

**12392000 CLARK FORK AT WHITEHORSE RAPIDS, NEAR CABINET, ID**

Pend Oreille Basin  
Lower Clark Fork Subbasin

LOCATION.--Lat 48°05'30", long 116°07'00" referenced to North American Datum of 1983, in NE ¼ sec.30, T.55 N., R.3 E., Bonner County, ID, Hydrologic Unit 17010213, Cabinet quad., on right bank 3.0 mi downstream from Cabinet Gorge Dam, 4.5 mi southeast of Clark Fork, and at mile 146.9.

DRAINAGE AREA.--22,073 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--September 1928 to current year. Prior to October 1952, published as "near Heron, Mont."

REVISED RECORDS.--WSP 1182: 1936. WSP 1736: 1931, 1936(m), 1937. WRD-ID-1973-1: 1972(M).

REMARKS.--Flow regulated by Hungry Horse Reservoir, Flathead Lake, and Noxon Rapids Reservoir. Extreme diurnal fluctuation caused by powerplant at Cabinet Gorge Dam. Diversions above station for irrigation of about 354,000 acres. Discharge measurements made at Whitehorse Rapids indicate about 600 ft<sup>3</sup>/s ground-water inflow between the measuring cableway for Clark Fork River below Cabinet Gorge Dam (sta 12391950) and Whitehorse Rapids. Records given herein represent flow at Whitehorse Rapids, computed by adding this 600 ft<sup>3</sup>/s to observed flows at 12391950, and are considered comparable to records at former site "near Heron", except for minor surface inflow from additional drainage area.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 153,000 ft<sup>3</sup>/s May 29 to June 1, 1948; maximum gage height, 50.97 ft, May 31, 1948, site and datum then in use; minimum observed, 270 ft<sup>3</sup>/s Aug. 12, 1952 (discharge measurement), at sites in use since October 1952, during filling of Cabinet Gorge Reservoir; minimum daily since reservoir filled, 762 ft<sup>3</sup>/s Sept. 2, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1894 reached a discharge of 195,000 ft<sup>3</sup>/s from floodmark, elevation of 2,137.1 ft, at site about 4 mi upstream and 0.1 mi below "near Heron" site.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 54,400 ft<sup>3</sup>/s June 8; minimum daily, 5,900 ft<sup>3</sup>/s Oct. 15.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6,330	7,600	16,500	14,600	17,600	15,800	28,600	34,800	34,700	17,100	13,400	7,030
2	9,540	11,900	16,100	12,600	15,300	15,700	29,800	37,100	34,600	23,100	12,900	6,490
3	9,780	12,500	13,600	15,700	8,990	15,900	28,900	42,600	36,800	21,800	12,000	10,600
4	9,940	5,940	14,500	16,700	9,930	15,600	29,700	41,800	40,400	19,000	6,920	7,890
5	12,400	7,460	13,000	19,400	11,300	14,500	30,200	42,400	43,700	23,200	6,490	9,840
6	11,200	11,200	14,500	9,690	11,500	16,600	27,200	41,900	47,200	22,400	10,600	8,520
7	6,150	17,600	15,000	12,200	15,400	13,900	25,900	39,500	53,300	18,900	9,990	7,900
8	5,950	20,100	19,400	16,100	16,400	15,700	28,400	36,800	54,400	13,900	6,570	6,500
9	11,200	23,800	11,500	13,800	12,600	15,400	27,400	36,700	51,200	19,400	7,150	7,980
10	10,500	26,300	11,300	13,400	6,520	9,950	30,000	40,200	45,600	16,800	9,930	11,100
11	10,400	28,400	14,800	18,100	7,560	13,500	27,400	41,200	43,300	18,000	9,280	7,650
12	10,600	23,300	16,900	15,100	11,300	17,800	28,700	43,400	43,900	16,600	6,670	9,040
13	10,300	23,500	14,600	12,000	15,500	24,600	29,600	44,200	43,700	19,700	8,580	9,510
14	6,770	24,500	15,000	11,300	17,300	26,000	27,000	46,600	43,100	13,400	10,200	9,710
15	5,900	29,700	15,500	14,200	15,600	30,600	25,400	46,600	40,500	11,900	9,810	6,800
16	6,140	26,000	14,000	14,700	13,600	28,000	30,200	47,200	31,400	16,800	7,930	6,350
17	10,100	22,000	14,700	10,600	8,220	23,500	25,500	48,800	28,500	12,000	11,600	7,630
18	8,050	17,300	17,300	13,000	12,500	21,400	27,400	51,400	32,600	14,100	6,910	8,070
19	13,200	19,400	17,500	11,900	15,600	24,300	26,200	53,400	31,600	15,700	6,600	8,080
20	8,630	21,200	15,100	8,760	15,200	26,400	30,100	53,300	33,300	12,500	6,540	12,000
21	6,140	17,500	15,200	14,300	14,800	26,900	23,300	52,600	31,300	10,200	10,300	9,130
22	10,800	19,300	14,300	14,500	16,200	26,900	25,300	51,500	32,300	14,700	9,350	6,810
23	9,540	14,500	6,260	14,500	16,600	25,900	29,000	49,900	31,300	16,000	7,540	7,540
24	8,300	12,700	15,600	17,700	11,900	23,900	27,800	49,100	31,200	11,900	7,280	7,950
25	10,400	17,500	13,000	20,300	13,900	22,400	27,700	42,600	31,000	13,000	9,780	10,800
26	10,400	15,800	13,800	22,900	13,600	28,000	28,300	38,700	28,000	14,100	6,410	13,300
27	8,160	14,800	15,500	13,300	15,600	29,600	29,600	34,400	25,800	15,700	8,120	12,500
28	6,540	17,700	17,100	16,400	14,300	30,100	25,000	35,700	27,100	9,450	6,300	11,200
29	6,100	19,000	18,500	15,100	---	30,400	30,200	35,400	23,900	11,600	9,810	8,880
30	11,900	16,300	11,900	10,500	---	30,000	32,700	35,500	17,800	12,100	11,800	13,100
31	11,600	---	11,400	11,300	---	30,500	---	35,000	---	11,500	10,300	---
<b>Total</b>	282,960	544,800	453,360	444,650	374,820	689,750	842,500	1,330,300	1,093,500	486,550	277,060	269,900
<b>Mean</b>	9,128	18,160	14,620	14,340	13,390	22,250	28,080	42,910	36,450	15,700	8,937	8,997
<b>Max</b>	13,200	29,700	19,400	22,900	17,600	30,600	32,700	53,400	54,400	23,200	13,400	13,300
<b>Min</b>	5,900	5,940	6,260	8,760	6,520	9,950	23,300	34,400	17,800	9,450	6,300	6,350
<b>Ac-ft</b>	561,300	1,081,000	899,200	882,000	743,500	1,368,000	1,671,000	2,639,000	2,169,000	965,100	549,500	535,300

