12304500 YAAK RIVER NEAR TROY, MT

Kootenai Basin
Yaak Subbasin

LOCATION.--Lat 48°33′43″, long 115°58′09″ referenced to North American Datum of 1927, in NE ¼ SE ¼ SE ¼ sec.5, T.32 N., R.34 W., Lincoln County, MT, Hydrologic Unit 17010103, Kootenai National Forest, on right bank 500 ft. upstream from bridge on U.S. Highway 2, 0.3 mi. upstream from mouth and 7.7 mi. northwest of Troy.

DRAINAGE AREA.--766 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1910 to September 1916 (fragmentary record), March 1956 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,839.2 ft, referenced to the National Geodetic Vertical Datum of 1929. Oct. 15, 1910, to Sept. 30, 1916, nonrecording gage at several sites within 11 mi of present site at various elevations.

REMARKS.--Records are good except those for estimated discharges, which are poor. Minor diversions for irrigation occur upstream from station. U.S. Army Corps of Engineers satellite telemeter is located at the station. Several unpublished observations of water temperature and specific conductance were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May to June 1948 reached a stage of 11.0 ft, from floodmarks; discharge, 12,500 ft^3/s. Flood in May 1954 reached a stage of 11.4 ft, from floodmarks; discharge, 13,400 ft^3/s.

