Water-Data Report 2012

12304500 YAAK RIVER NEAR TROY, MT

Kootenai Basin
Yaak Subbasin

LOCATION.--Lat 48°33'42", long 115°58'13" referenced to North American Datum of 1983, 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 for estimated discharges, which are poor. Minor diversions for irrigation occur upstream from station. USGS 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 Several unpublished observations of water temperature and specific conductance were made during the year.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.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 12304500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/12304500.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	132	190	e200	264	e240	170	2,590	4,910	2,990	2,570	434	179
2	132	174	e180	251	e240	155	2,160	4,560	3,740	2,570	410	174
3	130	153	e140	249	e230	156	1,730	3,760	4,390	2,470	399	171
4	131	150	e150	229	e220	163	1,510	3,430	3,870	2,360	383	168
5	135	159	e150	224	e220	193	1,340	3,400	4,690	2,070	362	166
6	163	150	e170	225	e210	286	1,190	3,110	5,370	1,880	347	196
7	176	138	e160	225	e200	272	1,080	2,840	4,980	1,750	334	215
8	184	138	e150	213	e180	251	1,010	2,840	4,940	1,660	322	205
9	167	140	e140	202	e190	241	1,010	3,330	4,960	1,550	308	185
10	156	143	e150	e200	e190	250	1,130	3,850	4,550	1,430	297	175
11	222	140	e150	e180	e180	e250	1,510	3,470	4,070	1,310	286	173
12	262	145	e160	e200	e180	e310	2,370	3,060	3,860	1,190	276	171
13	229	144	e160	e190	176	397	2,740	2,970	4,170	1,090	266	168
14	196	143	e180	e210	168	437	2,550	3,360	4,090	1,300	258	162
15	173	126	e190	e200	161	444	2,310	4,370	3,580	1,510	249	157
16	161	e90	e200	e190	168	1,220	2,120	5,600	3,250	1,230	242	154
17	152	e110	e200	e200	159	1,250	2,070	6,030	3,770	1,060	238	150
18	148	e130	e200	e190	152	951	2,080	5,300	4,610	983	232	148
19	146	e140	e190	e180	150	760	2,020	4,300	4,380	907	227	144
20	144	e150	e180	e180	148	662	2,150	3,500	3,620	829	224	142
21	144	e170	e180	e190	147	e580	2,870	3,380	3,250	847	220	140
22	154	e200	e170	e180	e130	e540	3,080	4,720	3,150	768	227	137
23	213	e230	e160	e180	e140	e470	4,090	4,790	3,150	704	224	137
24	211	e250	e190	e170	156	457	6,200	4,190	3,090	662	216	136
25	199	e250	e230	e210	156	440	7,770	3,570	2,840	621	208	136
26	175	e230	e220	e200	162	461	8,220	3,060	3,050	584	205	135
27	161	e210	e210	e200	136	514	8,050	2,770	3,990	552	201	133
28	154	e220	e210	e200	e120	592	6,360	2,610	3,090	522	195	132
29	155	e220	e260	e190	e120	762	4,660	2,710	2,760	490	190	130
30	158	e210	e280	e200	---	2,000	4,210	2,760	2,590	467	188	128
31	184	---	e270	e260	---	2,780	---	2,790	---	454	184	---
Total	5,247	5,043	5,780	6,382	5,029	18,414	92,180	115,340	114,840	38,390	8,352	4,747
Mean	169	168	186	206	173	594	3,073	3,721	3,828	1,238	269	158
Max	262	250	280	264	240	2,780	8,220	6,030	5,370	2,570	434	215
Min	130	90	140	170	120	155	1,010	2,610	2,590	454	184	128
Med	161	150	180	200	168	444	2,230	3,430	3,820	1,090	242	156
Ac-ft	10,410	10,000	11,460	12,660	9,980	36,520	182,800	228,800	227,800	76,150	16,570	9,420
Cfsm	0.22	0.22	0.24	0.27	0.23	0.78	4.01	4.86	5.00	1.62	0.35	0.21
In.	0.25	0.24	0.28	0.31	0.24	0.89	4.48	5.60	5.58	1.86	0.41	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	190	307	306	293	338	595	1,870	3,397	1,951	505	192	158
Max	833	1,192	1,630	1,552	1,626	2,015	3,754	6,463	4,992	1,238	373	506
(WY)	(1960)	(1996)	(1996)	(1974)	(1996)	(2007)	(1969)	(1997)	(1974)	(2012)	(1993)	(1959)
Min	84.0	93.2	91.5	87.1	83.0	134	421	1,026	377	151	80.9	53.2
(WY)	(1988)	(1980)	(2009)	(2009)	(2001)	(2001)	(2001)	(1977)	(1992)	(1977)	(2001)	(2001)

