

EXPLANATION

- ◀ 3850 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 07137500 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 07138000 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 3847 Lake and determination site identification number

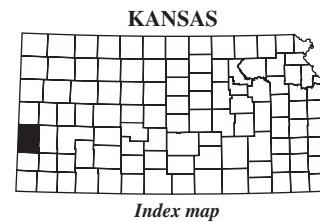


Figure 48. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Hamilton County.

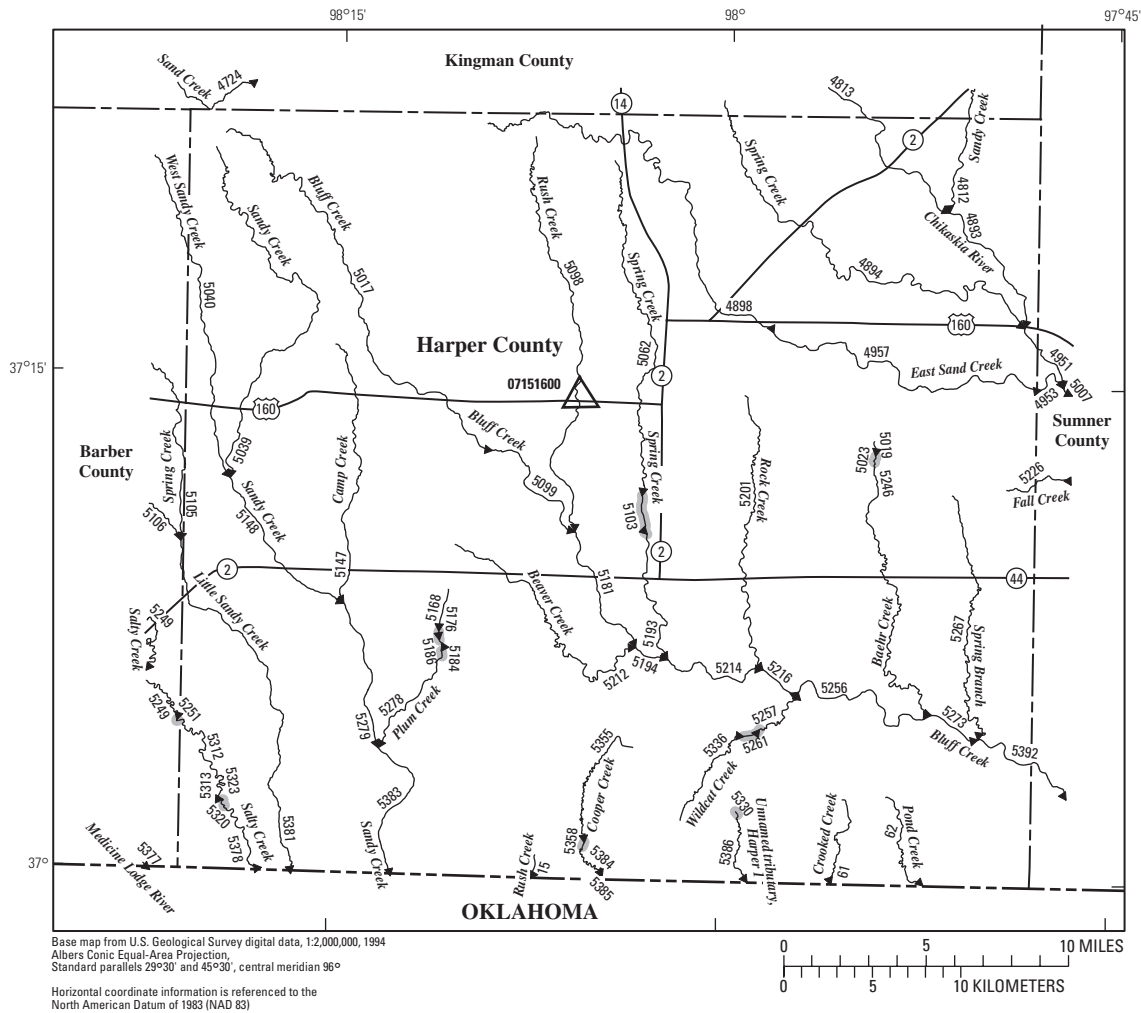
Table 44. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Hamilton County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 48)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded					
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent	
		3365	110300018	HM						West Bridge Creek	197	0	0
3366	NRDitch	HM				NRDitch	14.6	0	0	0	0	0	0
3376	NRDitch	HM				NRDitch	216	0	0	0	0	0	0
3385	110300019	HM				Arkansas River	25,000	9.30	47.0	129	242	482	
3392	110300016	HM				East Bridge Creek	174	0	0	0	0	0	0
3393	NRDitch	HM				NRDitch	174	0	0	0	0	0	0
3394	110300017	HM				Arkansas River	25,300	8.09	48.3	131	245	478	
3396	110300017	HM				Arkansas River	25,000	9.17	47.1	129	242	482	
3424	110300017	HM				Arkansas River	25,500	7.15	49.3	132	248	475	
3459	110300014	HM				Shirley Creek	206	0	0	0	0	0	0
3545	110300014	HM				Shirley Creek	213	0	0	0	0	0	0
3551	110300015	HM				Arkansas River	25,600	6.50	50.0	133	250	474	
3637	110300013	HM	KE			Arkansas River	25,900	4.96	38.4	109	229	436	
3786	110400055	HM				Dry Creek	67.0	0	0	0	0	0	0
3823	110400056	HM				North Bear Creek	233	0	0	0	0	0	0
3841	110400057	HM				Little Bear Creek	457	0	0	0	0	0	0
3847	HYDRO	HM				HYDRO	466	NA	NA	NA	NA	NA	NA
3850	110400056	HM				North Bear Creek	66.4	0	0	0	0	0	0
3855	110400057	HM				Little Bear Creek	208	0	0	0	0	0	0
3856	110400057	HM				Little Bear Creek	200	0	0	0	0	0	0
3858	110400052	HM				Wolf Creek	58.6	0	0	0	0	0	0
3860	HYDRO	HM				HYDRO	59.1	NA	NA	NA	NA	NA	NA
3899	110400057	HM	ST			Little Bear Creek	511	0	0	0	0	0	0
4037	110400057	HM	ST			Little Bear Creek	200	0	0	0	0	0	0

Table 44. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Hamilton County.—Continued[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 48)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
3365	0	312	1,150	2,170	4,100	6,090	8,580
3366	0	138	530	994	1,850	2,690	3,720
3376	0	301	1,110	2,090	3,950	5,870	8,270
3385	237	2,380	6,750	13,200	29,800	53,500	94,000
3392	0	291	1,080	2,040	3,880	5,770	8,130
3393	0	291	1,080	2,040	3,880	5,770	8,130
3394	235	2,280	6,520	15,400	33,300	56,100	93,500
3396	236	2,370	6,720	13,400	30,200	53,800	93,900
3424	234	2,200	6,340	17,000	36,100	58,000	93,100
3459	0	318	1,170	2,220	4,210	6,260	8,840
3545	0	307	1,130	2,150	4,090	6,090	8,590
3551	233	2,140	6,210	18,200	38,000	59,400	92,800
3637	217	1,770	5,400	15,400	33,000	52,400	83,400
3786	0	173	671	1,300	2,510	3,770	5,340
3823	0	297	1,120	2,150	4,140	6,200	8,810
3841	.26	497	1,770	3,320	6,240	9,250	13,000
3847	NA	NA	NA	NA	NA	NA	NA
3850	0	151	602	1,180	2,300	3,480	4,970
3855	0	302	1,120	2,130	4,060	6,060	8,560
3856	0	304	1,130	2,140	4,080	6,090	8,600
3858	0	218	783	1,460	2,710	3,990	5,540
3860	NA	NA	NA	NA	NA	NA	NA
3899	.46	513	1,830	3,430	6,450	9,560	13,500
4037	0	304	1,130	2,140	4,080	6,090	8,600



EXPLANATION

- ← 5378 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 07151600 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 07151600 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 5320 Lake and determination site identification number

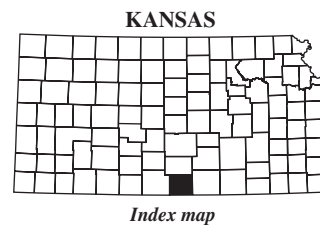


Figure 49. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Harper County.

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Table 45. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Harper County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 49)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded					
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent	
		15	1106000469	HP						Rush Creek	1.14	0	0
61	1106000424	HP				Crooked Creek	12.5	0	0	0	0	0	1.17
62	1106000418	HP				Pond Creek	15.5	0	0	.02	.28	2.08	
4812	1106000530	HP	KM			Sandy Creek	42.3	.06	.82	1.86	3.83	9.28	
4813	110600059	HP	KM			Chikaskia River	463	9.57	23.4	45.8	89.0	192	
4893	110600059	HP				Chikaskia River	526	11.2	27.2	53.4	105	228	
4894	1106000531	HP	KM			Spring Creek	47.8	.11	1.26	2.85	5.98	13.8	
4898	1106000512	HP	KM			East Sand Creek	55.7	.51	2.13	4.25	8.32	17.7	
4951	110600059	HP	SU			Chikaskia River	580	12.6	30.6	60.5	120	263	
4957	1106000512	HP	SU			East Sand Creek	86.9	.96	2.95	6.01	12.5	27.7	
5017	1106000515	HP				Bluff Creek	61.9	.34	1.74	3.57	7.10	15.5	
5019	1106000522	HP				Baehr Creek	5.45	0	0	0	0	0	
5023	HYDRO	HP				HYDRO	6.32	NA	NA	NA	NA	NA	
5039	1106000437	HP				Sandy Creek	31.4	.04	1.08	2.06	3.55	7.25	
5062	1106000547	HP				Spring Creek	33.2	0	.26	1.07	2.31	6.17	
5098	1106000545	HP				Rush Creek	47.3	.23	1.24	2.52	4.95	11.1	
5099	1106000515	HP				Bluff Creek	71.1	.62	2.18	4.29	8.48	18.3	
5103	HYDRO	HP				HYDRO	37.0	NA	NA	NA	NA	NA	
5147	1106000468	HP				Camp Creek	28.4	0	.38	.95	1.69	4.27	
5148	1106000437	HP				Sandy Creek	72.7	1.43	3.61	6.14	10.7	20.6	
5168	1106000470	HP				Plum Creek	6.53	0	0	0	0	0	
5176	HYDRO	HP				HYDRO	6.99	NA	NA	NA	NA	NA	
5181	1106000515	HP				Bluff Creek	127	1.43	3.76	7.58	15.6	34.5	
5184	1106000470	HP				Plum Creek	9.46	0	0	0	0	0	
5186	HYDRO	HP				HYDRO	9.54	NA	NA	NA	NA	NA	
5193	1106000547	HP				Spring Creek	46.9	0	.58	1.75	3.95	10.0	
5194	1106000515	HP				Bluff Creek	159	1.62	4.26	8.97	19.1	43.5	
5201	1106000523	HP				Rock Creek	39.7	0	.44	1.65	3.86	9.84	
5212	1106000546	HP				Beaver Creek	31.0	0	.01	.83	2.03	5.82	
5214	1106000515	HP				Bluff Creek	214	2.20	5.44	11.7	25.6	59.6	
5216	1106000515	HP				Bluff Creek	256	2.57	6.28	13.9	30.8	72.8	
5226	1106000514	HP	SU			Fall Creek	48.2	0	0	.93	3.23	10.7	
5246	1106000522	HP				Baehr Creek	36.1	0	.17	1.15	2.87	8.00	
5256	1106000515	HP				Bluff Creek	291	3.00	7.32	16.5	36.6	86.7	
5257	1106000524	HP				Wildcat Creek	20.9	0	.14	1.01	2.17	5.55	
5261	HYDRO	HP				HYDRO	15.9	NA	NA	NA	NA	NA	
5267	1106000521	HP				Spring Branch	28.7	0	0	.22	1.04	4.51	
5273	1106000515	HP				Bluff Creek	331	3.39	8.08	18.4	41.4	99.5	

Table 45. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Harper County.—Continued[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 49)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
15	0	181	430	654	1,000	1,300	1,640
61	2.58	781	1,920	2,970	4,640	6,070	7,730
62	3.44	908	2,220	3,440	5,370	7,030	8,960
4812	8.84	1,570	3,470	5,160	7,700	9,900	12,300
4813	115	4,290	9,510	14,100	21,000	26,900	33,400
4893	136	5,030	11,100	16,300	24,200	31,000	38,300
4894	11.6	1,320	3,050	4,650	7,090	9,240	11,600
4898	13.6	1,410	3,190	4,810	7,270	9,410	11,700
4951	156	5,630	12,400	18,300	27,000	34,500	42,600
4957	20.9	1,850	4,120	6,170	9,290	12,000	15,000
5017	12.7	1,510	3,390	5,110	7,720	9,990	12,500
5019	.21	473	1,150	1,760	2,730	3,570	4,520
5023	NA	NA	NA	NA	NA	NA	NA
5039	6.44	980	2,270	3,460	5,270	6,850	8,570
5062	6.61	1,080	2,570	3,950	6,100	8,000	10,100
5098	9.79	1,190	2,290	3,140	4,310	5,250	6,220
5099	14.6	1,550	3,480	5,240	7,920	10,200	12,800
5103	NA	NA	NA	NA	NA	NA	NA
5147	4.99	1,110	2,860	4,530	7,220	9,560	12,300
5148	15.1	1,430	3,150	4,700	7,030	9,030	11,200
5168	.54	495	1,220	1,890	2,960	3,870	4,930
5176	NA	NA	NA	NA	NA	NA	NA
5181	25.8	2,010	3,980	5,620	7,970	9,940	12,100
5184	1.27	614	1,530	2,380	3,730	4,900	6,250
5186	NA	NA	NA	NA	NA	NA	NA
5193	9.61	1,210	2,880	4,450	6,900	9,060	11,500
5194	32.2	2,370	4,750	6,740	9,650	12,100	14,800
5201	9.16	1,150	2,770	4,300	6,690	8,820	11,200
5212	6.36	855	2,160	3,420	5,440	7,260	9,310
5214	43.1	2,850	5,740	8,200	11,800	14,900	18,200
5216	51.8	3,230	6,520	9,330	13,500	17,000	20,900
5226	11.2	1,350	3,350	5,300	8,420	11,300	14,500
5246	8.16	1,050	2,570	4,020	6,310	8,350	10,600
5256	60.2	3,320	6,730	9,690	14,100	17,800	22,000
5257	5.44	1,020	2,550	3,980	6,270	8,240	10,500
5261	NA	NA	NA	NA	NA	NA	NA
5267	6.00	1,310	3,240	5,040	7,920	10,400	13,300
5273	68.6	3,630	7,370	10,600	15,400	19,600	24,200

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Table 45. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Harper County.—Continued

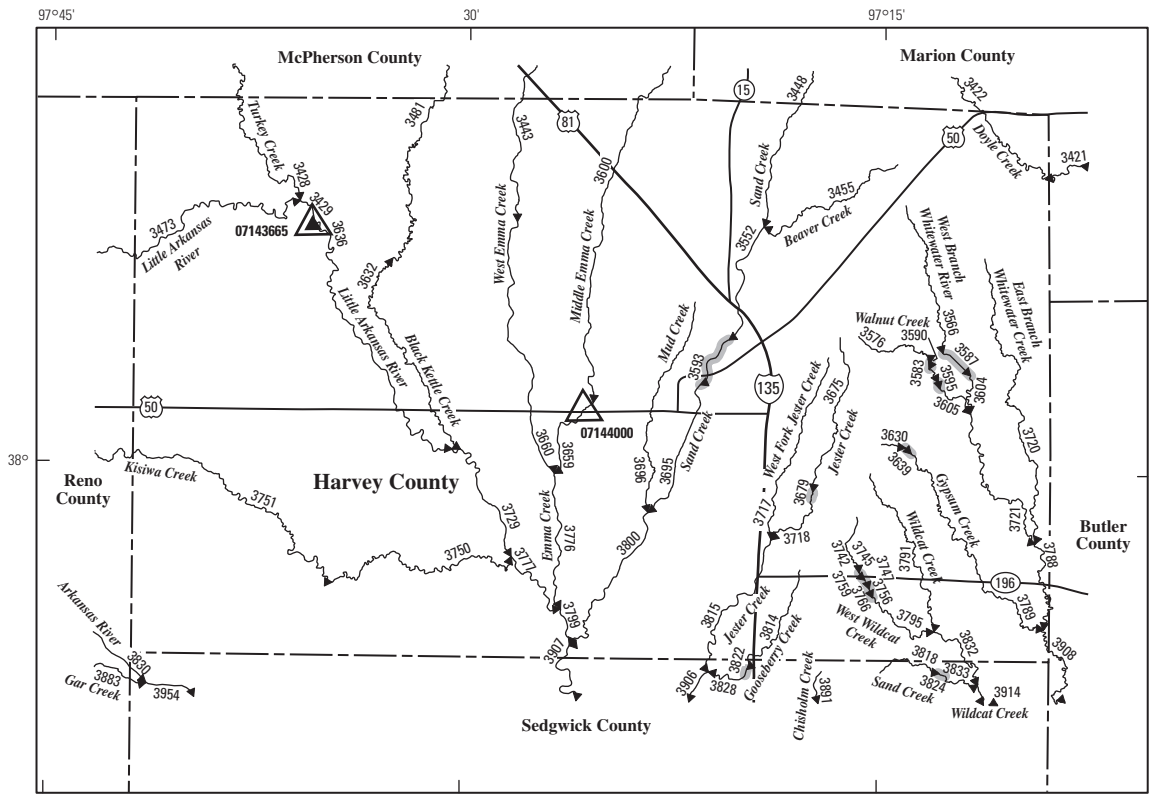
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 49)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded				
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent
		5278	1106000470	HP						Plum Creek	21.5	0
5279	1106000437	HP				Sandy Creek	115	2.19	4.93	8.69	15.9	32.0
5313	HYDRO	HP				HYDRO	63.9	NA	NA	NA	NA	NA
5320	1106000440	HP				Salty Creek	64.7	0	.61	2.26	5.44	13.5
5323	HYDRO	HP				HYDRO	64.7	NA	NA	NA	NA	NA
5330'	HYDRO	HP				HYDRO	2.88	NA	NA	NA	NA	NA
5336	1106000524	HP				Wildcat Creek	14.6	0	0	.55	1.07	3.08
5355	1106000471	HP				Cooper Creek	20.6	0	.04	.85	1.87	4.94
5358	HYDRO	HP				HYDRO	20.9	NA	NA	NA	NA	NA
5378	1106000440	HP				Salty Creek	70.2	0	.71	2.46	5.93	14.8
5383	1106000437	HP				Sandy Creek	160	3.33	6.88	12.2	22.5	45.7
5384	1106000471	HP				Cooper Creek	25.3	0	.14	1.11	2.54	6.52
5385	1106000471	HP				Cooper Creek	25.7	0	.15	1.13	2.59	6.64
5386	1106000425	HP				Unnamed tributary, Harper 1	11.5	0	0	0	0	.85
5392	1106000515	HP	SU			Bluff Creek	411	4.05	9.48	22.3	51.6	128

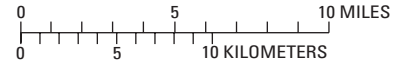
Table 45. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Harper County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 49)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
5278	4.01	988	2,500	3,920	6,210	8,190	10,500
5279	22.9	1,860	4,040	5,990	8,910	11,400	14,200
5313	NA	NA	NA	NA	NA	NA	NA
5320	12.0	1,140	2,870	4,550	7,240	9,680	12,400
5323	NA	NA	NA	NA	NA	NA	NA
5330	NA	NA	NA	NA	NA	NA	NA
5336	3.61	822	2,040	3,180	4,990	6,560	8,370
5355	5.07	985	2,480	3,880	6,130	8,070	10,300
5358	NA	NA	NA	NA	NA	NA	NA
5378	12.9	1,160	2,910	4,620	7,370	9,860	12,700
5383	31.7	2,180	4,660	6,870	10,200	13,000	16,200
5384	6.27	1,110	2,800	4,400	6,960	9,180	11,800
5385	6.36	1,120	2,830	4,440	7,020	9,260	11,900
5386	2.24	729	1,800	2,790	4,360	5,710	7,270
5392	86.9	3,790	7,860	11,500	16,900	21,600	26,900

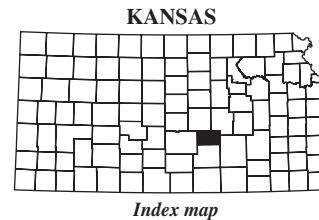


Base map from U.S. Geological Survey digital data, 1:2,000,000, 1994
 Albers Conic Equal-Area Projection,
 Standard parallels 29°30' and 45°30', central meridian 96°
 Horizontal coordinate information is referenced to the
 North American Datum of 1983 (NAD 83)



EXPLANATION

- ◀ 3954 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- ▲ 07143665 U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- △ 07144000 U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 3824 Lake and determination site identification number



Index map

Figure 50. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Harvey County.

