

MEDICINE CREEK above Harry Strunk Lake, 06841000

LOCATION.--SW1/4 Sec. 7-6-26 W., Frontier County, Lat. 40°30'10", Long. 100°19'20", on right bank 3.75 miles southeast of Stockville and 13.5 miles upstream from Medicine Creek Dam.

DRAINAGE AREA.--770 square miles, of which approximately 530 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Datum of gage is 2,380.94 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1950 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records are good, except discharges above 125 cubic feet per second are fair and estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 11,600 cubic feet per second June 21, 1967, gage height 20.05 feet; minimum daily discharge 7.1 cubic feet per second August 8, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharge 57 cubic feet per second April 3, gage height 4.89 feet; minimum daily discharge 11 cubic feet per second July 20.

DISCHARGE (CFS), WATER YEAR 2006

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	23	35	47e	44	43	46	48	41	27	19	12	20
2	23	35	52e	44	44	46	46	41	27	18	12	20
3	23	35	57e	46	44	46	51	39	26	21	13	20
4	23	35	53e	46	44	46	47	39	26	22	13	20
5	23	36	47e	45	44	46	44	39	26	20	12	20
6	23	36	42e	44	44	46	44	39	28	19	12	20
7	24	36	37e	44	43	46	46	40	28	19	13	19
8	25	36	32e	44	44	46	45	41	26	17	16	20
9	26	35	35e	44	44	46	47	40	25	19	16	21
10	28	35	37e	43	44	46	47	39	24	19	19	23
11	30	36	42e	43	44e	45	47	38	25	19	20	26
12	33	36	46e	43	37e	44	45	37	26	17	19	30
13	35	36	51e	43	41e	44	43	36	26	17	21	29
14	35	36	49e	43	42	44	43	36	25	16	26	28
15	34	36	48e	43	42	43	43	35	24	15	35	26
16	32	36	46e	43	42e	43	42	35	25	14	24	24
17	32	36	44e	43	36e	42e	42	34	28	13	22	23
18	31	36	41e	43	29e	37e	41	34	31	13	21	22
19	32	36	40e	43	25e	35e	40	33	37	12	19	21
20	36	36	39e	43	25e	31e	40	32	37	11	18	22
21	38	37	42e	43	29e	28e	40	31	33	16	19	23
22	38	36	51e	42	36e	28e	39	30	28	20	17	25
23	36	37	51e	43	40e	27e	39	30	26	19	16	29
24	35	36	54e	41	42e	24e	40	29	27	18	15	31
25	35	37	50e	41	42	28e	40	29	26	17	15	31
26	34	37	54e	42	44	30e	41	29	27	16	16	29
27	35	38e	47	42	45	39e	42	28	24	15	16	27
28	34	33e	46	43	45	46e	42	27	23	14	19	26
29	35	33e	46	43	---	48e	41	26	21	13	20	26
30	35	41e	45	43	---	53	41	27	20	12	20	25
31	35	---	45	43	---	51	---	27	---	12	19	---
TOTAL	961	1079	1416	1340	1124	1270	1296	1061	802	512	555	726
MEAN	31.0	35.9	45.7	43.3	40.1	40.8	43.2	34.2	26.8	16.5	17.9	24.2
MAX	38	41	57	46	45	53	51	41	37	22	35	31
MIN	23	33	32	41	25	24	39	26	20	11	12	19
AC-FT	1906	2140	2809	2658	2229	2519	2571	2104	1591	1016	1101	1440
CAL YEAR 2005	TOTAL		15005	MEAN	41.1	MAX	391.0	MIN	13.0	AC-FT	29760	
WTR YEAR 2006	TOTAL		12142	MEAN	33.3	MAX	57.0	MIN	11.0	AC-FT	24080	

e indicates estimated discharge.

REPUBLICAN RIVER BASIN

MEDICINE CREEK below Harry Strunk Lake, 06842500

LOCATION.--Center of Sec. 25-5-26 W., Frontier County, Latitude 40° 22' 20", Longitude 100° 13' 20",
On left bank 0.5 mile downstream from Medicine Creek Dam and 6.5 miles northwest of Cambridge.

DRAINAGE AREA.--880 square miles, of which 640 square miles contributes directly to surface runoff.
This drainage controlled by Medicine Creek Dam 1/2 mile upstream.

GAGE.--Continuous stage recorder. Datum of gage is 2295.26 feet National Geodetic Vertical Datum of
1929 (U.S.B.R. benchmark).

PERIOD OF RECORD.--1949 - present (Monthly discharge only for some periods, published in WSP 1730).

