH NEAR CARMELIAN BAY	5	2.94	2.80	8255	7010	8050	
18	CARMELIAN CANYON CREEK AT MOUTH	5	0.03					
19	INTERVENING AREA	5	1.41					
20	IRON CREEK AT MOUTH	5	0.03	3.46	8235	6920	8440	
21	INTERVENING AREA	5	0.09					
22	GOFF CREEK AT MOUTH	5	0.40	4.03	8270	8100	9200	
23	INTERVENING AREA	5	0.03					
24	BALDY CREEK AT MOUTH	5	0.13	1.57	8250	6885	7350	
25	INTERVENING AREA	5	1.77					
26	UNNAMED CREEK AT MOUTH NEAR CRYSTAL BAY	5	0.03	1.88	8380	8540	9000	
27	FIRST CREEK AT MOUTH	5	1.06	2.34	8350	8480	9270	
27A	FIRST CREEK NEAR CRYSTAL BAY	5	1.06	2.34	8350	8480	9270	10336688
28	INTERVENING AREA	6	0.47					
29	SECOND CREEK AT MOUTH	6	1.23	3.24	8415	8840	9610	
29A	SECOND CREEK NEAR CRYSTAL BAY	6	1.23	3.24	8415	8840	9610	10336690
30	INTERVENING AREA	6	1.95	3.96	8385	8080	9610	
31	WOOD CREEK AT MOUTH NEAR CRYSTAL BAY	6	0.03	2.18	8490	8440	8925	
32	INTERVENING AREA	6	0.43					
33	THIRD CREEK AT MOUTH	6	0.05	7.05	8365	9170	10338	
33A	THIRD CREEK NEAR CRYSTAL BAY	6	0.05	6.92	8375	9175	10338	10336692
34	THIRD CREEK AT MOUTH	6	0.05	6.92	8375	9175	10338	
35	INTERVENING AREA	6	0.76	4.46	8285	8600	9225	
36	INCLINE CREEK NEAR CRYSTAL BAY	6	0.03					
37	INTERVENING AREA	6	0.18	2.63	8270	8080	8520	10336700
38	INCLINE CREEK NEAR CRYSTAL BAY	6	0.03					
39	INTERVENING AREA	6	0.18					
40	UNNAMED CREEK AT MOUTH NEAR SAND HARBOR	6	1.03	2.04	8430	7895	8705	
41	INTERVENING AREA	6	0.18					
42	UNNAMED CREEK AT MOUTH	6	0.03	1.48	8460	8040	8850	
43	INTERVENING AREA	6	0.03					
44	MARLETTE CREEK AT MOUTH	6	0.03	3.44	8365	8015	9010	
45	INTERVENING AREA	6	2.06	1.73	7830	8090	9010	10336715
46	MARLETTE CREEK NEAR CARSON CITY	6	0.03					
47	INTERVENING AREA	6	0.03					
48	SECRET HARBOR CREEK AT MOUTH	6	1.80	2.45	8440	8080	8730	10336710
49	INTERVENING AREA	6	0.03					
50	BLISS CREEK AT MOUTH	6	0.57	1.52	8360	7115	7810	
51	INTERVENING AREA	6	1.23					
52	UNNAMED CREEK AT MOUTH	6	0.03	7.00	8270	7715	8274	
53	UNNAMED CREEK AT MOUTH	6	0.03	3.42	8280	7710	8010	10336730
54	UNNAMED CREEK AT MOUTH	6	0.03					
55	UNNAMED CREEK AT MOUTH	6	0.03					
56	UNNAMED CREEK AT MOUTH NEAR LINCOLN PARK	6	0.58	1.32	8350	7580	7828	
57	INTERVENING AREA	6	0.03					
58	LINCOLN CREEK AT MOUTH	6	0.53	4.14	8360	8275	9150	
59	INTERVENING AREA	6	0.03					
60	UNNAMED CREEK AT MOUTH NEAR DISTRICT COURTHOUSE	6	0.03	3.75	8300	8010	8510	
61	INTERVENING AREA	6	0.21					
62	UNNAMED CREEK AT MOUTH NEAR DEPIH COVE	6	1.63	4.04	8280	8230	8863	
63	INTERVENING AREA	6	0.03					
64	MARLETTE CREEK AT MOUTH	12	0.32	5.05	8280	7680	8920	
65	INTERVENING AREA	12	0.03					
66	BURKE CREEK AT MOUTH	12	4.72	4.35	8240	7680	8450	
67	INTERVENING AREA	12	0.12					
68	EDGEMOOR CREEK AT MOUTH	12	6.59	5.13	8230	7830	9090	
69	EDGEMOOR CREEK AT MOUTH	12	4.97	4.97	8370	8740	9090	10336760
70	INTERVENING AREA	12	0.03					
71	TRIBUT CREEK AT MOUTH	12	1.67	3.33	8235	7640	8371	
72	INTERVENING AREA	12	0.97					
73	TRIBUT CREEK AT MOUTH	12	4.40	12.20	8225	7750	10881	
74	TRIBUT CREEK AT SOUTH LAKE TACHE	12	40.40	10.70	8245	7740	10881	10336790
75	HEAVENLY VALLEY CREEK AT MOUTH	12	3.10	4.90	8260	8580	10881	
76	TRIBUT CREEK NEAR TACHE VALLEY	12	36.70	9.45	8245	7650	10881	
77	TRIBUT CREEK AT MOUTH	12	12.20	7.90	8305	9100	10881	
78	TRIBUT CREEK AT MOUTH	12	8.21	8.54	8305	8580	9020	
79	UPPER TRUCKEE RIVER AT SOUTH LAKE TACHE	12	58.40	21.45	8225	7640	10881	
80	UPPER TRUCKEE RIVER AT SOUTH LAKE TACHE	14	54.80	19.68	8240	8260	10600	10336810
81	INTERVENING AREA	14	32.10	11.35	8370	8120	10600	
82	TRIBUT CREEK AT MOUTH	14	5.49	4.45	8270	7280	8495	
83	TRIBUT CREEK AT MOUTH	14	5.49	4.45	8270	7280	8495	
84	TRIBUT CREEK AT MOUTH	14	5.49	4.45	8270	7280	8495	
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156	TRIBUT CREEK AT MOUTH	14	5.49	4.45				