

Water-Data Report 2012

12335500 NEVADA CREEK ABOVE RESERVOIR, NEAR HELMVILLE, MT

Pend Oreille Basin
Blackfoot Subbasin

LOCATION.--Lat 46°46'40", long 112°46'04" referenced to North American Datum of 1983, 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.--Records are fair except for estimated daily discharges, which are poor. 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 Several unpublished observations of water temperature and specific conductance were made during the year.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 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	15	17	e15	e14	e17	e22	176	191	91	27	21	5.0
2	15	e17	e15	e15	e15	e21	114	158	101	27	21	4.8
3	15	e18	e14	e18	e15	e20	95	143	112	25	22	4.7
4	15	21	e13	e20	e14	e30	94	133	118	22	22	4.6
5	21	21	e12	e18	e14	e60	90	126	118	22	21	4.5
6	19	e20	e13	e16	e15	e50	84	109	158	23	21	4.6
7	17	e19	e15	e16	e15	e45	83	99	127	22	21	4.7
8	17	20	e15	e16	e15	e40	74	94	117	21	22	4.6
9	15	20	e16	e16	e16	e30	70	91	114	18	23	4.5
10	12	e20	e16	e15	e15	e40	68	113	114	19	22	4.5
11	12	e22	e15	e14	e14	e60	77	130	106	19	22	4.5
12	12	20	e15	e14	e14	e90	124	117	87	21	21	4.5
13	11	20	e14	e16	e15	e80	125	108	124	21	20	4.8
14	12	21	e15	e18	e15	e70	107	112	97	26	19	4.9
15	15	e22	e16	e17	e14	e65	103	126	86	30	18	4.9
16	14	e19	e18	e15	e14	e150	100	149	81	28	18	5.0
17	13	e20	e19	e14	e15	e100	89	171	89	28	16	5.1
18	13	e18	e18	e14	e14	e70	86	170	81	38	15	5.0
19	17	e17	e17	e15	e14	e50	84	143	77	30	14	5.1
20	17	e18	e17	e18	e14	e40	80	125	67	28	13	5.1
21	19	e19	e15	e18	e15	35	94	112	54	30	10	5.2
22	19	e20	e13	e16	e20	113	120	168	46	27	11	5.4
23	19	e22	e13	e15	e25	146	160	142	44	26	9.6	5.4
24	22	e20	e14	e14	e35	70	219	126	41	24	8.0	5.8
25	20	e17	e14	e15	e30	102	288	98	37	23	7.4	6.2
26	18	e15	e15	e18	e25	174	330	96	35	23	7.3	6.1
27	18	e17	e16	e17	e23	184	434	111	32	26	7.1	6.2
28	17	e16	e16	e17	e21	140	381	129	29	32	6.9	6.4
29	18	e16	e16	e20	e22	121	277	91	28	25	6.8	6.5
30	17	e16	e15	e19	---	168	231	76	28	24	6.6	6.5
31	18	---	e14	e18	---	193	---	80	---	24	5.6	---
Total	502	568	469	506	510	2,579	4,457	3,837	2,439	779	478.3	155.1
Mean	16.2	18.9	15.1	16.3	17.6	83.2	149	124	81.3	25.1	15.4	5.17
Max	22	22	19	20	35	193	434	191	158	38	23	6.5
Min	11	15	12	14	14	20	68	76	28	18	5.6	4.5
Ac-ft	996	1,130	930	1,000	1,010	5,120	8,840	7,610	4,840	1,550	949	308

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2012, BY WATER YEAR (WY)*

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	13.8	14.6	12.4	11.9	15.3	34.6	66.8	111	92.5	27.6	14.4	10.2
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)

*April 1939 to current year, seasonal records only for water year 2007.

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1939 - 2012*	
Annual total	25,909.0		17,279.4			
Annual mean	71.0		47.2		35.8	
Highest annual mean					77.2	1975
Lowest annual mean					11.8	1988
Highest daily mean	685	Jun 9	434	Apr 27	1,240	May 22, 1981
Lowest daily mean	6.0	Feb 24	4.5	Sep 5	2.0	Jan 11, 1944
Annual seven-day minimum	6.6	Feb 22	4.6	Sep 5	2.0	Feb 9, 1944
Maximum peak flow			^a 463	Apr 27	^c 1,800	Jun 2, 1953
Maximum peak stage			^b 4.08	Mar 16	^d 7.40	May 29, 1953
Instantaneous low flow					^e 2.0	Aug 20, 1944
Annual runoff (ac-ft)	51,390		34,270		25,950	
10 percent exceeds	248		124		88	
50 percent exceeds	20		20		15	
90 percent exceeds	10		7.4		6.6	

*April 1939 to current year, seasonal records only for water year 2007.

^aGage height, 3.87 ft.

^bBackwater from ice.

^cGage 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.

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

^eProbably less than 2.0 ft³/s in several years.

