Water-Data Report 2012

12331800 CLARK FORK NEAR DRUMMOND, MT

Pend Oreille Basin
Upper Clark Fork Subbasin

LOCATION.--Lat 46°42'43", long 113°19'51" referenced to North American Datum of 1983, in NE ¼ SW ¼ NW ¼ sec.14, T.11 N., R.14 W., Granite County, MT, Hydrologic Unit 17010201, on right bank 50 ft upstream from country road bridge, 0.3 mi north of Bearmouth, 4.5 mi east of Bearmouth Chalet, 9.0 mi northwest of Drummond, and at river mile 403.9.

DRAINAGE AREA.--2,501 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1993 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,790 ft, referenced to the National Geodetic Vertical Datum of 1929.

REMARKS.--Records are good. Some regulation occurs by settling ponds on Silver Bow Creek near Anaconda and Georgetown Lake (station number 12325000) on Flint Creek. Diversions for irrigation include about 88,000 acres upstream from station. U.S. Geological Survey satellite telemeter is located at the station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 23, 1981 recorded a discharge of about 16,000 ft^3/s, from measurements made upstream at Clark Fork at Drummond (12331600) and at downstream site, Clark Fork at Clinton (12331900).

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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	559	790	718	660	641	604	1,190	1,700	1,090	e552	333	266
2	577	777	689	645	623	621	1,210	1,540	1,180	e549	325	263
3	592	765	684	682	616	630	1,100	1,420	1,440	e546	310	260
4	626	782	703	655	581	757	1,060	1,350	1,640	523	304	257
5	673	790	607	648	552	1,220	1,040	1,350	1,710	509	294	263
6	687	785	600	640	580	1,320	1,020	1,300	1,990	505	299	267
7	690	744	653	616	601	809	1,020	1,180	2,050	496	301	269
8	707	756	647	602	559	708	1,000	1,090	1,790	499	306	273
9	702	768	652	626	589	680	995	1,010	1,650	494	292	276
10	707	757	623	632	611	876	983	963	1,610	492	285	278
11	746	758	614	595	590	1,020	989	982	1,570	472	288	275
12	762	775	627	532	586	1,030	1,100	956	1,420	469	286	277
13	749	782	604	538	583	894	1,310	884	1,430	455	283	281
14	763	780	633	574	582	877	1,290	840	1,600	456	282	287
15	793	771	658	608	573	818	1,250	796	1,440	471	279	294
16	825	712	663	568	554	964	1,230	828	1,290	523	279	285
17	849	727	670	512	576	1,040	1,190	936	1,230	523	278	283
18	843	774	663	499	574	1,020	1,170	1,050	1,210	541	279	280
19	827	702	680	572	566	916	1,160	1,040	1,200	507	277	285
20	813	657	658	637	558	810	1,140	926	1,110	490	275	291
21	820	718	671	648	566	787	1,130	854	991	475	274	292
22	807	774	618	638	977	846	1,220	937	893	447	282	296
23	805	784	557	613	1,420	1,050	1,290	1,150	807	431	284	299
24	817	787	562	551	824	1,030	1,440	1,070	762	407	285	304
25	832	783	656	602	718	971	1,670	970	750	394	277	312
26	820	743	665	630	664	983	1,850	950	704	387	279	310
27	827	740	640	592	648	1,020	2,140	1,020	669	381	284	313
28	816	763	682	559	625	1,010	2,180	1,220	639	386	284	318
29	811	757	722	666	614	994	1,960	1,250	e597	382	275	332
30	808	750	746	e930	---	975	1,800	1,160	e575	356	267	336
31	798	---	762	e700	---	1,060	---	1,090	---	346	266	---
Total	23,451	22,751	20,327	19,170	18,751	28,340	39,127	33,812	37,037	14,464	8,912	8,622
Mean	756	758	656	618	647	914	1,304	1,091	1,235	467	287	287
Max	849	790	762	930	1,420	1,320	2,180	1,700	2,050	552	333	336
Min	559	657	557	499	552	604	983	796	575	346	266	257
Ac-ft	46,520	45,130	40,320	38,020	37,190	56,210	77,610	67,070	73,460	28,690	17,680	17,100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	604	604	510	515	578	688	839	1,223	1,725	754	376	436
Max	859	810	656	754	1,377	1,048	1,364	2,557	4,473	2,144	895	1,007
(WY)	(1998)	(1998)	(2012)	(1997)	(1996)	(1997)	(2009)	(1997)	(2011)	(2011)	(1993)	(1993)
Min	411	448	366	376	375	415	464	298	297	160	112	201
(WY)	(2003)	(2001)	(2001)	(2007)	(2001)	(2005)	(2005)	(2000)	(2000)	(2000)	(2000)	(1994)