Table 46. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Harvey County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 50)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded				
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent
		3422	1107020221	HV	MN					Doyle Creek	26.0	0
3428	1103001211	HV	MP			Turkey Creek	279	0	.48	2.97	14.0	70.1
3429	1103001211	HV				Turkey Creek	279	0	.48	2.97	14.0	70.1
3443	110300128	HV	MP			West Emma Creek	72.2	0	.19	1.62	5.30	17.4
3448	110300124	HV	MN			Sand Creek	29.3	0	0	.32	1.70	6.99
3455	1103001226	HV				Beaver Creek	17.9	0	0	0	.70	3.96
3473	1103001214	HV	RN			Little Arkansas River	441	4.46	9.52	19.4	43.4	182
3481	11030012368	HV	MP			Black Kettle Creek	63.0	0	0	1.13	3.87	13.3
3552	110300124	HV				Sand Creek	59.5	0	0	1.39	5.04	16.9
3566	1103001725	HV				West Branch Whitewater River	13.6	.01	.01	.10	.81	3.87
3576	1103001744	HV				Walnut Creek	6.49	0	0	0	0	.01
3583	HYDRO	HV				HYDRO	6.60	NA	NA	NA	NA	NA
3587	HYDRO	HV				HYDRO	14.8	NA	NA	NA	NA	NA
3590	1103001744	HV				Walnut Creek	7.49	0	0	0	.01	.41
3593	HYDRO	HV				HYDRO	62.8	NA	NA	NA	NA	NA
3595	HYDRO	HV				HYDRO	8.29	NA	NA	NA	NA	NA
3600	110300127	HV	MN	MP		Middle Emma Creek	68.4	0	.12	1.48	4.92	16.3
3604	1103001725	HV				West Branch Whitewater River	16.0	.01	.02	.25	1.24	4.98
3605	1103001744	HV				Walnut Creek	9.92	0	.01	.01	.01	1.78
3630	1103001730	HV				Gypsum Creek	2.97	0	0	0	0	0
3632	11030012368	HV				Black Kettle Creek	76.4	0	.34	1.80	5.53	17.5
3636	1103001210	HV				Little Arkansas River	755	4.90	9.20	22.0	62.0	325
3639	HYDRO	HV				HYDRO	3.40	NA	NA	NA	NA	NA
3659	110300127	HV				Middle Emma Creek	73.5	0	.20	1.66	5.43	17.8
3660	110300128	HV				West Emma Creek	94.2	.06	.90	2.94	8.41	25.2
3675	110300122	HV				Jester Creek	9.86	0	0	0	0	.43
3679	HYDRO	HV				HYDRO	10.3	NA	NA	NA	NA	NA
3695	110300124	HV				Sand Creek	73.3	0	.18	1.98	6.71	21.7
3696	1103001216	HV				Mud Creek	16.2	0	0	0	.04	1.96
3717	1103001218	HV				West Fork Jester Creek	14.3	0	0	.01	.34	2.49
3718	110300122	HV				Jester Creek	12.9	0	0	.01	.33	2.45
3720	1103001731	HV				East Branch Whitewater Creek	23.6	.02	.03	.34	1.86	7.45
3721	1103001725	HV				West Branch Whitewater River	33.5	.03	.06	1.22	4.07	12.7
3729	1103001210	HV				Little Arkansas River	840	6.90	11.9	25.7	68.2	341
3742	1103001728	HV				West Wildcat Creek	3.88	0	0	0	0	0
3745	HYDRO	HV				HYDRO	4.75	NA	NA	NA	NA	NA
3747	1103001728	HV				West Wildcat Creek	4.75	0	0	0	0	0
3750	1103001215	HV				Kisiwa Creek	119	2.75	4.93	9.17	18.6	42.6

Table 46. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Harvey County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 50)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
3422	9.56	1,530	3,580	5,450	8,380	10,900	13,800
3428	62.4	2,740	6,840	10,900	17,600	23,800	31,000
3429	62.4	2,730	6,830	10,900	17,600	23,700	30,900
3443	17.5	1,850	4,380	6,780	10,600	14,000	17,800
3448	8.23	1,570	3,730	5,710	8,820	11,500	14,600
3455	5.32	1,190	2,790	4,240	6,510	8,440	10,700
3473	127	3,060	7,100	10,900	17,100	22,800	29,400
3481	14.1	1,400	3,480	5,510	8,790	11,800	15,100
3552	16.8	1,980	4,670	7,210	11,200	14,800	18,900
3566	4.80	1,030	2,410	3,640	5,570	7,200	9,080
3576	1.57	662	1,520	2,290	3,480	4,480	5,630
3583	NA	NA	NA	NA	NA	NA	NA
3587	NA	NA	NA	NA	NA	NA	NA
3590	2.06	721	1,660	2,500	3,800	4,910	6,170
3593	NA	NA	NA	NA	NA	NA	NA
3595	NA	NA	NA	NA	NA	NA	NA
3600	16.7	3,110	8,160	13,200	21,800	29,800	39,300
3604	5.72	1,140	2,650	4,020	6,160	7,970	10,100
3605	3.14	854	1,980	2,980	4,550	5,870	7,400
3630	.12	421	951	1,420	2,140	2,740	3,430
3632	17.4	1,400	3,480	5,520	8,800	11,800	15,200
3636	229	5,000	12,200	19,200	30,800	41,500	54,100
3639	NA	NA	NA	NA	NA	NA	NA
3659	18.0	3,400	8,990	14,600	24,200	33,200	43,800
3660	23.3	1,950	4,560	7,030	10,900	14,300	18,200
3675	2.28	834	1,940	2,930	4,480	5,790	7,290
3679	NA	NA	NA	NA	NA	NA	NA
3695	20.5	2,000	4,760	7,380	11,500	15,300	19,500
3696	3.75	1,060	2,520	3,850	5,940	7,720	9,780
3717	3.88	1,010	2,390	3,630	5,570	7,230	9,140
3718	3.74	972	2,270	3,450	5,280	6,840	8,630
3720	8.35	1,490	3,460	5,250	8,040	10,400	13,100
3721	12.2	1,410	3,420	5,350	8,400	11,100	14,200
3729	239	5,180	12,500	19,400	30,800	41,200	53,400
3742	.90	497	1,130	1,680	2,540	3,260	4,080
3745	NA	NA	NA	NA	NA	NA	NA
3747	1.38	559	1,270	1,910	2,880	3,700	4,640
3750	31.7	1,480	3,410	5,210	8,000	10,400	13,200

Table 46. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Harvey County.—Continued

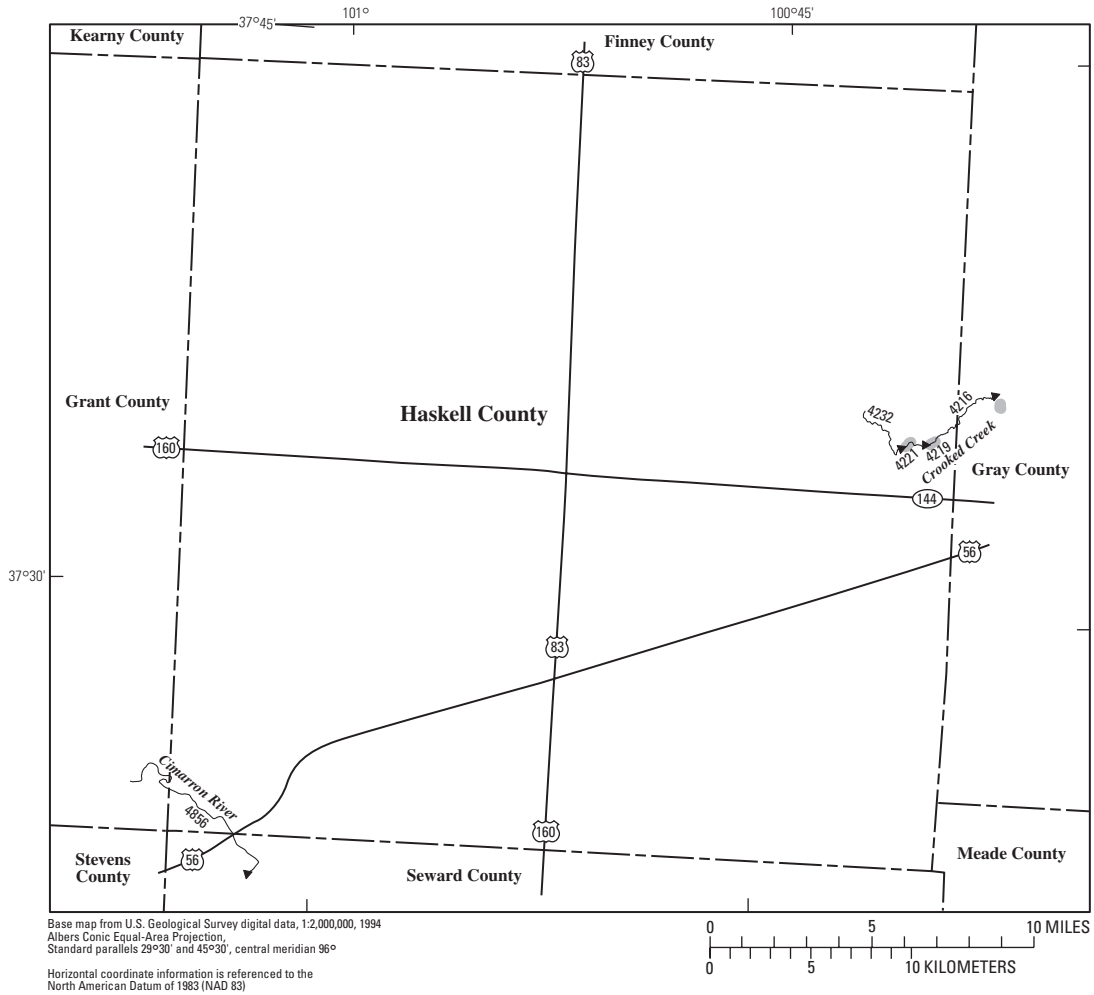
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 50)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded				
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent
		3751	1103001215	HV	RN					Kisiwa Creek	92.1	1.95
3756	HYDRO	HV				HYDRO	5.13	NA	NA	NA	NA	NA
3759	1103001728	HV				West Wildcat Creek	5.49	0	0	0	0	.43
3766	HYDRO	HV				HYDRO	5.95	NA	NA	NA	NA	NA
3776	110300126	HV				Emma Creek	175	.71	2.03	5.58	16.2	50.0
3777	110300129	HV				Little Arkansas River	963	11.1	18.3	35.8	83.8	375
3789	1103001730	HV				Gypsum Creek	16.0	.01	.02	.23	1.28	5.22
3791	1103001726	HV				Wildcat Creek	9.10	0	0	.01	.24	2.12
3795	1103001728	HV				West Wildcat Creek	9.89	0	.01	.06	.59	3.05
3799	110300125	HV				Little Arkansas River	1,140	15.5	24.1	44.1	98.2	414
3800	110300124	HV				Sand Creek	104	0	.73	3.26	10.4	32.6
3814	1103001217	HV	SG			Gooseberry Creek	8.09	0	0	.09	.29	1.85
3815	110300122	HV	SG			Jester Creek	39.2	0	.50	2.09	5.52	14.9
3818	1103001729	HV	SG			Sand Creek	5.87	0	0	0	0	.17
3832	1103001726	HV	SG			Wildcat Creek	22.7	.02	.03	.87	2.97	9.38
3907	110300123	HV	SG			Little Arkansas River	1,260	18.7	29.0	52.3	113	453

Table 46. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Harvey County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 50)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
3751	23.1	1,270	2,980	4,580	7,080	9,280	11,700
3756	NA	NA	NA	NA	NA	NA	NA
3759	1.76	608	1,390	2,080	3,150	4,060	5,090
3766	NA	NA	NA	NA	NA	NA	NA
3776	43.1	4,330	10,900	17,200	27,900	37,800	49,300
3777	255	5,390	12,700	19,400	30,200	40,000	51,100
3789	5.93	1,160	2,690	4,070	6,220	8,050	10,200
3791	3.18	822	1,890	2,850	4,340	5,590	7,040
3795	3.81	859	1,980	2,990	4,560	5,880	7,410
3799	277	5,860	13,300	20,000	30,400	39,500	49,700
3800	29.0	2,370	5,540	8,550	13,300	17,600	22,400
3814	2.76	752	1,740	2,620	3,980	5,140	6,470
3815	13.1	1,630	3,700	5,600	8,520	11,100	13,900
3818	1.71	644	1,470	2,190	3,320	4,270	5,350
3832	8.95	1,400	3,300	5,010	7,700	9,980	12,600
3907	296	6,170	13,800	20,400	30,400	39,000	48,500



EXPLANATION

- ← 4856 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 07139500 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 07139800 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 4221 Lake and determination site identification number

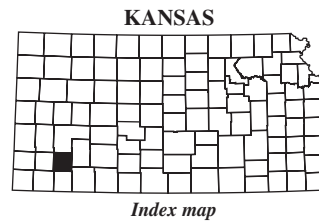


Figure 51. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Haskell County.

Table 47. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Haskell County.

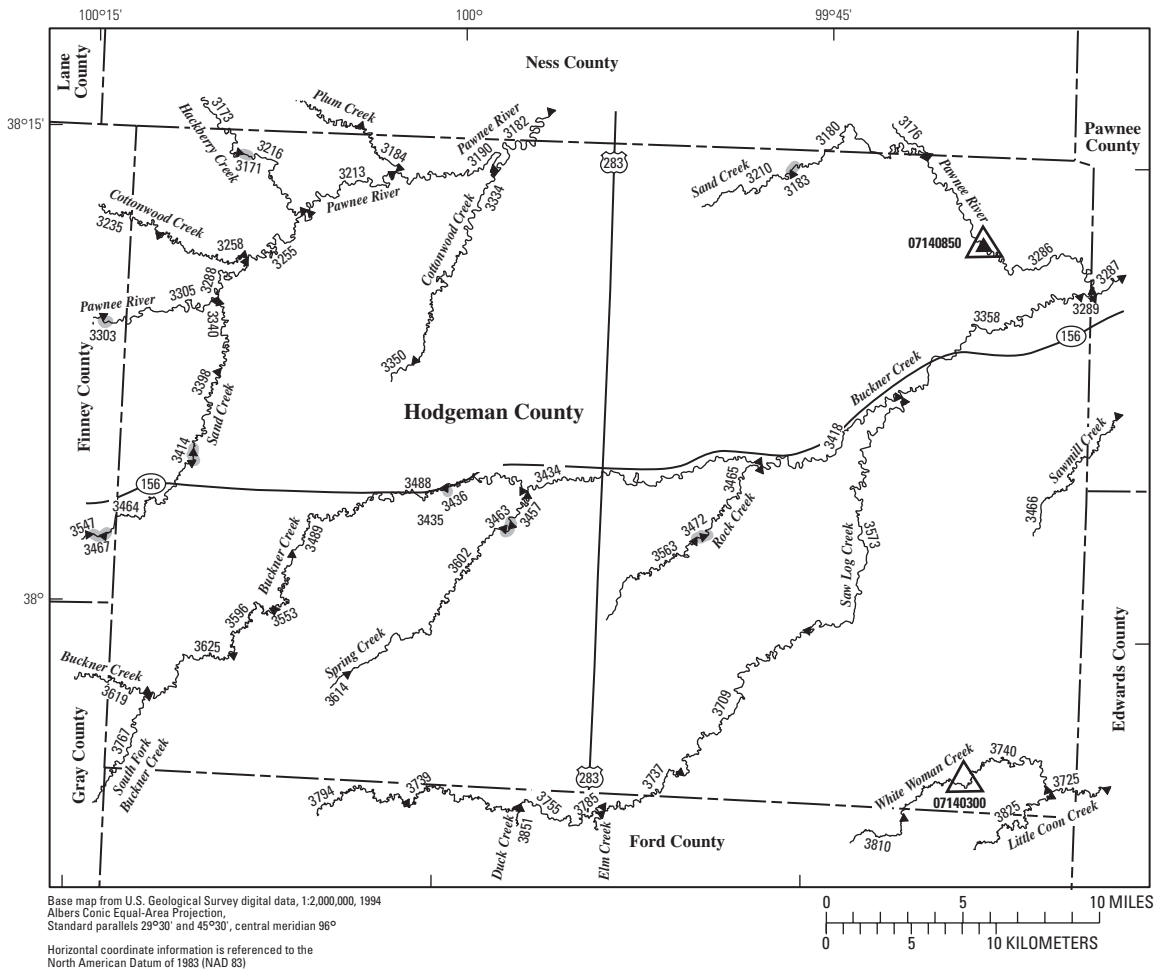
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NR Tribal, tribal stream]

Determination site identification number (fig. 51)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded					
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent	
		4219	HYDRO	HS						HYDRO	310	NA	NA
4220	110400072	HS				Crooked Creek	307	0	0	0.10	0.19	0.38	
4221	HYDRO	HS				HYDRO	302	NA	NA	NA	NA	NA	NA
4232	110400072	HS				Crooked Creek	302	0	0	.10	.18	.36	

Table 47. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Haskell County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 51)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
4219	NA	NA	NA	NA	NA	NA	NA
4220	2.41	780	2,350	4,030	6,910	9,650	12,800
4221	NA	NA	NA	NA	NA	NA	NA
4232	2.33	791	2,370	4,060	6,950	9,690	12,900



EXPLANATION

- ← 3794 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 07140850 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 07140300 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 3436 Lake and determination site identification number

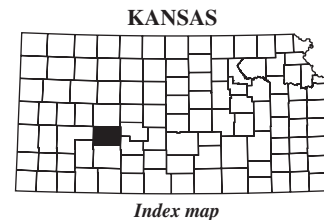


Figure 52. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Hodgeman County.