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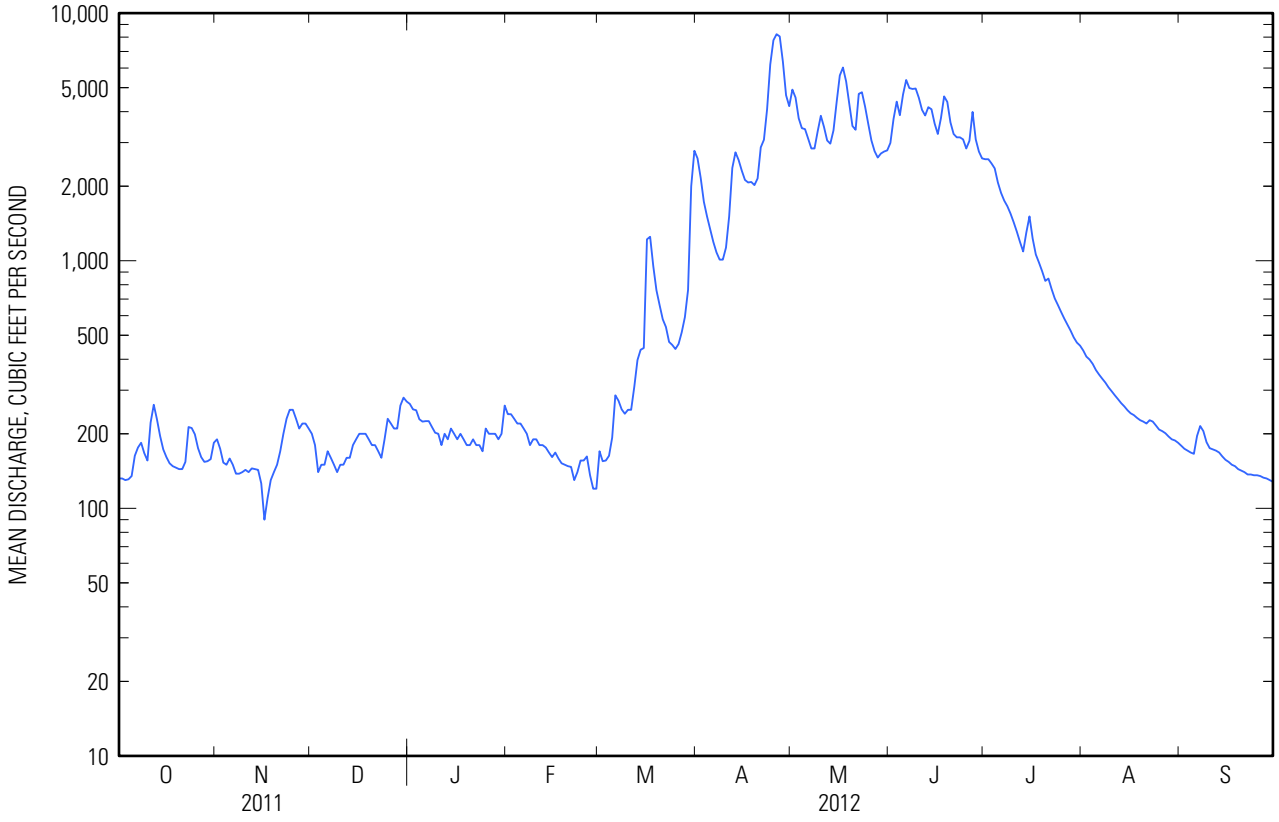
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1957 - 2012	
Annual total	431,992		419,744			
Annual mean	1,184		1,147		843	
Highest annual mean					1,562	1974
Lowest annual mean					278	1977
Highest daily mean	7,440	May 16	8,220	Apr 26	11,600	May 16, 1997
Lowest daily mean	90	Nov 16	90	Nov 16	49	Sep 19, 2001
Annual seven-day minimum	126	Nov 13	126	Nov 13	49	Sep 19, 2001
Maximum peak flow			8,670	Apr 27	[a]12,600	May 17, 1997
Maximum peak stage			8.52	Apr 27	[b]9.70	May 21, 1956
Instantaneous low flow					47	Sep 22, 2001
Annual runoff (ac-ft)	856,900		832,600		610,800	
Annual runoff (cfsm)	1.55		1.50		1.10	
Annual runoff (inches)	20.98		20.38		14.95	
10 percent exceeds	4,030		3,750		2,500	
50 percent exceeds	370		229		280	
90 percent exceeds	144		144		119	

[a]Gage height, 9.58 ft.
[b]Gage height in well; 10.8 ft, from outside gage.