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	11,800	13,240	14,380	14,270	14,760	15,740	24,760	48,770	56,380	25,990	11,600	10,480
<b>Max</b>	25,670	21,970	34,850	28,020	38,150	36,480	59,140	93,830	115,800	57,650	19,680	18,300
<b>(WY)</b>	(1960)	(1996)	(1996)	(1934)	(1996)	(1996)	(1934)	(1997)	(1948)	(1950)	(1997)	(1985)
<b>Min</b>	5,466	5,008	4,732	3,527	4,217	5,122	6,165	16,450	15,480	9,214	6,320	5,448
<b>(WY)</b>	(1937)	(1937)	(1937)	(1937)	(1936)	(1937)	(1977)	(1941)	(1977)	(1940)	(1994)	(1994)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1929 - 2007	
<b>Annual total</b>	8,182,360		7,090,150			
<b>Annual mean</b>	22,420		19,430		21,850	
<b>Highest annual mean</b>					34,250	1996
<b>Lowest annual mean</b>					10,180	1941
<b>Highest daily mean</b>	84,800	May 22	54,400	Jun 8	153,000	May 30, 1948
<b>Lowest daily mean</b>	5,900	Oct 15	5,900	Oct 15	762	Sep 2, 1962
<b>Annual seven-day minimum</b>	6,540	Sep 9	7,790	Aug 18	2,710	Feb 10, 1936
<b>Annual runoff (ac-ft)</b>	16,230,000		14,060,000		15,830,000	
<b>10 percent exceeds</b>	54,300		36,800		47,400	
<b>50 percent exceeds</b>	15,700		15,500		15,500	
<b>90 percent exceeds</b>	7,210		7,790		7,180	

