

Water-Data Report 2012

06211000 RED LODGE CREEK ABOVE COONEY RESERVOIR, NEAR BOYD, MT

Upper Yellowstone Basin
Clarks Fork Yellowstone Subbasin

LOCATION.--Lat 45°26'16", long 109°15'12" referenced to North American Datum of 1983, in NE ¼ SE ¼ SE ¼ sec.33, T.4 S., R.20 E., Carbon County, MT, Hydrologic Unit 10070006, on right bank 0.6 mi upstream from Cooney Reservoir, 9.5 mi west of Boyd, and at river mile 15.0.

DRAINAGE AREA.--143 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1937 to current year (no winter records most years).

REVISED RECORDS.--Water Supply Paper (WSP) 1729: Drainage area. WSP 2116: 1937, maximum discharge (M); 1942 (M); 1943, peak discharge (P); 1944 (M); 1948 (M); 1952 (M); 1957 (P); 1962 (M); 1963 (M).

GAGE.--Water-stage recorder. Elevation of gage is 4,248.0 ft, referenced to the National Geodetic Vertical Datum of 1929.

REMARKS.--Records are good. Some return flow occurs from lands irrigated by water diverted from Rock Creek and East Rosebud Creek basins. Diversions for irrigation of about 5,100 acres occur 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 Several unpublished observations of water temperature and specific conductance were made during the year.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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	36						30	27	58	45	16	24
2	35						30	26	56	39	20	21
3	36						30	24	68	31	21	23
4	35						28	23	76	27	27	20
5	34						27	21	72	34	28	25
6	37						30	21	74	42	26	25
7	66						30	21	72	44	21	26
8	73						32	19	70	50	20	27
9	67						31	12	66	50	22	22
10	66						29	7.9	69	43	25	19
11	62						28	8.2	70	48	32	18
12	59						31	8.7	54	52	31	18
13	56						34	13	50	51	31	20
14	56						31	15	52	52	29	20
15	55						32	8.2	54	50	29	20
16	58						36	3.9	56	53	31	19
17	67						41	5.4	56	53	38	19
18	64						38	8.8	58	49	37	19
19	68						38	14	59	44	34	17
20	60						34	16	60	38	32	15
21	48						30	14	60	38	31	15
22	45						28	14	61	35	30	18
23	43						27	12	65	33	30	19
24	42						26	13	60	35	24	19
25	47						27	33	56	33	21	20
26	44						28	72	54	29	20	21
27	43						28	97	59	29	20	20
28	42						28	91	62	30	23	19
29	42						27	71	63	26	20	20
30	42						27	72	59	26	20	19
31	41						---	63	---	19	24	---
Total	1,569						916	855.1	1,849	1,228	813	607
Mean	50.6						30.5	27.6	61.6	39.6	26.2	20.2
Max	73						41	97	76	53	38	27
Min	34						26	3.9	50	19	16	15
Ac-ft	3,110						1,820	1,700	3,670	2,440	1,610	1,200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2012, BY WATER YEAR (WY)*

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	46.8	33.3	19.3	15.4	27.4	36.5	72.2	155	186	89.3	38.5	45.6
Max	119	69.5	33.6	18.8	35.0	62.9	234	616	575	297	90.2	106
(WY)	(1942)	(1942)	(1958)	(1964)	(1962)	(1962)	(1973)	(1975)	(1967)	(1975)	(1993)	(1941)
Min	17.5	16.5	14.5	12.1	18.9	17.4	12.7	10.8	15.3	4.90	4.71	4.20
(WY)	(1954)	(1955)	(1946)	(1963)	(1964)	(1964)	(1961)	(1985)	(1954)	(1949)	(1946)	(1949)

*No winter records most years.

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1937 – 2012*	
Annual mean					58.4	
Highest annual mean					67.1	1963
Lowest annual mean					49.8	1964
Highest daily mean	2,370	May 25	97	May 27	2,820	May 11, 2005
Lowest daily mean	33	Sep 11	3.9	May 16	0.00	Aug 1, 1949
Annual seven-day minimum					0.00	Aug 9, 1949
Maximum peak flow			110	May 27	4,700	May 25, 2011
Maximum peak stage			2.51	May 27	7.74	May 25, 2011
Instantaneous low flow			^a 3.1	May 16	0.00	Aug 1, 1949
Annual runoff (ac-ft)					42,340	
10 percent exceeds					170	
50 percent exceeds					30	
90 percent exceeds					15	

*No winter records most years.

^aGage height, 1.42 ft, but may have been less outside seasonal period.