Table 48. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Hodgeman County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 52)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded				
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent
		3171	HYDRO	HG						HYDRO	181	NA
3173	110300054	HG	NS			Hackberry Creek	181	0	0	0	0	0.18
3176	110300053	HG	NS			Pawnee River	1,140	0	0	0	1.93	8.52
3180	1103000511	HG	NS			Sand Creek	68.5	0	0	0	0	0
3182	110300053	HG	NS			Pawnee River	1,030	0	0	0	1.54	7.25
3183	HYDRO	HG				HYDRO	51.9	NA	NA	NA	NA	NA
3184	110300057	HG	NS			Plum Creek	84.3	0	0	0	0	0
3190	110300053	HG				Pawnee River	933	0	0	0	1.16	6.11
3210	1103000511	HG				Sand Creek	51.8	0	0	0	0	0
3213	110300053	HG				Pawnee River	839	0	0	0	79	5.02
3216	110300054	HG				Hackberry Creek	188	0	0	0	0	37
3255	110300055	HG				Pawnee River	641	0	0	0	28	3.43
3258	110300058	HG				Cottonwood Creek	63.7	0	0	0	0	0
3286	110300053	HG	PN			Pawnee River	1,250	0	0	0	2.40	10.0
3288	110300055	HG				Pawnee River	564	0	0	0	0	2.26
3289	110300061	HG	PN			Buckner Creek	783	0	48	2.94	9.62	29.2
3334	1103000510	HG				Cottonwood Creek	66.0	0	0	0	0	0
3340	110300059	HG				Sand Creek	114	0	0	0	0	0
3350	1103000510	HG				Cottonwood Creek	17.0	0	0	0	0	0
3358	110300061	HG				Buckner Creek	781	0	47	2.93	9.58	29.1
3398	110300059	HG				Sand Creek	103	0	0	0	0	0
3414	HYDRO	HG				HYDRO	85.5	NA	NA	NA	NA	NA
3418	110300062	HG				Buckner Creek	422	0	0	65	3.15	11.1
3434	110300062	HG				Buckner Creek	348	0	0	19	1.81	7.53
3435	110300062	HG				Buckner Creek	237	0	0	0	10	2.94
3436	HYDRO	HG				HYDRO	223	NA	NA	NA	NA	NA
3457	110300067	HG				Spring Creek	57.2	0	0	0	0	0
3463	HYDRO	HG				HYDRO	53.8	NA	NA	NA	NA	NA
3465	110300069	HG				Rock Creek	47.4	0	0	0	0	0
3466	110300056	HG	PN			Sawmill Creek	69.4	0	0	0	0	50
3472	HYDRO	HG				HYDRO	37.7	NA	NA	NA	NA	NA
3488	110300062	HG				Buckner Creek	223	0	0	0	0	2.22
3489	110300062	HG				Buckner Creek	192	0	0	0	0	63
3553	110300062	HG				Buckner Creek	192	0	0	0	0	63
3563	110300069	HG				Rock Creek	36.8	0	0	0	0	0
3573	110300063	HG				Saw Log Creek	321	0	0	1.25	4.19	12.3
3596	110300062	HG				Buckner Creek	181	0	0	0	0	24
3602	110300067	HG				Spring Creek	50.5	0	0	0	0	0

Table 48. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Hodgeman County.—Continued[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 52)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
3171	NA	NA	NA	NA	NA	NA	NA
3173	3.18	578	1,840	3,270	5,810	8,320	11,400
3176	10.5	553	1,720	2,990	5,290	7,530	10,300
3180	1.74	426	1,340	2,350	4,150	5,890	7,970
3182	9.77	591	1,870	3,310	5,900	8,450	11,600
3183	NA	NA	NA	NA	NA	NA	NA
3184	1.56	467	1,460	2,570	4,530	6,430	8,710
3190	9.08	627	2,010	3,570	6,400	9,200	12,600
3210	1.07	505	1,510	2,580	4,430	6,190	8,260
3213	8.35	646	2,090	3,740	6,730	9,720	13,400
3216	3.37	573	1,830	3,250	5,800	8,320	11,400
3255	7.06	646	2,130	3,850	6,990	10,100	14,000
3258	.58	361	1,170	2,090	3,730	5,340	7,270
3286	11.1	469	1,430	2,460	4,300	6,070	8,210
3288	6.07	645	2,130	3,860	7,020	10,200	14,100
3289	29.7	1,660	4,510	7,520	12,700	17,700	23,600
3334	1.23	425	1,340	2,360	4,160	5,920	8,020
3340	1.11	468	1,540	2,770	4,990	7,200	9,890
3350	0	349	1,100	1,890	3,250	4,500	6,000
3358	29.6	1,660	4,510	7,530	12,700	17,700	23,600
3398	.79	433	1,440	2,600	4,710	6,820	9,380
3414	NA	NA	NA	NA	NA	NA	NA
3418	14.0	1,140	3,350	5,770	10,000	14,200	19,200
3434	10.8	1,020	3,050	5,300	9,270	13,100	17,900
3435	6.41	799	2,490	4,380	7,780	11,100	15,200
3436	NA	NA	NA	NA	NA	NA	NA
3457	1.00	468	1,450	2,530	4,420	6,250	8,430
3463	NA	NA	NA	NA	NA	NA	NA
3465	1.21	460	1,390	2,400	4,130	5,800	7,750
3466	2.87	574	1,710	2,930	5,040	7,050	9,430
3472	NA	NA	NA	NA	NA	NA	NA
3488	5.75	763	2,390	4,240	7,540	10,800	14,800
3489	4.30	709	2,250	4,010	7,180	10,300	14,100
3553	4.30	709	2,250	4,010	7,180	10,300	14,100
3563	.61	457	1,360	2,320	3,980	5,550	7,390
3573	13.6	962	2,820	4,840	8,370	11,800	15,900
3596	3.90	710	2,250	4,000	7,160	10,300	14,100
3602	.59	428	1,340	2,350	4,130	5,860	7,910

300 Estimates of Flow Duration, Mean Flow, and Peak-Discharge Frequency Values for Kansas Stream Locations

Table 48. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Hodgeman County.—Continued

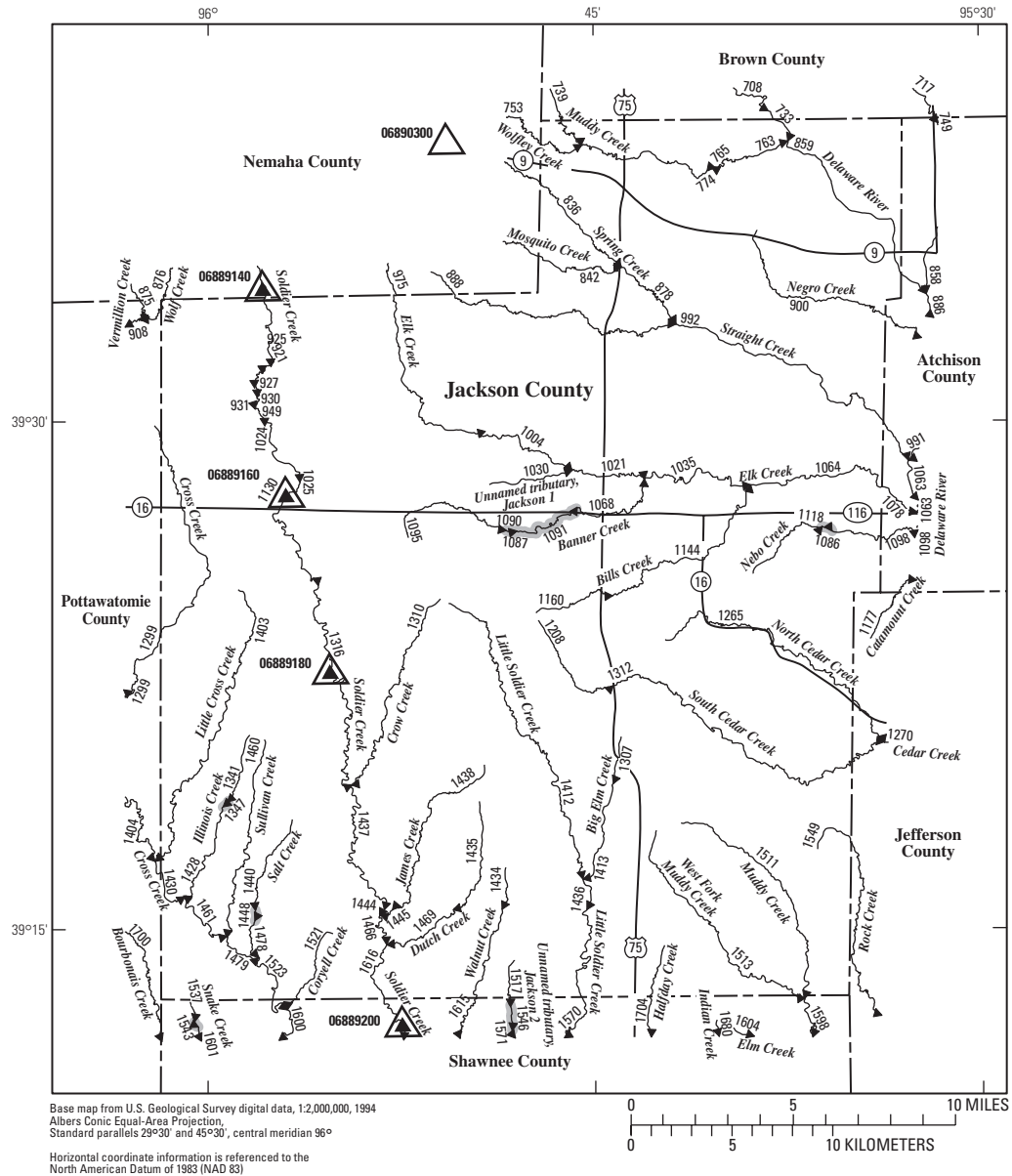
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 52)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded					
		1st	2nd	3rd	4th			90	75	50	25	10	
								percent	percent	percent	percent	percent	
3614	110300067	HG				Spring Creek	11.2	0	0	0	0	0	0
3625	110300062	HG				Buckner Creek	171	0	0	0	0	0	0
3709	110300063	HG				Saw Log Creek	268	0	0	75	2.85	8.92	

Table 48. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Hodgeman County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 52)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
3614	0	289	888	1,510	2,580	3,550	4,720
3625	3.52	727	2,290	4,060	7,230	10,400	14,200
3709	10.8	892	2,640	4,540	7,850	11,100	14,900



EXPLANATION

- ◀ 1537 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06889200 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06890300 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 1543 Lake and determination site identification number

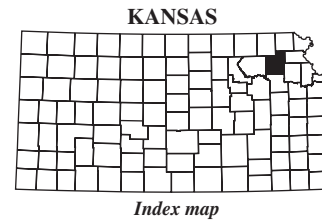


Figure 53. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Jackson County.

304 Estimates of Flow Duration, Mean Flow, and Peak-Discharge Frequency Values for Kansas Stream Locations

Table 49. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Jackson County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 53)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded				
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent
		753	1027010327	JA	NM					Wolfley Creek	43.7	0.04
763	1027010325	JA				Muddy Creek	108	.25	1.90	9.06	31.2	95.1
765	1027010325	JA				Muddy Creek	103	.23	1.74	8.53	29.5	89.9
774	1027010325	JA				Muddy Creek	102	.22	1.73	8.48	29.3	89.4
836	1027010342	JA	NM			Spring Creek	32.9	0	.22	3.24	11.4	32.8
842	10270103602	JA	NM			Mosquito Creek	18.0	0	0	1.79	6.47	18.9
876	1027010249	JA	NM	PT		Wolf Creek	14.5	0	0	.84	3.44	11.0
878	1027010342	JA				Spring Creek	58.1	.01	.77	5.51	19.4	56.7
888	1027010328	JA	NM			Straight Creek	28.4	0	0	2.49	9.32	27.9
921	102701029009	JA	NM			Soldier Creek	34.6	.21	.48	1.20	3.50	10.0
925	102701029009	JA				Soldier Creek	34.6	.21	.48	1.20	3.51	10.0
927	102701029009	JA				Soldier Creek	34.8	.21	.48	1.22	3.55	10.1
930	102701029009	JA				Soldier Creek	34.9	.21	.48	1.23	3.59	10.3
931	102701029009	JA				Soldier Creek	35.1	.21	.48	1.24	3.64	10.4
949	102701029009	JA				Soldier Creek	37.6	.27	.57	1.49	4.35	12.8
951	102701029009	JA				Soldier Creek	37.7	.27	.57	1.49	4.36	12.8
975	1027010330	JA	NM			Elk Creek	39.3	0	.21	3.40	12.5	37.4
1004	1027010330	JA				Elk Creek	49.4	0	.41	4.22	15.5	46.5
1021	1027010329	JA				Elk Creek	60.0	.01	.67	5.18	18.7	56.0
1024	102701029009	JA				Soldier Creek	49.3	.50	1.20	2.84	8.16	24.5
1025	102701029	JA				Soldier Creek	49.3	.50	1.20	2.84	8.16	24.5
1030	1027010331	JA				Unnamed tributary, Jackson 1	4.50	0	0	.19	.99	3.80
1035	1027010329	JA				Elk Creek	101	.02	1.44	8.30	29.9	91.0
1068	1027010345	JA				Banner Creek	28.6	0	0	2.42	9.13	27.5
1086	HYDRO	JA				HYDRO	9.16	NA	NA	NA	NA	NA
1087	1027010345	JA				Banner Creek	18.2	0	0	1.59	5.98	17.9
1090	HYDRO	JA				HYDRO	18.2	NA	NA	NA	NA	NA
1091	HYDRO	JA				HYDRO	22.9	NA	NA	NA	NA	NA
1095	1027010345	JA				Banner Creek	17.1	0	0	1.47	5.56	16.7
1118	1027010348	JA				Nebo Creek	8.39	0	0	.15	1.47	6.11
1130	102701029009	JA				Soldier Creek	63.1	.80	2.00	4.60	13.0	39.0
1144	1027010347	JA				Bills Creek	20.8	0	0	1.61	6.38	19.7
1160	NRTribal	JA				Bills Creek	7.73	0	0	.46	2.09	7.03
1208	NRTribal	JA				South Cedar Creek	8.70	0	0	.63	2.60	8.30
1265	1027010346	JA	JF			North Cedar Creek	26.7	0	.08	2.61	9.32	27.2
1299	1027010212	JA	PT			Cross Creek	46.0	0	.18	3.35	12.5	38.2
1307	1027010290	JA				Big Elm Creek	6.39	0	0	.52	2.02	6.38
1310	NRTribal	JA				Crow Creek	19.2	.04	.08	1.96	6.67	19.1

Table 49. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Jackson County.—Continued[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 53)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
753	29.1	3,180	6,810	10,100	15,000	19,300	24,000
763	67.0	5,360	10,800	15,700	23,000	29,300	36,200
765	63.6	5,330	10,800	15,600	22,800	29,100	36,000
774	63.3	5,330	10,800	15,600	22,800	29,100	36,000
836	23.8	1,600	3,680	5,750	9,360	12,900	17,200
842	14.2	1,680	3,630	5,330	7,920	10,100	12,500
876	9.31	1,380	3,020	4,450	6,650	8,470	10,600
878	40.3	2,680	5,670	8,600	13,300	17,800	23,000
888	21.1	2,240	4,860	7,160	10,700	13,600	16,900
921	10.7	1,850	3,360	4,640	6,580	8,270	10,200
925	10.8	1,820	3,310	4,580	6,500	8,180	10,100
927	10.8	1,820	3,320	4,580	6,510	8,190	10,100
930	10.9	1,850	3,370	4,650	6,600	8,300	10,200
931	11.0	1,870	3,400	4,700	6,670	8,380	10,300
949	13.0	2,110	3,800	5,230	7,380	9,260	11,400
951	13.0	2,070	3,740	5,150	7,280	9,150	11,300
975	27.7	4,100	8,320	12,000	17,400	22,100	27,100
1004	34.2	4,460	9,040	13,000	18,900	24,000	29,500
1021	40.8	4,720	9,540	13,700	20,000	25,300	31,100
1024	21.8	3,040	5,300	7,180	9,970	12,400	15,100
1025	21.8	3,030	5,300	7,170	9,960	12,400	15,100
1030	3.59	786	1,630	2,350	3,420	4,310	5,310
1035	65.1	6,070	12,100	17,300	25,100	31,800	39,000
1068	21.0	2,270	4,910	7,220	10,700	13,700	17,000
1086	NA	NA	NA	NA	NA	NA	NA
1087	13.9	1,730	3,720	5,450	8,080	10,300	12,800
1090	NA	NA	NA	NA	NA	NA	NA
1091	NA	NA	NA	NA	NA	NA	NA
1095	13.1	1,670	3,580	5,240	7,760	9,860	12,300
1118	5.97	1,130	2,370	3,440	5,040	6,370	7,880
1130	32.4	4,030	6,850	9,140	12,500	15,400	18,700
1144	15.6	1,900	4,080	5,970	8,850	11,200	14,000
1160	6.10	1,070	2,250	3,260	4,790	6,050	7,480
1208	6.93	1,140	2,400	3,480	5,120	6,470	8,020
1265	20.3	2,210	4,750	6,970	10,400	13,200	16,400
1299	29.0	4,240	8,720	12,600	18,400	23,500	28,900
1307	5.28	936	1,970	2,860	4,190	5,290	6,540
1310	14.4	1,720	3,700	5,420	8,050	10,200	12,800

