

Figure 60. 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 Labette County.

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Table 56. 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 Labette 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. 60)	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
		64	1107010321	LB						Big Creek	9.02	0
66	1107010325	LB				Snow Creek	39.0	0	.40	3.85	14.7	44.2
4770	1107010361	LB	NO			Rock Creek	9.13	0	.23	1.97	6.00	15.3
4776	1107010332	LB	NO			Big Hill Creek	15.6	0	.09	2.14	7.47	20.9
4817	1107020539	LB	NO			Tolen Creek	21.4	0	.09	2.19	7.93	23.2
4818	1107020522	LB	NO			Labette Creek	54.5	0	1.20	6.52	22.9	66.1
4831	1107020511	LB	NO			Neosho River	4,770	54.0	182	852	3,560	9,760
4832	1107020510	LB	NO			Hickory Creek	53.7	0	1.24	6.18	21.4	61.4
4833	110702059	LB				Neosho River	4,770	59.0	140	547	1,570	5,300
4844	1107010332	LB				Big Hill Creek	27.6	0	.43	3.68	13.1	37.2
4845	1107020523	LB	NO			Little Labette Creek	35.4	0	.48	3.91	14.3	41.7
4860	1107020522	LB				Labette Creek	81.8	0	1.73	8.75	31.3	92.9
4862	1107020523	LB				Little Labette Creek	44.4	0	.71	4.80	17.5	51.4
4872	11070205305	LB				Unnamed tributary, Labette 1	7.73	0	0	.63	2.54	8.02
4873	1107020521	LB				Labette Creek	127	.18	2.68	12.9	46.8	142
4886	11070205396	LB				Bachelor Creek	5.54	0	0	.95	3.04	8.25
4899	11070205304	LB				Unnamed tributary, Labette 2	2.87	0	0	0	.15	1.65
4900	1107020521	LB				Labette Creek	136	.25	2.85	13.6	49.5	151
4902	1107020521	LB				Labette Creek	139	.27	2.90	13.8	50.3	154
4906	11070205303	LB				Unnamed tributary, Labette 3	5.05	0	0	.26	1.29	4.64
4910	110702059	LB				Neosho River	4,840	55.3	188	868	3,610	9,870
4917	1107020521	LB				Labette Creek	144	.32	2.99	14.3	51.9	159
4929	11070205396	LB				Bachelor Creek	33.4	0	.48	4.04	14.8	42.9
4930	11070205396	LB				Bachelor Creek	31.7	0	.45	3.90	14.3	41.2
4938	HYDRO	LB				HYDRO	45.5	NA	NA	NA	NA	NA
4977	1107010360	LB				Wildcat Creek	9.19	0	.36	2.59	8.00	19.8
4979	1107010332	LB				Big Hill Creek	47.5	0	.02	.88	18.0	69.0
4987	1107010332	LB				Big Hill Creek	47.6	0	.02	.88	18.0	69.0
4989	11070205298	LB				Unnamed tributary, Labette 4	11.2	0	0	1.00	3.97	12.1
4990	1107020521	LB				Labette Creek	182	.62	3.82	18.0	65.9	204
4994	1107010360	LB				Wildcat Creek	10.6	0	.39	2.82	8.92	22.3
4995	1107010328	LB				Pumpkin Creek	11.1	0	.05	2.03	7.06	19.1
5003	HYDRO	LB				HYDRO	12.1	NA	NA	NA	NA	NA
5066	1107020521	LB				Labette Creek	202	.77	4.19	19.7	72.2	226
5075	1107020530	LB				Spring Creek	18.7	0	0	1.99	7.61	22.5
5118	110702055	LB				Neosho River	4,890	56.4	193	883	3,650	9,970
5119	110702059	LB				Neosho River	4,890	56.4	193	883	3,650	9,970
5122	1107010359	LB				Mud Creek	12.8	0	.13	2.37	8.33	22.5

Table 56. 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 Labette 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. 60)	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
64	7.93	1,700	3,270	4,570	6,480	8,020	9,760
66	34.2	6,090	10,700	14,300	19,400	23,600	27,900
4770	10.8	1,620	3,160	4,440	6,320	7,850	9,590
4776	15.7	2,190	4,340	6,130	8,790	11,000	13,400
4817	18.5	2,590	5,170	7,330	10,500	13,200	16,200
4818	47.5	4,240	8,010	11,100	15,700	19,400	23,500
4831	3,120	29,400	42,100	50,400	60,000	86,000	121,000
4832	45.5	4,510	8,330	11,500	16,000	19,700	23,600
4833	2,470	28,700	53,900	75,900	109,000	138,000	170,000
4844	27.1	3,100	6,180	8,780	12,700	15,800	19,400
4845	31.4	3,460	6,700	9,420	13,400	16,700	20,200
4860	66.7	5,210	9,610	13,200	18,500	22,800	27,400
4862	38.4	3,700	7,150	10,100	14,300	17,800	21,600
4872	7.11	1,460	2,840	3,980	5,670	7,030	8,580
4873	99.7	6,770	12,000	16,100	22,100	26,900	32,100
4886	6.37	1,250	2,400	3,330	4,710	5,820	7,070
4899	2.32	826	1,580	2,180	3,070	3,790	4,600
4900	106	6,870	12,100	16,300	22,200	27,000	32,200
4902	108	6,970	12,200	16,400	22,400	27,200	32,300
4906	4.58	1,150	2,220	3,090	4,380	5,420	6,590
4910	3,170	29,900	43,000	51,500	62,600	89,000	124,000
4917	111	7,080	12,400	16,600	22,500	27,400	32,500
4929	31.7	3,480	6,690	9,380	13,300	16,500	20,000
4930	30.5	3,500	6,690	9,370	13,200	16,400	19,800
4938	NA	NA	NA	NA	NA	NA	NA
4977	12.9	1,770	3,390	4,720	6,670	8,250	10,000
4979	29.3	605	1,550	2,340	3,410	4,230	5,040
4987	29.3	605	1,550	2,340	3,410	4,230	5,040
4989	10.3	1,850	3,610	5,070	7,230	8,980	11,000
4990	140	7,920	13,400	17,600	23,400	28,100	33,100
4994	14.7	1,940	3,710	5,170	7,320	9,050	11,000
4995	13.6	1,950	3,760	5,250	7,450	9,230	11,200
5003	NA	NA	NA	NA	NA	NA	NA
5066	154	7,830	13,100	17,000	22,500	26,800	31,400
5075	17.9	2,570	5,020	7,060	10,100	12,500	15,300
5118	3,220	30,300	43,800	52,400	64,800	91,600	127,000
5119	3,220	30,300	43,800	52,400	64,800	91,600	127,000
5122	16.0	1,270	2,180	2,870	3,840	4,630	5,460

Table 56. 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 Labette County.—Continued

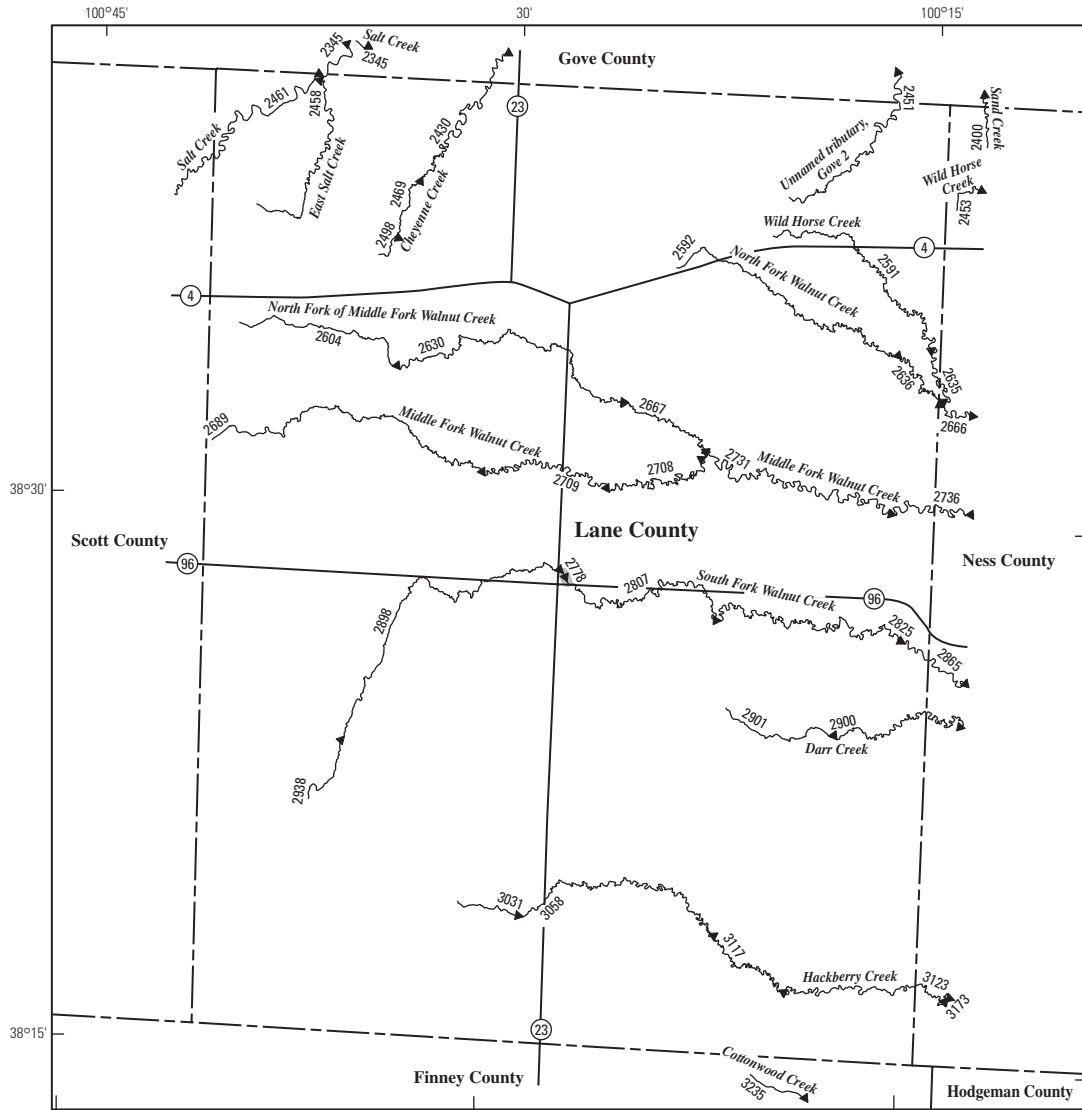
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 60)	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
		5126	1107010328	LB						Pumpkin Creek	31.7	0
5166	1107010332	LB	MG			Big Hill Creek	90.7	.42	1.28	7.79	50.4	170
5197	1107010349	LB				Richland Creek	30.2	0	.17	3.18	12.6	37.9
5198	1107010328	LB				Pumpkin Creek	51.2	0	.95	6.54	25.0	73.6
5224	1107010331	LB	MG			Potatoe Creek	19.8	0	0	2.21	8.59	25.3
5225	1107020527	LB				Deer Creek	43.4	0	.50	4.41	17.1	51.5
5231	1107020521	LB				Labette Creek	248	1.16	5.15	24.0	88.4	279
5245	1107020524	LB				Lake Creek	63.9	0	.78	5.38	20.9	65.0
5250	1107020524	LB				Lake Creek	113	0	1.81	9.82	38.0	120
5262	1107020520	LB				Labette Creek	364	2.11	7.36	34.1	126	408
5271	11070205460	LB				Hackberry Creek	32.3	0	.01	2.43	10.0	31.5
5293	1107010328	LB				Pumpkin Creek	90.3	0	1.66	9.83	38.3	117
5316	1107010350	LB	MG			Claymore Creek	18.3	0	0	1.12	5.03	16.4
5319	1107010351	LB				Deer Creek	31.6	0	.06	2.63	10.6	33.0
5326	1107020520	LB				Labette Creek	399	2.42	8.06	37.2	138	447
5356	1107010328	LB	MG			Pumpkin Creek	137	.03	2.49	13.4	52.3	165
5407	1107020524	LB				Lake Creek	30.1	0	.24	2.98	11.2	33.4
5408	1107020529	LB				Turkey Creek	26.6	0	.08	2.54	9.86	29.7