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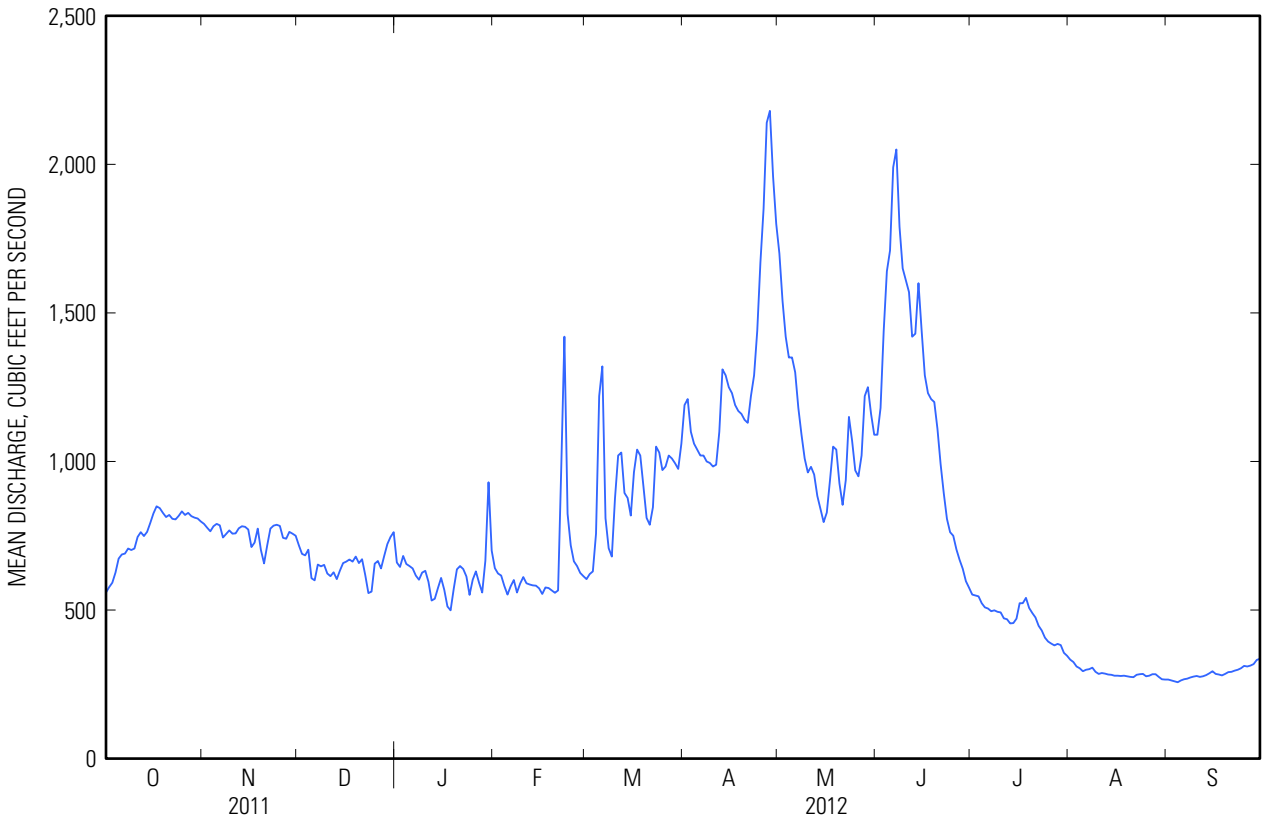
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1993 - 2012	
Annual total	471,158		274,764			
Annual mean	1,291		751		735	
Highest annual mean					1,278	2011
Lowest annual mean					400	2000
Highest daily mean	7,740	Jun 10	2,180	Apr 28	8,430	Feb 9, 1996
Lowest daily mean	328	Jan 1	257	Sep 4	77	Jul 31, 2000
Annual seven-day minimum	504	Jan 1	263	Aug 30	83	Jul 29, 2000
Maximum peak flow			2,260	Apr 27	9,800	Feb 9, 1996
Maximum peak stage			5.81	Apr 27	10.03	Feb 9, 1996
Instantaneous low flow					[a]75	Jul 30, 2000
Annual runoff (ac-ft)	934,500		545,000		532,300	
10 percent exceeds	3,120		1,220		1,310	
50 percent exceeds	782		682		566	
90 percent exceeds	535		285		285	

[a] Gage height, 2.03 ft.