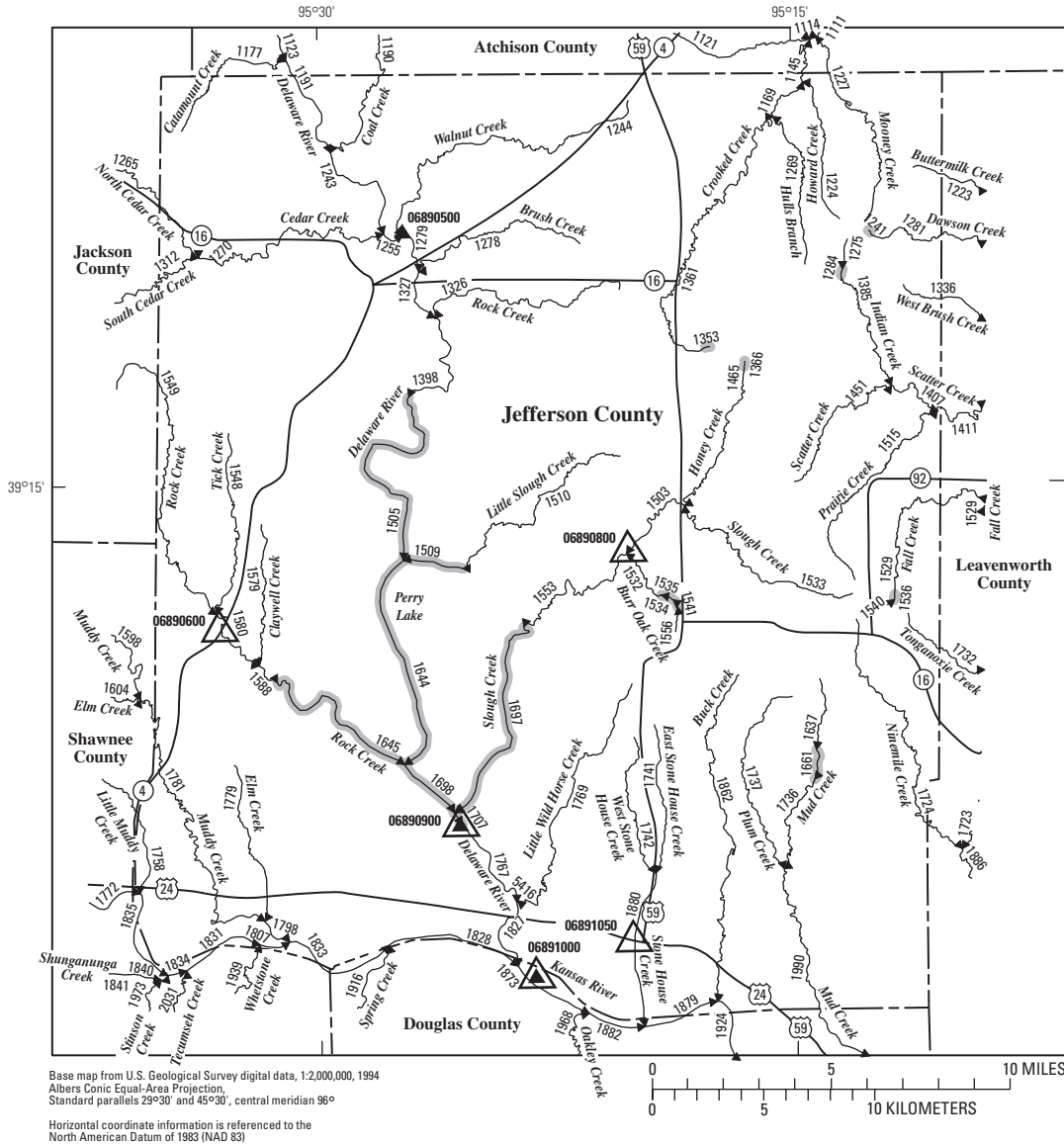
Table 49. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Jackson County.—Continued[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 53)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded				
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent
		1312	102701039032	JA	JF					South Cedar Creek	38.3	0
1316	NRTribal	JA				Soldier Creek	81.0	2.30	5.00	10.0	28.0	75.0
1341	1027010262	JA				Illinois Creek	2.96	0	0	0	.09	1.35
1347	HYDRO	JA				HYDRO	3.23	NA	NA	NA	NA	NA
1403	1027010261	JA	PT			Little Cross Creek	22.6	0	0	1.75	6.40	19.1
1412	NRTribal	JA				Little Soldier Creek	26.2	.01	.04	2.45	8.76	25.6
1413	NRTribal	JA				Big Elm Creek	11.7	0	.01	1.10	4.04	11.9
1428	1027010262	JA				Illinois Creek	7.55	0	0	.44	1.73	5.73
1430	1027010212	JA	PT			Cross Creek	102	0	1.33	7.79	27.9	84.9
1434	NRTribal	JA				Walnut Creek	4.30	0	0	.28	1.03	3.56
1435	NRTribal	JA				Dutch Creek	7.59	.01	.01	.79	2.66	7.77
1436	NRTribal	JA				Little Soldier Creek	40.0	.03	.36	3.72	13.2	38.6
1437	NRTribal	JA				Soldier Creek	110	2.53	6.28	14.1	39.1	104
1438	NRTribal	JA				James Creek	15.4	.03	.05	1.64	5.55	15.7
1440	1027010288	JA				Salt Creek	7.67	0	0	.52	2.04	6.54
1444	102701029	JA				Soldier Creek	110	2.53	6.29	14.1	39.2	104
1445	1027010287	JA				James Creek	15.7	.03	.06	1.67	5.63	15.9
1448	HYDRO	JA				HYDRO	8.66	NA	NA	NA	NA	NA
1460	1027010289	JA				Sullivan Creek	10.0	0	0	.86	2.97	8.81
1461	1027010212	JA				Cross Creek	112	0	1.56	8.67	30.8	93.7
1466	102701029	JA				Soldier Creek	127	2.66	7.00	16.5	45.6	121
1469	1027010292	JA				Dutch Creek	12.3	.02	.03	1.31	4.41	12.5
1478	1027010288	JA				Salt Creek	10.0	0	0	.79	2.89	8.77
1479	1027010212	JA				Cross Creek	124	0	1.82	9.71	34.3	104
1511	102701022	JA				Muddy Creek	20.2	0	.13	2.57	8.58	23.7
1513	1027010293	JA				West Fork Muddy Creek	18.7	0	.10	2.40	7.91	21.7
1517	102701028	JA	SN			Unnamed tributary, Jackson 2	3.92	0	0	.12	.60	2.61
1521	1027010294	JA	SN			Coryell Creek	7.86	0	0	.57	2.17	6.85
1523	1027010212	JA	SN			Cross Creek	139	0	2.14	11.0	38.4	117
1537	1027010295	JA	SN			Snake Creek	2.89	0	0	0	0	1.02
1549	1027010334	JA	JF			Rock Creek	20.5	.01	.15	2.64	8.93	24.8
1570	102701027	JA	SN			Little Soldier Creek	54.7	.05	.83	5.28	18.2	52.6
1598	102701022	JA	SN			Muddy Creek	45.9	0	.82	5.39	18.2	51.2
1615	1027010291	JA	SN			Walnut Creek	17.0	0	.01	1.79	6.00	16.9
1616	102701029	JA	SN			Soldier Creek	158	2.90	8.40	21.0	58.0	153
1704	1027010297	JA	SN			Halfday Creek	21.6	0	.17	2.66	8.76	24.1

Table 49. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Jackson County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 53)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
1312	30.1	3,610	7,410	10,700	15,700	19,900	24,400
1316	51.2	4,440	7,220	9,250	12,000	14,200	16,400
1341	1.83	553	1,170	1,700	2,490	3,140	3,880
1347	NA	NA	NA	NA	NA	NA	NA
1403	15.0	1,810	3,980	5,890	8,820	11,300	14,100
1412	19.3	2,090	4,550	6,700	9,980	12,700	15,900
1413	9.35	1,320	2,820	4,110	6,070	7,700	9,560
1428	5.12	946	2,040	2,990	4,430	5,630	7,000
1430	60.4	5,790	11,700	17,000	24,800	31,500	38,900
1434	3.27	720	1,520	2,200	3,220	4,060	5,020
1435	6.14	998	2,120	3,090	4,550	5,760	7,140
1436	28.5	3,630	7,490	10,900	15,900	20,200	24,900
1437	69.3	4,520	7,500	9,770	13,000	15,600	18,400
1438	11.9	1,490	3,210	4,710	6,990	8,890	11,100
1440	5.58	969	2,090	3,050	4,510	5,730	7,120
1444	69.4	4,520	7,490	9,770	13,000	15,600	18,400
1445	12.0	1,500	3,230	4,740	7,040	8,960	11,200
1448	NA	NA	NA	NA	NA	NA	NA
1460	7.17	1,130	2,440	3,580	5,320	6,760	8,420
1461	66.1	5,920	12,000	17,400	25,400	32,300	39,900
1466	80.0	4,620	7,740	10,200	13,600	16,600	19,700
1469	9.57	1,300	2,800	4,100	6,080	7,720	9,600
1478	7.19	1,130	2,440	3,580	5,320	6,760	8,410
1479	72.8	6,170	12,500	18,000	26,400	33,600	41,400
1511	16.8	1,820	3,930	5,770	8,580	10,900	13,600
1513	15.4	1,710	3,700	5,430	8,080	10,300	12,800
1517	2.74	678	1,430	2,070	3,030	3,820	4,720
1521	5.77	987	2,120	3,100	4,590	5,830	7,240
1523	80.8	6,180	12,600	18,200	26,700	34,100	42,200
1537	1.66	544	1,150	1,670	2,440	3,080	3,810
1549	17.5	1,370	2,730	3,880	5,650	7,070	8,780
1570	37.8	3,690	7,720	11,300	16,600	21,200	26,300
1598	35.0	3,820	7,820	11,300	16,500	20,900	25,700
1615	12.7	1,580	3,420	5,040	7,500	9,540	11,900
1616	99.5	4,510	7,650	10,200	13,900	17,100	20,600
1704	17.2	1,840	4,010	5,910	8,810	11,200	14,000



EXPLANATION

- ← 1973 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- ▲ 06891000 U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- △ 06891050 U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 1645 Lake and determination site identification number

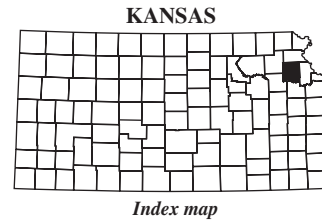


Figure 54. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Jefferson County.

310 Estimates of Flow Duration, Mean Flow, and Peak-Discharge Frequency Values for Kansas Stream Locations

Table 50. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Jefferson County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 54)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded				
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent
		1169	1027010412	JF						Crooked Creek	34.7	0
1223	1027010444	JF	LV			Buttermilk Creek	8.52	0	0	1.08	3.82	11.0
1224	1027010443	JF				Howard Creek	4.18	0	0	0	.38	2.83
1241	HYDRO	JF				HYDRO	.17	NA	NA	NA	NA	NA
1243	1027010313	JF				Delaware River	805	5.99	17.8	60.2	174	549
1244	1027010351	JF				Walnut Creek	26.7	0	0	2.38	8.97	27.0
1255	1027010312	JF				Delaware River	889	6.01	18.0	64.1	186	589
1269	1027010442	JF				Hulls Branch	8.33	0	0	.21	1.82	7.21
1270	1027010332	JF				Cedar Creek	83.8	.01	1.53	8.61	30.0	88.0
1275	1027010448	JF				Indian Creek	1.12	0	0	0	0	0
1278	1027010354	JF				Brush Creek	11.5	0	0	.96	3.74	11.5
1279	1027010312	JF				Delaware River	917	6.00	18.0	65.0	189	600
1281	1027010445	JF	LV			Dawson Creek	8.28	0	0	1.45	4.70	12.6
1284	HYDRO	JF				HYDRO	1.26	NA	NA	NA	NA	NA
1326	1027010353	JF				Rock Creek	15.3	0	.07	2.05	6.84	18.9
1327	1027010312	JF				Delaware River	932	7.24	18.4	66.8	212	691
1336	1027010446	JF	LV			West Brush Creek	9.27	0	.13	1.91	5.78	14.9
1353	HYDRO	JF				HYDRO	1.74	NA	NA	NA	NA	NA
1361	1027010412	JF				Crooked Creek	25.0	0	0	1.34	6.45	22.1
1366	HYDRO	JF				HYDRO	3.00	NA	NA	NA	NA	NA
1385	1027010448	JF				Indian Creek	7.99	0	0	1.28	4.14	11.3
1398	1027010312	JF				Delaware River	959	9.49	19.2	70.8	256	859
1407	1027010413	JF				Scatter Creek	2.6	0	.20	2.92	10.1	28.1
1411	1027010413	JF	LV			Scatter Creek	38.7	0	.67	5.10	18.0	51.2
1451	1027010413	JF				Scatter Creek	10.2	0	0	1.34	4.81	13.8
1465	1027010355	JF				Honey Creek	13.0	0	0	1.37	5.44	16.4
1503	102701039	JF				Slough Creek	29.0	.01	.23	3.51	13.1	38.4
1505	HYDRO	JF				HYDRO	977	NA	NA	NA	NA	NA
1509	HYDRO	JF				HYDRO	25.0	NA	NA	NA	NA	NA
1510	10270103805	JF				Little Slough Creek	22.0	.01	.54	3.79	12.3	32.7
1515	1027010447	JF				Prairie Creek	9.68	0	0	.97	4.05	12.4
1529	1027010452	JF	LV			Fall Creek	21.0	0	.12	2.76	9.86	28.0
1532	102701038	JF				Burr Oak Creek	7.10	0	0	1.13	3.90	10.9
1533	102701039	JF				Slough Creek	12.1	0	0	1.39	5.50	16.4
1534	HYDRO	JF				HYDRO	4.88	NA	NA	NA	NA	NA
1535	102701038	JF				Burr Oak Creek	4.48	0	0	0.40	1.72	5.62
1536	HYDRO	JF				HYDRO	.75	NA	NA	NA	NA	NA
1540	1027010452	JF				Fall Creek	.63	0	0	0	0	0

Table 50. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Jefferson County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 54)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
1169	25.2	3,850	7,930	11,500	16,800	21,400	26,400
1223	8.31	1,260	2,590	3,720	5,400	6,780	8,340
1224	3.24	812	1,650	2,360	3,410	4,270	5,250
1241	NA	NA	NA	NA	NA	NA	NA
1243	357	10,300	16,000	22,500	29,300	35,100	39,200
1244	20.7	2,310	4,920	7,180	10,600	13,500	16,800
1255	381	9,830	15,300	22,300	29,400	35,500	39,400
1269	6.73	1,230	2,530	3,630	5,280	6,630	8,170
1270	60.3	5,290	10,600	15,200	22,000	27,800	34,200
1275	.25	390	767	1,080	1,530	1,900	2,310
1278	9.39	1,450	3,020	4,360	6,370	8,040	9,930
1279	388	9,620	15,000	22,200	29,300	35,500	39,300
1281	8.89	1,260	2,570	3,680	5,340	6,700	8,240
1284	NA	NA	NA	NA	NA	NA	NA
1326	13.7	1,740	3,630	5,250	7,680	9,700	12,000
1327	409	9,370	14,600	21,900	28,900	35,100	38,800
1336	10.1	1,370	2,790	3,990	5,780	7,250	8,920
1353	NA	NA	NA	NA	NA	NA	NA
1361	18.6	2,310	4,870	7,070	10,400	13,200	16,300
1366	NA	NA	NA	NA	NA	NA	NA
1385	8.19	1,230	2,510	3,590	5,210	6,540	8,040
1398	448	8,710	13,600	20,800	27,600	33,700	37,000
1407	19.7	2,150	4,460	6,440	9,420	11,900	14,700
1411	35.1	4,830	9,190	12,800	18,100	22,500	27,100
1451	10.2	1,450	2,960	4,240	6,150	7,720	9,500
1465	12.4	1,850	3,390	4,640	6,480	7,970	9,670
1503	26.9	3,670	5,510	6,850	8,670	10,100	11,700
1505	NA	NA	NA	NA	NA	NA	NA
1509	NA	NA	NA	NA	NA	NA	NA
1510	21.8	2,210	4,620	6,680	9,800	12,400	15,300
1515	9.60	1,410	2,870	4,100	5,950	7,460	9,180
1529	19.9	2,200	4,560	6,580	9,610	12,100	15,000
1532	7.86	1,210	2,430	3,460	4,990	6,230	7,650
1533	12.2	1,800	3,320	4,560	6,380	7,850	9,530
1534	NA	NA	NA	NA	NA	NA	NA
1535	4.64	926	1,850	2,610	3,740	4,670	5,710
1536	NA	NA	NA	NA	NA	NA	NA
1540	0	289	557	772	1,090	1,340	1,620

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Table 50. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Jefferson County.—Continued