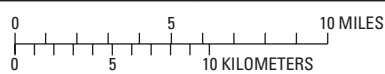
Table 56. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Labette County.—Continued

[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. 60)	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
5126	33.6	4,010	7,490	10,400	14,500	17,900	21,500
5166	61.4	958	2,110	3,050	4,310	5,280	6,230
5197	29.3	5,390	9,490	12,800	17,300	21,100	24,900
5198	52.2	4,220	7,410	10,000	13,600	16,600	19,600
5224	19.8	2,790	5,410	7,590	10,800	13,400	16,400
5225	39.2	4,820	8,910	12,300	17,100	21,100	25,300
5231	188	8,330	13,200	16,600	21,200	24,700	28,300
5245	50.9	6,180	11,100	15,200	21,000	25,700	30,700
5250	88.9	8,200	14,600	19,800	27,200	33,400	39,900
5262	268	11,000	17,600	22,400	29,000	34,200	39,600
5271	26.5	4,090	7,640	10,600	14,800	18,200	21,900
5293	83.3	6,120	10,600	14,300	19,500	23,800	28,200
5316	14.8	2,580	5,040	7,080	10,100	12,600	15,400
5319	27.0	6,330	10,800	14,400	19,300	23,200	27,300
5326	292	11,300	18,200	23,200	30,300	35,800	41,600
5356	116	7,490	13,000	17,600	24,100	29,400	35,100
5407	26.4	4,860	8,660	11,700	16,000	19,500	23,100
5408	23.8	3,200	6,300	8,890	12,700	15,900	19,400



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

- ◀ 3031 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
- 2778 Lake and determination site identification number

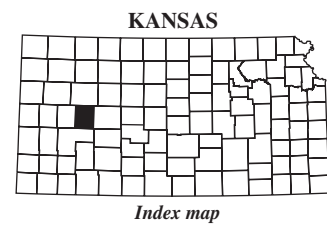


Figure 61. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Lane County.

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Table 57. 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 Lane County.

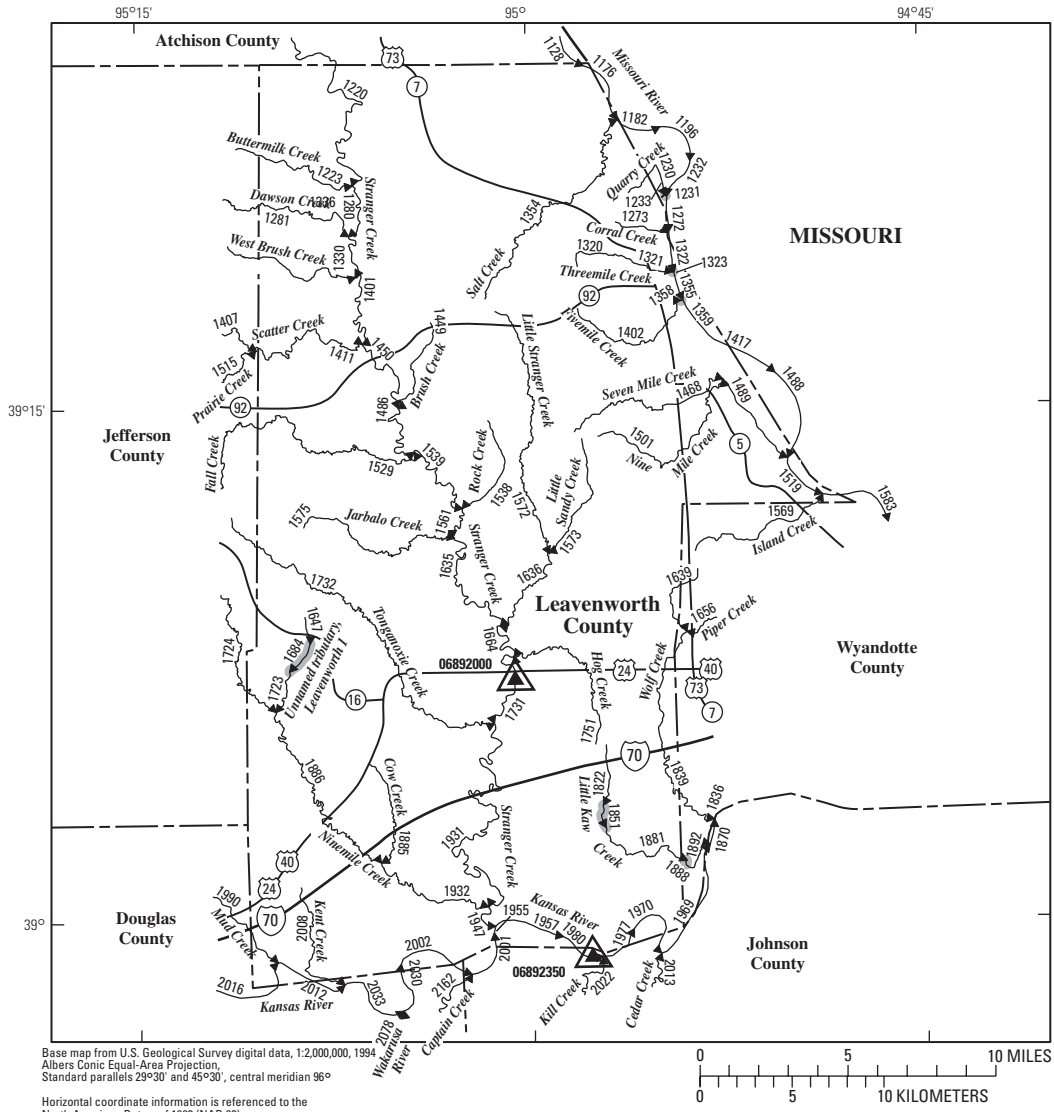
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 61)	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		
		2469	1026000336	LE						Cheyenne Creek	15.3	0	0	0
2498	1026000336	LE				Cheyenne Creek	7.87	0	0	0	0	0	0	0
2591	1103000711	LE				Wild Horse Creek	23.5	0	0	0	0	0	0	0
2592	110300076	LE				North Fork Walnut Creek	47.8	0	0	0	0	0	0	0
2604	110300078	LE				North Fork of Middle Fork Walnut Creek	24.8	0	0	0	0	0	0	0
2630	110300078	LE				North Fork of Middle Fork Walnut Creek	60.3	0	0	0	0	0	0	0
2635	1103000711	LE	NS			Wild Horse Creek	25.9	0	0	0	0	0	0	0
2636	110300076	LE	NS			North Fork Walnut Creek	52.5	0	0	0	0	0	0	0
2667	110300078	LE				North Fork of Middle Fork Walnut Creek	73.3	0	0	0	0	0	0	0
2689	110300079	LE				Middle Fork Walnut Creek	94.6	0	0	0	0	0	0	0
2708	110300079	LE				Middle Fork Walnut Creek	117	0	0	0	0	0	0	0
2709	110300079	LE				Middle Fork Walnut Creek	107	0	0	0	0	0	0	0
2731	110300077	LE				Middle Fork Walnut Creek	217	0	0	0	0	0	0	.07
2736	110300077	LE	NS			Middle Fork Walnut Creek	224	0	0	0	0	0	0	.42
2778	HYDRO	LE				HYDRO	210	NA	NA	NA	NA	NA	NA	NA
2807	1103000710	LE				South Fork Walnut Creek	241	0	0	0	0	0	0	0
2825	1103000710	LE				South Fork Walnut Creek	264	0	0	0	0	0	0	.18
2865	1103000710	LE	NS			South Fork Walnut Creek	272	0	0	0	0	0	0	.45
2898	1103000710	LE				South Fork Walnut Creek	209	0	0	0	0	0	0	0
2900	1103000712	LE	NS			Darr Creek	55.8	0	0	0	0	0	0	0
2901	1103000712	LE				Darr Creek	32.3	0	0	0	0	0	0	0
2938	1103000710	LE				South Fork Walnut Creek	138	0	0	0	0	0	0	0
3031	110300054	LE				Hackberry Creek	57.7	0	0	0	0	0	0	0
3058	110300054	LE				Hackberry Creek	119	0	0	0	0	0	0	0
3117	110300054	LE				Hackberry Creek	135	0	0	0	0	0	0	0
3123	110300054	LE	NS			Hackberry Creek	163	0	0	0	0	0	0	0

Table 57. 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 Lane 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. 61)	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
2469	0	305	972	1,680	2,920	4,060	5,420
2498	0	207	652	1,120	1,930	2,670	3,560
2591	0	454	1,410	2,410	4,130	5,710	7,610
2592	.62	342	1,090	1,930	3,410	4,850	6,570
2604	0	398	1,280	2,240	3,900	5,450	7,310
2630	0	300	1,010	1,840	3,350	4,840	6,670
2635	0	480	1,490	2,560	4,390	6,080	8,100
2636	.85	347	1,110	1,970	3,490	4,970	6,750
2667	.34	348	1,160	2,090	3,770	5,440	7,470
2689	.41	403	1,330	2,380	4,290	6,180	8,480
2708	1.05	383	1,290	2,350	4,280	6,200	8,570
2709	.76	387	1,290	2,340	4,260	6,160	8,490
2731	3.39	548	1,780	3,200	5,780	8,330	11,500
2736	3.70	569	1,840	3,300	5,940	8,550	11,800
2778	NA	NA	NA	NA	NA	NA	NA
2807	2.82	613	1,930	3,410	6,060	8,660	11,800
2825	3.56	637	2,000	3,540	6,280	8,970	12,200
2865	3.81	653	2,040	3,610	6,390	9,130	12,500
2898	2.03	539	1,720	3,070	5,480	7,860	10,800
2900	.41	362	1,160	2,070	3,670	5,250	7,130
2901	0	297	959	1,700	3,020	4,300	5,830
2938	.90	402	1,320	2,370	4,260	6,130	8,400
3031	0	505	1,540	2,650	4,590	6,450	8,640
3058	1.44	526	1,660	2,940	5,200	7,420	10,100
3117	1.89	517	1,650	2,940	5,240	7,490	10,200
3123	2.73	567	1,800	3,190	5,660	8,100	11,000



EXPLANATION

- ◀ 2016 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06892000 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06892350 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 1851 Lake and determination site identification number

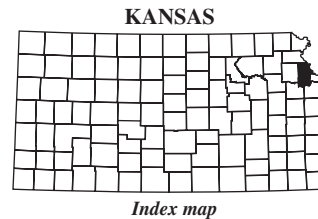


Figure 62. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Leavenworth County.

