06131200 NELSON CREEK NEAR VAN NORMAN, MT

Fort Peck Lake Basin
Fort Peck Reservoir Subbasin

LOCATION.--Lat 47°32′08″, long 106°09′11″ referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.36, T.21 N., R.43 E., McCone County, MT, Hydrologic Unit 10040104, on left bank at downstream side of bridge on State Highway 24, 1.5 mi upstream from Fort Peck Lake, and 19 mi northeast of Van Norman.

DRAINAGE AREA.--100.2 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1975 to September 1985, February 2000 to September 2004, October 2006 to September 2007.

GAGE.--Water-stage recorder. Elevation of gage is 2,300 ft, referenced to the National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Diversions for irrigation of about 163 acres occur upstream from station of which about 158 acres are flood irrigated. Some storage in stock ponds upstream. 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 Several unpublished observations of water temperature and specific conductance were made during the year.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	0.00	e0.00	e0.00	0.00	0.00	e0.50	0.54	0.02	11	0.00	0.00	0.00
2	0.00	e0.00	e0.00	0.00	0.00	e0.00	0.36	0.01	2.5	0.00	0.00	0.00
3	0.00	e0.00	0.00	0.00	0.00	e0.50	0.29	0.01	1.0	0.00	0.00	0.00
4	0.00	e0.00	0.00	0.00	0.00	e2.0	0.26	0.15	0.48	0.00	0.00	0.00
5	0.00	e0.00	0.00	0.00	0.00	e10	0.22	0.40	0.37	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	e60	0.19	0.31	0.34	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	e30	0.16	0.71	0.23	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	24	0.13	0.61	0.17	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	7.1	0.12	0.41	0.11	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	3.5	0.14	0.23	0.07	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	4.5	0.17	0.18	0.05	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.78	0.15	0.13	0.03	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.53	0.18	0.10	0.02	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.44	0.20	0.12	0.03	0.00	0.00	0.00
15	0.00	e0.00	0.00	0.00	0.00	0.35	0.20	0.10	0.02	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	e0.00	0.26	0.15	0.11	0.01	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	e0.50	0.22	0.11	0.08	34	0.00	0.00	0.00
18	0.00	e0.00	0.00	0.00	e2.0	0.20	0.08	0.19	1.1	0.00	0.00	0.00
19	0.00	e0.00	0.00	0.00	e6.0	0.16	0.06	0.12	0.18	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	e20	0.14	0.15	0.09	0.02	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	e50	0.13	0.17	0.10	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	e25	0.14	0.12	0.11	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	e10	0.14	0.13	14	0.00	0.00	0.00	0.00
24	0.00	e0.00	0.00	0.00	e5.0	0.11	0.09	10	0.00	0.00	0.00	0.00
25	0.00	e0.00	0.00	0.00	e2.0	0.09	0.07	49	28	0.00	0.00	0.00
26	0.00	e0.00	0.00	0.00	e1.0	0.08	0.07	21	1.3	0.00	0.00	0.00
27	0.00	e0.00	0.00	0.00	e0.50	0.07	0.07	3.5	0.19	0.00	0.00	0.00
28	0.00	e0.00	0.00	0.00	e0.00	0.09	0.05	1.1	0.01	0.00	0.00	0.00
29	0.00	e0.00	0.00	0.00	---	0.27	0.04	0.50	0.00	0.00	0.00	0.00
30	e0.00	e0.00	0.00	0.00	---	0.59	0.03	0.43	0.00	0.00	0.00	0.00
31	e0.00	---	0.00	0.00	---	0.70	---	29	---	0.00	0.00	---
Total	0.00	0.00	0.00	0.00	122.00	147.59	4.70	132.82	81.23	0.00	0.00	0.00
Mean	0.00	0.00	0.00	0.00	4.36	4.76	0.16	4.28	2.71	0.00	0.00	0.00
Max	0.00	0.00	0.00	0.00	50	60	0.54	49	34	0.00	0.00	0.00
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.00	0.00	0.00	0.00
Ac-ft	0.00	0.00	0.00	0.00	242	293	9.3	263	161	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2007, BY WATER YEAR (WY) *

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.15	0.02	0.02	0.33	2.32	5.44	2.89	1.56	1.68	2.26	1.15	1.02
Max	1.47	0.14	0.15	2.90	19.0	37.4	39.9	13.1	5.64	16.0	9.37	15.4
(WY)	(1982)	(1979)	(1976)	(1983)	(1982)	(1978)	(1979)	(1978)	(1977)	(1978)	(1981)	(1978)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00
(WY)	(1977)	(1977)	(1977)	(1977)	(1978)	(2002)	(2000)	(2001)	(1981)	(1980)	(1977)	(1976)

* During periods of operation (October 1975 to September 1985, February 2000 to September 2004, October 2006 to September 2007).