12304500 YAAK RIVER NEAR TROY, MT—Continued

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

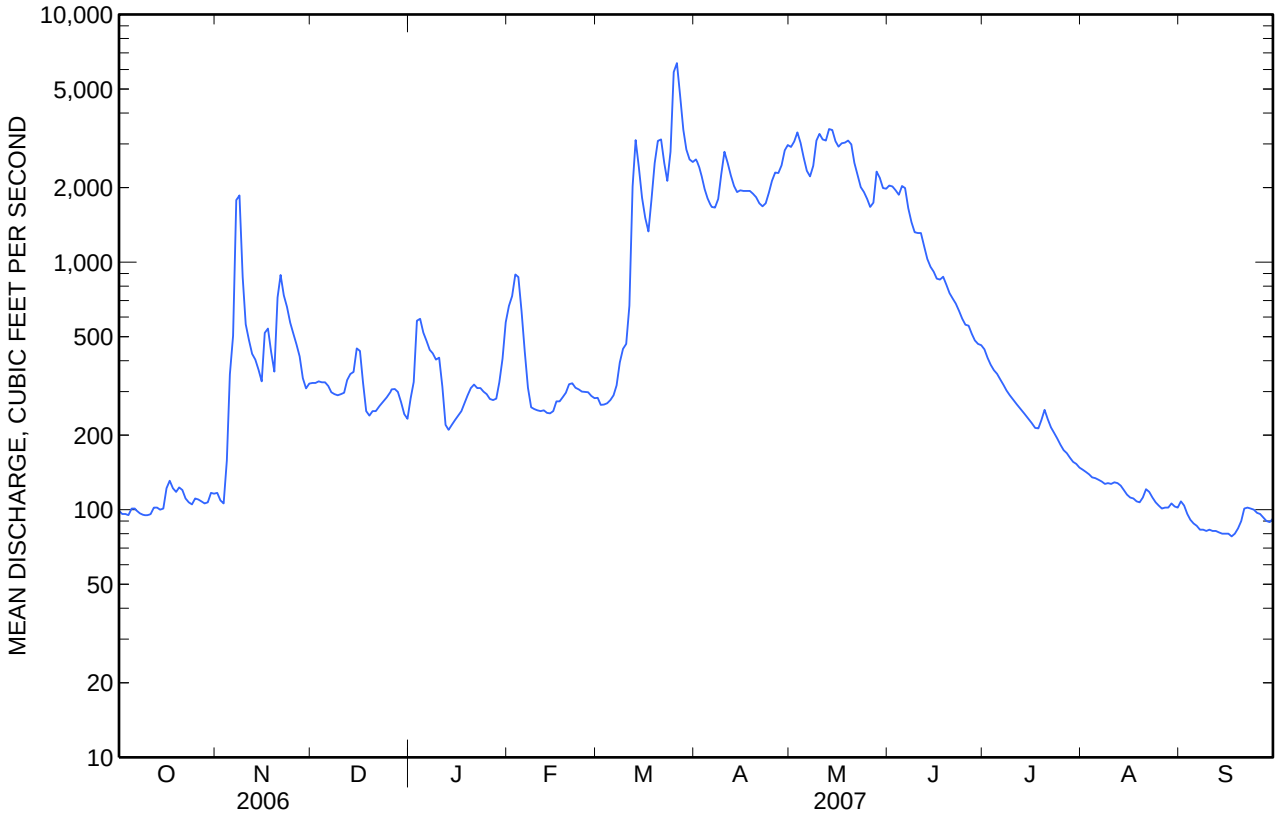
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	99	117	325	282	665	283	2,600	2,920	2,040	444	145	108
2	96	109	325	328	729	265	2,430	3,070	2,020	410	142	104
3	96	106	330	580	891	266	2,160	3,340	1,950	385	139	96
4	95	158	327	590	870	269	1,930	3,030	1,870	366	135	91
5	101	352	327	519	633	277	1,770	2,650	2,030	354	134	88
6	101	504	316	481	435	290	1,670	2,340	1,990	336	132	86
7	98	1,780	298	442	311	318	1,660	2,220	1,650	319	130	83
8	96	1,860	293	428	259	393	1,800	2,450	1,450	303	127	83
9	95	870	290	404	255	446	2,260	3,100	1,320	290	128	82
10	95	561	293	411	252	467	2,790	3,300	1,310	279	127	83
11	96	485	297	314	250	667	2,520	3,130	1,310	268	129	82
12	102	426	334	e220	252	2,020	2,240	3,100	1,160	259	128	82
13	102	404	353	e210	246	3,110	2,030	3,450	1,030	251	125	81
14	100	368	360	e220	245	2,420	1,920	3,420	957	241	120	80
15	101	330	448	e230	250	1,820	1,950	3,080	915	231	115	80
16	122	518	438	e240	274	1,510	1,940	2,930	858	223	112	80
17	131	539	327	e250	274	1,330	1,940	3,020	850	214	111	78
18	122	433	e250	e270	285	1,790	1,940	3,040	873	213	108	80
19	118	361	e240	e290	297	2,510	1,890	3,100	810	230	107	84
20	123	720	e250	e310	321	3,090	1,830	2,990	749	253	112	90
21	120	887	e250	e320	324	3,130	1,730	2,520	712	232	121	101
22	111	735	e260	e310	311	2,510	1,680	2,250	680	215	118	102
23	107	659	e270	e310	306	2,130	1,730	2,010	636	204	112	101
24	105	570	e280	e300	300	2,790	1,910	1,920	591	194	107	100
25	111	513	e290	293	299	5,860	2,130	1,800	559	183	104	97
26	110	466	306	280	298	6,370	2,300	1,670	554	174	101	96
27	108	416	307	277	288	4,710	2,290	1,740	513	169	102	93
28	106	340	299	281	282	3,430	2,460	2,320	483	162	102	90
29	107	309	272	327	---	2,850	2,830	2,190	467	156	106	89
30	117	323	243	407	---	2,600	2,970	1,990	462	153	103	92
31	116	---	233	571	---	2,540	---	1,980	---	148	102	---
Total	3,307	16,219	9,431	10,695	10,402	62,461	63,300	82,070	32,799	7,859	3,684	2,682
Mean	107	541	304	345	372	2,015	2,110	2,647	1,093	254	119	89.4
Max	131	1,860	448	590	891	6,370	2,970	3,450	2,040	444	145	108
Min	95	106	233	210	245	265	1,660	1,670	462	148	101	78
Med	105	449	298	310	298	2,020	1,950	2,920	894	232	118	89
Ac-ft	6,560	32,170	18,710	21,210	20,630	123,900	125,600	162,800	65,060	15,590	7,310	5,320
Cfsm	0.14	0.71	0.40	0.45	0.48	2.63	2.75	3.46	1.43	0.33	0.16	0.12
In.	0.16	0.79	0.46	0.52	0.51	3.03	3.07	3.99	1.59	0.38	0.18	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	194	318	319	298	352	618	1,914	3,402	1,874	484	192	160
Max	833	1,192	1,630	1,552	1,626	2,015	3,754	6,463	4,992	970	373	506
(WY)	(1960)	(1996)	(1996)	(1974)	(1996)	(2007)	(1969)	(1997)	(1974)	(1969)	(1993)	(1959)
Min	84.0	93.2	94.0	94.6	83.0	134	421	1,026	377	151	80.9	53.2
(WY)	(1988)	(1980)	(2003)	(1988)	(2001)	(2001)	(2001)	(1977)	(1992)	(1977)	(2001)	(2001)

12304500 YAAK RIVER NEAR TROY, MT—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1957 - 2007	
Annual total	321,430		304,909			
Annual mean	881		835		845	
Highest annual mean					1,562	1974
Lowest annual mean					278	1977
Highest daily mean	5,990	May 20	6,370	Mar 26	11,600	May 16, 1997
Lowest daily mean	95	Oct 4	78	Sep 17	49	Sep 19, 2001
Annual seven-day minimum	97	Oct 4	80	Sep 12	49	Sep 19, 2001
Maximum peak flow			6,660	Mar 25	[b]12,600	May 17, 1997
Maximum peak stage			7.92	Mar 25	[c]9.70	May 21, 1956
Instantaneous low flow			[a]78	Sep 17	47	Sep 22, 2001
Annual runoff (ac-ft)	637,600		604,800		612,200	
Annual runoff (cfsm)	1.15		1.09		1.10	
Annual runoff (inches)	15.61		14.81		14.99	
10 percent exceeds	2,510		2,480		2,500	
50 percent exceeds	376		311		288	
90 percent exceeds	111		101		119	

[a] Gage height, 2.79 ft.
[b] Gage height, 9.58 ft.
[c] Gage height in well, from outside gage.