

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 16,900 cubic feet per second May 30, 2007, gage height 20.84 feet; minimum daily discharge 7.1 cubic feet per second August 8, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharge 16,900 cubic feet per second May 30, gage height 20.84 feet; minimum daily discharge 24 cubic feet per second estimated January 3.

DISCHARGE (CFS), WATER YEAR 2007

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	25	32	32e	30e	35e	77	56	61	1190	44	50	38
2	26	31	34e	25e	33e	72	54	57	811	43	53	37
3	26	32	33e	24e	32e	68	49	54	591	42	50	37
4	25	32	33e	28e	38e	64	46	53	428	42	47	36
5	26	32	35e	40e	41e	62	46	53	342	108	45	35
6	27	32	38e	33e	42e	62	46	69	289	166	44	36
7	26	34	34e	34e	43e	67	46	69	237	166	324	36
8	27	36	33e	45e	45e	67	47	58	164	89	231	35
9	30	33	33e	50e	44e	67	48	55	121	315	83	36
10	31	32	33e	44e	43e	68	48	51	98	472	57	39
11	32	31	31e	42e	45e	66	49	48	89	250	50	40
12	35	36	33e	41e	48e	62	49	46	86	191	47	43
13	36	34	35	45e	41e	59	51	44	87	144	46	41
14	36	33	34	44e	35e	58	51	43	106	102	45	40
15	34	33	35	44e	39e	56	52	42	123	75	44	39
16	33	33	35	36e	52e	54	50	41	99	58	44	38
17	34	33	35	35e	94e	52	48	40	81	50	43	38
18	34	33	35	39e	199	51	47	39	73	46	42	38
19	40	34	45	45e	490	50	46	39	71	45	41	38
20	41	33	37	45e	935	50	45	38	70	44	40	38
21	37	33	43	40e	763	50	45	38	63	44	40	37
22	35	34	50	51e	436	49	54	40	62	42	39	37
23	34	34	54	46e	267	49	56	51	59	43	40	37
24	33	34	51	60e	295	50	165	49	55	41	39	36
25	33	34	56	47e	186	52	178	42	52	40	39	37
26	33	34	66	47e	161	54	185	41	49	39	39	37
27	32	34	41	47e	103	53	131	40	47	39	39	37
28	31	34	40e	36e	78	51	97	41	46	97	40	37
29	31	34e	41e	33e	---	50	82	140	45	55	40	37
30	32	30e	41e	41e	---	53	68	6690	44	58	40	38
31	32	---	36e	42e	---	60	---	1990	---	51	39	---
TOTAL	987	994	1212	1259	4663	1803	2035	10162	5678	3041	1860	1128
MEAN	31.8	33.1	39.1	40.6	166.6	58.3	67.8	327.8	189.4	98.2	60.1	37.4
MAX	41	36	66	60	935	77	185	6690	1190	472	324	43
MIN	25	30	31	24	32	49	45	38	44	39	39	35
AC-FT	1958	1972	2404	2497	9249	3576	4036	20160	11260	6032	3689	2237
CAL YEAR 2006	TOTAL		11879	MEAN	32.5	MAX	66.0	MIN	11.0	AC-FT	23560	
WTR YEAR 2007	TOTAL		34822	MEAN	95.4	MAX	6690	MIN	24.0	AC-FT	69070	

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 787 cubic feet per second June 3, gage height 4.32 feet;
minimum daily discharge 0.04 cubic feet per second October 2.

DISCHARGE (CFS), WATER YEAR 2007

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.09	0.18	1.0	0.58	0.55	0.81	44	38	665	231	191	0.30
2	0.04	0.54	0.88	0.51	0.53	0.79	43	38	743	240	190	0.38
3	0.10	0.51	0.75	0.51	0.52	0.74	43	38	777	239	189	0.53
4	0.29	0.45	0.68	0.52	0.53	0.74	43	39	744	238	188	0.52
5	0.48	0.50	0.61	0.53	0.54	0.77	44	39	669	241	187	0.32
6	0.69	0.55	0.64	0.51	0.57	0.78	43	40	606	172	186	0.33
7	0.83	0.71	0.51	0.50	0.58	0.78	43	40	556	134	187	0.53
8	0.97	0.92	0.33	0.51	0.59	0.78	43	40	505	135	187	0.68
9	0.80	0.82	0.23	0.56	0.58	31	44	40	458	180	188	0.80
10	0.75	0.83	0.44	0.53	0.59	43	44	40	414	194	188	1.3
11	1.0	0.77	0.37	0.51	0.61	43	44	40	377	203	188	1.0
12	0.77	0.81	0.30	0.48	0.63	43	43	40	342	205	127	0.55
13	0.60	0.77	0.31	0.47	0.63	43	44	38	315	204	12	0.38
14	0.45	0.69	0.35	0.52	0.61	43	43	39	296	200	1.1	0.28
15	0.50	0.33	0.33	0.55	0.61	43	43	38	273	195	0.78	0.32
16	0.44	0.19	0.30	0.59	0.64	43	44	36	253	194	0.48	0.34
17	0.74	0.47	0.32	0.61	0.67	43	44	36	232	195	0.32	0.37
18	0.85	0.61	0.31	0.58	0.71	43	44	35	218	192	0.18	0.29
19	0.92	0.93	0.31	0.55	0.74	43	43	34	199	194	0.14	0.27
20	0.85	1.1	0.77	0.56	0.76	43	44	34	181	197	0.18	0.34
21	0.79	0.77	0.73	0.61	0.78	43	44	32	166	197	0.18	0.38
22	0.75	0.60	0.50	0.57	0.79	43	47	34	157	197	0.27	0.55
23	0.55	0.92	0.42	0.55	0.79	43	46	35	148	197	0.49	0.60
24	0.26	1.0	0.40	0.55	1.1	44	31	35	138	197	0.52	0.59
25	0.70	0.93	0.38	0.55	0.98	43	25	33	206	197	0.50	0.35
26	0.89	1.0	0.37	0.57	0.88	44	31	33	241	196	0.52	0.23
27	0.90	1.1	0.41	0.56	0.83	45	35	33	239	195	0.43	0.20
28	0.84	1.2	0.42	0.53	0.83	44	37	32	239	195	0.48	0.17
29	0.81	1.1	0.74	0.53	---	44	37	34	240	194	0.45	0.18
30	0.62	1.1	0.97	0.53	---	44	37	91	230	193	0.43	0.76
31	0.21	---	0.81	0.54	---	44	---	449	---	192	0.33	---
TOTAL	19.48	22.4	15.89	16.77	19.17	991.19	1240	1603	10827	6133	2215.78	13.84
MEAN	0.63	0.75	0.51	0.54	0.68	31.9	41.4	51.7	360.9	197.9	71.4	0.46
MAX	1.0	1.2	1.0	0.61	1.1	45	47	449	777	241	191	1.3
MIN	0.04	0.18	0.23	0.47	0.52	0.74	25	32	138	134	0.14	0.17
AC-FT	39	44	32	33	38	1966	2460	3180	21480	12160	4395	27
CAL YEAR 2006	TOTAL		11432	MEAN	31.3	MAX	307.0	MIN	0.040	AC-FT	22670	
WTR YEAR 2007	TOTAL		23118	MEAN	63.3	MAX	777.0	MIN	0.040	AC-FT	45850	