Water-Data Report 2007

11462000 East Fork Russian River near Ukiah, CA

Russian River Basin

LOCATION.--Lat 39°11′51″, long 123°11′11″ referenced to North American Datum of 1927, Mendocino County, CA, Hydrologic Unit 18010110, in Yokaya Grant, on right bank of outlet channel, 500 ft downstream from Coyote Dam, 1,300 ft upstream from Russian River, and 3.2 mi northeast of Ukiah.

DRAINAGE AREA.--105 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1911 to September 1913, October 1951 to June 1956, October 1957 to current year.
CHEMICAL DATA: Water years 1953-55, 1973-82.
BIOLOGICAL DATA: Water years 1977-78.
WATER TEMPERATURE: Water years 1953-55, 1965-68, 1973-1994.
SEDIMENT DATA: Water years 1953-55, 1964-68.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 614.41 ft above NGVD of 1929. Prior to October 1951, nonrecording gage at site 0.5 mi upstream at different datum. October 1951 to June 1956, water-stage recorder at site 1.0 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow affected by diversion from Eel River through Potter Valley Powerplant Intake (station 11471000) and since November 1958 by storage in Lake Mendocino, capacity, 122,400 acre-ft, 500 ft upstream. Diversions upstream from station for irrigation of about 8,000 acres and about 10 ft^3/s at times, through a fish taking station which bypasses the gage. See schematic diagram of Russian River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Prior to regulation by Lake Mendocino, maximum discharge, 13,300 ft^3/s, Dec. 21, 1955, gage height, 16.86 ft, site and datum then in use, from rating curve extended above 6,300 ft^3/s, on basis of maximum flow at station upstream which was defined to 8,600 ft^3/s; no flow Aug. 13-15, 1913.

Maximum discharge since regulation (1959), 7,350 ft^3/s, Jan. 24, 1970, gage height, 10.84 ft; minimum daily, 0.02 ft^3/s, Apr. 17, 1973.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	223	224	189	152	166	1,030	135	152	84	192	177	221
2	223	223	185	149	163	652	159	152	79	208	176	223
3	223	222	187	149	162	312	169	147	e80	229	178	222
4	223	223	190	147	161	312	168	148	72	228	175	223
5	223	225	192	150	165	273	170	148	69	224	176	222
6	220	222	193	158	166	195	170	153	68	244	174	222
7	220	223	190	160	169	195	167	168	69	267	177	222
8	221	222	190	159	169	196	e168	172	78	268	171	224
9	222	224	191	158	167	196	e170	167	93	265	168	225
10	206	228	197	251	e166	197	162	122	96	265	168	226
11	192	231	187	155	e167	198	155	86	99	268	168	216
12	192	231	155	158	171	200	153	82	106	267	168	201
13	192	230	128	155	170	200	153	83	103	254	166	202
14	192	203	129	166	170	163	156	83	109	249	164	202
15	191	180	132	163	169	131	156	87	124	244	164	201
16	187	179	130	168	168	132	157	86	132	236	161	202
17	177	180	129	e137	167	130	158	86	132	238	171	210
18	166	184	129	e143	168	130	159	86	133	219	181	223
19	168	185	138	165	174	130	158	86	132	208	184	143
20	169	185	152	166	171	135	159	86	132	206	195	219
21	176	188	151	164	169	136	158	86	132	205	195	224
22	183	191	150	165	367	133	158	85	132	205	201	223
23	183	191	152	162	e604	136	159	85	137	e235	211	223
24	182	190	152	161	607	137	159	89	142	e268	213	223
25	182	186	153	162	598	136	159	90	143	216	214	222
26	193	190	153	162	890	135	161	89	144	216	213	222
27	218	190	152	162	1,040	134	162	89	161	207	218	221
28	224	193	151	166	1,030	135	162	89	187	200	222	222
29	225	194	150	168	---	135	159	88	192	199	222	222
30	224	196	150	165	---	134	152	89	192	201	221	225
31	224	---	149	166	---	135	---	90	---	186	221	---
Total	6,244	6,133	4,976	5,012	8,654	6,593	4,791	3,349	3,552	7,117	5,813	6,476
Mean	201	204	161	162	309	213	160	108	118	230	188	216
Max	225	231	197	251	1,040	1,030	170	172	192	268	222	226
Min	166	179	128	137	161	130	135	82	68	186	161	143
Ac-ft	12,380	12,160	9,870	9,940	17,170	13,080	9,500	6,640	7,050	14,120	11,530	12,850

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1958, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	200	271	576	871	649	461	399	309	213	162	166	161
Max	316	437	1,138	1,289	1,784	709	775	367	307	260	272	266
(WY)	(1958)	(1913)	(1956)	(1956)	(1958)	(1958)	(1958)	(1912)	(1953)	(1953)	(1953)	(1954)
Min	20.0	21.0	40.0	258	105	182	214	226	102	65.0	23.8	2.03
(WY)	(1912)	(1912)	(1912)	(1912)	(1913)	(1913)	(1955)	(1913)	(1913)	(1912)	(1913)	(1913)

