

Water-Data Report 2012

06131000 BIG DRY CREEK NEAR VAN NORMAN, MT

Fort Peck Lake Basin
Big Dry Subbasin

LOCATION.--Lat 47°20'58", long 106°21'28" referenced to North American Datum of 1983, in NE ¼ SW ¼ NW ¼ sec.3, T.18 N., R.42 E., Garfield County, MT, Hydrologic Unit 10040105, on left bank 1100 ft. downstream from Little Dry Creek, 3.2 mi northeast of Van Norman Post Office, 26 mi east of Jordan, and at river mile 55.1.

DRAINAGE AREA.--2,554 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1939 to July 1969, July 1970 to September 2006, June 2012 to September 2012. Discharge measurements only, October 1947 to March 1949. Prior to July 1970, published as "Dry Creek near Van Norman."

REVISED RECORDS.--Water Supply Paper (WSP) 1309: 1947, maximum discharge (M). WSP 1559: 1944 (M), 1947. WSP 1729: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 2,330 ft, referenced to the National Geodetic Vertical Datum of 1929. Prior to July 24, 1978, at site 400 ft upstream at same elevation.

REMARKS.--Records are good. Few small diversions for irrigation of hay meadows occur upstream from station. Several unpublished observations of water temperature and specific conductance were made during the year.

06131000 BIG DRY CREEK NEAR VAN NORMAN, MT—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1									8.9	1.4	0.54	0.16
2									9.0	1.1	2.1	0.13
3									11	0.98	3.2	0.11
4									10	0.77	1.0	0.10
5									40	0.76	0.81	0.11
6									8.9	0.74	0.72	0.11
7									6.2	0.76	0.67	0.13
8									5.7	0.77	0.63	0.13
9									82	0.71	0.59	0.17
10									45	0.65	0.54	0.19
11									55	0.63	0.80	0.20
12									51	0.61	0.78	0.23
13									59	0.55	33	0.24
14									50	0.49	12	0.26
15									40	0.49	3.2	0.27
16									29	0.50	1.4	0.29
17									18	0.48	0.70	0.32
18									12	0.46	0.49	0.33
19									10	0.43	0.40	0.33
20									8.6	0.48	0.33	0.35
21									7.6	0.53	0.30	0.35
22									6.4	0.47	0.27	0.38
23									5.2	1.5	0.27	0.39
24									4.5	22	0.24	0.39
25									4.0	2.8	0.20	0.42
26									3.1	1.3	0.21	0.43
27									2.4	1.0	0.21	0.48
28									2.0	0.79	0.22	0.51
29									1.7	0.66	0.17	0.49
30									1.5	0.62	0.15	0.51
31									---	0.57	0.15	---
Total									597.7	46.00	66.29	8.51
Mean									19.9	1.48	2.14	0.28
Max									82	22	33	0.51
Min									1.5	0.43	0.15	0.10
Ac-ft									1,190	91	131	17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2012, BY WATER YEAR (WY)*

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.11	2.94	2.64	6.34	69.6	246	80.6	27.8	57.6	41.8	15.3	15.5
Max	97.5	14.2	33.7	192	1,004	1,760	2,043	300	552	458	367	391
(WY)	(1987)	(1987)	(1976)	(1997)	(1997)	(1959)	(1952)	(1975)	(1944)	(1993)	(1954)	(1986)
Min	0.00	0.00	0.00	0.00	0.00	2.75	1.05	0.21	0.07	0.00	0.00	0.00
(WY)	(1940)	(1961)	(1961)	(1940)	(1940)	(1961)	(1961)	(1958)	(1988)	(1961)	(1959)	(1940)

*During periods of operation (1940-47, 1949-68, 1970 to 2006, 2012).

06131000 BIG DRY CREEK NEAR VAN NORMAN, MT—Continued**SUMMARY STATISTICS**

	Water Year 2012			Water Years 1940 – 2012*		
Annual mean				^b 47.9		
Highest annual mean				243		1978
Lowest annual mean				1.18		1985
Highest daily mean	82	Jun	9	21,300	Mar 22, 1947	
Lowest daily mean	0.10	Sep	4	0.00	Oct 1, 1939	
Maximum peak flow	266	Jun	9	^c 24,600	Mar 21, 1947	
Maximum peak stage	3.54	Jun	9	^d 15.26	Mar 21, 1947	
Instantaneous low flow	a0.07	Sep	3	^e 0.00	Oct 1, 1940	
Annual runoff (ac-ft)				34,710		
10 percent exceeds				40		
50 percent exceeds				2.5		
90 percent exceeds				0.00		

*During periods of operation (1940-47, 1949-68, 1970 to 2006, 2012).

^aGage height, 1.12 ft.

^bMedian of yearly mean discharges, 27.0 ft³/s, 19,560 acre/ft yr.

^cGage height, 13.39 ft, at different site and datum.

^dBackwater from ice.

^eNo flow at times most years.

