

## REPUBLICAN RIVER BASIN

## 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 15,400 cubic feet per second May 24, gage height 20.45 feet; minimum daily discharge 35 cubic feet per second September 1, 3 - 4.

## DISCHARGE ( CFS ), WATER YEAR 2008

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	37	39	45	49e	48e	54	50	56	153	76	41	35
2	37	39	44e	46e	49e	55	49	55	138	72	40	36
3	37	39	44e	43e	49e	55	50	54	129	68	39	35
4	37	39	44	41e	49	55	51	54	117	66	38	35
5	37	40	44	45e	49e	54	52	54	533	64	39	36
6	37	40	45	46e	47e	53	52	52	205	62	45	38
7	37	40	46	46e	48e	52	52	67	129	61	47	41
8	36	40	46e	47e	48e	52	52	66	93	176	45	42
9	38	41	46e	48e	50	51	52	53	75	84	45	42
10	37	41	47e	49e	50e	51	56	137	66	68	45	43
11	37	41	46e	51	49e	51	58	160	61	64	45	42
12	37	41	45e	50	49	52	63	98	59	60	48	42
13	38	42	46e	50	50	53	64	68	57	56	48	43
14	39	42	46e	50	51	53	61	55	55	54	58	42
15	40	41	46e	50	50	53	58	48	54	54	47	41
16	42	42	48e	50e	50	53	56	44	54	53	43	40
17	43	43	50e	47e	51	54	55	42	54	71	45	39
18	43	43	53e	49e	51	53	54	39	129	94	43	38
19	42	43	57e	48e	51	53	54	38	261	107	42	37
20	41	43	59e	47e	51	56	54	36	179	82	42	37
21	40	43	59e	46e	51	56	54	34	121	60	42	37
22	39	43	58e	44e	51	55	53	58	127	52	42	37
23	39	43	56e	48e	51	54	52	1890	75	48	40	36
24	39	43	58e	46e	51	53	53	6420	311	46	40	36
25	39	43	57e	48e	52	52	62	843	901	46	39	36
26	39	44	54e	50e	52	51	77	441	375	46	41	36
27	39	44	52e	50e	53	51	68	315	244	44	38	36
28	39	44	50e	50e	52	51	63	289	148	43	37	36
29	39	44	50e	50e	53	51	60	270	100	41	37	36
30	39	44	48e	50e	---	50	58	221	79	42	37	36
31	39	---	47e	49e	---	50	---	173	---	42	36	---
TOTAL	1202	1254	1536	1483	1456	1637	1693	12230	5082	2002	1314	1146
MEAN	38.8	41.8	49.6	47.7	50.3	52.8	56.4	394.6	169.5	64.6	42.3	38.2
MAX	43	44	59	51	53	56	77	6420	901	176	58	43
MIN	36	39	44	41	47	50	49	34	54	41	36	35
AC-FT	2384	2487	3047	2941	2888	3247	3358	24260	10080	3971	2606	2273
CAL YEAR 2007	TOTAL		35621	MEAN	97.6	MAX	6690	MIN	24.0	AC-FT	70650	
WTR YEAR 2008	TOTAL		32035	MEAN	87.5	MAX	6420	MIN	34.0	AC-FT	63540	

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 5 and 10 cubic feet per second are fair, records below 5 cubic  
feet per second 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 1,080 cubic feet per second May 25, gage height 5.65 feet;  
minimum daily discharge 0.25 cubic feet per second September 21.

## DISCHARGE ( CFS ), WATER YEAR 2008

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.94	0.72	34	52	46	58	52	1.2	527	180	158	123
2	0.57	0.64	33	52	46	58	52	4.1	484	167	152	128
3	0.34	0.60	33	52	46	58	53	5.8	448	153	157	111
4	0.41	0.62	42	52	45	58	52	5.4	412	142	190	99
5	0.53	9.0	46	52	45	58	53	5.9	393	134	204	31
6	0.39	39	47	52	45	58	54	6.6	398	148	196	30
7	0.36	38	47	51	45	58	54	9.6	375	149	183	28
8	0.31	34	47	51	45	59	54	11	350	149	151	10
9	0.30	32	47	51	45	59	53	14	319	148	108	1.3
10	0.32	32	47	51	45	59	54	24	291	142	58	1.4
11	0.30	32	47	49	46	59	53	32	269	133	18	1.7
12	0.33	32	48	48	47	59	53	39	246	127	4.2	1.4
13	0.37	32	48	48	46	59	53	43	226	124	3.3	1.6
14	0.46	32	48	48	45	57	53	43	208	132	3.0	0.92
15	0.48	33	48	48	54	52	53	44	193	134	2.8	0.95
16	0.46	33	48	47	58	53	52	44	181	132	4.1	1.4
17	0.52	33	49	47	58	53	53	45	169	140	28	1.4
18	0.58	33	49	47	58	52	52	44	163	127	85	1.4
19	0.52	33	49	47	58	52	52	45	173	114	91	1.0
20	0.50	33	49	48	58	52	52	44	179	122	113	0.31
21	0.49	33	49	48	58	52	52	44	176	169	128	0.25
22	0.45	33	50	48	58	52	52	47	171	184	93	0.30
23	0.47	33	50	48	58	52	20	122	160	194	72	0.42
24	0.57	33	50	48	58	52	1.6	637	154	199	62	0.75
25	0.60	33	50	47	58	52	1.4	1060	171	143	44	0.77
26	0.64	33	50	47	58	53	1.3	1000	213	92	38	0.63
27	0.88	33	51	47	58	53	1.4	896	227	85	34	0.63
28	1.1	33	51	47	58	53	1.5	797	222	98	34	0.81
29	1.3	33	51	46	58	53	1.2	722	208	121	51	0.70
30	0.93	33	51	46	---	53	0.99	656	193	127	63	0.42
31	0.92	---	52	46	---	53	---	578	---	159	77	---
TOTAL	17.34	842.58	1461	1511	1503	1709	1190.39	7069.6	7899	4368	2605.4	580.46
MEAN	0.56	28.3	47.2	48.7	51.8	55.2	39.7	228.3	263.2	141.0	84.1	19.4
MAX	1.3	39	52	52	58	59	54	1060	527	199	204	128
MIN	0.30	0.60	33	46	45	52	0.99	1.2	154	85	2.8	0.25
AC-FT	34	1671	2898	2997	2981	3390	2361	14020	15670	8664	5168	1151
CAL YEAR 2007	TOTAL		25381	MEAN	69.5	MAX	777.0	MIN	0.14	AC-FT	50340	
WTR YEAR 2008	TOTAL		30757	MEAN	84.0	MAX	1060	MIN	0.25	AC-FT	61010	