11480400 RUTH RESERVOIR NEAR FOREST GLEN, CA

Mad River Basin

LOCATION.--Lat 40°22′08″, long 123°25′56″ referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.19, T.1 S., R.7 E., Trinity County, Hydrologic Unit 18010102, in Six Rivers National Forest, near center of Robert W. Matthews Dam on Mad River, and 5.6 mi west of Forest Glen.

DRAINAGE AREA.--121 mi^2.

WATER-STAGE RECORDS

PERIOD OF RECORD.--October 1966 to current year. Records prior to October 1966 in files of Humboldt Bay Municipal Water District.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Humboldt Bay Municipal Water District).

REMARKS.--Reservoir is formed by earthfill dam; storage began July 1961. Total capacity, 48,000 acre-ft, elevation, 2,654.0 ft, crest of spillway. Minimum pool capacity, 7,810 acre-ft, elevation, 2,600 ft. Water is released down Mad River for municipal use. Records given represent total contents at 2400 hours.

COOPERATION.--Since Apr. 1, 2004, records provided by Humboldt Bay Municipal Water District, under general supervision of the U.S. Geological Survey. Contents not rounded to U.S. Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 68,000 acre-ft, Feb. 17, 1986, elevation, 2,667.06 ft; minimum, 11,700 acre-ft, Oct. 24-28, 1977; minimum elevation, 2,607.13 ft, Oct. 28, 1977.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table provided by Humboldt Bay Municipal Water District dated 1977)

Elevation	Contents	Elevation	Contents	Elevation	Contents	Elevation	Contents
2,600	7,807	2,620	18,403	2,640	33,988	2,655	49,162
2,605	10,205	2,625	21,505	2,645	38,557	2,660	55,304
2,610	12,603	2,630	25,471	2,650	43,855	2,664	60,217
2,615	15,323	2,635	29,435				

11480400 RUTH RESERVOIR NEAR FOREST GLEN, CA—Continued

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	32,548	29,552	27,318	34,297	49,333	48,951	49,849	48,443	48,210	47,055	45,953	42,530
2	32,466	29,516	27,246	34,606	49,015	49,068	49,542	48,549	48,051	47,076	45,878	42,435
3	32,348	29,404	27,191	34,624	48,909	49,057	49,542	48,750	47,817	47,108	45,794	42,286
4	32,193	29,285	27,080	34,633	48,782	48,962	49,493	48,888	47,637	47,182	45,741	42,138
5	32,056	29,245	27,016	34,570	48,580	48,813	49,431	49,333	47,394	47,192	45,656	42,032
6	31,965	29,174	27,500	34,488	48,475	48,729	49,247	49,407	47,203	47,203	45,603	41,905
7	31,838	29,047	28,817	34,588	48,347	48,570	49,530	49,198	46,959	47,235	45,550	41,799
8	31,720	28,967	34,852	34,898	48,262	48,453	50,144	50,058	46,896	47,256	45,380	41,651
9	31,583	28,928	36,136	35,216	48,157	48,390	49,210	51,544	46,906	47,245	45,264	41,502
10	31,474	28,896	36,491	35,389	47,987	48,241	50,316	51,286	46,768	47,224	45,158	41,417
11	31,328	28,793	36,546	35,544	47,796	48,093	50,033	50,598	46,546	47,224	45,094	41,248
12	31,246	28,722	36,455	35,663	47,595	47,976	49,751	50,058	46,324	47,224	44,957	41,184
13	31,100	28,650	36,309	35,708	47,924	47,764	49,505	49,640	46,133	47,203	44,861	41,068
14	30,973	28,563	36,109	35,717	48,517	47,574	49,309	49,382	45,931	47,203	44,755	40,888
15	30,855	28,515	35,799	35,699	48,739	47,362	49,131	49,068	46,111	47,129	44,628	40,676
16	30,736	28,444	35,553	36,081	48,729	47,129	48,919	48,962	46,239	47,108	44,522	40,538
17	30,636	28,349	35,189	36,965	48,665	46,853	48,792	49,004	46,790	47,118	44,406	40,326
18	30,554	28,262	34,898	37,939	48,591	46,599	48,697	52,232	48,019	47,044	44,215	40,220
19	30,672	28,143	34,588	39,108	48,527	47,161	48,602	51,839	48,792	47,065	44,162	39,955
20	30,536	28,079	34,215	40,358	48,824	49,567	48,527	50,991	48,919	47,065	43,982	39,807
21	30,427	27,976	33,850	41,343	48,941	51,041	48,358	50,390	48,782	46,790	43,950	39,606
22	30,345	27,881	33,459	42,096	48,888	51,458	48,305	49,935	48,580	46,726	43,791	39,415
23	30,299	27,801	27,722	42,795	48,803	50,881	48,262	49,616	48,453	46,694	43,685	39,171
24	30,144	27,722	32,667	43,410	48,665	50,303	48,199	49,370	48,273	46,599	43,505	39,023
25	30,144	27,659	32,220	44,109	48,538	49,775	48,231	49,100	48,104	46,525	43,441	38,832
26	29,935	27,611	32,020	46,610	48,421	49,444	48,146	48,962	47,892	46,504	43,293	38,663
27	29,926	27,532	32,111	48,262	48,485	50,230	48,199	48,835	47,637	46,419	43,177	38,449
28	29,889	27,476	32,412	50,402	48,739	50,881	48,294	48,676	47,415	46,292	43,070	38,276
29	29,871	27,468	32,849	50,488	---	51,065	48,363	48,580	47,150	46,207	42,912	38,130
30	29,725	27,349	33,477	50,095	---	50,709	48,411	48,421	47,023	46,154	42,795	37,975
31	29,625	---	33,987	49,652	---	50,193	---	48,368	---	46,101	42,668	---
Max	32,548	29,552	36,546	50,488	49,333	51,458	50,316	52,232	48,919	47,256	45,953	42,530
Min	29,625	27,349	27,016	34,297	47,595	46,599	48,146	48,368	45,931	46,101	42,668	37,975
Elevation, in feet, at end of month												
	2,635.21	2,632.37	2,640.00	2,655.40	2,654.61	2,655.84	2,654.30	2,654.26	2,652.99	2,652.12	2,648.88	2,644.38
Change in contents, in acre-feet												
	-2,896	-2,276	+6,638	+15,665	-913	+1,454	-1,782	-43	-1,345	-922	-3,433	-4,693