

Water-Data Report 2012

06857100 REPUBLICAN RIVER AT JUNCTION CITY, KS

Republican Basin
Lower Republican Subbasin

LOCATION.--Lat 39°02'34", long 96°49'45" referenced to North American Datum of 1927, in NE ¼ NW ¼ NW ¼ sec.11, T.12 S., R.5 E., Geary County, KS, Hydrologic Unit 10250017, on right bank at downstream side of Washington St. bridge, 4.7 mi downstream from Milford Dam, and at mile 3.0.

DRAINAGE AREA.--24,900 mi², of which a large area is probably noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1963 to current year. Prior to October 2006 published as "below Milford Dam."

GAGE.--Water-stage recorder. Datum of gage is 1,034.60 ft above NGVD of 1929 (U.S. Army Corps of Engineers bench mark). Oct. 1, 1963, to Nov. 19, 1997, water-stage recorder at site 3.0 mi upstream at datum 1,052.50 ft above NGVD of 1929. Nov. 20, 1997, to Aug. 21, 2007, water-stage recorder at site 0.5 mi upstream at datum 1,045.70 ft above NGVD of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow completely regulated since 1967 by Milford Lake (station 06857050), 1.7 mi upstream. Satellite telemeter at station.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
 [e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5,680	382	e176	567	300	385	567	1,980	127	32	1,390	331
2	5,610	374	176	574	275	615	559	1,970	123	31	1,270	327
3	5,630	367	e198	572	e283	1,050	565	1,960	119	31	959	328
4	5,640	379	179	571	e276	1,030	613	1,960	119	30	e399	358
5	3,140	372	e180	570	273	1,010	1,160	1,950	118	30	388	388
6	477	371	417	569	521	e985	2,060	1,950	118	30	380	391
7	433	383	662	570	823	976	2,090	1,490	117	31	377	395
8	423	408	656	569	820	970	2,090	832	116	31	373	395
9	419	381	650	366	810	959	2,090	821	115	140	372	397
10	493	370	641	47	808	945	2,090	814	115	366	380	395
11	403	368	632	36	803	938	2,100	739	e114	322	388	394
12	397	365	631	31	796	918	2,090	651	114	100	e384	420
13	395	363	636	429	800	910	1,640	639	114	e106	e378	418
14	399	360	643	801	798	897	1,110	635	119	108	368	403
15	443	362	e632	797	799	891	1,120	629	177	117	372	402
16	393	360	636	800	795	880	1,120	518	154	227	244	400
17	392	360	633	792	672	865	1,530	385	151	603	394	405
18	391	289	631	607	469	853	2,090	378	111	910	394	403
19	396	190	647	e345	458	869	2,080	e372	e35	915	394	404
20	401	183	650	e335	e452	868	2,090	e374	39	910	393	407
21	419	183	638	e332	444	851	2,090	285	57	907	390	e408
22	397	183	642	e330	442	846	2,090	143	34	1,180	388	412
23	408	182	639	323	e438	948	2,090	e135	e33	1,430	399	412
24	402	178	640	323	e435	1,070	2,080	136	33	1,420	427	410
25	396	178	639	262	e426	1,070	2,060	e132	32	1,570	446	412
26	394	e181	640	87	396	1,060	2,040	129	32	1,760	394	347
27	393	e177	637	316	386	834	2,020	e126	31	1,760	371	55
28	394	178	616	310	e387	581	2,010	125	32	1,760	330	47
29	391	176	581	307	e379	575	2,010	126	32	1,750	329	43
30	387	177	569	304	---	574	1,990	e128	32	1,750	328	42
31	388	---	567	304	---	571	---	e127	---	1,660	e328	---
Mean	1,172	293	552	424	544	864	1,711	730	88.8	710	456	345
Max	5,680	408	662	801	823	1,070	2,100	1,980	177	1,760	1,390	420
Min	387	176	176	31	273	385	559	125	31	30	244	42
Ac-ft	72,050	17,420	33,950	26,080	31,270	53,150	101,800	44,900	5,280	43,670	28,020	20,530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	732	641	768	402	532	768	910	1,108	1,207	1,348	1,037	701
Max	5,272	7,732	2,315	1,492	2,617	3,324	6,071	8,283	7,770	9,746	15,420	7,785
(WY)	(1974)	(1974)	(1974)	(1974)	(1974)	(1973)	(1987)	(1987)	(1995)	(1993)	(1993)	(1993)
Min	30.2	20.3	9.63	43.8	15.1	22.0	27.5	26.1	17.4	27.7	73.5	28.4
(WY)	(1996)	(1995)	(1995)	(1997)	(1997)	(2003)	(2005)	(2005)	(2006)	(2003)	(2011)	(2004)

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1968 - 2012	
Annual mean	1,040		659		848	
Highest annual mean					4,027	1993
Lowest annual mean					81.9	2003
Highest daily mean	9,810	Jun 4	5,680	Oct 1	33,300	Jul 26, 1993
Lowest daily mean	32	May 4	30	Jul 4	3.2	Sep 18, 1985
Annual seven-day minimum	40	Jul 28	31	Jul 2	8.9	Jan 21, 1997
Maximum peak flow			5,740	Oct 1	33,700	Jul 26, 1993
Maximum peak stage			12.43	Oct 1	22.10	Jun 22, 1964
Instantaneous low flow			27	Jan 12	2.7	Sep 18, 1985
Annual runoff (ac-ft)	752,600		478,100		614,600	
10 percent exceeds	2,870		1,690		2,100	
50 percent exceeds	397		402		306	
90 percent exceeds	45		115		36	