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records above 10 cubic feet per
second are good, records between 4 and 10 cubic feet per second are fair, records below 4 cubic
feet per second and estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 1,300 cubic feet per second March 23, 1960, gage height
5.97 ft. No flow September 11, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharge 317 cubic feet per second July 20, gage height 3.29 feet;
minimum daily discharge 0.05 cubic feet per second September 7.

DISCHARGE (CFS), WATER YEAR 2006

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.4	0.62	4.6	0.34	0.50	0.77	0.50	0.43	0.71	191	180	11
2	0.88	0.69	3.8	0.35	0.42	0.50	0.79	0.47	0.64	191	136	0.76
3	0.68	1.3	1.4	0.35	0.42	0.72	0.77	0.87	1.00	196	141	0.26
4	0.44	1.8	0.75	0.33	0.46	1.4	0.65	1.3	1.6	202	128	0.20
5	0.50	2.4	0.50	0.33	0.67	2.2	1.3	1.4	3.2	233	124	0.11
6	2.5	3.3	0.39	0.33	0.93	2.9	2.0	1.4	4.1	257	131	0.07
7	2.5	4.5	0.37	0.34	0.99	3.2	2.7	1.5	4.1	228	112	0.05
8	2.6	5.2	0.36	0.36	1.7	3.7	2.8	1.5	3.7	227	87	0.13
9	2.7	5.5	0.34	0.33	2.5	3.1	2.8	1.4	3.7	240	74	0.31
10	2.2	6.7	0.34	0.33	3.1	3.1	2.8	1.3	3.8	243	85	0.64
11	2.1	7.1	0.35	0.36	3.0	3.1	2.9	1.3	3.8	215	85	0.80
12	1.1	6.5	0.36	0.37	3.0	1.6	2.9	1.3	3.8	204	85	0.87
13	0.61	6.2	0.36	0.36	3.1	1.3	3.1	1.3	3.5	186	94	0.82
14	0.41	7.2	0.36	0.36	3.3	1.9	3.4	1.3	3.3	154	111	0.74
15	0.54	5.7	0.34	0.36	3.1	2.4	3.4	1.3	2.9	147	131	0.58
16	0.86	7.4	0.32	0.40	2.9	2.6	3.4	1.3	3.9	170	151	0.46
17	0.55	8.2	0.31	0.45	2.9	1.6	3.3	1.3	6.9	226	136	0.12
18	0.55	8.3	0.31	0.38	2.9	1.1	3.2	1.2	5.4	266	102	0.06
19	0.90	6.1	0.32	0.36	2.9	1.2	3.6	1.1	4.7	298	97	0.08
20	1.5	5.9	0.32	0.33	2.9	1.5	4.3	0.97	5.0	307	92	0.06
21	1.8	6.9	0.31	0.31	2.9	1.6	4.7	0.91	5.0	208	100	0.10
22	2.3	8.0	0.33	0.37	2.9	1.4	4.6	0.96	4.8	158	110	0.14
23	2.7	8.3	0.35	0.45	2.9	1.4	3.9	0.96	4.3	139	119	0.07
24	2.9	7.8	0.36	0.38	3.0	1.5	3.9	0.94	5.6	130	119	0.06
25	2.6	8.2	0.36	0.35	2.9	1.6	3.6	0.88	47	159	98	0.07
26	1.3	8.4	0.36	0.38	2.9	1.9	3.4	0.88	123	216	98	0.09
27	0.98	8.3	0.35	0.50	2.9	2.1	1.5	0.83	135	259	114	0.14
28	0.98	5.4	0.35	0.70	1.4	0.94	1.3	0.70	146	241	144	0.19
29	0.98	4.5	0.34	1.1	---	0.66	0.74	0.63	184	230	149	0.28
30	1.1	4.6	0.34	1.1	---	0.60	0.48	0.88	201	227	156	0.28
31	0.83	---	0.33	0.64	---	0.43	---	0.86	---	219	130	---
TOTAL	43.99	171.01	19.98	13.4	63.49	54.02	78.73	33.37	925.45	6567	3619	19.54
MEAN	1.4	5.7	0.64	0.43	2.3	1.7	2.6	1.1	30.9	211.8	116.8	0.64
MAX	2.9	8.4	4.6	1.1	3.3	3.7	4.7	1.5	201	307	180	11
MIN	0.41	0.62	0.31	0.31	0.42	0.43	0.48	0.43	0.64	130	74	0.05
AC-FT	87	339	40	27	126	107	156	66	1836	13030	7178	39
CAL YEAR 2005	TOTAL		10252	MEAN	28.1	MAX	223.0	MIN	0.18	AC-FT	20340	
WTR YEAR 2006	TOTAL		11609	MEAN	31.8	MAX	307.0	MIN	0.050	AC-FT	23030	