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Table 58. 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 Leavenworth 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. 62)	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
1176	102400114	LV			Missouri River	421,000	23,600	34,500	43,400	57,700	75,200	
1182	102400114	LV			Missouri River	421,000	23,600	34,500	43,400	57,700	75,200	
1196	102400112	LV			Missouri River	421,000	23,600	34,500	43,400	57,700	75,200	
1230	10240011176	LV			Quarry Creek	3.20	.66	1.06	1.96	3.74	7.26	
1231	HYDRO	LV			HYDRO	3.20	NA	NA	NA	NA	NA	
1232	102400112	LV			Missouri River	421,000	23,600	34,500	43,400	57,700	75,200	
1233	10240011176	LV			Quarry Creek	3.20	.66	1.06	1.96	3.74	7.26	
1272	102400112	LV			Missouri River	421,000	23,600	34,500	43,400	57,700	75,200	
1273	10240011175	LV			Corral Creek	2.62	.82	.98	1.65	3.02	5.83	
1280	102701048	LV			Stranger Creek	229	.38	4.36	20.4	70.9	222	
1320	1024001136	LV			Threemile Creek	7.45	0	.75	2.92	7.60	17.1	
1321	HYDRO	LV			HYDRO	7.45	NA	NA	NA	NA	NA	
1322	102400112	LV			Missouri River	421,000	23,600	34,500	43,400	57,700	75,200	
1323	1024001136	LV			Threemile Creek	7.45	0	.75	2.92	7.60	17.1	
1330	102701048	LV			Stranger Creek	240	.48	4.66	21.7	75.2	235	
1354	1024001134	LV			Salt Creek	29.9	0	1.24	6.65	21.2	54.7	
1355	102400112	LV			Missouri River	421,000	23,600	34,500	43,400	57,700	75,200	
1358	1024001135	LV			Fivemile Creek	11.6	0	.75	3.59	10.2	24.3	
1359	HYDRO	LV			HYDRO	11.6	NA	NA	NA	NA	NA	
1401	102701048	LV			Stranger Creek	254	.62	5.12	23.6	81.5	254	
1402	1024001135	LV			Fivemile Creek	11.6	0	.75	3.58	10.2	24.3	
1417	102400111	LV			Missouri River	421,000	23,600	34,500	43,400	57,700	75,200	
1449	1027010449	LV			Brush Creek	10.1	0	.12	2.14	6.81	17.7	
1450	102701047	LV			Stranger Creek	297	.98	6.19	28.2	96.7	303	
1468	10240011157	LV			Seven Mile Creek	10.1	0	.48	2.62	7.47	18.2	
1486	102701047	LV			Stranger Creek	310	1.11	6.58	29.9	102	320	
1488	102400111	LV			Missouri River	424,000	23,800	34,700	43,700	58,200	76,100	
1489	10240011157	LV			Seven Mile Creek	27.5	0	1.34	5.95	17.8	44.7	
1501	10240011161	LV			Nine Mile Creek	11.8	0	.60	2.92	8.22	20.0	
1519	102400111	LV			Missouri River	424,000	23,800	34,700	43,700	58,200	76,100	
1538	10270104902	LV			Rock Creek	7.85	0	0	.75	3.31	10.4	
1539	102701047	LV			Stranger Creek	336	1.33	7.19	32.5	111	348	
1561	102701047	LV			Stranger Creek	344	1.38	7.35	33.3	113	357	
1569	1024001137	LV	WY		Island Creek	17.5	0	1.43	5.22	13.9	32.0	
1572	10270104881	LV			Little Stranger Creek	17.7	0	0	2.02	8.00	23.9	
1573	10270104883	LV			Little Sandy Creek	10.1	0	0	.53	3.06	10.7	
1575	1027010451	LV			Jarbalo Creek	14.4	0	0	2.11	7.27	20.2	
1635	102701047	LV			Stranger Creek	368	1.58	7.92	35.5	120	381	

Table 58. 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 Leavenworth 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. 62)	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
1176	48,200	109,000	147,000	175,000	200,000	234,000	262,000
1182	48,200	109,000	147,000	175,000	200,000	234,000	262,000
1196	48,200	109,000	147,000	175,000	200,000	234,000	262,000
1230	4.31	797	1,560	2,190	3,120	3,870	4,710
1231	NA	NA	NA	NA	NA	NA	NA
1232	48,200	109,000	148,000	175,000	200,000	234,000	262,000
1233	4.31	797	1,560	2,190	3,120	3,870	4,710
1272	48,200	109,000	148,000	175,000	200,000	234,000	263,000
1273	3.53	728	1,410	1,970	2,790	3,460	4,200
1280	141	5,710	11,500	16,600	24,200	30,900	38,300
1320	10.4	1,350	2,670	3,770	5,390	6,710	8,200
1321	NA	NA	NA	NA	NA	NA	NA
1322	48,200	109,000	148,000	175,000	200,000	234,000	263,000
1323	10.4	1,350	2,670	3,770	5,390	6,710	8,200
1330	147	5,820	11,600	16,700	24,400	31,100	38,500
1354	34.0	2,870	5,900	8,500	12,400	15,600	19,300
1355	48,200	109,000	148,000	175,000	200,000	234,000	263,000
1358	15.1	1,740	3,470	4,920	7,080	8,840	10,800
1359	NA	NA	NA	NA	NA	NA	NA
1401	157	5,780	11,500	16,500	24,100	30,600	37,900
1402	15.1	1,740	3,470	4,920	7,070	8,830	10,800
1417	48,200	109,000	148,000	175,000	200,000	234,000	263,000
1449	11.8	1,490	3,020	4,310	6,230	7,800	9,590
1450	182	6,040	11,800	16,700	24,200	30,600	37,800
1468	11.9	1,550	3,110	4,420	6,370	7,960	9,760
1486	191	6,050	11,700	16,600	24,000	30,300	37,300
1488	48,600	111,000	150,000	178,000	204,000	239,000	268,000
1489	28.7	2,720	5,600	8,050	11,700	14,800	18,300
1501	13.2	1,650	3,350	4,780	6,920	8,670	10,700
1519	48,600	111,000	150,000	178,000	204,000	239,000	268,000
1538	8.12	1,270	2,560	3,650	5,270	6,600	8,110
1539	205	6,140	11,800	16,600	23,700	29,900	36,700
1561	210	6,120	11,700	16,400	23,500	29,600	36,400
1569	19.4	1,970	4,080	5,870	8,580	10,800	13,300
1572	17.6	2,100	4,280	6,130	8,900	11,200	13,800
1573	9.17	1,460	2,980	4,250	6,160	7,730	9,500
1575	14.3	1,740	3,600	5,180	7,550	9,500	11,700
1635	221	6,190	11,700	16,300	23,100	29,000	35,600

Table 58. 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 Leavenworth County.—Continued

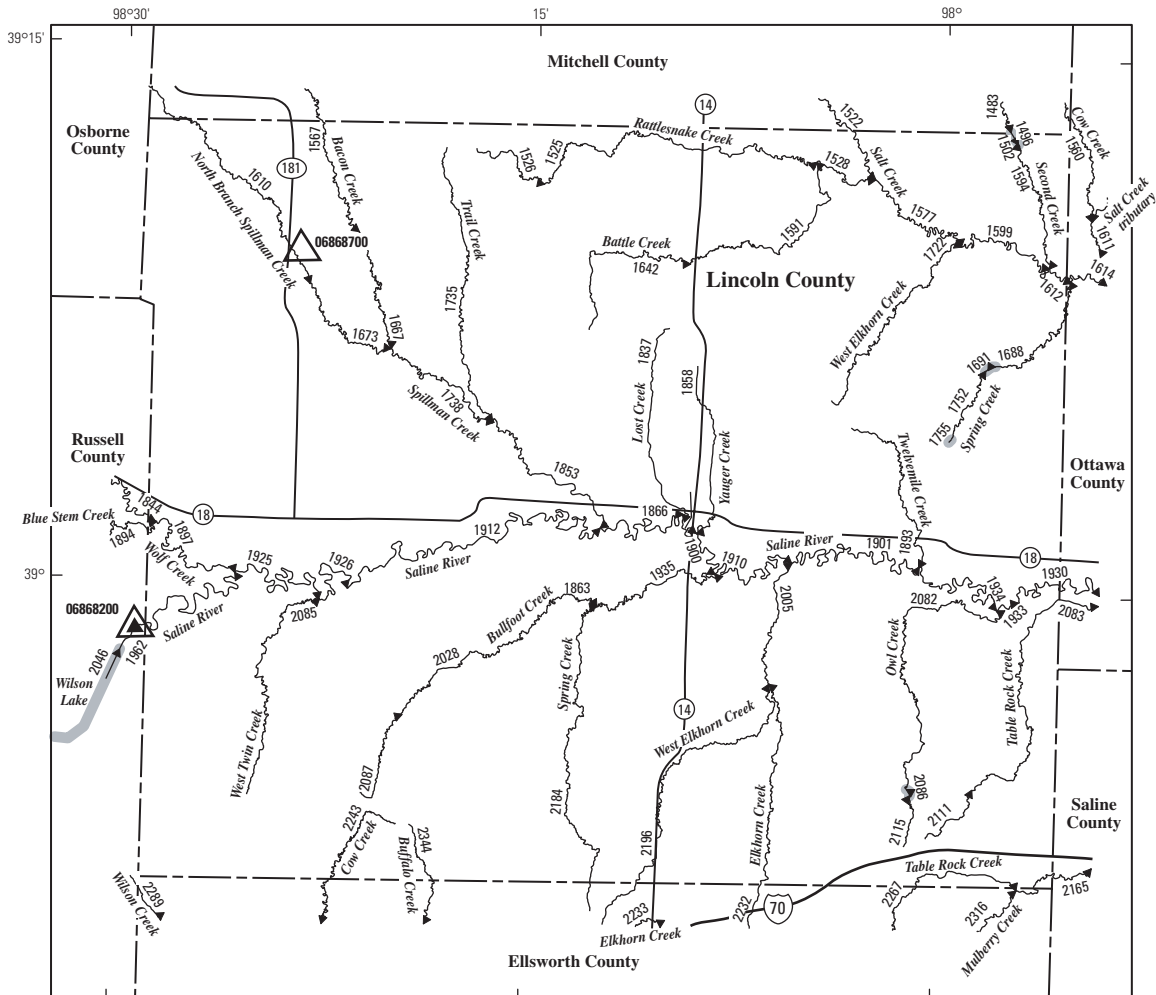
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NR Tribal, tribal stream]

Determination site identification number (fig. 62)	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
		1636	10270104881	LV						Little Stranger Creek	34.7	0
1639	1027010453	LV	WY			Wolf Creek	8.68	0	0	.42	2.36	8.34
1647	1027010416	LV				Unnamed tributary, Leavenworth 1	2.84	0	0	.23	.85	3.03
1664	102701047	LV				Stranger Creek	404	1.83	8.60	38.5	130	416
1684	HYDRO	LV				HYDRO	6.60	NA	NA	NA	NA	NA
1723	1027010416	LV				Unnamed tributary, Leavenworth 1	9.17	0	.07	1.80	5.56	14.5
1731	102701047	LV				Stranger Creek	424	2.00	9.00	40.0	135	433
1751	1027010454	LV				Hog Creek	14.6	0	0	.82	3.97	13.4
1822	1027010459	LV				Little Kaw Creek	5.42	0	0	.09	1.01	4.36
1851	HYDRO	LV				HYDRO	7.79	NA	NA	NA	NA	NA
1839	1027010453	LV	WY			Wolf Creek	34.5	0	.82	4.84	15.8	43.3
1881	1027010459	LV	WY			Little Kaw Creek	16.8	0	0	1.60	6.19	18.6
1885	1027010458	LV				Cow Creek	10.8	0	0	1.67	5.38	14.5
1886	1027010415	LV				Ninemile Creek	47.0	0	1.51	8.01	26.3	71.2
1931	102701046	LV				Stranger Creek	475	2.45	10.4	46.7	157	502
1932	1027010415	LV				Ninemile Creek	64.9	0	1.99	10.1	33.6	92.8
1947	102701045	LV				Stranger Creek	541	3.06	12.5	56.4	189	602
1955	102701044	LV				Kansas River	57,800	1,200	2,020	3,820	9,070	20,500
1957	102701044	LV				Kansas River	58,400	1,250	2,100	4,000	9,600	21,500
1977	102701043	LV				Kansas River	58,400	1,250	2,110	4,010	9,610	21,600
1980	102701043	LV				Kansas River	58,400	1,250	2,100	4,000	9,610	21,600
2002	1027010418	LV				Kansas River	57,800	1,200	2,010	3,810	9,030	20,400
2008	1027010473	LV				Kent Creek	10.5	0	.10	1.77	5.49	14.5

Table 58. 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 Leavenworth 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. 62)	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
1636	30.3	4,460	8,760	12,400	17,800	22,300	27,100
1639	7.37	1,290	2,640	3,790	5,500	6,900	8,490
1647	2.72	678	1,360	1,920	2,750	3,430	4,190
1664	239	6,300	11,600	16,100	22,600	28,200	34,400
1684	NA	NA	NA	NA	NA	NA	NA
1723	9.95	1,340	2,750	3,940	5,710	7,170	8,830
1731	247	6,170	11,300	15,500	21,700	27,000	32,900
1751	11.5	1,680	3,510	5,070	7,420	9,360	11,600
1822	4.34	947	1,940	2,770	4,020	5,040	6,200
1839	29.9	4,090	7,850	11,000	15,500	19,300	23,300
1851	NA	NA	NA	NA	NA	NA	NA
1881	14.4	1,850	3,850	5,570	8,170	10,300	12,800
1885	10.5	1,440	2,980	4,280	6,240	7,860	9,690
1886	45.4	4,780	9,090	12,700	17,900	22,200	26,900
1931	283	6,430	11,800	16,300	22,800	28,500	34,800
1932	59.2	5,130	9,840	13,800	19,600	24,500	29,700
1947	333	7,230	13,200	18,200	25,500	31,800	38,700
1955	8,070	47,800	85,100	115,000	144,000	196,000	236,000
1957	8,450	50,100	88,900	119,000	148,000	200,000	240,000
1977	8,460	50,100	88,900	119,000	148,000	200,000	240,000
1980	8,460	50,100	88,900	119,000	148,000	200,000	240,000
2002	8,040	47,600	84,800	114,000	143,000	195,000	236,000
2008	10.5	1,480	3,030	4,330	6,290	7,890	9,710



Base map from U.S. Geological Survey digital data, 1:2,000,000, 1994
 Albers Conic Equal-Area Projection,
 Standard parallels 29°30' and 46°30', central meridian 96°

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



EXPLANATION

- ← 2243 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06868200 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06868700 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 2046 Lake and determination site identification number

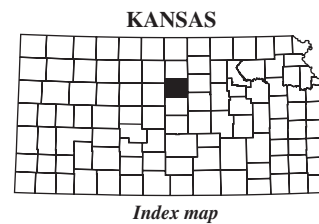


Figure 63. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Lincoln County.

