Water-Data Report 2013

06125600 MUSSELSHELL RIVER ABOVE BIG COULEE CREEK AT LAVINA MT

Musselshell Basin
Upper Musselshell Subbasin

LOCATION.--Lat 46°17'21", long 108°56'15" referenced to North American Datum of 1983, in SE ¼ NE ¼ NW ¼ sec.11, T.6 N., R.22 E., Golden Valley County, MT, Hydrologic Unit 10040201, on left bank, downstream of bridge on U.S. Highway 3, 0.2 mi south of Lavina, 0.9 mi upstream from Big Coulee Creek, and at river mile 249.

DRAINAGE AREA.--2,691 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 2011 to current year (seasonal records only).

GAGE.--Water-stage recorder. Elevation of gage is 3,423 ft, referenced to the National Geodetic Vertical Datum of 1929.

REMARKS.--Records are good. Some regulation occurs by Bair (station number 06116500), Martinsdale (station number 06119000), and Deadman's Basin (station number 06122500) Reservoirs. Diversions for irrigation of about 31,900 acres occurs upstream from station, of which about 29,700 acres is flood irrigated. 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 Several unpublished observations of water temperature and specific conductance were made during the year.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 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	35						16	24	136	53	201	53
2	36						17	14	132	49	218	56
3	27						17	12	225	123	253	54
4	29						16	5.2	258	182	266	54
5	28						5.9	7.0	352	196	248	57
6	30						12	20	368	202	205	61
7	23						14	28	284	194	177	62
8	17						19	30	216	202	177	80
9	17						20	21	173	261	174	91
10	14						20	54	147	268	176	95
11	12						23	93	132	249	182	91
12	11						25	105	162	218	173	86
13	11						27	111	161	198	176	76
14	11						27	181	291	178	171	81
15	11						26	219	199	167	158	73
16	12						26	226	202	175	163	73
17	10						29	245	171	193	135	78
18	9.0						30	272	136	198	126	85
19	8.7						29	317	112	191	124	83
20	8.8						29	333	102	206	111	90
21	17						30	229	94	221	96	94
22	13						34	174	94	217	85	95
23	12						35	152	103	213	73	96
24	17						43	144	120	210	56	98
25	19						54	190	134	215	47	82
26	20						47	220	101	216	50	89
27	19						42	207	81	225	48	106
28	18						37	168	82	226	47	124
29	19						32	149	65	229	49	130
30	20						28	166	58	211	50	123
31	20						---	169	---	200	49	---
Total	554.5						809.9	4,285.2	4,891	6,086	4,264	2,516
Mean	17.9						27.0	138	163	196	138	83.9
Max	36						54	333	368	268	266	130
Min	8.7						5.9	5.2	58	49	47	53
Ac-ft	1,100						1,610	8,500	9,700	12,070	8,460	4,990

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2012 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	17.9						86.8	151	180	203	120	57.2
Max	17.9						147	164	197	209	138	83.9
(WY)	(2013)						(2012)	(2012)	(2012)	(2012)	(2013)	(2013)
Min	17.9						27.0	138	163	196	102	30.5
(WY)	(2013)						(2013)	(2013)	(2013)	(2013)	(2012)	(2012)

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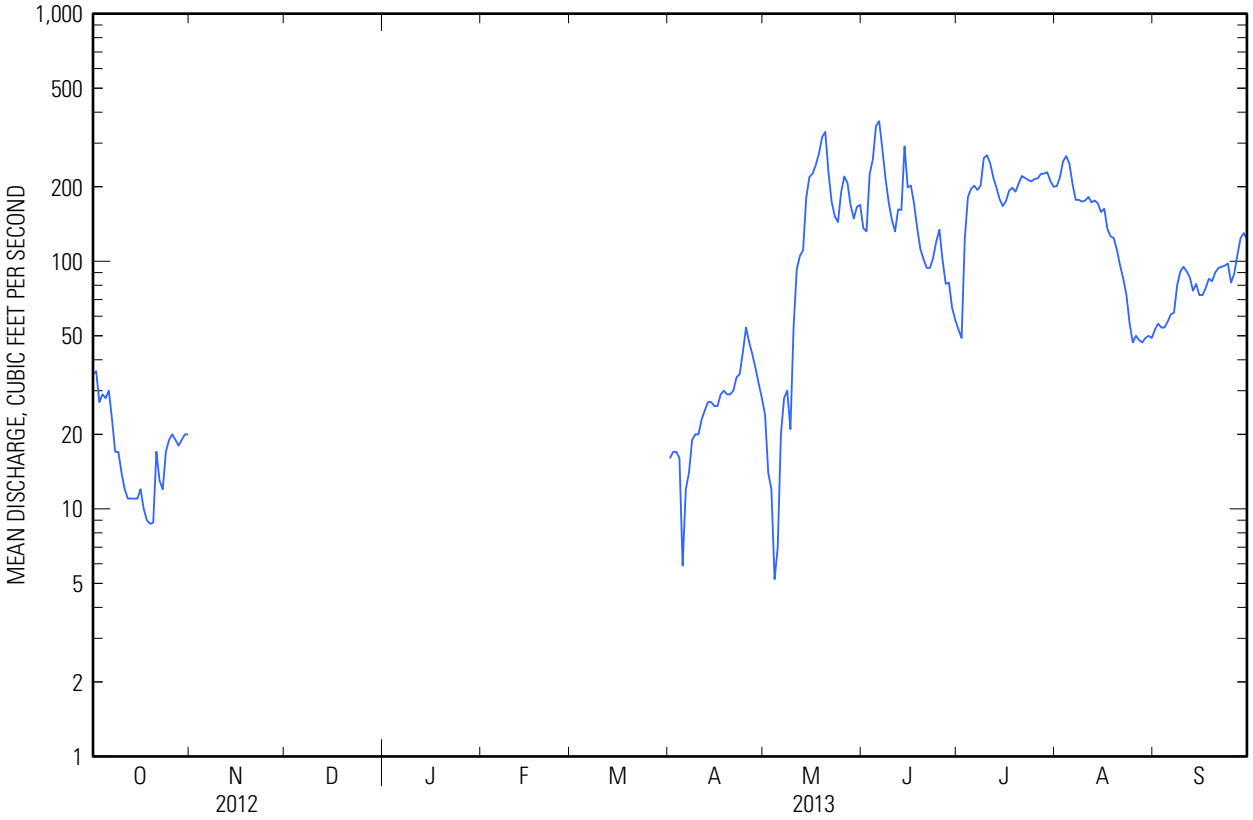
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 2012 - 2013	
Highest daily mean	332	May 28	368	Jun 6	368	Jun 6, 2013
Lowest daily mean	3.5	Sep 21	5.2	May 4	3.5	Sep 21, 2012
Maximum peak flow			561	Jun 14	561	Jun 14, 2013
Maximum peak stage			3.73	Jun 14	3.73	Jun 14, 2013