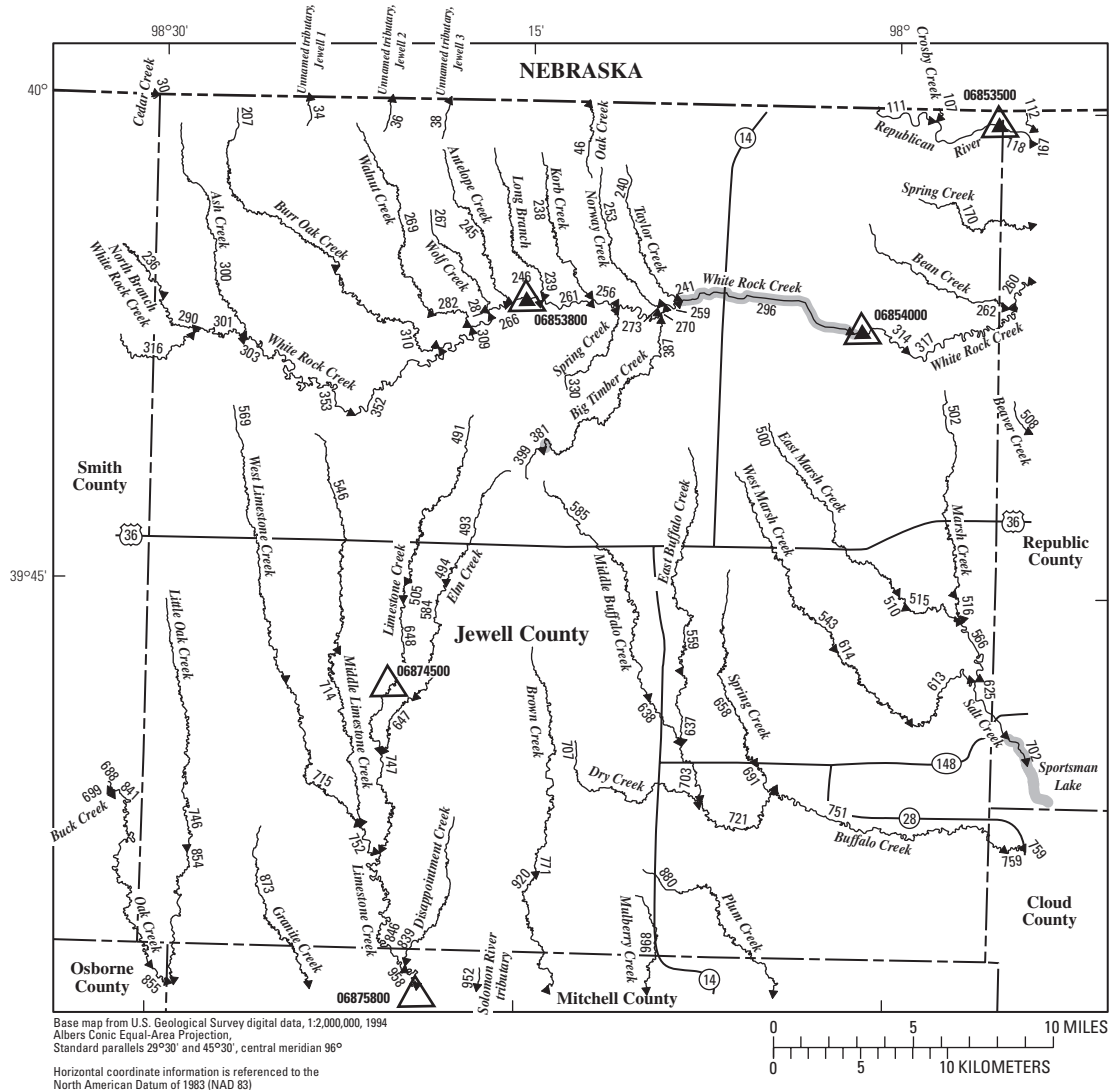
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 54)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
1541	NA	NA	NA	NA	NA	NA	NA
1548	12.9	1,310	2,660	3,810	5,550	6,960	8,610
1553	42.6	5,800	9,100	11,700	15,000	17,800	20,500
1556	3.39	788	1,560	2,200	3,150	3,920	4,790
1579	8.84	1,270	2,660	3,860	5,650	7,130	8,820
1580	31.2	2,090	3,220	4,040	5,170	6,060	7,010
1588	39.5	2,710	4,310	5,560	7,250	8,610	10,000
1637	4.22	880	1,760	2,490	3,580	4,470	5,460
1644	NA	NA	NA	NA	NA	NA	NA
1645	NA	NA	NA	NA	NA	NA	NA
1661	NA	NA	NA	NA	NA	NA	NA
1697	NA	NA	NA	NA	NA	NA	NA
1698	NA	NA	NA	NA	NA	NA	NA
1707	NA	NA	NA	NA	NA	NA	NA
1724	19.4	2,010	4,150	5,970	8,720	11,000	13,600
1732	27.4	2,580	5,430	7,890	11,600	14,700	18,200
1736	13.6	1,630	3,350	4,800	6,970	8,760	10,800
1737	8.32	1,230	2,490	3,550	5,130	6,430	7,890
1741	7.00	1,030	2,100	2,990	4,320	5,420	6,650
1742	6.34	971	1,960	2,790	4,030	5,050	6,190
1758	8.00	1,210	2,580	3,760	5,560	7,050	8,740
1767	152	900	1,610	2,200	2,780	3,830	4,660
1769	19.6	2,030	4,200	6,040	8,810	11,100	13,700
1772	6,620	38,100	69,500	96,600	126,000	176,000	220,000
1779	12.3	1,570	3,340	4,860	7,170	9,090	11,300
1781	48.3	3,690	7,680	11,200	16,500	21,100	26,100
1798	58.5	4,170	8,570	12,500	18,300	23,300	28,800
1807	6,690	38,700	70,400	97,600	127,000	177,000	221,000
1831	6,680	38,600	70,300	97,500	127,000	177,000	221,000
1835	6,620	38,200	69,600	96,700	126,000	176,000	220,000
1862	19.8	2,010	4,150	5,970	8,700	10,900	13,500
1939	10.5	1,430	3,030	4,410	6,510	8,240	10,200
5416	19.6	2,030	4,200	6,040	8,810	11,100	13,700

Table 50. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Jefferson County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 54)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
1541	NA	NA	NA	NA	NA	NA	NA
1548	12.9	1,310	2,660	3,810	5,550	6,960	8,610
1553	42.6	5,800	9,100	11,700	15,000	17,800	20,500
1556	3.39	788	1,560	2,200	3,150	3,920	4,790
1579	8.84	1,270	2,660	3,860	5,650	7,130	8,820
1580	31.2	2,090	3,220	4,040	5,170	6,060	7,010
1588	39.5	2,710	4,310	5,560	7,250	8,610	10,000
1637	4.22	880	1,760	2,490	3,580	4,470	5,460
1644	NA	NA	NA	NA	NA	NA	NA
1645	NA	NA	NA	NA	NA	NA	NA
1661	NA	NA	NA	NA	NA	NA	NA
1697	NA	NA	NA	NA	NA	NA	NA
1698	NA	NA	NA	NA	NA	NA	NA
1707	NA	NA	NA	NA	NA	NA	NA
1724	19.4	2,010	4,150	5,970	8,720	11,000	13,600
1732	27.4	2,580	5,430	7,890	11,600	14,700	18,200
1736	13.6	1,630	3,350	4,800	6,970	8,760	10,800
1737	8.32	1,230	2,490	3,550	5,130	6,430	7,890
1741	7.00	1,030	2,100	2,990	4,320	5,420	6,650
1742	6.34	971	1,960	2,790	4,030	5,050	6,190
1758	8.00	1,210	2,580	3,760	5,560	7,050	8,740
1767	152	900	1,610	2,200	2,780	3,830	4,660
1769	19.6	2,030	4,200	6,040	8,810	11,100	13,700
1772	6,620	38,100	69,500	96,600	126,000	176,000	220,000
1779	12.3	1,570	3,340	4,860	7,170	9,090	11,300
1781	48.3	3,690	7,680	11,200	16,500	21,100	26,100
1798	58.5	4,170	8,570	12,500	18,300	23,300	28,800
1807	6,690	38,700	70,400	97,600	127,000	177,000	221,000
1831	6,680	38,600	70,300	97,500	127,000	177,000	221,000
1835	6,620	38,200	69,600	96,700	126,000	176,000	220,000
1862	19.8	2,010	4,150	5,970	8,700	10,900	13,500
1939	10.5	1,430	3,030	4,410	6,510	8,240	10,200
5416	19.6	2,030	4,200	6,040	8,810	11,100	13,700



EXPLANATION

- ← 746 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06853800 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06875800 ▽ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 926 Lake and determination site identification number

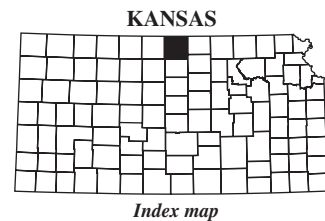


Figure 55. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Jewell County.

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Table 51. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Jewell County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 55)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded					
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent	
34	1025001664	JW				Unnamed tributary, Jewell 1	6.07	0	0	0	0	0	0
36	1025001669	JW				Unnamed tributary, Jewell 2	3.40	0	0	0	0	0	0
38	1025001670	JW				Unnamed tributary, Jewell 3	3.68	0	0	0	0	0	0
46	1025001675	JW				Oak Creek	7.00	0	0	0	0	0	0
107	1025001677	JW				Crosby Creek	11.0	0	0	.04	.08	.82	
111	102500162	JW				Republican River	20,600	59.1	106	163	298	709	
118	102500162	JW	RP			Republican River	20,600	63.0	110	167	307	728	
170	1025001678	JW	RP			Spring Creek	18.3	0	0	.25	.47	1.91	
207	1025001648	JW				Burr Oak Creek	26.0	0	0	.89	1.93	4.68	
236	1025001660	JW	SM			North Branch White Rock Creek	22.4	0	0	.41	.88	2.55	
238	1025001672	JW				Korb Creek	10.9	0	0	.02	.05	.66	
239	1025001668	JW				Long Branch	10.4	0	0	0	.01	.55	
240	1025001674	JW				Taylor Creek	17.1	0	0	.63	1.19	3.08	
241	HYDRO	JW				HYDRO	17.1	NA	NA	NA	NA	NA	
245	1025001666	JW				Antelope Creek	8.28	0	0	0	0	0	
246	1025001645	JW				White Rock Creek	221	.47	1.80	6.00	17.0	40.0	
253	1025001673	JW				Norway Creek	6.56	0	0	0	0	0	
256	1025001645	JW				White Rock Creek	247	.67	2.32	7.35	20.2	47.8	
259	1025001645	JW				White Rock Creek	288	1.02	3.27	9.87	26.2	62.2	
261	1025001645	JW				White Rock Creek	235	.58	2.09	6.75	18.8	44.3	
262	1025001676	JW	RP			Bean Creek	20.7	0	0	.61	1.27	3.49	
266	1025001645	JW				White Rock Creek	211	.37	1.75	5.81	16.3	38.3	
267	1025001667	JW				Wolf Creek	5.62	0	0	0	0	0	
269	1025001646	JW				Walnut Creek	17.2	0	0	.46	.87	2.40	
270	1025001645	JW				White Rock Creek	280	.96	3.12	9.47	25.2	59.9	
273	1025001645	JW				White Rock Creek	257	.76	2.58	8.02	21.8	51.6	
281	1025001645	JW				White Rock Creek	205	.30	1.70	5.63	15.8	37.1	
282	1025001646	JW				Walnut Creek	18.9	0	0	.57	1.10	2.90	
290	1025001660	JW				North Branch White Rock Creek	25.3	0	0	.55	1.22	3.31	
296	HYDRO	JW				HYDRO	335	NA	NA	NA	NA	NA	
300	1025001665	JW				Ash Creek	19.8	0	0	.44	.89	2.52	
301	1025001649	JW				White Rock Creek	101	.06	.63	2.73	7.13	16.7	
303	1025001649	JW				White Rock Creek	121	.08	.87	3.33	8.85	20.7	
309	1025001647	JW				White Rock Creek	184	.19	1.53	5.13	14.1	33.1	
310	1025001648	JW				Burr Oak Creek	36.4	.01	.21	1.44	3.27	7.60	
314	1025001641	JW				White Rock Creek	342	.06	.10	.20	.57	55.0	
316	1025001649	JW	SM			White Rock Creek	72.7	.03	.28	1.86	4.76	11.3	
317	1025001641	JW	RP			White Rock Creek	354	.13	.19	.34	.88	55.6	

Table 51. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Jewell County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 55)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
34	0.39	396	1,020	1,610	2,560	3,380	4,340
36	0	286	727	1,140	1,790	2,360	3,020
38	0	304	771	1,210	1,900	2,500	3,200
46	.88	451	1,150	1,810	2,870	3,790	4,860
107	1.93	607	1,550	2,440	3,870	5,110	6,560
111	324	4,870	8,330	10,700	13,700	15,900	18,000
118	333	4,940	8,500	11,000	14,000	16,300	18,500
170	3.07	820	2,110	3,350	5,340	7,070	9,100
207	4.74	909	2,410	3,860	6,220	8,300	10,700
236	3.35	791	2,120	3,410	5,520	7,380	9,570
238	1.77	581	1,500	2,370	3,770	4,990	6,420
239	1.67	564	1,450	2,300	3,660	4,850	6,230
240	3.50	773	2,000	3,170	5,060	6,710	8,630
241	NA	NA	NA	NA	NA	NA	NA
245	1.06	489	1,260	1,980	3,150	4,170	5,350
246	28.6	1,520	3,040	4,430	6,680	8,760	11,200
253	.67	439	1,120	1,750	2,770	3,660	4,680
256	33.5	1,640	3,320	4,870	7,360	9,660	12,400
259	42.1	1,830	3,750	5,520	8,370	11,000	14,100
261	31.3	1,600	3,220	4,710	7,110	9,320	11,900
262	4.05	881	2,280	3,610	5,760	7,640	9,840
266	27.6	1,490	3,050	4,490	6,830	8,990	11,500
267	.45	389	994	1,560	2,470	3,260	4,180
269	3.06	731	1,910	3,050	4,890	6,500	8,390
270	40.7	1,800	3,680	5,420	8,210	10,800	13,800
273	35.8	1,660	3,380	4,950	7,510	9,860	12,600
281	26.9	1,470	3,040	4,500	6,870	9,070	11,600
282	3.41	773	2,030	3,230	5,190	6,900	8,910
290	3.91	851	2,280	3,670	5,950	7,960	10,300
296	NA	NA	NA	NA	NA	NA	NA
300	3.26	772	2,040	3,260	5,250	7,000	9,050
301	13.8	1,020	2,530	4,040	6,520	8,810	11,500
303	16.5	1,170	2,790	4,390	7,000	9,420	12,200
309	24.5	1,360	2,950	4,450	6,900	9,180	11,800
310	6.81	764	1,970	3,170	5,100	6,860	8,860
314	33.2	460	1,300	2,260	3,760	5,080	6,380
316	9.90	841	2,180	3,530	5,760	7,830	10,200
317	33.5	463	1,310	2,270	3,780	5,100	6,410

Table 51. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Jewell County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 55)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded				
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent
330	1025001671	JW				Spring Creek	9.14	0	0	0.14	0.28	0.88
352	1025001649	JW				White Rock Creek	145	.12	1.15	4.02	10.8	25.3
353	1025001649	JW				White Rock Creek	134	.10	1.05	3.76	10.1	23.5
381	HYDRO	JW				HYDRO	2.51	NA	NA	NA	NA	NA
387	102500161301	JW				Big Timber Creek	22.8	0	.27	1.34	2.73	6.15
399	102500161301	JW				Big Timber Creek	2.47	0	0	0	0	0
491	1026001519	JW				Limestone Creek	20.4	0	0	.56	1.15	3.18
493	1026001559	JW				Elm Creek	12.0	0	0	.22	.26	1.17
494	1026001559	JW				Elm Creek	12.1	0	0	.23	.29	1.22
500	1025001742	JW				East March Creek	32.6	0	.16	1.39	3.38	8.53
502	1025001735	JW				Marsh Creek	29.5	0	0	.73	1.99	5.87
505	1026001519	JW				Limestone Creek	21.4	0	0	.63	1.30	3.49
510	1025001742	JW				East March Creek	34.9	0	.18	1.46	3.58	9.09
515	1025001742	JW				East March Creek	38.3	0	.22	1.58	3.96	10.1
516	1025001735	JW				Marsh Creek	31.9	0	0	.82	2.27	6.60
543	1025001736	JW				West Marsh Creek	20.4	0	0	.59	1.36	3.89
546	1026001521	JW				Middle Limestone Creek	23.3	0	0	.47	1.00	2.92
559	1025001768	JW				East Buffalo Creek	22.5	0	.08	1.00	2.18	5.41
566	1025001735	JW				Marsh Creek	78.2	0	.72	2.99	8.31	22.2
569	1026001522	JW				West Limestone Creek	38.6	0	0	1.06	2.49	6.28
584	1026001559	JW				Elm Creek	25.5	0	.05	1.02	2.22	5.40
585	1025001737	JW				Middle Buffalo Creek	29.1	0	.24	1.41	3.22	7.87
613	1025001736	JW				West Marsh Creek	44.1	0	.09	1.34	3.63	9.96
614	1025001736	JW				West Marsh Creek	35.8	0	0	1.00	2.67	7.50
625	1025001734	JW	RP			Salt Creek	129	0	1.33	4.71	13.9	38.9
637	1025001768	JW				East Buffalo Creek	25.8	0	.08	1.08	2.46	6.19
638	1025001737	JW				Middle Buffalo Creek	32.0	0	.26	1.47	3.44	8.55
647	1026001559	JW				Elm Creek	29.5	0	.05	1.08	2.44	6.01
648	1026001519	JW				Limestone Creek	28.8	0	0	.84	1.90	4.92
658	1025001744	JW				Spring Creek	19.7	0	0	.39	.95	3.08
691	1025001744	JW				Spring Creek	22.9	0	0	.51	1.26	3.87
703	1025001737	JW				Buffalo Creek	61.1	0	.77	2.84	7.21	18.1
707	1025001743	JW				Dry Creek	14.8	0	0	.05	.12	1.22
714	1026001521	JW				Middle Limestone Creek	31.9	0	0	.65	1.55	4.29
715	1026001522	JW				West Limestone Creek	53.1	0	.23	1.61	3.84	9.32
721	1025001737	JW				Buffalo Creek	85.6	0	1.02	3.58	9.57	25.0
746	102600123	JW				Little Oak Creek	35.4	0	0	.73	1.77	4.70
747	1026001519	JW				Limestone Creek	64.7	0	.60	2.46	5.92	14.3