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

Table 59. 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 Lincoln 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. 63)	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
		1496	HYDRO	LC	MC					HYDRO	19.0	NA
1502	1026001554	LC				Second Creek	19.1	0	0	0.31	0.68	2.26
1522	1026001530	LC	MC			Salt Creek	147	.03	1.18	4.22	10.8	30.2
1525	1026001532	LC	MC			Rattlesnake Creek	43.1	0	0	1.19	2.95	7.78
1526	1026001532	LC				Rattlesnake Creek	11.6	0	0	0	0	0
1528	1026001531	LC				Rattlesnake Creek	89.1	.01	.71	2.96	7.44	19.4
1567	102600107	LC	MC			Bacon Creek	36.3	0	0	.44	1.30	4.06
1577	1026001529	LC				Salt Creek	246	.14	2.17	6.80	17.4	53.4
1591	1026001533	LC				Battle Creek	43.9	0	.11	1.45	3.54	9.07
1594	1026001554	LC				Second Creek	27.1	0	0	.67	1.61	4.42
1599	1026001529	LC				Salt Creek	280	.39	2.58	7.93	20.2	63.3
1610	102600108	LC	MC	OB		North Branch Spillman Creek	51.6	0	0	.88	2.43	6.67
1612	1026001529	LC	OT			Salt Creek	308	.58	2.80	8.53	21.7	69.9
1642	1026001533	LC				Battle Creek	23.7	0	0	.45	1.11	3.44
1667	102600107	LC				Bacon Creek	45.3	0	0	.83	2.23	6.19
1673	102600108	LC				North Branch Spillman Creek	77.0	0	.26	1.94	5.05	12.8
1688	1026001553	LC	OT			Spring Creek	36.5	0	.59	2.20	4.84	11.0
1691	HYDRO	LC				HYDRO	16.9	NA	NA	NA	NA	NA
1722	1026001547	LC				West Elkhorn Creek	26.1	0	.08	1.21	2.64	6.25
1735	1026001032	LC				Trail Creek	31.8	0	0	.54	1.44	4.30
1738	102600106	LC				Spillman Creek	135	0	1.09	3.94	10.1	25.2
1752	1026001553	LC				Spring Creek	15.2	0	0	.74	1.38	3.33
1755	HYDRO	LC				HYDRO	3.30	NA	NA	NA	NA	NA
1837	1026001034	LC				Lost Creek	17.2	0	0	.46	.86	2.43
1844	1026001010	LC	RS			Wolf Creek	247	.70	2.05	4.56	12.7	32.4
1853	102600106	LC				Spillman Creek	180	0	1.80	5.64	14.4	35.6
1858	1026001035	LC				Yauger Creek	19.9	0	0	.81	1.66	4.02
1863	102600105	LC				Saline River	2,530	11.5	18.6	34.8	89.2	385
1866	102600105	LC				Saline River	2,510	11.3	18.3	34.2	87.0	379
1893	1026001036	LC				Twelvemile Creek	17.3	0	.01	.83	1.61	3.81
1894	1026001033	LC	RS			Blue Stem Creek	31.9	0	0	.72	1.75	4.60
1897	1026001010	LC				Wolf Creek	293	.70	2.75	6.34	17.0	43.1
1900	102600105	LC				Saline River	2,550	11.8	19.0	35.5	91.6	392
1901	102600103	LC				Saline River	2,750	14.0	22.4	42.0	115	459
1910	102600104	LC				Saline River	2,640	12.8	20.6	38.6	103	424
1912	102600109	LC				Saline River	2,320	9.28	15.2	28.3	65.4	317
1925	102600109	LC				Saline River	2,250	8.45	13.9	25.8	56.6	292
1926	102600109	LC				Saline River	2,290	8.93	14.6	27.2	61.6	306

Table 59. 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 Lincoln 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. 63)	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
1496	NA	NA	NA	NA	NA	NA	NA
1502	3.10	743	1,980	3,170	5,120	6,830	8,840
1522	23.4	1,440	3,730	6,020	9,800	13,300	17,400
1525	7.35	827	2,180	3,540	5,760	7,790	10,100
1526	.98	554	1,460	2,330	3,750	4,980	6,430
1528	15.7	1,240	3,170	5,100	8,230	11,100	14,400
1567	4.93	793	2,100	3,410	5,550	7,510	9,750
1577	38.8	1,680	4,370	7,090	11,600	15,900	21,000
1591	8.14	1,030	2,610	4,150	6,620	8,870	11,400
1594	4.73	916	2,450	3,940	6,380	8,530	11,100
1599	44.9	1,610	4,270	7,000	11,600	16,000	21,200
1610	6.95	342	1,100	1,960	3,600	5,260	7,360
1612	49.1	1,630	4,350	7,130	11,900	16,400	21,800
1642	4.09	869	2,300	3,690	5,960	7,940	10,300
1667	6.54	846	2,240	3,640	5,930	8,040	10,500
1673	11.4	569	1,650	2,810	4,950	7,050	9,670
1688	8.79	1,080	2,620	4,090	6,400	8,460	10,800
1691	NA	NA	NA	NA	NA	NA	NA
1722	5.60	933	2,470	3,960	6,380	8,510	11,000
1735	4.99	871	2,230	3,570	5,720	7,660	9,860
1738	20.3	983	2,630	4,340	7,360	10,300	13,800
1752	3.45	725	1,870	2,960	4,720	6,250	8,030
1755	NA	NA	NA	NA	NA	NA	NA
1837	3.11	739	1,940	3,090	4,950	6,580	8,480
1844	26.1	1,910	4,480	6,900	10,800	14,400	18,400
1853	27.6	1,120	2,990	4,930	8,330	11,600	15,600
1858	4.09	807	2,120	3,380	5,420	7,210	9,310
1863	170	1,900	3,830	5,180	6,820	7,960	9,060
1866	167	1,870	3,760	5,080	6,700	7,810	8,890
1893	3.84	772	2,000	3,180	5,070	6,730	8,670
1894	4.90	751	1,980	3,200	5,180	7,000	9,060
1897	33.0	2,010	4,750	7,330	11,500	15,400	19,700
1900	173	1,950	3,910	5,280	6,960	8,130	9,250
1901	199	2,350	4,680	6,320	8,340	9,750	11,100
1910	185	2,140	4,270	5,770	7,620	8,900	10,100
1912	142	1,500	3,060	4,130	5,430	6,310	7,160
1925	132	1,350	2,770	3,750	4,920	5,700	6,450
1926	138	1,430	2,930	3,970	5,210	6,050	6,860

Table 59. 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 Lincoln County.—Continued

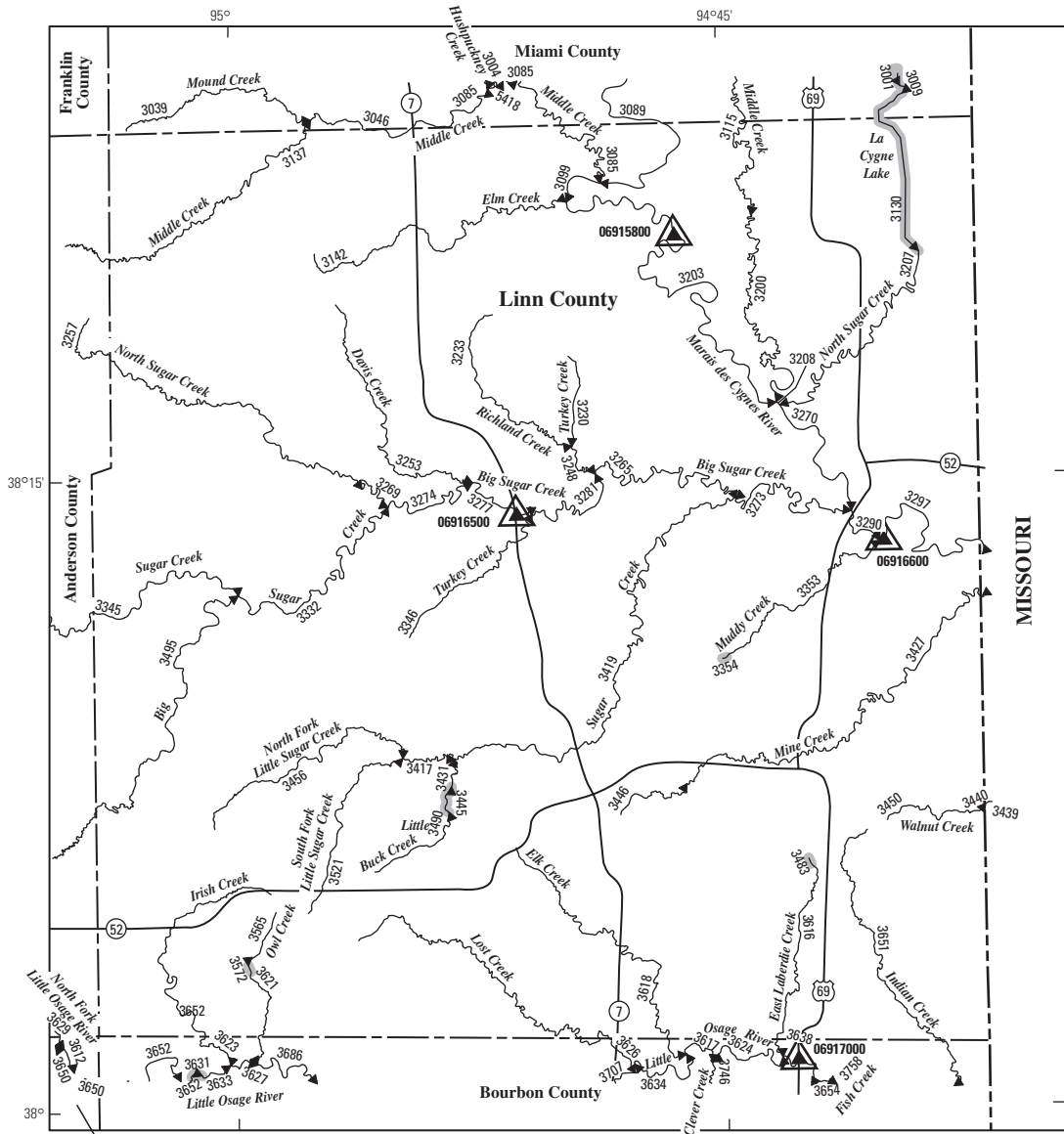
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Determination site identification number (fig. 63)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded				
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent
		1930	102600103	LC	OT					Saline River	2,840	15.0
1933	102600103	LC				Saline River	2,810	14.6	23.4	43.9	122	478
1934	102600103	LC				Saline River	2,770	14.2	22.8	42.8	118	467
1935	1026001014	LC				Bullfoot Creek	89.1	0	1.36	4.53	11.0	25.8
1962	1026001013	LC	RS			Saline River	1,950	5.10	8.70	16.0	21.0	191
2005	1026001017	LC				Elkhorn Creek	92.9	0	1.59	5.06	12.2	28.6
2028	1026001015	LC				Bullfoot Creek	38.4	0	.32	1.82	4.21	9.86
2082	1026001039	LC				Owl Creek	33.7	0	.24	1.46	3.34	8.13
2083	1026001018	LC	OT			Table Rock Creek	44.1	0	.75	2.78	6.51	15.1
2085	1026001037	LC				West Twin Creek	34.4	0	.19	1.47	3.35	7.89
2086	HYDRO	LC				HYDRO	6.40	NA	NA	NA	NA	NA
2087	1026001015	LC				Bullfoot Creek	13.0	0	0	.43	.74	2.01
2111	1026001018	LC				Table Rock Creek	4.76	0	0	0	0	0
2115	1026001039	LC				Owl Creek	5.88	0	0	0	0	0
2165	1026001022	LC	SA			Mulberry Creek	80.1	0	1.76	5.60	13.3	30.5

