

# REPUBLICAN RIVER BASIN

**MEDICINE CREEK above Harry Strunk Lake, 06841000 - 2001**

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 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 9.1 cubic feet per second August 9, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge 267 cubic feet per second March 3, gage height 7.11 feet; minimum daily discharge 16 cubic feet per second August 9.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2000 TO SEP 2001

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	113	46	46E	46	50	55	54	45	26	26	21
2	26	61	45	45E	45E	62	54	54	44	25	24	21
3	27	51	44	44E	44E	154	53	52	49	28	26	20
4	26	46	44	43E	43E	197	53	59	47	33	24	20
5	27	44	44	44E	43E	142	53	86	49	31	22	20
6	27	43	44	45E	43E	87	54	110	49	30	21	20
7	28	41	45	44E	44E	68	63	103	48	28	19	22
8	29	41	45	43E	45E	64	87	83	46	28	18	24
9	29	40	46	44E	46E	65	70	72	43	27	16	27
10	30	40	44E	45	47	64	64	65	41	28	17	29
11	30	39E	43E	45	46E	65	62	59	40	28	18	27
12	31	38E	43E	45	45E	61	63	55	38	27	17	27
13	32	37E	42E	47	44E	60	64	53	37	30	17	26
14	32	38E	42E	49	45E	59E	61	51	37	29	46	26
15	32	39E	41E	50E	46E	58E	59	49	36	30	111	26
16	32	40E	40E	49E	47E	57E	56	47	36	29	129	27
17	32	41E	41E	48E	48E	58E	53	46	35	30	71	36
18	32	42E	41E	47E	47E	59E	52	44	34	29	41	61
19	32	41E	42E	46E	45E	60E	51	43	34	25	33	54
20	32	40E	43E	45E	43E	61	51	44	33	26	29	62
21	32	41E	43E	45E	45	60	50	43	34	25	27	57
22	34	42E	44E	46E	45	60	79	42	33	25	25	46
23	34	43E	43E	47E	46	62	114	41	33	26	25	38
24	38	42E	42E	48	53	61	155	41	32	38	28	34
25	38	41E	41E	48	52	60	96	41	31	34	28	32
26	38	42E	40E	48	51E	58	73	41	30	36	26	31
27	37	44E	41E	47	51E	57	64	41	29	34	26	31
28	67	45E	42E	47	50E	55	59	42	28	32	25	31
29	75	46	43E	47	-----	55	55	42	27	32	23	30
30	78	46	44E	47	-----	55	55	43	26	29	22	30
31	83	-----	45E	47	-----	55	-----	44	-----	27	21	-----
TOTAL	1,147	1,347	1,333	1,431	1,295	2,189	1,978	1,690	1,124	905	1,001	956
MEAN	37.0	44.9	43.0	46.2	46.3	70.6	65.9	54.5	37.5	29.2	32.3	31.9
MAX	83	113	46	50	53	197	155	110	49	38	129	62
MIN	26	37	40	43	43	50	50	41	26	25	16	20
AC-FT	2,280	2,670	2,640	2,840	2,570	4,340	3,920	3,350	2,230	1,800	1,990	1,900
CAL YEAR 2000 TOTAL		15,562	MEAN	42.5	MAX	216	MIN	16	AC-FT	30,870		
WTR YEAR 2001 TOTAL		16,396	MEAN	44.9	MAX	197	MIN	16	AC-FT	32,520		

E indicates estimated Discharge.

# REPUBLICAN RIVER BASIN

**MEDICINE CREEK below Harry Strunk Lake, 06842500 - 2001**

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 285 cubic feet per second August 6, gage height 2.53 feet; minimum daily discharge 0.17 cubic feet per second September 6.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2000 TO SEP 2001

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	.50	.64	.52	.49	.77	51	6.1	30	202	231	.27
2	1.4	.45	.71	.51	.49	.79	51	8.1	30	216	261	.21
3	1.4	.41	.75	.47	.49	.92	51	7.9	33	199	251	.19
4	1.2	.36	.58	.49	.49	.87	51	14	34	182	246	.20
5	1.7	.49	.55	.51	.49	.74	51	23	33	136	252	.19
6	2.5	.60	.49	.49	.49	.54	52	26	33	115	279	.17
7	2.6	.83	.49	.49	.49	.60	53	29	34	111	277	.21
8	2.7	.92	.49	.49	.49	.66	54	30	26	117	268	.37
9	2.5	.89	.49	.49	.49	.71	54	32	16	172	243	.27
10	2.9	.87E	.49	.49	.49	.97	55	32	17	215	168	.23
11	2.7	.85E	.49	.53	.49	1.0	55	32	16	215	178	.22
12	2.4	.84E	.49	.66	.49	1.2	52	32	16	210	190	.20
13	1.9	.86	.47E	.66	.49	1.6	53	33	11	203	177	.20
14	2.2	.86	.45E	.66	.57	1.9	53	33	2.0	202	134	.20
15	2.1	.85	.43E	.66	.66	2.1	53	33	1.2	209	103	.32
16	2.1	.67	.45E	.66	.66	2.1	53	32	.94	226	77	.25
17	2.2	.65	.47E	.66	.67	2.0	52	31	34	232	73	.34
18	2.4	.58	.49	.66	.66	2.5	52	30	102	258	69	.38
19	2.9	.66	.49	.66	.81	26	52	30	123	255	93	.32
20	2.0	.78	.52	.66	.82	54	52	31	151	180	183	.32
21	2.2	.97	.66	.66	.66	54	52	32	189	131	222	.29
22	2.9	.96	.66	.66	.80	53	53	30	175	140	233	.35
23	1.4	.93	.66	.69	.90	51	52	30	160	216	226	.35
24	1.4	1.1	.66	.97	1.3	51	52	28	160	178	167	.39
25	1.2	.87	.66	.97	1.0	51	52	27	157	140	121	.51
26	1.3	.82	.66	.97	.91	51	52	27	177	109	129	.36
27	1.5	.65	.66	.97	.96	51	51	27	180	78	141	.32
28	2.4	.62	.79	.97	.85	50	52	27	192	33	9.7	.38
29	1.2	.72	.66	.97	-----	50	52	28	197	38	.32	.37
30	.50	.83	.66	.49	-----	50	23	29	190	80	.32	.40
31	.68	-----	.63	.49	-----	50	-----	29	-----	146	.30	-----
TOTAL	59.88	22.39	17.79	20.23	18.60	663.97	1,541	839.1	2,520.14	5,144	5,002.64	8.78
MEAN	1.93	.75	.57	.65	.66	21.4	51.4	27.1	84.0	166	161	.29
MAX	2.9	1.1	.79	.97	1.3	54	55	33	197	258	279	.51
MIN	.50	.36	.43	.47	.49	.54	23	6.1	.94	33	.30	.17
AC-FT	119	44	35	40	37	1,320	3,060	1,660	5,000	10,200	9,920	17
CAL YEAR 2000	TOTAL	19,194.47	MEAN	52.4	MAX	300	MIN	.17	AC-FT	38,070		
WTR YEAR 2001	TOTAL	15,858.52	MEAN	43.4	MAX	279	MIN	.17	AC-FT	31,460		

E indicates estimated Discharge.