

Water-Data Report 2007

12335500 NEVADA CREEK ABOVE RESERVOIR, NEAR HELMVILLE, MT

Pend Oreille Basin
Blackfoot Subbasin

LOCATION.--Lat 46°46'42", long 112°46'00" referenced to North American Datum of 1927, in SW ¼ NW ¼ SW ¼ sec.20, T.12 N., R.9 W., Powell County, MT, Hydrologic Unit 17010203, on right bank 0.7 mi upstream from Nevada Lake, 1.1 mi downstream from Gallagher Creek, 11 mi southeast of Helmville, and at river mile 34.5.

DRAINAGE AREA.--116 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1939 to current year. Seasonal records only for water year 2007. Prior to October 2001, published as "near Finn."

GAGE.--Water-stage recorder. Elevation of gage is 4,640 ft, referenced to the National Geodetic Vertical Datum of 1929. Prior to Apr. 30, 1942, nonrecording gage at site 0.1 mi, downstream at different elevation. Apr. 30, 1942 to July 26, 1953, water-stage recorder at site 0.2 mi downstream at different elevation. July 26, 1953, to Nov. 6, 1978, water-stage recorder at site 0.8 mi upstream at different elevation.

REMARKS.--Seasonal records are good. Diversions for irrigation include about 2,900 acres upstream from station. U.S. Geological Survey satellite telemeter is located at the station. Several unpublished observations of water temperature and specific conductance were made during the year.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 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7.4						28	57	42	15	11	6.5
2	7.6						26	70	39	15	11	6.2
3	7.9						20	187	36	15	11	6.0
4	7.9						21	138	32	13	10	6.1
5	8.3						24	101	41	13	11	7.3
6	11						22	79	82	12	12	7.0
7	12						21	66	107	13	11	6.6
8	12						19	54	64	11	10	6.5
9	13						21	55	58	10	10	6.7
10	13						20	71	58	14	9.1	6.7
11	12						19	80	70	14	8.9	6.5
12	12						17	80	54	15	8.6	6.3
13	12						16	81	47	15	8.3	5.8
14	12						15	77	46	16	7.2	5.8
15	13						16	67	40	15	7.1	5.9
16	17						15	56	37	16	6.8	5.9
17	17						16	47	38	16	6.9	6.1
18	15						33	44	39	16	7.4	6.2
19	16						34	41	34	14	7.5	7.0
20	28						30	40	30	12	7.6	7.0
21	24						27	48	29	12	7.5	7.3
22	21						26	81	28	12	7.2	6.6
23	18						26	66	24	11	6.9	9.7
24	17						27	52	23	12	6.8	8.4
25	16						31	67	22	20	6.6	6.9
26	15						38	50	23	15	6.2	6.6
27	15						36	46	23	14	6.2	6.4
28	14						32	60	19	14	6.3	6.5
29	14						36	55	19	12	6.2	6.9
30	14						48	51	18	12	6.1	6.9
31	e13						---	45	---	12	6.2	---
Total	435.1						760	2,112	1,222	426	254.6	200.3
Mean	14.0						25.3	68.1	40.7	13.7	8.21	6.68
Max	28						48	187	107	20	12	9.7
Min	7.4						15	40	18	10	6.1	5.8
Ac-ft	863						1,510	4,190	2,420	845	505	397

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	13.8	14.5	12.4	11.9	15.6	34.4	65.3	109	87.8	26.8	14.0	10.1
Max	32.2	28.8	47.4	54.5	84.6	114	196	356	429	96.5	40.5	28.2
(WY)	(1960)	(1976)	(1976)	(1984)	(1986)	(1978)	(1952)	(1976)	(1975)	(1955)	(1975)	(1965)
Min	5.52	5.73	3.74	3.83	4.17	7.61	10.0	16.0	11.5	6.19	3.89	3.68
(WY)	(1940)	(1989)	(1993)	(1988)	(1944)	(1962)	(1941)	(1977)	(1992)	(1985)	(1961)	(1940)

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SUMMARY STATISTICS

	2007 Season		Water Years 1939 - 2007	
Annual total				
Annual mean			35.1	
Highest annual mean			77.2	1975
Lowest annual mean			11.8	1988
Highest daily mean	187	May 3	1,240	May 22, 1981
Lowest daily mean	5.8	Sep 13	2.0	Jan 11, 1944
Annual seven-day minimum			2.0	Feb 9, 1944
Maximum peak flow	251	May 3	^a 1,800	Jun 2, 1953
Maximum peak stage	3.11	May 3	^b 7.40	May 29, 1953
Instantaneous low flow			^c 2.0	Aug 20, 1944
Annual runoff (ac-ft)			25,400	
10 percent exceeds			86	
50 percent exceeds			15	
90 percent exceeds			6.5	

^a Gage height, 6.00 ft, site and datum then in use; from rating curve extended above 400 ft³/s on basis of inflow-outflow study of Nevada Lake.

^b Site and datum then in use; backwater from diversion dam.

^c Probably less than 2.0 ft³/s in several years.

