

Water-Data Report 2013

12391400 CLARK FORK BELOW NOXON RAPIDS DAM, NEAR NOXON, MT

Pend Oreille Basin
Lower Clark Fork Subbasin

LOCATION.--Lat 47°57'40", long 115°44'01" referenced to North American Datum of 1983, in SW ¼ sec.33, T.26 N., R.32 W., Sanders County, MT, Hydrologic Unit 17010213, at Noxon Rapids Dam, 1 mi upstream from Rock Creek, 3 mi southeast of Noxon, and at river mile 169.7.

DRAINAGE AREA.--21,833 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1960 to current year.

GAGE.--Plant generator rating or discharge through powerplant. Water-stage recorder on reservoir determines head on taintor gates. Elevation of gage is 2,320 ft, referenced to the National Geodetic Vertical Datum of 1929 (levels by The Washington Water Power Co.).

COOPERATION.--Records are furnished by the Avista Corporation, under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

REMARKS.--Records are good. Flow is regulated by Hungry Horse Reservoir (station 12362000) and Flathead Lake (station 12371500). Diversions for irrigation include about 350,000 acres upstream from station. Some sub-surface flow is indicated by comparison with records for adjacent gaging stations. Figures of discharge given herein are combined flows through turbines and spillway. Several unpublished observations of water temperature and specific conductance were made during the year.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6,420	18,000	9,470	13,500	15,600	12,700	14,700	30,700	55,000	31,700	8,400	5,120
2	6,290	18,700	14,100	16,100	13,900	4,960	14,100	28,500	51,000	34,100	7,960	6,460
3	7,550	11,200	15,800	17,500	12,600	11,000	20,600	28,600	48,900	31,300	8,350	7,170
4	6,400	14,200	17,800	11,100	17,800	15,800	20,800	25,700	47,000	26,300	9,150	7,260
5	5,350	16,400	19,800	9,480	15,200	15,800	20,200	27,300	41,800	27,200	10,500	6,290
6	7,380	17,400	19,300	11,000	11,600	9,440	21,400	28,400	44,600	24,800	10,800	4,820
7	7,110	11,500	19,600	12,200	11,700	15,000	25,500	31,300	41,500	24,700	12,000	6,940
8	8,490	15,000	19,700	13,200	13,600	14,600	23,700	30,800	42,000	22,100	10,700	5,850
9	9,400	21,000	18,300	14,400	9,470	5,970	21,300	32,300	40,700	23,200	10,700	8,730
10	8,940	11,700	18,400	11,100	14,600	11,300	20,600	40,700	39,500	21,500	7,340	7,440
11	13,600	16,300	17,800	10,500	15,400	12,200	23,000	50,600	39,900	16,500	6,980	7,590
12	8,710	18,200	16,700	11,700	11,700	10,000	25,300	56,100	38,400	17,400	10,100	7,360
13	5,660	15,800	18,700	10,600	10,400	12,100	23,900	60,300	35,800	16,200	10,500	6,650
14	7,530	17,000	20,500	16,500	18,400	12,700	24,000	64,500	38,200	15,400	9,750	5,460
15	11,400	16,100	12,800	14,600	13,500	10,100	25,200	67,200	38,200	17,200	8,020	6,060
16	9,990	13,500	17,200	14,100	6,940	5,680	22,800	69,200	37,700	16,000	8,150	7,850
17	14,300	10,900	21,200	13,300	14,800	10,500	26,000	62,200	36,400	14,000	5,800	6,700
18	15,500	13,200	16,700	9,300	13,500	15,100	25,200	61,900	32,500	16,400	8,280	5,450
19	8,170	16,100	16,000	9,100	15,100	16,300	23,100	60,700	35,800	17,900	8,470	6,680
20	6,620	16,300	19,900	12,100	14,000	13,800	21,300	57,700	34,600	9,970	9,360	7,120
21	8,910	13,100	17,700	19,500	13,600	13,400	23,600	57,500	37,500	8,990	8,640	6,340
22	12,400	12,400	12,100	17,900	12,400	11,400	24,400	57,500	47,800	13,800	7,570	6,360
23	10,300	15,300	14,700	13,100	5,590	13,500	25,300	58,400	48,600	14,300	6,090	5,040
24	14,700	10,800	18,400	18,600	14,300	13,300	26,500	57,600	46,600	13,100	5,400	6,150
25	15,100	12,300	17,200	15,400	11,800	13,600	27,800	59,400	41,200	11,400	5,680	8,700
26	13,800	15,500	17,900	9,860	13,600	12,500	23,700	57,400	37,300	11,500	9,290	10,700
27	6,340	17,600	18,300	14,300	14,100	14,400	24,500	57,800	34,400	8,020	8,110	10,600
28	12,800	16,200	13,700	17,600	13,800	11,600	26,000	56,800	34,800	5,850	9,310	5,630
29	12,100	15,100	13,200	17,100	---	14,100	26,500	57,300	35,100	13,300	7,780	8,850
30	14,800	14,400	14,300	14,900	---	7,600	28,800	57,000	35,800	13,100	6,270	8,060
31	16,400	---	15,600	13,300	---	10,300	---	54,000	---	11,500	4,510	---
Total	312,460	451,200	522,870	422,940	369,000	370,750	699,800	1,545,400	1,218,600	548,730	259,960	209,430
Mean	10,080	15,040	16,870	13,640	13,180	11,960	23,330	49,850	40,620	17,700	8,386	6,981
Max	16,400	21,000	21,200	19,500	18,400	16,300	28,800	69,200	55,000	34,100	12,000	10,700
Min	5,350	10,800	9,470	9,100	5,590	4,960	14,100	25,700	32,500	5,850	4,510	4,820
Ac-ft	619,800	895,000	1,037,000	838,900	731,900	735,400	1,388,000	3,065,000	2,417,000	1,088,000	515,600	415,400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	11,340	12,890	13,980	13,980	14,620	15,640	22,490	41,190	50,950	23,640	10,690	9,994
Max	16,160	19,890	31,480	22,230	34,640	33,700	46,450	88,150	95,980	59,900	17,720	16,410
(WY)	(1976)	(1996)	(1996)	(1974)	(1996)	(1996)	(1996)	(1997)	(2011)	(2011)	(1997)	(1985)
Min	6,172	6,830	8,606	7,141	6,185	6,925	4,873	14,460	13,400	8,330	5,350	4,838
(WY)	(1961)	(2002)	(2002)	(2003)	(2001)	(2001)	(1977)	(1973)	(1977)	(1977)	(1988)	(1973)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1960 - 2013	
Annual total	8,806,070		6,931,140			
Annual mean	24,060		18,990		20,120	
Highest annual mean					31,870	1996
Lowest annual mean					11,170	1977
Highest daily mean	78,500	Apr 28	69,200	May 16	125,000	Jun 12, 1964
Lowest daily mean	4,410	Sep 29	4,510	Aug 31	60	Jan 29, 1989
Maximum peak flow					125,000	Jun 12, 1964
Instantaneous low flow					60	Jan 29, 1989
Annual runoff (ac-ft)	17,470,000		13,750,000		14,580,000	