Table 59. 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 Lincoln 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. 63)	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
1930	212	2,530	5,030	6,790	8,970	10,500	12,000
1933	207	2,460	4,900	6,610	8,730	10,200	11,700
1934	203	2,390	4,770	6,430	8,500	9,940	11,400
1935	19.2	1,670	4,020	6,260	9,800	13,000	16,600
1962	91.6	744	1,610	2,190	2,840	3,250	3,610
2005	21.0	1,880	4,430	6,820	10,600	13,900	17,600
2028	8.29	1,080	2,670	4,200	6,620	8,790	11,200
2082	7.35	909	2,290	3,620	5,760	7,680	9,840
2083	11.7	997	2,520	4,010	6,400	8,560	11,000
2085	6.95	997	2,480	3,900	6,160	8,180	10,400
2086	NA	NA	NA	NA	NA	NA	NA
2087	2.58	634	1,650	2,610	4,170	5,530	7,120
2111	.55	384	958	1,490	2,340	3,070	3,910
2115	.95	431	1,080	1,690	2,660	3,490	4,460
2165	21.3	1,490	3,550	5,490	8,560	11,300	14,400



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

- ← 3652 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06917000 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06916500 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 3445 Lake and determination site identification number

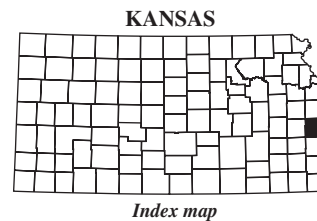


Figure 64. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Linn County.

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Table 60. 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 Linn 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. 64)	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
		3046	1029010230	LN	MI					Middle Creek	67.9	0
3085	1029010230	LN	MI			Middle Creek	92.1	0	2.16	10.9	38.3	112
3089	1029010216	LN	MI			Marais des Cygnes River	2,590	62.5	111	489	2,050	5,840
3099	1029010215	LN				Marais des Cygnes River	2,680	64.1	115	513	2,130	6,070
3115	1029010212	LN	MI			Middle Creek	80.6	0	1.65	9.31	34.1	101
3130	HYDRO	LN	MI			HYDRO	53.9	NA	NA	NA	NA	NA
3142	1029010240	LN				Elm Creek	24.6	0	.49	3.85	13.2	36.2
3200	1029010212	LN				Middle Creek	92.7	0	1.89	10.4	38.1	114
3203	1029010215	LN				Marais des Cygnes River	2,730	64.9	117	526	2,180	6,190
3207	102901026	LN				North Sugar Creek	81.2	0	1.47	8.55	31.8	96.4
3208	1029010211	LN				Marais des Cygnes River	2,820	60.8	116	535	2,200	6,230
3230	102901021029	LN				Turkey Creek	9.53	0	.20	2.33	7.39	18.9
3233	1029010241	LN				Richland Creek	15.9	0	.18	2.69	9.27	25.3
3248	1029010241	LN				Richland Creek	26.5	0	.61	4.59	15.9	43.5
3253	1029010238	LN				Davis Creek	17.7	0	.22	2.79	9.75	26.6
3265	1029010232	LN				Big Sugar Creek	240	.48	2.80	18.9	89.6	275
3269	1029010239	LN				North Sugar Creek	46.7	0	.64	5.00	19.5	56.4
3270	102901025	LN				Marais des Cygnes River	2,910	56.9	114	543	2,220	6,270
3273	1029010231	LN				Big Sugar Creek	325	1.12	4.76	28.8	126	394
3274	1029010232	LN				Big Sugar Creek	160	0	1.19	10.1	53.3	162
3277	1029010232	LN				Big Sugar Creek	181	0	1.20	11.0	61.0	185
3281	1029010232	LN				Big Sugar Creek	204	.18	1.83	14.2	72.5	221
3290	102901024	LN				Marais des Cygnes River	3,240	42.5	110	575	2,300	6,420
3297	102901024	LN				Marais des Cygnes River	3,270	41.0	109	579	2,310	6,440
3332	1029010232	LN				Big Sugar Creek	110	0	1.08	7.96	37.3	113
3346	1029010245	LN				Turkey Creek	18.5	0	.29	3.24	11.3	30.9
3353	1029010246	LN				Muddy Creek	18.6	0	.22	2.89	10.1	28.1
3354	HYDRO	LN				HYDRO	2.75	NA	NA	NA	NA	NA
3417	1029010233	LN				Little Sugar Creek	32.4	0	.25	3.68	14.2	42.3
3419	1029010233	LN				Little Sugar Creek	77.8	0	1.65	9.84	36.7	109
3427	102901021244	LN				Mine Creek	43.8	0	.83	5.54	20.1	58.2
3431	1029010244	LN				Buck Creek	9.60	0	0	1.45	5.22	14.7
3439	1029010234	LN				Walnut Creek	14.7	0	0	1.66	6.11	17.8
3440	1029010234	LN				Walnut Creek	14.7	0	0	1.66	6.11	17.8
3445	HYDRO	LN				HYDRO	8.65	NA	NA	NA	NA	NA
3446	102901021244	LN				Mine Creek	11.1	0	.06	2.05	7.00	18.8
3450	1029010234	LN				Walnut Creek	13.8	0	0	1.55	5.74	16.7
3456	1029010233	LN				North Fork Little Sugar Creek	20.0	0	0	2.36	9.04	26.6

Table 60. 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 Linn 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. 64)	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
3046	56.5	6,260	11,500	15,900	22,100	27,300	32,700
3085	76.1	6,250	11,700	16,400	23,000	28,600	34,600
3089	2,130	22,900	29,000	35,800	56,100	73,600	93,800
3099	70.0	6,540	12,100	16,700	23,400	29,000	35,000
3115	NA	NA	NA	NA	NA	NA	NA
3130	2,220	23,600	29,700	36,600	58,000	76,500	97,900
3142	25.1	2,660	5,410	7,740	11,200	14,100	17,400
3200	78.9	5,970	11,300	15,900	22,600	28,200	34,200
3203	2,270	24,000	30,000	37,000	59,000	78,000	100,000
3207	68.4	5,980	11,300	15,700	22,200	27,600	33,400
3208	2,290	24,000	31,000	38,200	58,200	75,200	94,700
3230	12.4	1,590	3,140	4,420	6,340	7,890	9,660
3233	17.7	2,120	4,250	6,030	8,700	10,900	13,300
3248	29.2	2,860	5,780	8,250	12,000	15,000	18,400
3253	18.7	2,200	4,450	6,340	9,180	11,500	14,200
3265	178	6,610	13,600	20,200	30,700	40,500	52,000
3269	40.6	5,440	10,100	13,900	19,500	24,200	29,100
3270	2,310	24,000	32,000	39,400	57,400	72,500	89,600
3273	246	7,960	16,000	23,500	35,400	46,300	59,100
3274	113	7,170	13,900	19,900	29,400	38,000	47,900
3277	127	6,490	13,100	19,200	29,000	38,100	48,800
3281	148	6,650	13,500	19,800	30,000	39,400	50,400
3290	2,370	23,900	35,700	43,700	54,600	62,800	71,000
3297	2,380	23,900	36,100	44,200	54,300	61,700	69,000
3332	81.5	7,300	13,600	19,000	27,100	34,200	42,000
3346	21.3	2,390	4,770	6,760	9,720	12,100	14,900
3353	20.0	2,410	4,800	6,800	9,780	12,200	15,000
3354	NA	NA	NA	NA	NA	NA	NA
3417	31.2	5,640	10,200	13,800	19,000	23,300	27,700
3419	73.9	7,020	12,800	17,500	24,400	30,000	36,000
3427	41.4	4,140	7,930	11,100	15,800	19,600	23,700
3431	10.9	1,660	3,250	4,560	6,510	8,090	9,880
3439	14.1	2,130	4,210	5,940	8,510	10,600	13,000
3440	14.1	2,130	4,210	5,940	8,510	10,600	13,000
3445	NA	NA	NA	NA	NA	NA	NA
3446	13.3	1,810	3,550	5,000	7,140	8,880	10,800
3450	13.3	2,060	4,060	5,720	8,190	10,200	12,500
3456	20.0	2,470	4,950	7,030	10,100	12,700	15,600

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Table 60. 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 Linn 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. 64)	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	
		3483	HYDRO	LN						HYDRO	3.64	NA	NA
3490	1029010244	LN				Buck Creek	7.19	0	0	0.83	3.21	9.54	
3521	1029010243	LN				South Fork Little Sugar Creek	10.2	0	0	.96	4.17	13.0	
3565	102901039	LN				Owl Creek	3.25	0	0	.04	.61	2.89	
3572	HYDRO	LN				HYDRO	3.52	NA	NA	NA	NA	NA	

Table 60. 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 Linn 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. 64)	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
3483	NA	NA	NA	NA	NA	NA	NA
3490	7.68	1,400	2,730	3,820	5,440	6,740	8,220
3521	10.5	1,700	3,340	4,710	6,720	8,360	10,200
3565	3.06	864	1,660	2,320	3,270	4,050	4,920
3572	NA	NA	NA	NA	NA	NA	NA

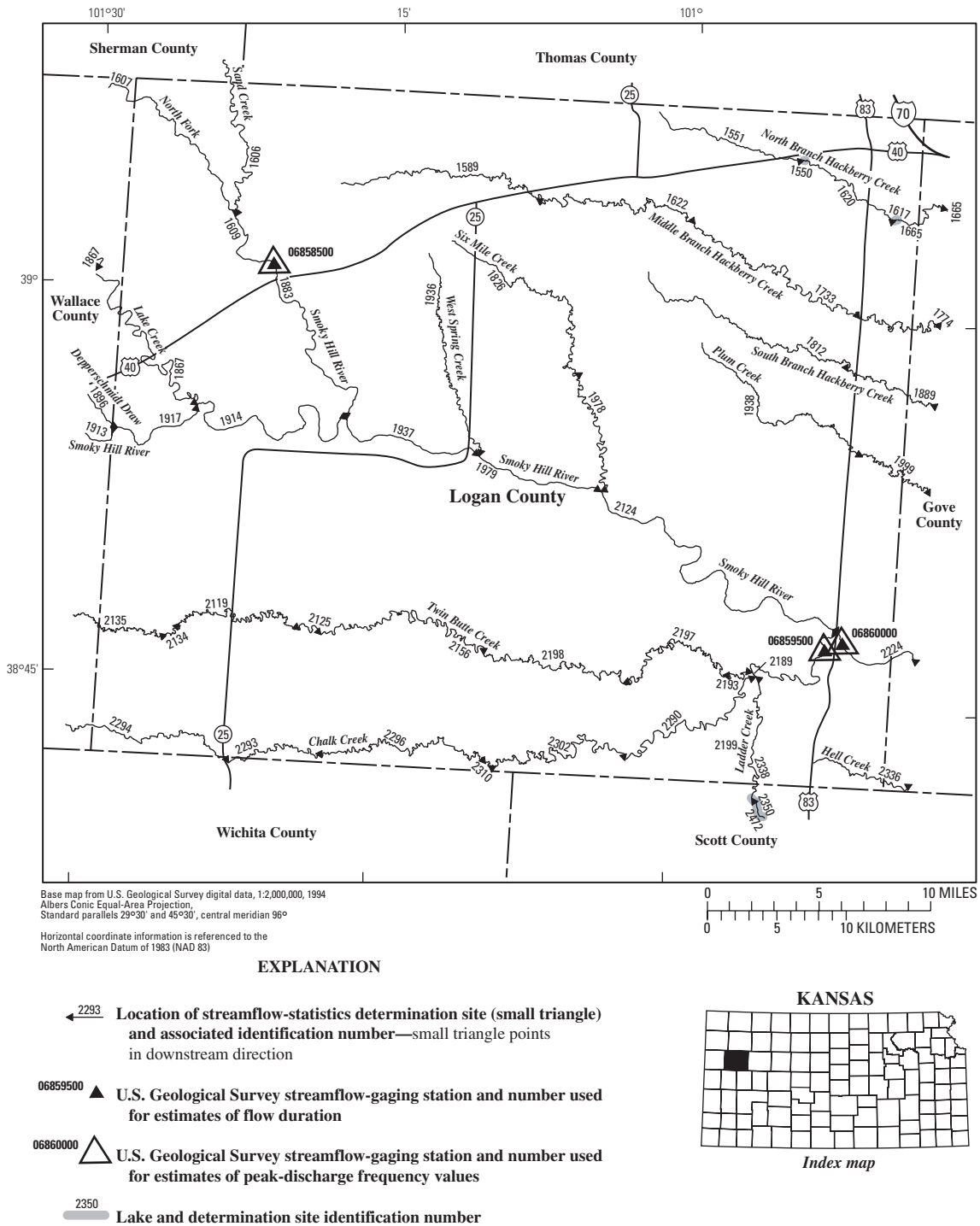


Figure 65. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Logan County.

