

REPUBLICAN RIVER BASIN

MEDICINE CREEK above Harry Strunk Lake, 06841000 - 1996

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.

E indicates estimated daily discharge. Estimated records January 1-13, 17-February 18, 29-March 3, 7-10, December 18-31. Records good, except estimated records 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 725 cubic feet per second July 26, gage height 12.02 feet; minimum daily discharge 31 cubic feet per second July 6.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	48E	41E	47E	59	62	149	39	49	44	51	51	53
2	46E	40E	49E	58	59	97	36	45	44	50	51	53
3	45E	40E	52E	57	58	73	35	45	44	49	51	53
4	43E	40E	53	55	56	67	35	47	43	49	52	53
5	42E	40E	53	54	55	60	33	47	42	49	52	54
6	40E	42E	53	54	54	63	31	44	41	50	52	52
7	40E	44E	52E	54	53	130	35	43	43	49	52	51
8	40E	46E	52E	54	54	78	150	40	53	50	52	53
9	44E	50E	50E	54	56	66	61	37	59	50	52	53
10	49E	53E	52E	55	55	59	48	45	54	50	52	54
11	52E	52E	53	56	55	52	45	45	46	50	52	54
12	52E	50E	55	54	55	49	44	38	43	50	52	55
13	54E	50E	56	53	54	47	42	37	41	50	52	55
14	55	50E	58	53	54	67	42	36	40	50	52	55
15	54	49E	58	54	55	125	40	36	41	50	54	55
16	54	48E	59	59	56	84	44	59	49	50	55	55
17	48E	49E	58	60	54	67	46	69	57	49	58	54
18	44E	50E	57	59	51	64	44	57	151	50	54	50E
19	40E	54	57	57	48	59	42	52	205	52	54	49E
20	42E	55	58	54	47	54	78	51	211	53	55	48E
21	43E	57	57	53	46	58	87	46	154	51	55	50E
22	45E	55	55	52	46	52	85	55	118	51	55	52E
23	45E	53	55	52	47	51	79	117	88	51	53	50E
24	44E	51	56	53	50	49	64	86	67	51	53	48E
25	43E	53	53	52	50	46	76	66	65	52	54	47E
26	43E	53	50	50	62	45	323	52	65	51	52	45E
27	42E	52	58	50	92	42	146	47	64	51	51	43E
28	43E	49	57	53	123	41	121	44	59	51	50	45E
29	43E	48E	57	57	115	40	106	43	54	51	50	46E
30	44E	-----	57	64	96	41	91	43	53	50	51	48E
31	43E	-----	58	-----	101	-----	71	44	-----	51	-----	50E
TOTAL	1,410	1,414	1,695	1,649	1,919	1,975	2,219	1,585	2,140	1,562	1,579	1,583
MEAN	45.5	48.8	54.7	55.0	61.9	65.8	71.6	51.1	71.3	50.4	52.6	51.1
MAX	55	57	59	64	123	149	323	117	211	53	58	55
MIN	40	40	47	50	46	40	31	36	40	49	50	43
AC-FT	2,800	2,800	3,360	3,270	3,810	3,920	4,400	3,140	4,240	3,100	3,130	3,140
YEAR 1996	TOTAL	20,730	MEAN	56.6	MAX	323	MIN	31	AC-FT	41,120		

REPUBLICAN RIVER BASIN

MEDICINE CREEK below Harry Strunk Lake, 06842500 - 1996

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.

E indicates estimated daily discharge. Estimated daily discharge October 4-15, December 18 & 19. Records above 5 cubic feet per second good, estimated records fair, records below 5 cubic feet per second 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 217 cubic feet per second July 2, gage height 2.45 feet; minimum daily discharge 0.27 cubic feet per second January 1-2, June 11.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.27	.41	.35	.50	.45	.43	96	48	34	150	49	51
2	.27	.47	.35	.56	.49	.44	157	48	33	148	49	53
3	.30	.43	.35	.56	.47	.33	214	48	33	147	49	58
4	.30	.41	.38	.59	.50	.33	193	48	33	125E	49	58
5	.30	.41	.47	.60	.56	.30	190	49	33	100E	49	58
6	.30	.41	.47	.63	.53	.35	192	47	74	96E	51	60
7	.30	.43	.47	.70	.57	.29	195	48	106	96E	51	61
8	.32	.40	.47	.77	.57	.30	125	47	106	56E	51	61
9	.32	.38	.47	.75	.60	.29	65	46	106	38E	51	59
10	.36	.35	.47	.70	.50	.29	44	45	106	38E	51	59
11	.41	.35	.44	.67	.47	.27	37	45	106	38E	51	59
12	.37	.36	.47	.60	.47	.29	37	51	104	36E	52	59
13	.42	.35	.53	.62	.38	.31	37	71	105	36E	53	59
14	.41	.34	.70	.77	.38	.39	37	96	106	36E	51	60
15	.41	.35	.60	.64	.35	1.3	36	116	106	37E	51	61
16	.41	.35	.60	.54	.35	5.6	17	99	106	37	51	61
17	.42	.35	.70	.46	.34	11	1.2	89	105	38	51	61
18	.44	.35	.70	.45	.33	7.2	46	90	106	38	51	60E
19	.42	.35	.70	.49	.29	7.2	126	96	106	37	51	62E
20	.41	.35	.70	.49	.29	9.4	100	109	105	36	51	61
21	.41	.30	.80	.51	.30	11	74	107	107	36	51	61
22	.43	.33	.94	.46	.35	15	92	66	109	36	51	61
23	.46	.36	1.1	.47	.39	39	81	35	133	36	51	61
24	.44	.41	.96	.52	.35	38	52	35	148	36	51	61
25	.40	.45	.48	.50	.36	37	36	34	148	35	50	61
26	.40	.47	.48	.48	.72	36	37	34	148	35	51	61
27	.41	.43	.51	.44	.55	36	43	34	147	35	51	61
28	.41	.41	.56	.50	.41	35	44	35	146	34	51	60
29	.41	.37	.59	.45	.41	37	46	34	148	34	51	59
30	.41	-----	.68	.45	.43	51	47	34	149	43	51	59
31	.41	-----	.51	-----	.50	-----	49	34	-----	49	-----	59
TOTAL	11.75	11.13	18.00	16.87	13.66	381.31	2,546.2	1,818	3,102	1,772	1,522	1,845
MEAN	.38	.38	.58	.56	.44	12.7	82.1	58.6	103	57.2	50.7	59.5
MAX	.46	.47	1.1	.77	.72	51	214	116	149	150	53	62
MIN	.27	.30	.35	.44	.29	.27	1.2	34	33	34	49	51
AC-FT	23	22	36	33	27	756	5,050	3,610	6,150	3,510	3,020	3,660
YEAR 1996	TOTAL	13,057.92	MEAN	35.7	MAX	214	MIN	.27	AC-FT	25,900		