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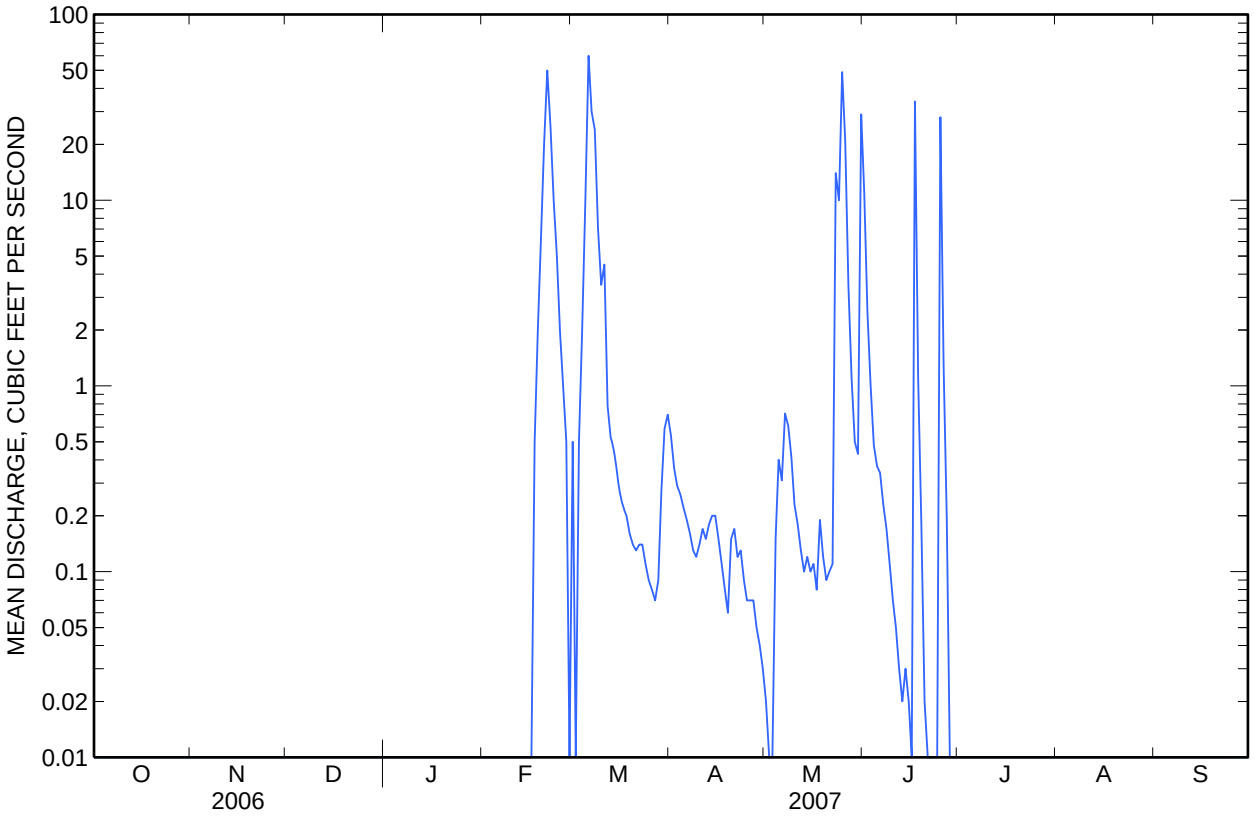
SUMMARY STATISTICS

	Water Year 2007		Water Years 1976 - 2007*	
Annual total	488.34			
Annual mean	1.34		1.62	
Highest annual mean			7.57	1978
Lowest annual mean			0.14	1980
Highest daily mean	60	Mar 6	445	Jul 4, 1978
Lowest daily mean	0.00	Oct 1	0.00	Oct 1, 1975 [c]
Annual seven-day minimum	0.00	Oct 1	0.00	Oct 1, 1975
Maximum peak flow	[a]202	May 25	1,750	Jul 4, 1978
Maximum peak stage	[b]6.68	Mar 5	9.30	Jul 4, 1978
Instantaneous low flow	0.00	Oct 1	0.00	Oct 1, 2006
Annual runoff (ac-ft)	969		1,170	
10 percent exceeds	0.56		1.0	
50 percent exceeds	0.00		0.00	
90 percent exceeds	0.00		0.00	

* During periods of operation (October 1975 to September 1985, February 2000 to September 2004, October 2006 to September 2007).

[a] Gage height, 5,36 ft.

[b] Backwater from ice.

[c] No flow at times most years.