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

Table 61. 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 Logan 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. 65)	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	
		1550	HYDRO	LG						HYDRO	27.5	NA	NA
1551	102600055	LG				North Branch Hackberry Creek	27.4	0	0	0	0	0	0
1589	102600056	LG				Middle Branch Hackberry Creek	63.9	0	0	0	0	0	0
1606	102600022	LG	SH			Sand Creek	95.8	0	0	0	.02	.04	
1607	102600023	LG	SH	WA		North Fork Smoky Hill River	600	0	0	0	.64	1.50	
1609	102600023	LG				North Fork Smoky Hill River	696	0	0	0	.86	2.02	
1617	HYDRO	LG				HYDRO	49.7	NA	NA	NA	NA	NA	
1620	102600055	LG				North Branch Hackberry Creek	49.5	0	0	0	0	0	
1622	102600056	LG				Middle Branch Hackberry Creek	94.4	0	0	0	0	0	
1733	102600056	LG				Middle Branch Hackberry Creek	126	0	0	0	0	0	
1812	102600057	LG				South Branch Hackberry Creek	34.2	0	0	0	0	0	
1826	1026000323	LG				Six Mile Creek	43.2	0	0	0	0	0	
1867	102600012	LG	WA			Lake Creek	210	0	0	0	0	0	
1883	102600021	LG				North Fork Smoky Hill River	752	0	0	0	1.00	3.00	
1896	10260001309	LG	WA			Depperschmidt Draw	39.0	0	0	0	0	0	
1913	102600013	LG	WA			Smoky Hill River	788	0	0	0	0	.90	
1914	102600011	LG				Smoky Hill River	1,100	0	0	0	.95	4.62	
1917	102600013	LG				Smoky Hill River	846	0	0	0	0	1.60	
1936	1026000333	LG				West Spring Creek	42.9	0	0	0	0	0	
1937	1026000324	LG				Smoky Hill River	1,880	0	0	0	2.17	8.96	
1938	1026000318	LG				Plum Creek	52.1	0	0	0	0	0	
1978	1026000323	LG				Six Mile Creek	67.4	0	0	0	0	0	
1979	1026000324	LG				Smoky Hill River	1,950	0	0	.07	2.45	9.74	
2119	102600042	LG				Twin Butte Creek	93.1	0	0	.01	.01	.02	
2124	1026000322	LG				Smoky Hill River	2,090	0	0	.35	3.16	11.7	
2125	102600042	LG				Twin Butte Creek	99.1	0	0	.01	.01	.01	
2134	102600042	LG				Twin Butte Creek	50.5	0	0	0	0	0	
2135	102600042	LG	WA			Twin Butte Creek	44.0	0	0	0	0	0	
2156	102600042	LG				Twin Butte Creek	153	0	0	.01	.01	.01	
2189	102600043	LG				Ladder Creek	1,420	0	.29	1.22	2.16	6.10	
2193	102600042	LG				Twin Butte Creek	206	0	.01	.03	.06	.12	
2197	102600042	LG				Twin Butte Creek	205	0	.01	.03	.06	.12	
2198	102600042	LG				Twin Butte Creek	186	0	.01	.02	.02	.02	
2199	102600041	LG				Ladder Creek	1,640	0	.39	1.90	4.00	10.0	
2290	102600044	LG				Chalk Creek	210	0	.01	.03	.06	.12	
2293	102600044	LG				Chalk Creek	94.7	0	0	.01	.01	.01	
2294	102600044	LG	WA			Chalk Creek	76.3	0	0	0	0	0	
2296	102600044	LG				Chalk Creek	136	0	0	.01	.01	.01	

Table 61. 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 Logan 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. 65)	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
1550	NA	NA	NA	NA	NA	NA	NA
1551	0	360	1,210	2,160	3,830	5,400	7,320
1589	0	197	735	1,400	2,680	4,020	5,700
1606	.04	311	1,080	1,980	3,660	5,370	7,470
1607	2.01	298	1,610	3,670	8,490	14,300	22,400
1609	3.05	312	1,800	4,220	10,000	17,100	27,100
1617	NA	NA	NA	NA	NA	NA	NA
1620	0	241	839	1,550	2,850	4,170	5,800
1622	0	214	822	1,600	3,120	4,730	6,820
1733	.42	266	1,010	1,970	3,870	5,910	8,570
1812	0	178	618	1,140	2,100	3,070	4,260
1826	0	231	798	1,460	2,670	3,890	5,350
1867	1.46	437	1,470	2,660	4,850	7,040	9,720
1883	3.68	327	1,930	4,580	11,000	18,900	30,100
1896	0	246	822	1,480	2,660	3,830	5,220
1913	4.44	934	3,050	5,500	10,000	14,600	20,200
1914	8.03	1,190	3,830	6,870	12,500	18,100	25,100
1917	5.14	985	3,200	5,770	10,500	15,200	21,100
1936	0	244	832	1,510	2,740	3,960	5,430
1937	11.0	935	4,080	8,530	18,300	29,500	44,700
1938	0	248	857	1,570	2,870	4,180	5,760
1978	0	289	986	1,800	3,280	4,770	6,570
1979	11.7	984	4,240	8,810	18,800	30,200	45,700
2119	.03	270	956	1,780	3,300	4,840	6,750
2124	13.5	1,090	4,560	9,390	19,800	31,600	47,600
2125	.12	276	977	1,820	3,370	4,950	6,900
2134	0	212	757	1,410	2,610	3,830	5,320
2135	0	194	697	1,300	2,420	3,550	4,930
2156	.97	329	1,140	2,110	3,900	5,710	7,950
2189	5.89	632	2,490	5,010	10,400	16,500	25,000
2193	1.93	375	1,280	2,350	4,320	6,320	8,790
2197	1.91	377	1,290	2,360	4,340	6,350	8,830
2198	1.53	369	1,260	2,320	4,260	6,230	8,660
2199	8.00	646	2,590	5,270	11,100	17,900	27,500
2290	1.49	454	1,520	2,770	5,040	7,330	10,200
2293	0	291	1,020	1,890	3,500	5,130	7,140
2294	0	255	906	1,680	3,120	4,590	6,380
2296	.14	351	1,220	2,250	4,150	6,080	8,470

Table 61. 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 Logan County.—Continued

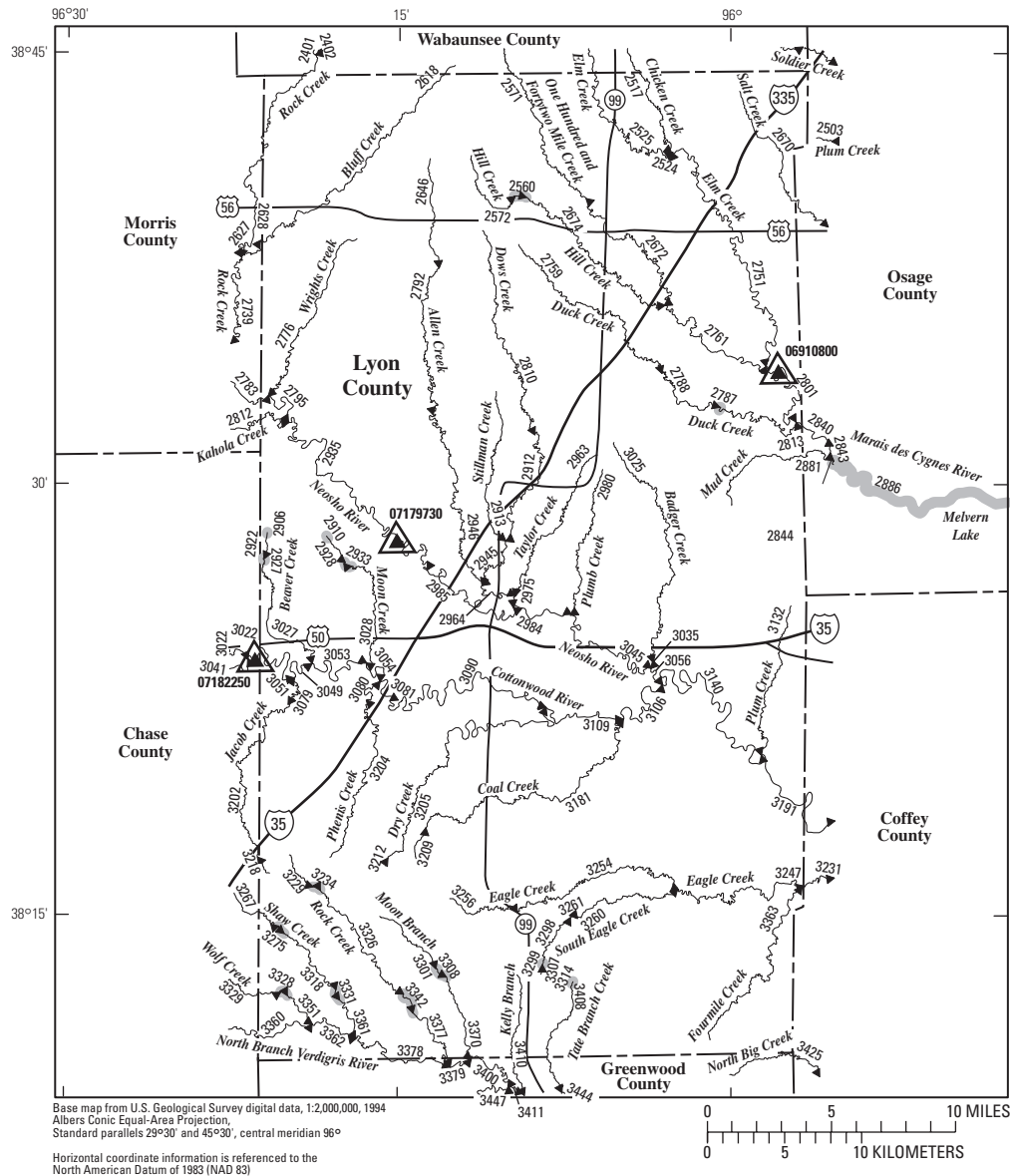
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 65)	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
		2302	102600044	LG						Chalk Creek	183	0
2310	102600044	LG				Chalk Creek	146	0	0	.01	.01	.01
2338	102600045	LG	SC			Ladder Creek	1,210	0	.21	.88	.89	3.29

Table 61. 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 Logan 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. 65)	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
2302	0.90	409	1,390	2,560	4,700	6,860	9,530
2310	.26	366	1,270	2,340	4,320	6,320	8,800
2338	4.28	594	2,320	4,630	9,430	14,800	22,200



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

- ◀ 3330 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- ▲ 07179730 U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- △ 07182250 U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 3342 Lake and determination site identification number

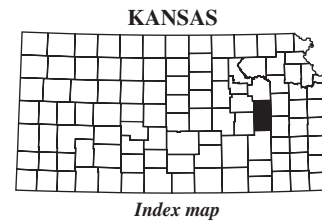


Figure 66. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Lyon County.

