

## Water-Data Report 2012

**13116500 MEDICINE LODGE CREEK NEAR SMALL, ID**

 Upper Snake Basin  
 Medicine Lodge Subbasin

LOCATION.--Lat 44°15'33", long 112°24'37" referenced to North American Datum of 1983, in SW ¼ NE ¼ sec.25, T.11 N., R.34 E., Clark County, ID, Hydrologic Unit 17040215, Indian Creek quad., on right bank 400 ft west of H.W. Small's ranch house, 0.4 mi downstream from Indian Creek, 4 mi northwest of Small, and 11 mi northwest of Dubois.

DRAINAGE AREA.--261 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--April 1921 to December 1923, October 1941 to January 1949, May 1985 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,440 ft above NGVD of 1929, from topographic map. Non-recording gage, April 19, 1921 to December 19, 1923 at a site 100 ft upstream at different datum. 1941-49, water-stage recorder at site 200 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Many small diversions above station for irrigation. Water also diverted by ranches above station during winter months. Measured as beginning site of Medicine Lodge Creek Seepage Investigation in June, July, and September 2006; May, July, and September 2007 and 2008; July and August 2009; May, July, and October 2010; and May, July, August, and September 2011.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 481 ft<sup>3</sup>/s June 19, 1995, gage height, 9.09 ft; minimum observed, 3.80 ft<sup>3</sup>/s Jan. 5, 2004, from discharge measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 209 ft<sup>3</sup>/s March 17, gage height 6.98 ft; minimum, 16 ft<sup>3</sup>/s, July 12, gage height, 4.84 ft.

**DISCHARGE MEASUREMENTS  
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Date	Discharge, in ft <sup>3</sup> /s	Gage height, in ft
Oct 18, 2011	53.2	5.44
Jan 13, 2012	27.2	7.12
Feb 17, 2012	49.0	5.44
Mar 28, 2012	57.6	5.51
May 17, 2012	56.2	5.47
May 29, 2012	53.1	5.45
Jun 11, 2012	51.3	5.42
Jul 17, 2012	40.2	5.26
Jul 24, 2012	36.5	5.19
Sep 4, 2012	29.0	5.07
Sep 10, 2012	27.8	4.99

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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	51	56	e40	e36	e45	e53	71	72	42	53	30	29
2	50	51	e36	e38	e48	e53	52	64	47	64	30	32
3	51	50	e33	e39	e45	e53	48	60	52	72	30	29
4	53	52	e32	e38	e44	55	50	58	43	74	29	29
5	53	55	e35	e39	e44	56	48	55	44	72	30	28
6	70	53	e38	e35	e44	56	47	50	53	89	30	29
7	63	51	e39	e36	e45	e49	43	46	50	76	31	29
8	61	51	e40	e36	e48	e54	45	40	47	52	30	28
9	56	49	e39	e35	e48	61	39	34	47	47	29	28
10	55	47	e39	e33	e47	63	35	30	50	48	29	28
11	55	48	e37	e28	47	65	39	30	49	49	31	27
12	54	51	e37	e27	48	67	47	32	45	50	29	28
13	53	49	e37	e29	48	67	50	33	46	43	28	28
14	51	47	e38	e29	48	77	53	45	46	51	28	27
15	50	47	e38	e30	48	84	59	46	48	57	28	27
16	50	e46	e38	e28	e47	99	46	49	47	41	29	27
17	52	e49	e38	e27	e49	148	32	52	45	42	28	28
18	51	46	e37	e33	50	112	37	54	43	41	27	27
19	52	44	e38	e33	e49	86	39	59	42	39	28	27
20	54	e39	e36	e34	e49	76	46	58	41	38	28	27
21	55	e49	e38	e34	e52	77	79	60	41	36	28	27
22	55	43	e33	e33	53	86	85	62	41	35	28	27
23	55	47	e35	e37	e50	101	93	68	39	37	28	27
24	58	49	e36	e35	e53	104	96	71	40	35	27	28
25	60	48	e36	e38	e54	117	97	69	40	34	27	28
26	58	e39	e36	e38	e52	87	89	71	37	33	28	28
27	55	e44	e37	e36	e53	64	73	72	42	32	28	28
28	54	e49	e37	e37	e53	60	57	62	43	33	27	28
29	57	e47	e37	e42	54	57	54	53	43	32	27	27
30	58	e49	e38	e40	---	54	55	49	45	31	27	27
31	58	---	e37	e42	---	59	---	43	---	30	27	---
<b>Total</b>	1,708	1,445	1,145	1,075	1,415	2,300	1,704	1,647	1,338	1,466	884	837
<b>Mean</b>	55.1	48.2	36.9	34.7	48.8	74.2	56.8	53.1	44.6	47.3	28.5	27.9
<b>Max</b>	70	56	40	42	54	148	97	72	53	89	31	32
<b>Min</b>	50	39	32	27	44	49	32	30	37	30	27	27
<b>Ac-ft</b>	3,390	2,870	2,270	2,130	2,810	4,560	3,380	3,270	2,650	2,910	1,750	1,660

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2012, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	49.6	46.9	40.2	38.9	43.6	51.2	55.9	81.8	100	74.0	57.0	48.8
<b>Max</b>	92.5	86.0	74.3	72.6	70.8	74.2	90.8	215	383	237	124	98.7
(WY)	(1996)	(1999)	(2000)	(1999)	(2000)	(2012)	(1999)	(1998)	(1995)	(1995)	(1995)	(1995)
<b>Min</b>	27.1	26.2	17.3	18.5	25.2	28.1	37.6	42.9	39.3	29.9	28.2	27.9
(WY)	(2005)	(2008)	(1993)	(1949)	(2008)	(2008)	(1991)	(2002)	(1992)	(2007)	(2002)	(2012)

**13116500 MEDICINE LODGE CREEK NEAR SMALL, ID—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2011</b>	<b>Water Year 2012</b>			<b>Water Years 1921 - 2012</b>	
<b>Annual total</b>	22,149		16,964			
<b>Annual mean</b>	60.7		46.3		57.5	
<b>Highest annual mean</b>					109	1999
<b>Lowest annual mean</b>					34.0	2004
<b>Highest daily mean</b>	169	Jun 9	148	Mar 17	470	Jun 15, 1995
<b>Lowest daily mean</b>	23	Jan 11	27	Jan 12	4.0	Jan 5, 2004
<b>Annual seven-day minimum</b>	26	Jan 9	27	Sep 14	9.9	Jan 2, 2004
<b>Annual runoff (ac-ft)</b>	43,930		33,650		41,620	
<b>10 percent exceeds</b>	104		64		87	
<b>50 percent exceeds</b>	50		45		50	
<b>90 percent exceeds</b>	31		28		30	