Table 51. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Jewell County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 55)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
330	1.71	537	1,370	2,160	3,420	4,520	5,800
352	19.6	1,210	2,810	4,360	6,910	9,270	12,000
353	18.3	1,170	2,770	4,330	6,900	9,280	12,000
381	NA	NA	NA	NA	NA	NA	NA
387	5.44	931	2,410	3,830	6,110	8,110	10,500
399	0	258	638	988	1,540	2,010	2,560
491	3.77	653	1,560	2,390	3,710	4,840	6,140
493	2.18	640	1,630	2,570	4,080	5,390	6,910
494	2.22	644	1,640	2,590	4,110	5,430	6,960
500	7.35	1,210	2,890	4,470	6,930	9,110	11,500
502	5.95	1,090	2,830	4,500	7,200	9,560	12,300
505	3.99	657	1,560	2,380	3,680	4,800	6,090
510	7.81	1,220	2,920	4,530	7,030	9,260	11,700
515	8.53	1,130	2,760	4,320	6,790	9,010	11,500
516	6.49	711	1,900	3,090	5,060	6,860	8,930
543	4.22	867	2,240	3,560	5,680	7,540	9,710
546	3.69	830	2,210	3,540	5,710	7,620	9,860
559	5.08	925	2,390	3,800	6,060	8,040	10,400
566	16.8	1,570	3,790	5,910	9,290	12,300	15,800
569	6.24	961	2,380	3,740	5,890	7,830	10,000
584	5.24	941	2,460	3,910	6,280	8,340	10,800
585	6.82	1,090	2,830	4,490	7,180	9,520	12,300
613	8.85	1,010	2,560	4,070	6,510	8,730	11,200
614	7.10	972	2,450	3,880	6,180	8,260	10,600
625	26.9	1,790	4,300	6,730	10,600	14,200	18,300
637	5.72	998	2,590	4,120	6,590	8,750	11,300
638	7.36	993	2,440	3,830	6,010	7,980	10,200
647	5.79	1,000	2,640	4,210	6,770	9,020	11,700
648	5.16	608	1,320	1,940	2,880	3,680	4,580
658	3.75	841	2,180	3,460	5,530	7,340	9,450
691	4.36	913	2,380	3,780	6,050	8,030	10,400
703	13.8	1,380	3,320	5,170	8,090	10,700	13,700
707	2.40	697	1,810	2,860	4,570	6,060	7,810
714	4.88	638	1,690	2,750	4,490	6,080	7,900
715	8.49	913	2,290	3,640	5,820	7,790	10,000
721	18.3	1,480	3,590	5,610	8,850	11,800	15,100
746	5.11	786	2,060	3,310	5,350	7,210	9,310
747	12.0	659	1,250	1,750	2,460	3,100	3,730

Table 51. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Jewell County.—Continued

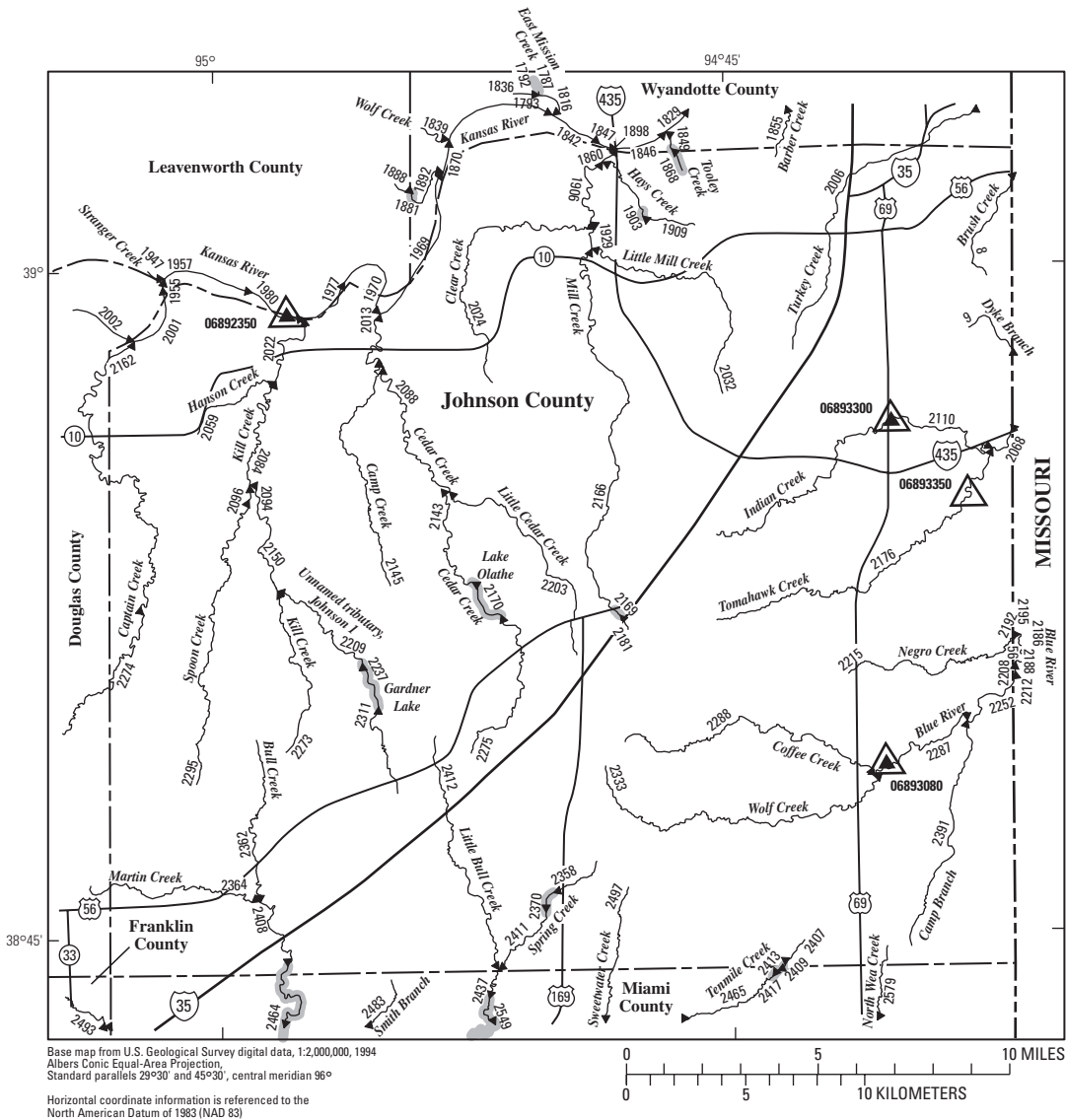
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 55)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded				
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent
		752	1026001520	JW						Limestone Creek	86.8	0
771	1026001515	JW				Brown Creek	34.0	0	.02	1.09	2.58	6.57
839	1026001535	JW	MC			Disappointment Creek	18.3	0	0	0	0	.51
841	102600124	JW	OB	SM		Oak Creek	175	0	1.58	4.98	12.4	30.0
846	1026001518	JW	MC			Limestone Creek	165	0	2.00	5.93	14.6	35.4
854	102600123	JW	MC			Little Oak Creek	45.8	0	0	.92	2.33	6.18
873	1026001524	JW	MC			Granite Creek	28.7	0	0	.11	.44	2.10
880	1026001513	JW	MC			Plum Creek	32.3	0	0	.32	1.00	3.63
920	1026001515	JW	MC			Brown Creek	58.8	0	.19	1.57	4.02	10.4
968	1026001536	JW	MC			Mulberry Creek	30.3	0	0	.20	.68	2.83

Table 51. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Jewell County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 55)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
752	13.9	1,190	2,830	4,390	6,870	9,100	11,600
771	6.40	891	2,260	3,600	5,750	7,690	9,880
839	2.11	692	1,850	2,970	4,810	6,430	8,320
841	23.6	1,590	4,050	6,490	10,500	14,100	18,300
846	27.0	1,090	2,010	2,770	3,870	4,810	5,800
854	6.42	823	2,180	3,540	5,760	7,790	10,100
873	3.45	866	2,370	3,850	6,300	8,460	11,000
880	4.84	729	1,940	3,150	5,140	6,960	9,030
920	9.77	1,070	2,740	4,380	7,040	9,460	12,200
968	4.18	767	2,010	3,240	5,240	7,070	9,140



EXPLANATION

- ← 2493 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06893080 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06893350 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 2483 Lake and determination site identification number

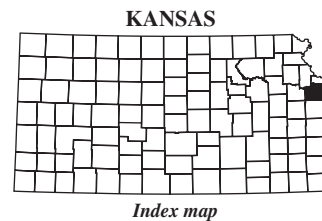


Figure 56. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Johnson County.

324 Estimates of Flow Duration, Mean Flow, and Peak-Discharge Frequency Values for Kansas Stream Locations

Table 52. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Johnson County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRtribal, tribal stream]

Determination site identification number (fig. 56)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded				
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent
8	1030010154	JO				Brush Creek	12.0	0	0.54	2.56	7.15	17.6
9	1030010155	JO				Dyke Branch	4.13	0	.05	.78	2.00	5.25
56	1030010133	JO				Blue River	83.9	3.07	11.2	31.1	88.0	234
1855	10270104373	JO	WY			Barber Creek	10.0	0	1.33	4.03	9.66	20.8
1860	1027010439	JO	WY			Mill Creek	74.2	0	2.29	11.0	36.6	102
1868	HYDRO	JO	WY			HYDRO	2.32	NA	NA	NA	NA	NA
1898	10270104406	JO				Hays Creek	5.90	0	.78	2.41	5.60	12.1
1903	HYDRO	JO				HYDRO	4.19	NA	NA	NA	NA	NA
1906	1027010439	JO				Mill Creek	68.1	0	1.99	9.82	32.9	91.7
1909	10270104406	JO				Hays Creek	4.16	.04	.61	1.67	3.65	7.87
1929	1027010439	JO				Mill Creek	47.3	0	1.38	7.29	24.3	66.8
1969	102701042	JO	LV	WY		Kansas River	58,500	1,260	2,110	4,010	9,620	21,600
1970	102701042	JO	LV			Kansas River	58,400	1,250	2,110	4,010	9,610	21,600
2001	1027010418	JO	LV			Kansas River	57,800	1,200	2,020	3,820	9,070	20,500
2006	1027010477	JO	WY			Turkey Creek	31.4	0	1.61	6.63	19.4	48.5
2013	1027010438	JO				Cedar Creek	55.4	0	1.28	7.28	25.3	72.2
2022	1027010437	JO	LV			Kill Creek	62.1	0	1.12	6.53	23.2	68.4
2024	10270104383	JO				Clear Creek	18.2	0	.38	2.83	8.91	23.7
2032	1027010478	JO				Little Mill Creek	17.2	0	.70	3.66	10.9	27.4
2059	10270104437	JO				Hanson Creek	6.65	0	0	.17	1.46	5.85
2068	1030010132	JO				Indian Creek	54.6	1.30	5.35	15.8	32.1	86.5
2084	1027010437	JO				Kill Creek	52.3	0	.92	5.61	19.8	57.8
2088	1027010438	JO				Cedar Creek	39.0	0	.84	5.41	18.7	52.5
2094	1027010475	JO				Spoon Creek	18.3	0	0	1.79	6.50	19.1
2096	1027010475	JO				Spoon Creek	18.2	0	0	1.77	6.45	19.0
2110	1030010132	JO				Indian Creek	27.5	1.30	4.70	13.0	22.0	56.0
2143	1027010438	JO				Cedar Creek	19.4	0	.10	2.43	8.57	24.4
2145	1027010474	JO				Camp Creek	13.8	0	0	1.87	6.40	17.8
2150	1027010437	JO				Kill Creek	29.5	0	.38	3.41	11.9	34.0
2166	1027010439	JO				Mill Creek	29.8	0	.64	4.46	15.1	41.7
2169	HYDRO	JO				HYDRO	4.33	NA	NA	NA	NA	NA
2170	HYDRO	JO				HYDRO	15.0	NA	NA	NA	NA	NA
2176	1030010153	JO				Tomahawk Creek	25.2	0	.24	2.99	10.6	30.4
2181	1027010439	JO				Mill Creek	3.48	0	0	0	.32	2.22
2186	1030010158	JO				Negro Creek	11.6	.06	.18	1.92	6.28	17.4
2188	1030010133	JO				Blue River	84.7	3.15	11.5	31.8	89.8	239
2192	1030010133	JO				Blue River	84.7	3.15	11.5	31.8	89.8	239
2195	1030010133	JO				Blue River	84.7	3.15	11.5	31.8	89.8	239

Table 52. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Johnson County.—Continued[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 56)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
8	12.2	1,650	3,360	4,800	6,950	8,720	10,700
9	4.15	899	1,780	2,520	3,600	4,480	5,470
56	147	6,610	11,700	15,900	22,200	27,600	33,600
1855	12.3	1,450	2,950	4,220	6,120	7,680	9,440
1860	65.9	8,060	14,100	19,000	25,800	31,400	37,300
1868	NA	NA	NA	NA	NA	NA	NA
1898	7.40	1,070	2,150	3,060	4,410	5,510	6,760
1903	NA	NA	NA	NA	NA	NA	NA
1906	60.3	7,770	13,600	18,400	25,000	30,500	36,100
1909	5.03	877	1,750	2,480	3,560	4,430	5,430
1929	44.4	6,710	11,800	15,900	21,700	26,400	31,300
1969	8,470	50,100	88,900	119,000	148,000	200,000	240,000
1970	8,460	50,100	88,900	119,000	148,000	200,000	240,000
2001	8,070	47,800	85,100	115,000	144,000	196,000	236,000
2006	31.1	5,020	8,850	11,900	16,100	19,500	23,100
2013	49.1	6,240	11,400	15,600	21,700	26,700	31,900
2022	49.0	6,720	12,200	16,700	23,200	28,500	34,200
2024	16.9	2,030	4,200	6,050	8,840	11,100	13,700
2032	18.2	2,040	4,180	5,990	8,710	10,900	13,500
2059	5.59	1,140	2,300	3,270	4,730	5,910	7,260
2068	55.7	6,680	10,700	13,700	17,800	21,200	24,500
2084	41.8	6,470	11,700	15,900	22,000	27,000	32,200
2088	36.2	5,400	9,900	13,600	18,800	23,100	27,700
2094	15.2	2,080	4,280	6,150	8,960	11,300	13,900
2096	15.1	2,070	4,260	6,120	8,920	11,200	13,900
2110	34.6	4,060	6,210	7,770	9,890	11,600	13,300
2143	18.0	2,210	4,520	6,480	9,430	11,800	14,600
2145	13.2	1,770	3,620	5,190	7,530	9,450	11,600
2150	25.2	2,780	5,750	8,300	12,100	15,300	18,900
2166	28.7	2,830	5,850	8,430	12,300	15,500	19,200
2169	NA	NA	NA	NA	NA	NA	NA
2170	NA	NA	NA	NA	NA	NA	NA
2176	22.6	2,630	4,890	6,760	9,520	11,900	14,500
2181	2.75	829	1,630	2,290	3,270	4,060	4,950
2186	12.8	1,650	3,340	4,760	6,870	8,610	10,600
2188	150	6,560	11,700	15,900	22,200	27,600	33,500
2192	150	6,580	11,700	15,900	22,200	27,600	33,600
2195	150	6,590	11,700	15,900	22,200	27,600	33,600

Table 52. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Johnson County.—Continued

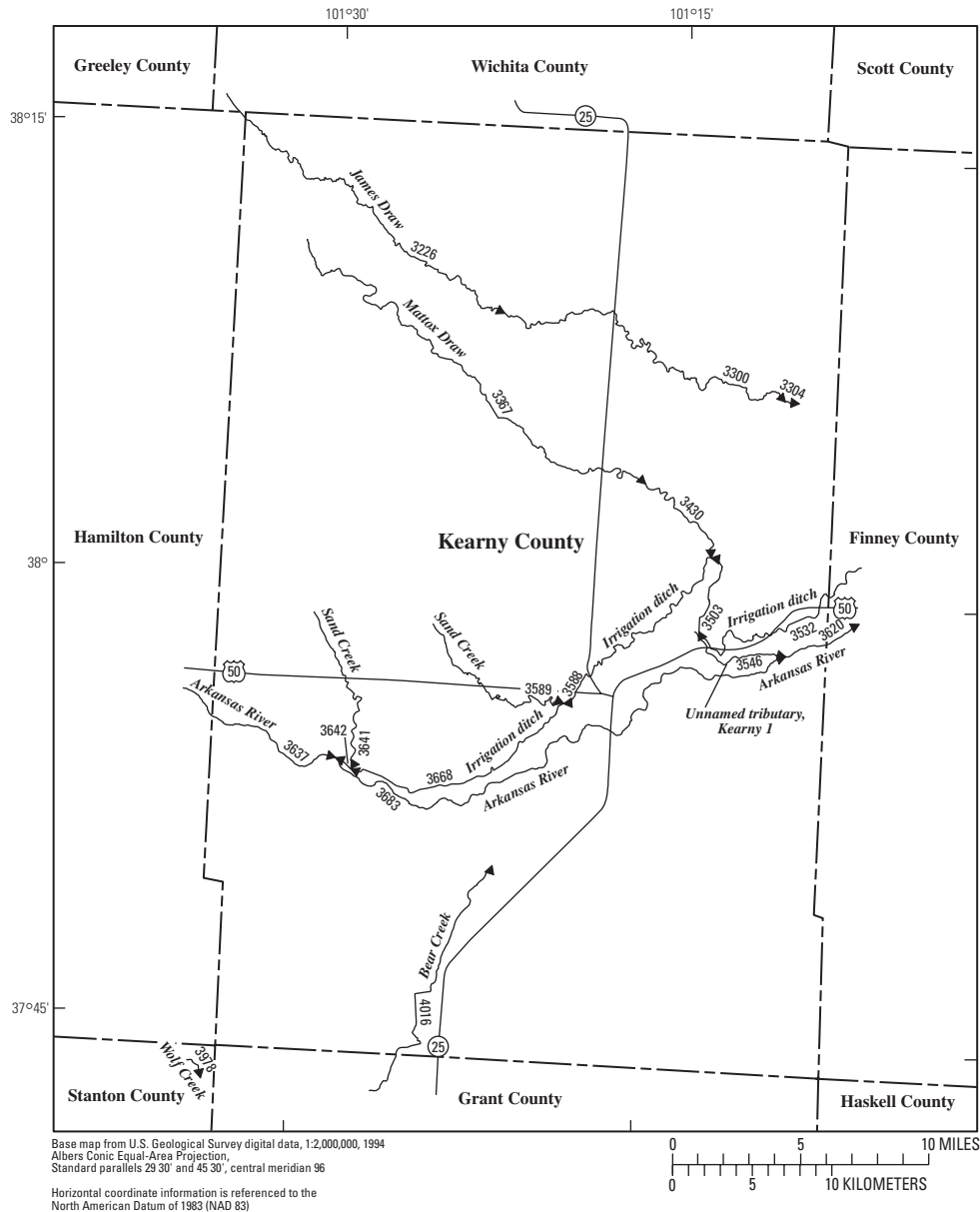
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 56)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded				
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent
2203	1027010476	JO				Little Cedar Creek	12.5	0	0	1.75	6.02	16.8
2208	1030010133	JO				Blue River	80.6	2.83	10.4	29.0	82.2	219
2209	10270104452	JO				Unnamed tributary, Johnson 1	16.1	0	0	1.57	5.84	17.3
2212	1030010133	JO				Blue River	80.6	2.83	10.4	29.0	82.2	219
2215	1030010158	JO				Negro Creek	11.6	.06	.18	1.92	6.28	17.4
2237	HYDRO	JO				HYDRO	10.9	NA	NA	NA	NA	NA
2252	1030010133	JO				Blue River	80.4	2.75	10.1	28.4	80.7	215
2273	1027010437	JO				Kill Creek	8.34	0	0	1.04	3.39	9.57
2275	1027010438	JO				Cedar Creek	11.5	0	0	.94	3.75	11.6
2287	1030010133	JO				Blue River	46.4	.07	.69	5.00	19.0	57.0
2288	1030010157	JO				Coffee Creek	18.2	0	0	1.95	7.27	21.4
2295	1027010475	JO				Spoon Creek	18.2	0	0	1.77	6.45	19.0
2311	10270104452	JO				Unnamed tributary, Johnson 1	7.94	0	0	.23	1.51	5.89
2333	103001011102	JO				Wolf Creek	23.9	.02	.13	2.66	9.88	29.0
2358	1029010250	JO				Spring Creek	4.71	0	0	.42	1.60	5.13
2362	1029010226	JO				Bull Creek	9.70	0	0	.98	3.42	10.1
2370	HYDRO	JO				HYDRO	5.69	NA	NA	NA	NA	NA
2391	1030010156	JO				Camp Branch	28.3	.32	1.32	5.65	17.7	48.4
2407	1029010225	JO				Tenmile Creek	6.01	0	0	.35	1.63	5.64
2408	1029010226	JO				Bull Creek	33.0	0	.42	3.48	12.2	35.3
2409	HYDRO	JO				HYDRO	6.30	NA	NA	NA	NA	NA
2411	1029010250	JO				Spring Creek	9.26	0	0	1.25	4.26	12.0
2412	1029010251	JO				Little Bull Creek	16.6	0	0	1.78	6.33	18.3
2413	1029010225	JO				Tenmile Creek	6.63	0	0	.42	1.88	6.35
2417	HYDRO	JO	MI			HYDRO	7.10	NA	NA	NA	NA	NA
2437	1029010250	JO	MI			Spring Creek	27.7	0	.31	3.18	11.2	32.2
2464	HYDRO	JO	MI			HYDRO	39.0	NA	NA	NA	NA	NA
2497	1029010249	JO	MI			Sweetwater Creek	12.6	0	0	1.36	4.97	14.6
2579	1029010221	JO	MI			North Wea Creek	26.5	0	.12	2.74	10.2	30.2