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

Table 62. 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 Lyon 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. 66)	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
		2517	1029010170	LY	WB					Chicken Creek	21.7	0
2524	1029010139	LY				Elm Creek	42.4	.01	.09	3.12	11.8	36.0
2525	1029010139	LY	WB			Elm Creek	42.1	.01	.09	3.10	11.7	35.8
2560	HYDRO	LY				HYDRO	10.4	NA	NA	NA	NA	NA
2571	1029010140	LY	WB			One Hundred and Fortytwo Mile Creek	24.0	0	0	1.25	5.19	16.9
2572	1029010171	LY				Hill Creek	9.26	0	0	.24	1.47	5.76
2618	110702018	LY	MR	WB		Bluff Creek	33.9	0	.09	2.54	8.95	26.5
2628	110702019	LY	MR	WB		Rock Creek	78.3	0	.97	5.63	19.1	56.1
2646	110702015	LY				Allen Creek	12.5	0	0	.57	2.54	8.65
2670	1029010129	LY	OS			Salt Creek	43.3	0	0	2.44	9.86	31.2
2672	1029010140	LY				One Hundred and Fortytwo Mile Creek	36.7	.01	.01	2.19	8.72	27.7
2674	1029010171	LY				Hill Creek	21.4	0	0	1.12	4.78	15.7
2751	1029010139	LY				Elm Creek	94.0	.06	1.02	7.59	28.3	87.3
2759	1029010141	LY				Duck Creek	21.4	0	0	.73	3.65	13.0
2761	1029010140	LY				One Hundred and Fortytwo Mile Creek	68.5	.03	.38	4.60	17.7	55.6
2776	1107020138	LY				Wrights Creek	26.0	0	0	1.64	6.10	18.7
2783	110702016	LY	MR			Neosho River	546	10.0	17.7	57.2	202	807
2787	HYDRO	LY				HYDRO	30.7	NA	NA	NA	NA	NA
2788	1029010141	LY				Duck Creek	30.7	0	0	1.30	5.78	19.7
2792	110702015	LY				Allen Creek	34.9	0	0	1.72	7.01	22.8
2795	110702016	LY				Neosho River	574	10.7	18.8	61.4	215	850
2801	1029010138	LY				Marais des Cygnes River	170	.18	2.30	15.0	56.0	174
2810	110702014	LY				Dows Creek	23.0	0	0	.80	3.89	13.7
2812	1107020143	LY	MR			Kahola Creek	28.3	0	.09	2.27	7.59	21.8
2813	1029010141	LY				Duck Creek	36.4	0	0	1.84	7.66	25.2
2840	1029010137	LY	OS			Marais des Cygnes River	212	.18	2.91	17.5	65.2	205
2881	1029010191	LY	OS			Mud Creek	20.2	0	0	1.16	4.98	16.3
2906	HYDRO	LY				HYDRO	4.76	NA	NA	NA	NA	NA
2910	HYDRO	LY				HYDRO	2.58	NA	NA	NA	NA	NA
2912	110702014	LY				Dows Creek	31.0	0	0	1.20	5.41	18.6
2913	1107020144	LY				Stillman Creek	10.5	0	0	0	.89	4.80
2922	1107020329	LY				Beaver Creek	8.52	0	0	0	.70	3.78
2927	HYDRO	LY				HYDRO	8.72	NA	NA	NA	NA	NA
2928	1107020331	LY				Moon Creek	5.10	0	0	0	0	1.08
2933	HYDRO	LY				HYDRO	6.84	NA	NA	NA	NA	NA
2935	110702016	LY				Neosho River	631	12.0	21.0	70.0	240	937
2945	110702014	LY				Dows Creek	43.6	0	0	1.83	7.69	25.9
2946	110702015	LY				Allen Creek	51.4	0	.06	2.65	10.3	32.9

Table 62. 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 Lyon 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. 66)	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
2517	14.6	1,850	4,070	6,030	9,040	11,600	14,500
2524	27.1	3,370	7,330	10,900	16,400	21,200	26,600
2525	26.9	3,400	7,370	11,000	16,500	21,300	26,700
2560	NA	NA	NA	NA	NA	NA	NA
2571	14.2	1,910	4,240	6,310	9,500	12,200	15,300
2572	5.68	1,090	2,360	3,460	5,140	6,540	8,140
2618	20.6	3,180	6,660	9,720	14,300	18,300	22,500
2628	41.3	4,310	9,010	13,200	19,500	24,900	30,900
2646	7.85	1,300	2,820	4,140	6,150	7,830	9,740
2670	25.6	3,010	6,480	9,580	14,300	18,400	22,800
2672	22.2	3,270	7,060	10,500	15,700	20,200	25,300
2674	13.3	1,830	4,020	5,940	8,910	11,400	14,300
2751	60.7	4,780	10,800	16,400	25,300	33,300	42,500
2759	12.2	1,840	4,000	5,890	8,770	11,200	13,900
2761	41.5	4,700	10,100	15,000	22,600	29,300	36,800
2776	15.4	1,920	4,260	6,340	9,530	12,200	15,300
2783	294	6,160	9,680	22,200	35,900	49,700	66,100
2787	NA	NA	NA	NA	NA	NA	NA
2788	17.5	2,840	6,120	9,060	13,500	17,400	21,700
2792	19.5	3,200	6,800	9,980	14,800	19,000	23,500
2795	310	6,570	10,300	23,900	38,900	53,900	71,800
2801	113	7,860	18,200	28,100	44,200	59,100	76,500
2810	12.8	1,880	4,110	6,070	9,070	11,600	14,500
2812	16.8	1,920	4,320	6,450	9,760	12,500	15,700
2813	21.5	2,990	6,450	9,550	14,300	18,400	22,900
2840	134	8,530	19,500	30,000	47,000	62,700	81,000
2881	13.9	1,940	4,120	6,010	8,870	11,200	14,000
2906	NA	NA	NA	NA	NA	NA	NA
2910	NA	NA	NA	NA	NA	NA	NA
2912	16.8	2,320	5,220	7,870	12,000	15,600	19,600
2913	5.60	1,200	2,580	3,770	5,590	7,100	8,820
2922	4.40	966	2,120	3,120	4,650	5,930	7,390
2927	NA	NA	NA	NA	NA	NA	NA
2928	2.31	729	1,570	2,300	3,410	4,330	5,380
2933	NA	NA	NA	NA	NA	NA	NA
2935	341	7,400	11,600	27,500	45,000	62,500	83,500
2945	22.8	2,640	5,910	8,910	13,600	17,700	22,200
2946	27.4	3,080	6,730	10,000	15,100	19,600	24,500

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

Table 62. 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 Lyon 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. 66)	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
2963	1107020146	LY				Taylor Creek	10.4	0	0	0.08	1.19	5.47
2964	110702013	LY				Allen Creek	96.0	0	.62	4.77	18.3	59.6
2975	110702013	LY				Allen Creek	106	0	.76	5.29	20.2	66.2
2980	1107020149	LY				Plumb Creek	12.6	0	0	.33	2.20	8.49
2984	110702012	LY				Neosho River	751	12.8	23.4	86.9	311	1,170
2985	110702016	LY				Neosho River	641	12.1	21.2	71.4	246	956
3025	1107020145	LY				Badger Creek	33.6	0	0	1.77	7.69	25.6
3027	1107020329	LY				Beaver Creek	20.4	0	0	.62	2.89	10.2
3028	1107020331	LY				Moon Creek	17.2	0	0	.40	2.25	8.60
3035	1107020145	LY				Badger Creek	33.7	0	0	1.78	7.73	25.8
3045	110702012	LY				Neosho River	774	13.0	23.8	90.1	325	1,210
3049	110702031	LY				Cottonwood River	1,710	47.6	104	300	812	2,150
3053	110702031	LY				Cottonwood River	1,730	47.2	103	302	828	2,220
3054	110702031	LY				Cottonwood River	1,750	46.9	103	304	840	2,270
3056	110702012	LY				Neosho River	808	13.2	24.5	94.9	345	1,280
3079	1107020328	LY				Jacob Creek	26.8	0	0	1.64	5.91	17.9
3080	1107020330	LY				Phenis Creek	21.0	0	0	1.17	4.51	14.3
3081	110702031	LY				Cottonwood River	1,780	46.5	102	305	854	2,330
3090	110702031	LY				Cottonwood River	1,790	46.3	102	307	865	2,370
3106	110702031	LY				Cottonwood River	1,860	45.2	99.6	312	910	2,550
3109	110702031	LY				Cottonwood River	1,820	45.8	101	309	883	2,440
3132	1107020150	LY				Plum Creek	34.4	0	0	1.89	8.26	27.6
3140	1107020126	LY				Neosho River	2,690	32.2	75.0	376	1,450	4,720
3181	1107020343	LY				Coal Creek	35.3	0	0	1.49	6.71	23.1
3204	1107020330	LY				Phenis Creek	20.1	0	0	1.10	4.31	13.7
3205	1107020342	LY				Dry Creek	22.0	0	0	1.09	4.54	14.9
3209	1107020343	LY				Coal Creek	3.36	0	0	0	0	0
3212	1107020342	LY				Dry Creek	2.42	0	0	0	0	0
3229	1107010114	LY				Rock Creek	4.95	0	0	.01	.23	1.98
3234	HYDRO	LY				HYDRO	5.33	NA	NA	NA	NA	NA
3247	1107020125	LY				Eagle Creek	67.5	0	.16	3.33	13.7	46.1
3254	1107020125	LY				Eagle Creek	33.5	0	0	1.37	6.34	22.0
3256	1107020125	LY				Eagle Creek	11.1	0	0	.06	1.29	5.98
3260	1107020147	LY				South Eagle Creek	17.1	0	0	.61	3.29	11.9
3261	1107020147	LY				South Eagle Creek	5.53	0	0	0	.08	2.30
3275	HYDRO	LY				HYDRO	7.37	NA	NA	NA	NA	NA
3298	1107020147	LY				South Eagle Creek	5.23	0	0	0	0	2.07
3299	HYDRO	LY				HYDRO	1.41	NA	NA	NA	NA	NA

Table 62. 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 Lyon 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. 66)	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
2963	6.00	1,250	2,650	3,860	5,680	7,200	8,930
2964	48.1	4,480	9,530	14,100	21,000	27,100	33,800
2975	53.1	4,780	10,100	14,900	22,200	28,600	35,600
2980	8.28	1,470	3,100	4,500	6,620	8,370	10,400
2984	410	7,580	11,700	26,900	44,700	62,900	85,600
2985	347	7,420	11,600	27,500	45,000	62,500	83,700
3025	21.8	3,460	7,190	10,500	15,400	19,600	24,200
3027	9.92	1,600	3,570	5,310	8,000	10,200	12,800
3028	8.71	1,520	3,340	4,930	7,380	9,430	11,800
3035	21.9	3,420	7,130	10,400	15,300	19,500	24,100
3045	423	7,620	11,800	26,800	44,700	63,000	86,100
3049	965	14,400	25,200	33,100	52,700	74,900	105,000
3053	979	14,400	24,900	32,800	52,500	74,800	106,000
3054	990	14,300	24,800	32,500	52,300	74,800	106,000
3056	442	7,670	11,800	26,600	44,600	63,100	86,700
3079	14.9	1,890	4,230	6,300	9,510	12,200	15,300
3080	12.3	1,740	3,830	5,660	8,470	10,800	13,500
3081	1,000	14,200	24,600	32,200	52,000	74,700	106,000
3090	1,010	14,200	24,400	32,000	51,900	74,700	107,000
3106	1,050	14,000	23,800	31,000	51,200	74,400	108,000
3109	1,030	14,100	24,200	31,600	51,600	74,600	107,000
3132	23.4	4,760	9,240	13,000	18,500	23,200	28,200
3140	1,510	11,700	16,500	19,700	42,700	71,800	121,000
3181	20.6	3,230	6,830	10,000	14,800	19,000	23,500
3204	11.9	1,700	3,720	5,500	8,220	10,500	13,100
3205	13.2	1,910	4,130	6,070	9,030	11,500	14,300
3209	1.37	645	1,340	1,930	2,810	3,540	4,360
3212	.83	524	1,090	1,560	2,270	2,850	3,510
3229	2.66	739	1,580	2,310	3,410	4,330	5,370
3234	NA	NA	NA	NA	NA	NA	NA
3247	38.7	3,770	8,040	11,900	17,800	22,900	28,500
3254	19.9	2,750	5,980	8,890	13,300	17,200	21,500
3256	6.53	1,320	2,800	4,070	6,000	7,590	9,410
3260	11.2	1,810	3,800	5,520	8,120	10,300	12,700
3261	3.32	921	1,900	2,730	3,980	5,000	6,160
3275	NA	NA	NA	NA	NA	NA	NA
3298	3.12	892	1,840	2,640	3,840	4,830	5,950
3299	NA	NA	NA	NA	NA	NA	NA

