

## LITTLE MISSOURI RIVER BASIN

## 06334500 LITTLE MISSOURI RIVER AT CAMP CROOK, SD

LOCATION.--Lat 45°32'53", long 103°58'16" (revised), in SW $\frac{1}{4}$  sec.2, T.18 N., R.1 E., Harding County, Hydrologic Unit 10110201, on left bank 15 ft upstream from bridge on State Highway 20 at east edge of Camp Crook.

DRAINAGE AREA.--1,970 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--September 1903 to November 1906, May 1956 to current year. Monthly discharge only for some periods, published in WSP 1309.

REVISED RECORDS.--WSP 1309: 1904. WSP 1729: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 3,108.98 ft above NGVD of 1929. Sept. 2, 1903, to Nov. 30, 1906, nonrecording gage at site 0.5 mi upstream at different datum. May 1956 to Oct. 8, 1957, nonrecording gage at site 15 ft downstream, and Oct. 9, 1957, to Sept. 30, 1976, water-stage recorder at present site both at datum 2.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Small diversions upstream from station for irrigation. Satellite data-collection platform at station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1952 reached a stage of about 18 ft, present datum, from local residents.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	e6.6	e5.0	e3.3	e1.2	217	7.9	3.6	27	1.7	0.06	3.5
2	1.4	e6.3	e4.9	e3.1	e1.2	215	7.1	3.6	24	33	3.9	2.3
3	1.4	e6.2	e4.9	e2.4	e1.3	231	6.4	4.5	13	18	84	2.3
4	1.4	e6.1	e4.8	e1.9	e1.2	197	5.9	4.8	5.2	9.5	132	2.7
5	1.4	e6.0	e4.6	e1.7	e1.0	159	6.1	5.0	2.9	13	321	3.7
6	1.6	e5.9	e4.6	e1.5	e0.90	142	4.9	4.6	1.5	14	783	4.1
7	1.7	e5.8	e4.6	e1.4	e1.0	113	4.0	3.7	4.3	8.9	308	2.1
8	1.7	e5.6	e4.6	e1.4	e1.1	128	3.9	3.8	3.0	49	118	1.5
9	2.1	e5.5	e4.5	e1.5	e1.1	153	3.9	3.3	1.3	683	82	1.1
10	2.4	e5.1	e4.4	e1.6	e1.2	173	3.9	2.8	2.3	416	72	0.89
11	2.3	e4.9	e4.3	e1.7	e1.2	262	3.7	2.8	3.2	180	54	0.88
12	3.0	e4.7	e4.4	e1.8	e1.2	146	3.5	2.8	2.6	93	40	0.82
13	3.1	e4.5	e4.7	e1.9	e1.2	234	3.8	2.8	2.2	53	31	1.2
14	3.5	e4.3	e4.6	e1.9	e1.3	145	4.0	2.9	2.1	36	24	1.7
15	4.0	e4.4	e4.5	e1.9	e1.3	91	4.0	2.8	2.9	19	18	3.6
16	4.7	e4.5	e4.7	e1.9	e1.4	80	3.9	3.6	2.1	11	14	11
17	5.0	4.9	e4.8	e1.8	e1.6	77	4.4	6.5	1.9	7.0	13	3.8
18	4.7	4.9	e4.8	e1.7	e1.8	57	4.2	20	2.1	3.3	10	1.9
19	4.4	4.8	e4.7	e1.7	e2.0	43	4.0	8.9	2.0	1.9	8.8	0.90
20	4.1	4.7	e4.6	e1.8	e3.0	35	4.0	5.4	1.9	2.6	6.9	1.0
21	4.9	e4.7	e4.6	e1.9	e4.0	30	4.1	6.1	2.0	0.29	5.7	1.3
22	5.3	e4.7	e4.3	e2.0	e7.0	27	3.9	5.2	2.1	0.22	5.0	1.4
23	6.1	e4.7	e4.1	e1.9	e25	29	4.2	5.1	1.5	1.7	6.4	1.2
24	5.9	e4.7	e3.9	e1.7	e100	23	4.1	4.6	1.0	1.2	14	0.88
25	6.6	e4.7	e3.9	e1.4	e90	20	3.4	46	0.99	0.61	6.3	0.69
26	7.1	e4.6	e3.8	e1.3	118	17	3.4	397	0.89	0.34	4.1	0.61
27	7.6	e4.5	e3.7	e1.2	245	18	3.5	214	0.62	0.19	3.2	0.65
28	7.2	e4.5	e3.6	e1.0	223	18	3.7	94	0.53	0.16	2.9	0.74
29	e7.0	e4.6	e3.6	e1.1	336	14	3.8	64	0.52	0.12	2.9	0.93
30	e6.9	e5.0	e3.5	e1.1	---	12	3.9	44	0.49	0.10	8.0	1.2
31	e6.8	---	e3.4	e1.1	---	9.8	---	31	---	0.08	5.7	---
TOTAL	126.9	152.4	135.4	53.6	1,175.20	3,115.8	131.5	1,009.2	118.14	1,657.91	2,187.86	60.59
MEAN	4.09	5.08	4.37	1.73	40.5	101	4.38	32.6	3.94	53.5	70.6	2.02
MAX	7.6	6.6	5.0	3.3	336	262	7.9	397	27	683	783	11
MIN	1.4	4.3	3.4	1.0	0.90	9.8	3.4	2.8	0.49	0.08	0.06	0.61
AC-FT	252	302	269	106	2,330	6,180	261	2,000	234	3,290	4,340	120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1905, 1957 - 2004, BY WATER YEAR (WY)

MEAN	55.1	12.6	6.70	7.31	81.6	336	199	325	249	94.2	41.0	29.5
MAX	876	103	34.9	59.7	1,112	2,121	1,198	1,894	1,107	961	537	244
(WY)	(1972)	(1972)	(1972)	(1974)	(1996)	(1978)	(1971)	(1978)	(1967)	(1905)	(1906)	(1905)
MIN	0.29	0.00	0.00	0.00	0.00	1.95	1.97	1.12	0.11	0.00	0.00	0.61
(WY)	(1905)	(1905)	(1905)	(1905)	(1969)	(1992)	(1981)	(1992)	(1961)	(1961)	(1904)	(1958)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1904-1905, 1957-2004	
ANNUAL TOTAL	4,170.76		9,924.50		<sup>a</sup> 120	
ANNUAL MEAN	11.4		27.1		492	
HIGHEST ANNUAL MEAN					4.68 1978	
LOWEST ANNUAL MEAN					8,560 1961	
HIGHEST DAILY MEAN	400	Mar 20	783	Aug 6	8,560	Mar 24, 1978
LOWEST DAILY MEAN	0.39	Aug 26	0.06	Aug 1	<sup>b</sup> 0.00	Jul 31, 1904
ANNUAL SEVEN-DAY MINIMUM	0.44	Aug 12	0.15	Jul 26	0.00	Jul 31, 1904
MAXIMUM PEAK FLOW			1,020	Aug 6	9,420	Mar 24, 1978
MAXIMUM PEAK STAGE			6.89	Aug 6	16.90	Mar 24, 1978
ANNUAL RUNOFF (AC-FT)	8,270		19,690		87,040	
10 PERCENT EXCEEDS	19		78		226	
50 PERCENT EXCEEDS	4.0		4.1		10	
90 PERCENT EXCEEDS	0.63		1.1		1.2	

- a Median of annual mean discharges, 98 ft<sup>3</sup>/s.
- b No flow at times in some years.
- c Estimated.