Table 52. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Johnson County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 56)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
2203	12.5	1,720	3,480	4,970	7,200	9,020	11,100
2208	138	6,490	11,500	15,700	21,900	27,200	33,100
2209	13.8	1,970	4,030	5,760	8,370	10,500	13,000
2212	138	6,530	11,600	15,700	21,900	27,300	33,200
2215	12.8	1,650	3,340	4,760	6,870	8,610	10,600
2237	NA	NA	NA	NA	NA	NA	NA
2252	135	6,570	11,600	15,800	22,000	27,400	33,300
2273	7.65	1,330	2,690	3,830	5,520	6,910	8,490
2275	9.82	1,640	3,310	4,720	6,820	8,540	10,500
2287	36.0	4,820	8,610	11,700	16,400	20,500	25,000
2288	15.7	2,060	4,150	5,920	8,630	10,900	13,500
2295	15.1	2,070	4,260	6,120	8,920	11,200	13,900
2311	5.98	1,310	2,640	3,750	5,410	6,760	8,290
2333	20.3	2,350	4,750	6,790	9,930	12,600	15,600
2358	4.50	989	1,960	2,760	3,940	4,910	6,000
2362	8.35	1,460	2,950	4,210	6,080	7,620	9,360
2370	NA	NA	NA	NA	NA	NA	NA
2391	33.6	2,780	5,720	8,230	12,000	15,100	18,700
2407	5.24	1,140	2,260	3,200	4,590	5,720	7,000
2408	26.6	4,280	8,090	11,200	15,800	19,500	23,500
2409	NA	NA	NA	NA	NA	NA	NA
2411	9.19	1,460	2,940	4,170	6,010	7,510	9,210
2412	14.4	2,030	4,140	5,920	8,590	10,800	13,300
2413	5.79	1,200	2,400	3,400	4,880	6,080	7,450
2417	NA	NA	NA	NA	NA	NA	NA
2437	24.1	2,750	5,650	8,130	11,900	14,900	18,400
2464	NA	NA	NA	NA	NA	NA	NA
2497	11.6	1,770	3,560	5,070	7,320	9,170	11,300
2579	23.1	2,710	5,560	7,970	11,600	14,600	18,000



EXPLANATION

- ◀ 4016 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06853800 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06875800 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 926 Lake and determination site identification number

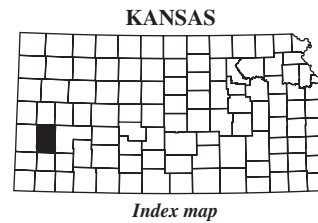


Figure 57. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Kearny County.

Table 53. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Kearny County.

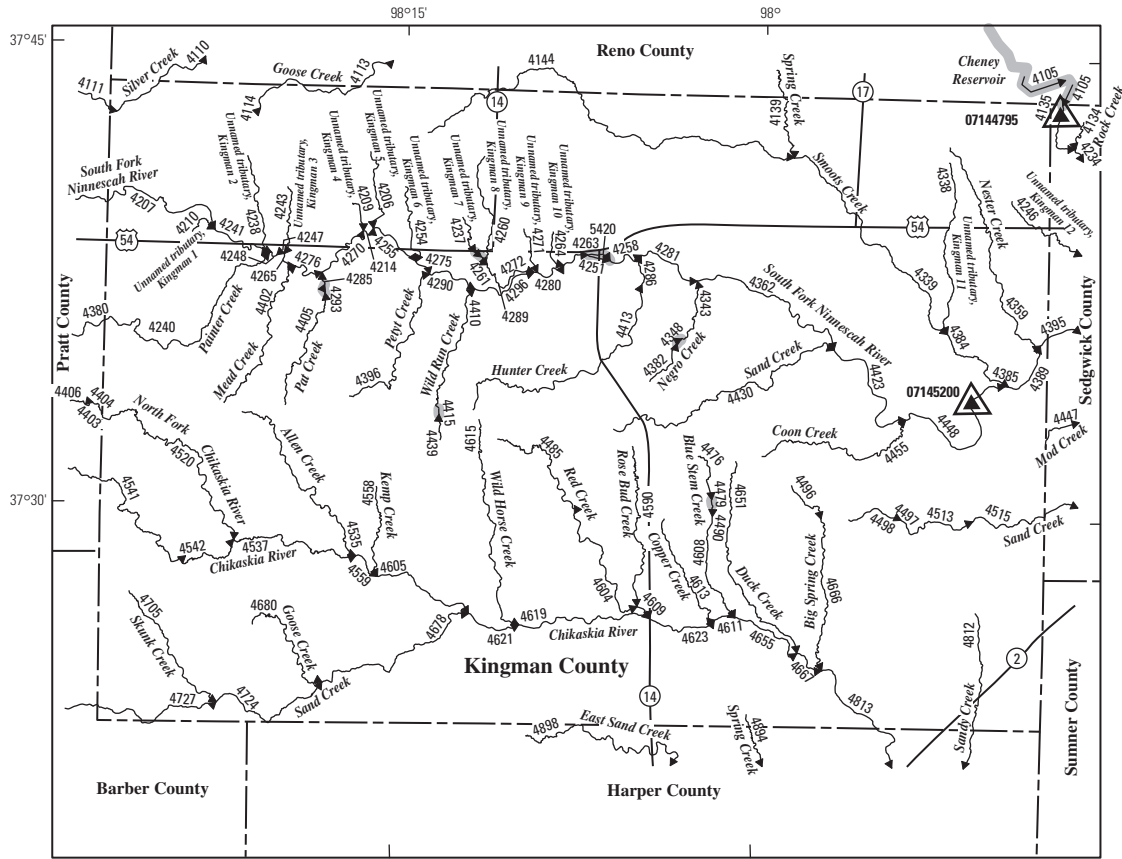
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 57)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded					
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent	
		3300	1103000110	KE						James Draw	326	0	0
3304	1103000110	KE				James Draw	372	0	0	0	0	0	0
3367	1103000111	KE				Mattox Draw	155	0	0	0	0	0	0
3430	1103000111	KE				Mattox Draw	175	0	0	0	0	0	0
3503	1103000111	KE				Mattox Draw	192	0	0	0	0	0	0
3546	1103000118	KE				Unnamed tributary, Kearny 1	3.15	0	0	0	0	0	0
3588	NRDitch	KE				NRDitch	396	0	0	0	0	0	0
3589	1103000113	KE				Sand Creek	46.0	0	0	0	0	0	0
3641	1103000114	KE				Sand Creek	67.2	0	0	0	0	0	0
3642	NRDitch	KE				NRDitch	524	0	0	0	0	0	0
3668	NRDitch	KE				NRDitch	456	0	0	0	0	0	0
3683	110300013	KE				Arkansas River	26,600	1.53	12.6	55.8	182	352	

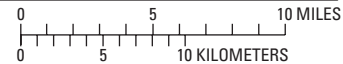
Table 53. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Kearny County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 57)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
3300	0.17	416	1,510	2,840	5,380	7,990	11,300
3304	.49	473	1,680	3,160	5,930	8,780	12,400
3367	0	270	1,010	1,920	3,670	5,480	7,750
3430	0	297	1,100	2,090	3,960	5,900	8,340
3503	.35	275	1,020	1,960	3,740	5,600	7,940
3546	0	76	263	471	840	1,190	1,610
3588	1.41	505	1,750	3,250	6,030	8,870	12,400
3589	0	170	634	1,200	2,270	3,360	4,710
3641	0	211	778	1,470	2,770	4,100	5,750
3642	2.20	472	1,690	3,170	5,990	8,890	12,500
3668	1.88	448	1,600	3,000	5,660	8,390	11,800
3683	180	955	3,590	9,250	21,900	36,900	62,400



Base map from U.S. Geological Survey digital data, 1:2,000,000, 1994
 Albers Conic Equal-Area Projection,
 Standard parallels 29°30' and 45°30', central meridian 96°
 Horizontal coordinate information is referenced to the
 North American Datum of 1983 (NAD 83)



EXPLANATION

- ◀ 4727 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- ▲ 07145200 U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- ◀ 07144795 U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 4105 Lake and determination site identification number

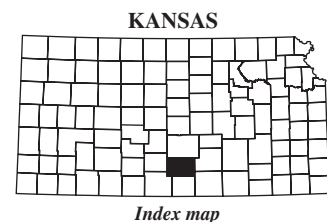


Figure 58. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Kingman County.

Table 54. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Kingman County.[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 58)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded				
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent
		4110	110300147	KM	RN					Silver Creek	93.6	1.34
4111	110300147	KM	PR			Silver Creek	67.8	.79	1.73	2.59	4.24	8.36
4113	1103001410	KM	RN			Goose Creek	55.5	.08	1.08	2.39	4.93	11.5
4114	1103001410	KM				Goose Creek	2.22	0	0	0	0	0
4139	110300158	KM	RN			Spring Creek	46.2	.15	1.24	2.77	5.72	13.1
4144	110300152	KM	RN			Smoots Creek	76.4	1.50	3.03	5.20	9.69	20.3
4206	11030015259	KM				Unnamed tributary, Kingman 5	7.47	0	.10	.20	.24	.48
4207	110300154	KM	PR			South Fork Ninescah River	308	24.0	34.7	45.9	63.0	92.3
4209	11030015261	KM				Unnamed tributary, Kingman 4	2.91	0	0	0	0	0
4210	11030015417	KM				Unnamed tributary, Kingman 1	3.36	0	0	0	0	0
4214	110300153	KM				South Fork Ninescah River	431	38.8	56.1	75.4	106	159
4237	11030015518	KM				Unnamed tributary, Kingman 7	3.17	0	0	0	0	0
4238	11030015271	KM				Unnamed tributary, Kingman 2	8.86	0	.10	.20	.23	.27
4240	110300153	KM				South Fork Ninescah River	381	32.6	47.0	62.6	87.0	129
4241	110300154	KM				South Fork Ninescah River	314	24.8	35.7	47.3	65.1	95.5
4243	11030015270	KM				Unnamed tributary, Kingman 3	6.99	0	0	.05	.10	.20
4246	11030014411	KM	SG			Unnamed tributary, Kingman 12	10.6	.02	.49	.87	1.16	2.53
4247	110300153	KM				South Fork Ninescah River	390	33.7	48.6	65.0	90.4	134
4248	HYDRO	KM				HYDRO	3.41	NA	NA	NA	NA	NA
4251	110300153	KM				South Fork Ninescah River	516	49.5	71.9	97.7	138	211
4254	11030015253	KM				Unnamed tributary, Kingman 6	5.83	0	0	0	.01	.01
4255	110300153	KM				South Fork Ninescah River	440	40.0	57.8	77.9	109	165
4258	110300153	KM				South Fork Ninescah River	521	50.2	72.9	99.2	140	215
4260	11030015514	KM				Unnamed tributary, Kingman 8	11.0	0	0	0	.03	.06
4261	11030015518	KM				Unnamed tributary, Kingman 7	3.62	0	0	0	0	.01
4263	110300153	KM				South Fork Ninescah River	515	49.4	71.7	97.5	138	211
4264	11030015249	KM				Unnamed tributary, Kingman 10	5.20	0	0	0	.01	.01
4265	110300153	KM				South Fork Ninescah River	398	34.7	50.1	67.0	93.4	139
4270	110300153	KM				South Fork Ninescah River	427	38.3	55.3	74.3	104	156
4271	11030015520	KM				Unnamed tributary, Kingman 9	3.32	0	0	0	0	0
4272	110300153	KM				South Fork Ninescah River	502	47.7	69.2	93.9	133	202
4275	110300153	KM				South Fork Ninescah River	447	40.9	59.1	79.7	112	169
4276	110300153	KM				South Fork Ninescah River	411	36.3	52.4	70.2	98.1	147
4280	110300153	KM				South Fork Ninescah River	509	48.6	70.5	95.8	136	207
4281	110300153	KM				South Fork Ninescah River	554	54.3	79.0	108	153	236
4285	1103001511	KM				Pat Creek	12.1	.02	.06	.10	.21	.88
4286	1103001514	KM				Hunter Creek	24.9	.31	1.19	2.03	3.30	6.58
4289	11030015514	KM				Unnamed tributary, Kingman 8	16.1	.81	1.03	1.16	1.29	2.44

Table 54. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Kingman County.—Continued[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 58)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
4110	12.7	982	2,430	3,840	6,110	8,170	10,500
4111	8.23	832	2,060	3,240	5,130	6,820	8,740
4113	10.6	1,130	2,720	4,240	6,630	8,770	11,200
4114	0	246	605	935	1,450	1,900	2,410
4139	11.1	1,420	3,200	4,820	7,290	9,440	11,800
4144	16.0	1,370	3,090	4,670	7,070	9,150	11,400
4206	1.15	518	1,290	2,010	3,160	4,150	5,300
4207	70.7	2,960	6,340	9,200	13,400	16,900	20,700
4209	0	299	733	1,130	1,760	2,290	2,910
4210	0	296	743	1,160	1,820	2,390	3,050
4214	116	4,030	8,700	12,600	18,500	23,400	28,700
4237	0	322	785	1,210	1,880	2,450	3,110
4238	1.32	548	1,390	2,170	3,430	4,520	5,790
4240	96.5	3,620	7,800	11,300	16,500	20,900	25,700
4241	73.0	3,000	6,440	9,340	13,600	17,200	21,000
4243	1.02	489	1,220	1,910	3,000	3,940	5,040
4246	2.87	724	1,760	2,720	4,230	5,530	7,030
4247	100	3,700	7,970	11,600	16,900	21,400	26,200
4248	NA	NA	NA	NA	NA	NA	NA
4251	151	4,730	10,200	14,800	21,700	27,400	33,700
4254	.66	455	1,130	1,750	2,730	3,580	4,560
4255	120	4,110	8,850	12,900	18,800	23,800	29,200
4258	153	4,770	10,300	15,000	21,800	27,700	34,000
4260	1.54	671	1,670	2,610	4,100	5,390	6,890
4261	0	348	850	1,310	2,040	2,660	3,380
4263	151	4,720	10,200	14,800	21,600	27,400	33,600
4264	.32	436	1,070	1,650	2,570	3,370	4,280
4265	103	3,770	8,120	11,800	17,200	21,800	26,700
4270	115	4,000	8,640	12,600	18,300	23,200	28,500
4271	0	335	815	1,250	1,940	2,540	3,220
4272	145	4,640	10,000	14,500	21,200	26,900	33,000
4275	123	4,150	8,960	13,000	19,000	24,100	29,600
4276	108	3,890	8,370	12,200	17,700	22,500	27,600
4280	148	4,670	10,100	14,700	21,400	27,100	33,300
4281	167	5,080	10,900	15,900	23,200	29,400	36,100
4285	2.06	677	1,710	2,680	4,240	5,590	7,160
4286	5.93	1,080	2,740	4,310	6,820	9,010	11,600
4289	3.09	833	2,100	3,280	5,180	6,820	8,740