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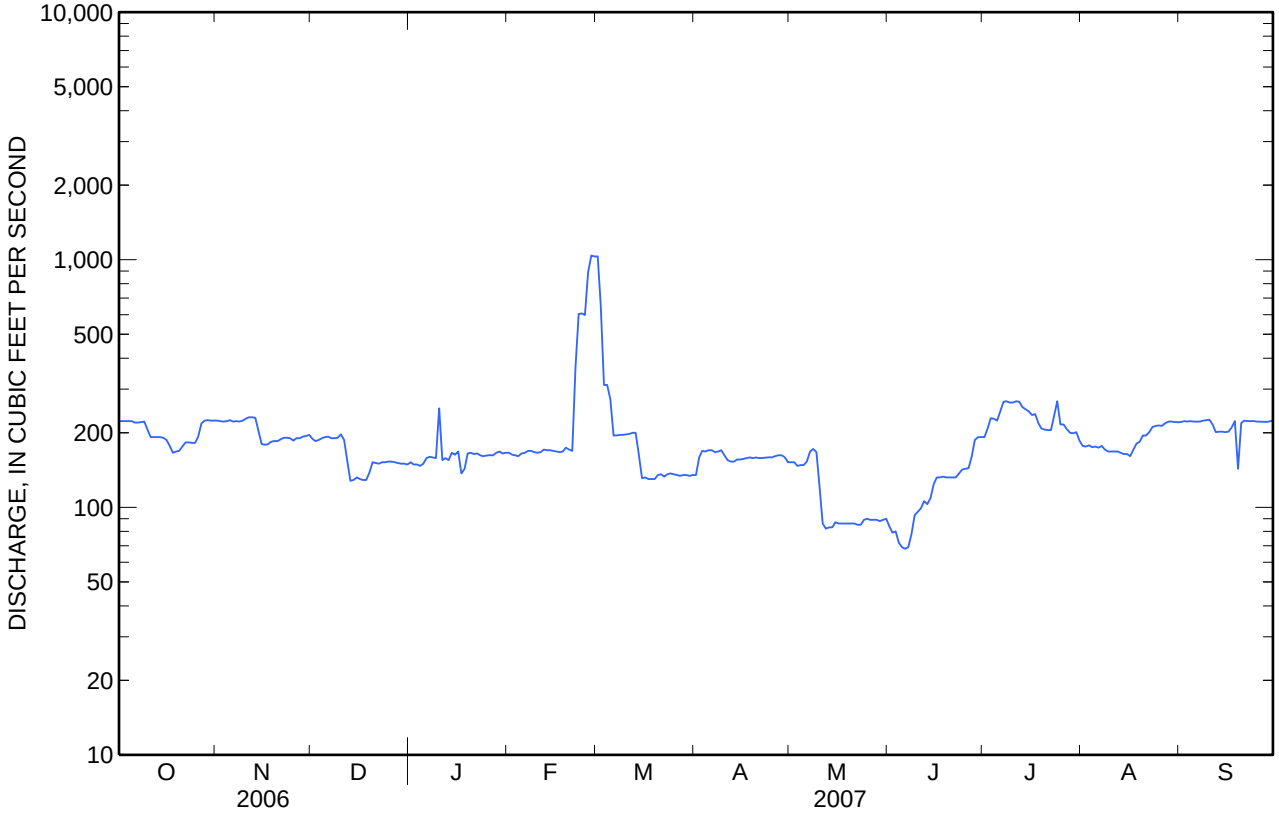
SUMMARY STATISTICS

	Water Years 1911 - 1958	
Annual mean	356	
Highest annual mean	526	1958
Lowest annual mean	183	1912
Highest daily mean	7,300	Dec 22, 1955
Lowest daily mean	.00	Aug 13, 1913
Annual seven-day minimum	1.4	Aug 13, 1913
Maximum peak flow	13,300	Dec 21, 1955
Maximum peak stage	16.86	Dec 21, 1955
Annual runoff (ac-ft)	257,700	
10 percent exceeds	647	
50 percent exceeds	286	
90 percent exceeds	63	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	225	232	346	616	600	417	320	231	217	248	256	242
Max	419	635	1,175	1,905	1,934	1,780	1,026	577	361	336	388	416
(WY)	(1994)	(1984)	(1965)	(1970)	(1986)	(1983)	(1982)	(2003)	(1998)	(1961)	(1961)	(1974)
Min	42.3	13.4	6.97	20.7	17.9	13.3	52.6	76.3	104	179	163	92.7
(WY)	(1978)	(1978)	(1978)	(1977)	(1977)	(1977)	(1977)	(1968)	(1988)	(1988)	(1988)	(1977)

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1960 - 2007	
Annual total	160,350		68,710			
Annual mean	439		188		328	
Highest annual mean					598	1983
Lowest annual mean					103	1977
Highest daily mean	4,720	Jan 4	1,040	Feb 27	6,620	Jan 25, 1970
Lowest daily mean	28	Jan 12	68	Jun 6	0.02	Apr 17, 1973
Annual seven-day minimum	131	Dec 13	74	Jun 2	0.14	Jan 2, 1971
Maximum peak flow			1,180	Feb 26	7,350	Jan 24, 1970
Maximum peak stage			3.50	Feb 26	10.84	Jan 24, 1970
Annual runoff (ac-ft)	318,100		136,300		237,600	
10 percent exceeds	961		225		516	
50 percent exceeds	225		170		226	
90 percent exceeds	153		123		70	

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