Table 54. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Kingman County.—Continued[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 58)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded				
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent
4290	110300153	KM				South Fork Ninescah River	468	43.4	62.9	85.1	120	181
4293	HYDRO	KM				HYDRO	11.9	NA	NA	NA	NA	NA
4296	110300153	KM				South Fork Ninescah River	485	45.6	66.1	89.6	126	192
4338	11030015579	KM				Unnamed tributary, Kingman 11	12.1	2.38	2.51	2.64	2.85	4.02
4339	110300152	KM				Smoots Creek	154	2.55	5.89	11.7	23.5	50.6
4343	1103001513	KM				Negro Creek	10.1	.19	.48	.50	.53	1.15
4348	HYDRO	KM				HYDRO	4.95	NA	NA	NA	NA	NA
4359	1103001515	KM				Nester Creek	25.8	.23	1.26	2.39	4.30	8.90
4362	110300153	KM				South Fork Ninescah River	585	58.3	85.1	117	167	259
4380	110300157	KM	PR			Painter Creek	67.6	.62	1.95	3.48	6.15	12.4
4382	1103001513	KM				Negro Creek	4.38	0	0	0	0	.01
4384	110300152	KM				Smoots Creek	172	3.16	7.13	14.1	27.7	59.1
4385	110300153	KM				South Fork Ninescah River	647	66.0	97.0	135	194	304
4389	110300151	KM				South Fork Ninescah River	823	69.8	105	152	226	376
4395	110300151	KM	SG			South Fork Ninescah River	859	70.5	106	156	233	393
4396	1103001512	KM				Petyt Creek	18.6	.05	.57	1.05	1.52	3.28
4402	1103001510	KM				Mead Creek	11.8	0	0	0	.04	.49
4405	1103001511	KM				Pat Creek	11.4	0	0	.02	.05	.57
4410	1103001516	KM				Wild Run Creek	13.8	.27	.74	1.01	1.18	2.31
4413	1103001514	KM				Hunter Creek	23.9	.27	1.11	1.90	3.07	6.15
4415	HYDRO	KM				HYDRO	5.30	NA	NA	NA	NA	NA
4423	110300153	KM				South Fork Ninescah River	618	62.4	91.4	126	181	282
4430	1103001518	KM				Sand Creek	22.4	.38	1.32	2.14	3.38	6.53
4439	1103001516	KM				Wild Run Creek	5.22	0	0	.01	.01	.01
4447	1103001519	KM	SG			Mod Creek	14.7	0	0	.08	.29	1.91
4448	110300153	KM				South Fork Ninescah River	647	66.0	97.0	135	194	304
4455	1103001517	KM				Coon Creek	14.7	.03	.47	1.26	2.15	4.56
4476	1106000548	KM				Blue Stem Creek	4.35	0	0	0	0	0
4479	HYDRO	KM				HYDRO	4.53	NA	NA	NA	NA	NA
4485	1106000543	KM				Red Creek	11.9	.05	.42	.67	.70	1.60
4490	1106000548	KM				Blue Stem Creek	5.14	0	0	0	0	.01
4496	1106000534	KM				Big Spring Creek	5.74	0	0	0	0	.01
4497	1103001614	KM				Sand Creek	.00	0	0	0	0	0
4498	1103001614	KM				Sand Creek	6.09	0	0	0	0	0
4513	1103001614	KM				Sand Creek	17.5	0	.34	.85	1.35	3.26
4515	1103001614	KM	SG			Sand Creek	63.2	0	1.18	3.07	7.02	17.0
4520	1106000537	KM	PR			North Fork Chikaskia River	27.7	.22	1.05	1.64	2.42	4.69
4535	1106000540	KM				Allen Creek	16.2	.07	.75	1.17	1.55	3.00

Table 54. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Kingman County.—Continued[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 58)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
4290	131	4,330	9,350	13,600	19,800	25,100	30,900
4293	NA	NA	NA	NA	NA	NA	NA
4296	138	4,480	9,660	14,000	20,500	26,000	31,900
4338	3.33	759	1,870	2,890	4,510	5,910	7,530
4339	35.3	2,150	4,720	7,050	10,600	13,700	17,100
4343	2.02	644	1,600	2,490	3,900	5,120	6,530
4348	NA	NA	NA	NA	NA	NA	NA
4359	7.32	1,190	2,970	4,630	7,280	9,580	12,300
4362	181	5,310	11,400	16,600	24,300	30,700	37,700
4380	11.1	967	2,400	3,780	5,970	7,930	10,100
4382	0	396	968	1,490	2,320	3,030	3,850
4384	40.0	2,220	4,850	7,230	10,800	14,000	17,400
4385	209	5,850	12,600	18,300	26,700	33,800	41,500
4389	246	6,680	14,200	20,600	29,900	37,900	46,500
4395	255	6,830	14,500	21,000	30,600	38,700	47,500
4396	3.77	880	2,240	3,520	5,580	7,370	9,450
4402	1.80	645	1,640	2,590	4,100	5,410	6,940
4405	1.84	652	1,650	2,580	4,080	5,370	6,880
4410	2.85	750	1,890	2,960	4,670	6,150	7,880
4413	5.65	1,050	2,670	4,200	6,650	8,780	11,300
4415	NA	NA	NA	NA	NA	NA	NA
4423	195	5,600	12,100	17,500	25,600	32,400	39,700
4430	5.68	1,030	2,600	4,070	6,440	8,490	10,900
4439	.24	423	1,050	1,620	2,540	3,320	4,230
4447	3.16	841	2,080	3,240	5,070	6,660	8,500
4448	209	5,850	12,600	18,300	26,700	33,800	41,500
4455	4.19	813	2,030	3,170	4,980	6,550	8,370
4476	.09	396	967	1,490	2,310	3,020	3,840
4479	NA	NA	NA	NA	NA	NA	NA
4485	2.39	700	1,750	2,730	4,290	5,650	7,220
4490	.32	437	1,070	1,650	2,570	3,360	4,270
4496	0.90	469	1,150	1,770	2,760	3,610	4,590
4497	0	18	35	49	68	83	100
4498	.91	484	1,190	1,840	2,860	3,740	4,760
4513	3.79	888	2,230	3,490	5,510	7,250	9,280
4515	14.4	1,530	3,550	5,430	8,330	10,900	13,700
4520	4.69	985	2,600	4,160	6,700	8,930	11,500
4535	3.29	785	2,010	3,170	5,030	6,650	8,540

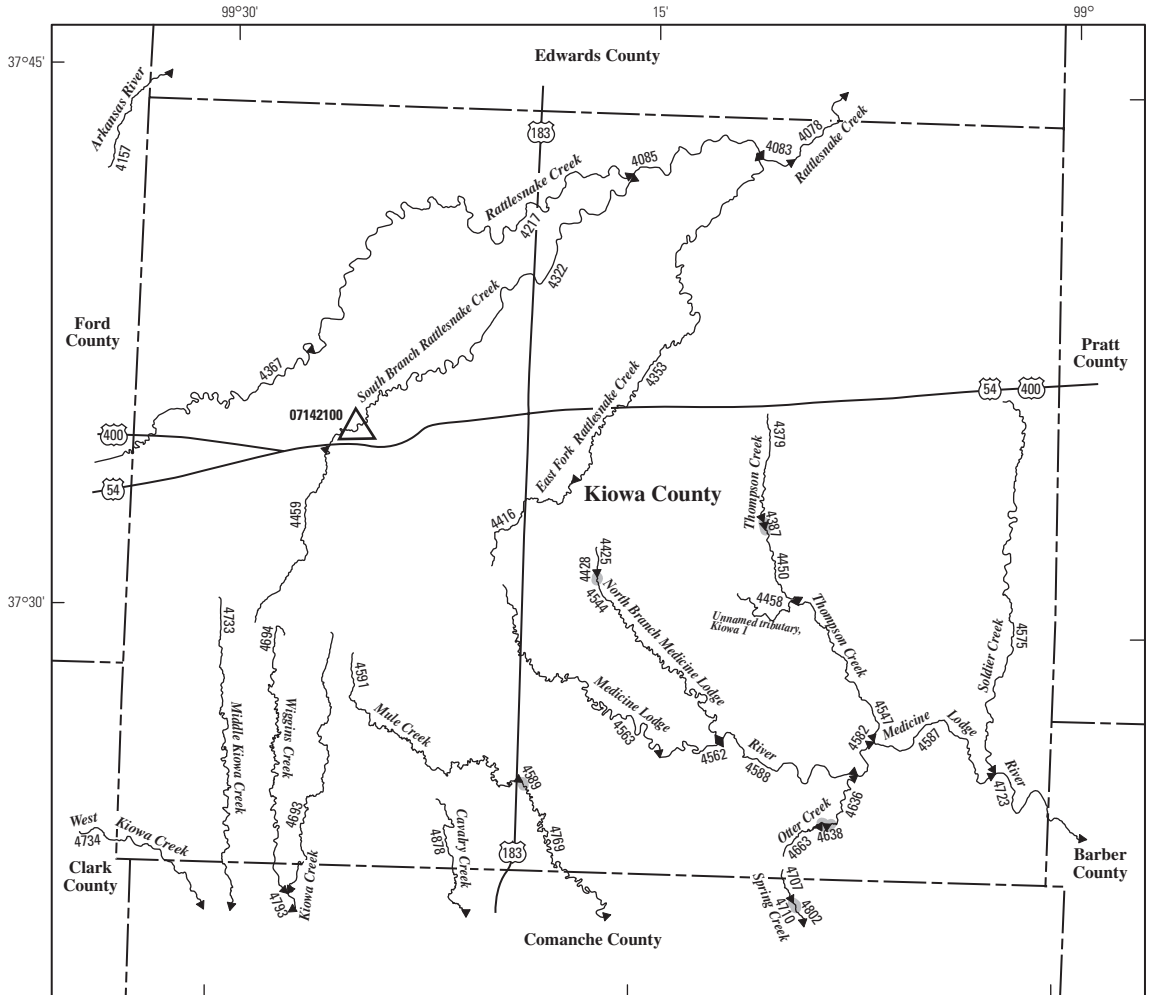
Table 54. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Kingman County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 58)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded				
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent
		4537	1106000510	KM						Chikaskia River	84.1	1.33
4541	1106000510	KM	PR			Chikaskia River	40.7	.76	1.78	2.51	3.76	6.99
4542	1106000510	KM				Chikaskia River	46.5	.80	2.10	3.14	4.94	9.22
4558	1106000549	KM				Kemp Creek	10.9	0	.10	.20	.44	1.10
4559	1106000510	KM				Chikaskia River	103	1.62	4.44	7.95	14.5	28.8
4590	1106000544	KM				Rose Bud Creek	10.8	0	.15	.30	.41	1.00
4604	1106000543	KM				Red Creek	21.0	.31	1.03	1.63	2.50	5.00
4605	1106000510	KM				Chikaskia River	123	1.95	5.33	9.85	18.4	36.9
4608	1106000548	KM				Blue Stem Creek	8.78	0	0	0	.01	.02
4609	1106000543	KM				Red Creek	32.5	.44	1.46	2.53	4.38	8.92
4611	110600059	KM				Chikaskia River	384	6.90	17.3	34.1	67.0	144
4613	1106000542	KM				Copper Creek	6.31	0	0	0	0	.01
4615	1106000541	KM				Wild Horse Creek	20.0	.28	1.21	1.93	2.95	5.57
4619	110600059	KM				Chikaskia River	336	5.65	14.4	28.1	55.1	118
4621	110600059	KM				Chikaskia River	302	4.74	12.1	23.5	46.3	98.9
4623	110600059	KM				Chikaskia River	377	6.71	16.9	33.3	65.4	141
4651	1106000532	KM				Duck Creek	13.8	.70	1.20	1.45	1.50	2.45
4655	110600059	KM				Chikaskia River	397	7.26	18.2	35.7	70.3	152
4666	1106000534	KM				Big Spring Creek	21.6	1.08	1.86	2.40	3.37	6.02
4667	110600059	KM				Chikaskia River	413	7.78	19.3	38.0	74.6	161
4678	1106000511	KM				Sand Creek	174	1.93	5.46	10.5	20.9	44.8
4680	1106000538	KM				Goose Creek	14.1	0	.16	.48	.49	1.36
4705	1106000539	KM				Skunk Creek	19.7	.13	.64	.93	1.10	2.23
4724	1106000511	KM				Sand Creek	137	1.22	3.65	6.85	13.6	29.2
5420	HYDRO	KM				HYDRO	2.70	NA	NA	NA	NA	NA

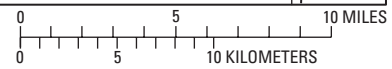
Table 54. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Kingman County.—Continued[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 58)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
4537	15.8	1,140	2,680	4,110	6,320	8,260	10,400
4541	6.33	684	1,660	2,580	4,010	5,270	6,660
4542	7.77	755	1,820	2,830	4,390	5,760	7,270
4558	2.01	637	1,610	2,520	3,980	5,240	6,700
4559	20.4	1,350	3,130	4,780	7,320	9,540	12,000
4590	2.00	667	1,660	2,590	4,060	5,340	6,820
4604	4.76	973	2,460	3,870	6,120	8,070	10,400
4605	25.4	1,580	3,620	5,490	8,360	10,900	13,600
4608	1.29	596	1,480	2,290	3,590	4,700	6,000
4609	7.57	990	2,280	3,450	5,240	6,800	8,490
4611	89.0	3,480	7,830	11,700	17,600	22,700	28,400
4613	.59	490	1,210	1,870	2,910	3,810	4,850
4615	4.88	932	2,360	3,720	5,890	7,770	9,970
4619	74.0	2,980	6,780	10,200	15,500	20,000	25,000
4621	63.4	2,650	6,090	9,220	14,000	18,200	22,900
4623	86.9	3,410	7,680	11,500	17,300	22,300	27,900
4651	2.84	777	1,940	3,030	4,760	6,260	8,000
4655	93.2	3,640	8,160	12,200	18,300	23,500	29,300
4666	5.20	1,010	2,540	3,990	6,300	8,300	10,600
4667	98.3	3,790	8,470	12,600	18,900	24,300	30,300
4678	31.6	1,630	3,900	6,040	9,380	12,300	15,700
4680	2.36	705	1,810	2,850	4,540	6,000	7,710
4705	3.02	817	2,140	3,400	5,450	7,240	9,340
4724	22.1	1,210	3,010	4,740	7,480	9,930	12,700
5420	NA	NA	NA	NA	NA	NA	NA



Base map from U.S. Geological Survey digital data, 1:2,000,000, 1994
 Albers Conic Equal-Area Projection,
 Standard parallels 29°30' and 45°30', central meridian 96°

Horizontal coordinate information is referenced to the
 North American Datum of 1983 (NAD 83)



EXPLANATION

- ← 746 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06853800 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06875800 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 926 Lake and determination site identification number

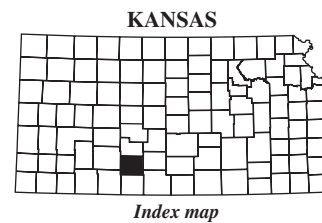


Figure 59. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Kiowa County.

Table 55. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Kiowa County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi² square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 59)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded				
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent
		4083	110300093	KW						Rattlesnake Creek	461	0.79
4085	110300094	KW				Rattlesnake Creek	373	.88	4.04	8.40	16.3	28.7
4217	110300094	KW				Rattlesnake Creek	264	.56	2.93	5.96	11.6	21.6
4322	110300099	KW				South Branch Rattlesnake Creek	73.4	0	.96	1.72	2.63	4.67
4353	110300095	KW				East Fork Rattlesnake Creek	78.1	0	.46	1.12	1.83	3.65
4379	1106000326	KW				Thompson Creek	37.7	0	0	.02	.05	.39
4387	HYDRO	KW				HYDRO	38.5	NA	NA	NA	NA	NA
4416	110300095	KW				East Fork Rattlesnake Creek	23.3	0	0	0	0	0
4425	1106000324	KW				North Branch Medicine Lodge River	7.56	0	0	0	0	0
4428	HYDRO	KW				HYDRO	7.72	NA	NA	NA	NA	NA
4450	1106000326	KW				Thompson Creek	46.1	.01	.05	.48	.65	1.69
4458	11060003559	KW				Unnamed tributary, Kiowa 1	10.8	0	0	0	0	.01
4459	110300099	KW				South Branch Rattlesnake Creek	25.3	0	0	0	0	0
4544	1106000324	KW				North Branch Medicine Lodge River	26.3	0	0	0	.02	.52
4547	1106000326	KW				Thompson Creek	79.2	.02	.83	2.17	4.05	8.13
4562	110600038	KW				Medicine Lodge River	38.4	.01	.04	.64	1.14	2.65
4563	110600038	KW				Medicine Lodge River	31.7	0	.03	.28	.43	1.33
4575	1106000327	KW				Soldier Creek	84.4	.04	1.82	3.27	5.49	10.2
4582	110600038	KW				Medicine Lodge River	95.4	.04	.93	2.92	6.06	12.6
4587	110600038	KW				Medicine Lodge River	189	.14	3.12	6.89	13.7	27.7
4588	110600038	KW				Medicine Lodge River	77.0	.02	.46	1.94	4.08	8.75
4589	HYDRO	KW				HYDRO	26.9	NA	NA	NA	NA	NA
4591	110600027	KW				Mule Creek	26.7	0	.01	.03	.08	.16
4636	1106000325	KW				Otter Creek	15.0	0	.01	.09	.18	.26
4638	HYDRO	KW				HYDRO	6.34	NA	NA	NA	NA	NA
4663	1106000325	KW				Otter Creek	5.89	0	0	0	0	0

Table 55. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Kiowa County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 59)	Estimated mean flow (ft ³ /s)	Estimated peak discharge (ft ³ /s) for indicated peak-discharge frequency					
		2-year	5-year	10-year	25-year	50-year	100-year
4083	23.8	501	1,550	2,730	4,930	7,180	10,100
4085	21.9	513	1,540	2,670	4,720	6,780	9,360
4217	17.6	700	1,960	3,290	5,560	7,710	10,300
4322	5.19	416	1,090	1,730	2,750	3,650	4,670
4353	4.80	446	1,250	2,090	3,480	4,770	6,280
4379	2.22	705	1,760	2,770	4,350	5,760	7,330
4387	NA	NA	NA	NA	NA	NA	NA
4416	.56	600	1,740	2,890	4,820	6,560	8,630
4425	0	315	890	1,460	2,410	3,250	4,240
4428	NA	NA	NA	NA	NA	NA	NA
4450	3.17	803	1,980	3,100	4,850	6,410	8,130
4458	.19	398	1,120	1,850	3,050	4,120	5,380
4459	1.03	664	1,890	3,120	5,180	7,020	9,200
4544	1.97	660	1,900	3,160	5,270	7,160	9,410
4547	7.54	1,020	2,510	3,930	6,170	8,190	10,400
4562	3.52	539	1,470	2,400	3,940	5,350	6,960
4563	2.61	466	1,290	2,140	3,530	4,820	6,290
4575	8.79	1,020	2,430	3,760	5,820	7,640	9,650
4582	10.5	956	2,480	3,990	6,450	8,710	11,300
4587	20.6	1,420	3,500	5,520	8,740	11,700	15,000
4588	7.95	841	2,220	3,590	5,830	7,890	10,200
4589	NA	NA	NA	NA	NA	NA	NA
4591	1.58	689	1,970	3,260	5,420	7,360	9,660
4636	1.33	505	1,420	2,330	3,840	5,190	6,780
4638	NA	NA	NA	NA	NA	NA	NA
4663	0	293	807	1,310	2,140	2,880	3,740