Table 62. 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 Lyon County.—Continued

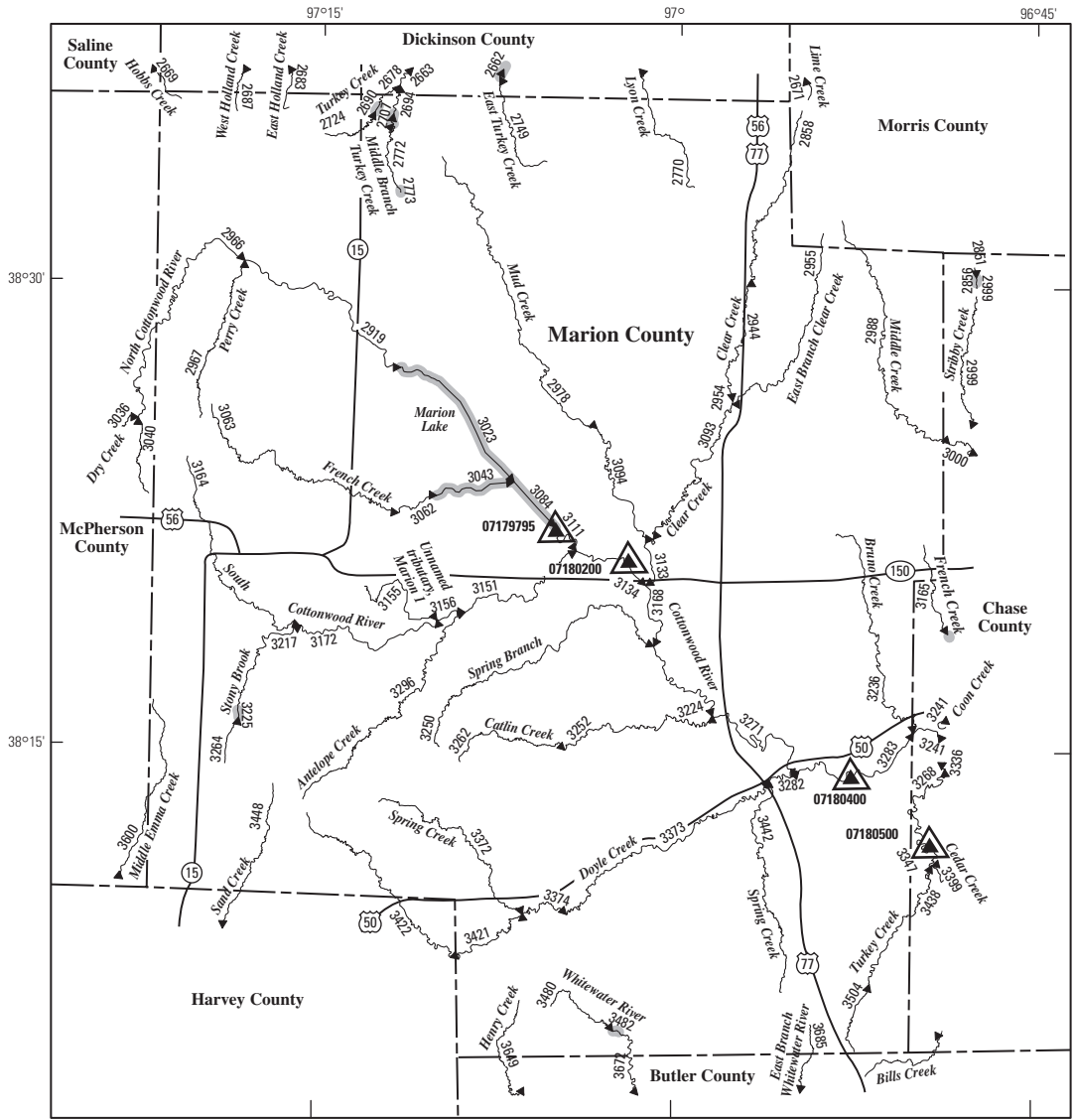
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 66)	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
3301	1107010143	LY				Moon Branch	8.00	0	0	0.02	0.90	4.43
3307	1107020147	LY				South Eagle Creek	1.11	0	0	0	0	0
3308	HYDRO	LY				HYDRO	9.66	NA	NA	NA	NA	NA
3314	HYDRO	LY				HYDRO	3.99	NA	NA	NA	NA	NA
3318	1107010140	LY				Shaw Creek	13.5	0	.01	.96	3.31	9.98
3326	1107010114	LY				Rock Creek	15.8	0	.01	1.02	3.76	11.6
3328	HYDRO	LY				HYDRO	13.8	NA	NA	NA	NA	NA
3331	HYDRO	LY				HYDRO	14.0	NA	NA	NA	NA	NA
3342	HYDRO	LY				HYDRO	17.6	NA	NA	NA	NA	NA
3351	1107010141	LY				Wolf Creek	15.3	0	.01	1.33	4.37	12.5
3361	1107010140	LY				Shaw Creek	16.1	0	.01	1.26	4.28	12.6
3362	1107010115	LY				North Branch Verdigris River	57.8	.04	1.06	6.63	20.5	55.4
3363	1107020148	LY				Fourmile Creek	36.6	0	0	1.93	8.34	27.9
3370	1107010143	LY				Moon Branch	15.2	0	.01	.77	3.47	11.7

Table 62. 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 Lyon 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. 66)	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
3301	4.91	1,070	2,270	3,300	4,860	6,150	7,610
3307	0	367	731	1,030	1,470	1,830	2,240
3308	NA	NA	NA	NA	NA	NA	NA
3314	NA	NA	NA	NA	NA	NA	NA
3318	8.48	1,320	2,910	4,300	6,430	8,210	10,200
3326	9.98	1,510	3,310	4,870	7,270	9,270	11,600
3328	NA	NA	NA	NA	NA	NA	NA
3331	NA	NA	NA	NA	NA	NA	NA
3342	NA	NA	NA	NA	NA	NA	NA
3351	9.97	1,390	3,080	4,570	6,860	8,770	11,000
3361	10.3	1,480	3,270	4,830	7,230	9,230	11,500
3362	37.6	4,730	9,700	14,000	20,500	26,000	32,100
3363	23.8	3,710	7,620	11,000	16,100	20,500	25,200
3370	10.3	1,590	3,400	4,970	7,360	9,340	11,600



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 referred to the
 North American Datum of 1983 (NAD 83)



EXPLANATION

- ← 3422 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 07180400 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 07180500 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 3043 Lake and determination site identification number

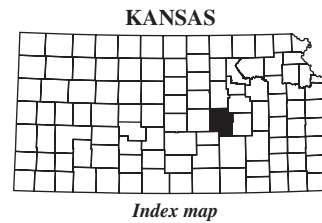


Figure 67. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Marion County.

Table 63. 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 Marion 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. 67)	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	
		2690	HYDRO	MN						HYDRO	11.0	NA	NA
2707	HYDRO	MN				HYDRO	13.5	NA	NA	NA	NA	NA	NA
2724	1026000830	MN				Turkey Creek	10.4	0	0	0.89	2.39	6.48	
2772	1026000858	MN				Middle Branch Turkey Creek	13.2	0	0	.68	2.43	7.59	
2773	HYDRO	MN				HYDRO	5.74	NA	NA	NA	NA	NA	
2858	110702025	MN	MR			Clear Creek	22.0	0	0	.24	1.86	7.94	
2919	1107020214	MN				North Cottonwood River	99.8	0	1.88	6.68	19.0	51.2	
2944	110702025	MN				Clear Creek	42.8	0	0	1.14	4.89	17.1	
2954	110702025	MN				Clear Creek	42.9	0	0	1.14	4.90	17.1	
2955	1107020224	MN	MR			East Branch Clear Creek	22.9	0	0	.34	2.18	8.78	
2966	1107020214	MN	MP			North Cottonwood River	48.0	0	.99	3.58	9.40	24.0	
2967	1107020223	MN				Perry Creek	15.1	0	0	.63	1.96	6.12	
2978	110702026	MN				Mud Creek	60.8	0	.18	2.59	9.07	28.0	
3023	HYDRO	MN				HYDRO	120	NA	NA	NA	NA	NA	
3043	HYDRO	MN				HYDRO	48.7	NA	NA	NA	NA	NA	
3062	1107020216	MN				French Creek	40.9	0	0	1.54	5.46	17.1	
3063	1107020216	MN				French Creek	35.0	0	0	1.33	4.75	14.9	
3084	HYDRO	MN				HYDRO	175	NA	NA	NA	NA	NA	
3093	110702025	MN				Clear Creek	91.5	0	.38	3.36	12.3	39.9	
3094	110702026	MN				Mud Creek	73.2	0	.45	3.29	11.1	33.8	
3111	110702028	MN				Cottonwood River	178	1.90	3.90	7.65	14.0	110	
3133	110702024	MN				Clear Creek	170	0	1.58	7.15	24.6	77.5	
3134	110702027	MN				Cottonwood River	293	8.70	13.0	32.0	107	576	
3151	1107020217	MN				South Cottonwood River	110	0	1.20	5.01	15.7	46.1	
3155	11070202456	MN				Unnamed tributary, Marion 1	11.9	0	0	0	.30	2.43	
3156	1107020218	MN				South Cottonwood River	75.3	0	.71	3.46	10.7	31.1	
3164	1107020218	MN				South Cottonwood River	29.2	0	.02	1.39	4.21	12.2	
3168	110702023	MN				Cottonwood River	470	17.3	27.9	55.8	154	645	
3172	1107020218	MN				South Cottonwood River	62.1	0	.48	2.86	8.92	26.0	
3217	1107020225	MN				Stony Brook	21.0	0	0	.32	1.60	6.25	
3224	110702023	MN				Cottonwood River	507	19.1	31.0	60.7	163	659	
3225	HYDRO	MN				HYDRO	9.07	NA	NA	NA	NA	NA	
3250	1107020226	MN				Spring Branch	26.0	0	0	.36	1.97	7.81	
3252	1107020220	MN				Catlin Creek	36.1	0	0	.83	3.60	12.7	
3262	1107020220	MN				Catlin Creek	15.7	0	0	0	.22	3.13	
3264	1107020225	MN				Stony Brook	8.46	0	0	0	0	.26	
3271	110702022	MN				Cottonwood River	557	21.6	35.2	67.5	177	678	
3282	1107020221	MN				Doyle Creek	139	0	1.59	6.68	21.6	64.6	

Table 63. 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 Marion 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. 67)	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
2690	NA	NA	NA	NA	NA	NA	NA
2707	NA	NA	NA	NA	NA	NA	NA
2724	5.45	866	1,960	2,920	4,410	5,660	7,100
2772	6.70	978	2,200	3,280	4,950	6,340	7,940
2773	NA	NA	NA	NA	NA	NA	NA
2858	8.76	1,570	3,560	5,340	8,090	10,400	13,100
2919	37.9	2,510	5,710	8,680	13,300	17,400	22,000
2944	16.4	2,020	4,770	7,360	11,500	15,100	19,300
2954	16.5	2,010	4,750	7,350	11,400	15,100	19,200
2955	9.36	1,610	3,650	5,480	8,310	10,700	13,400
2966	18.5	1,690	3,890	5,930	9,100	11,900	15,000
2967	6.01	1,100	2,550	3,870	5,920	7,670	9,680
2978	23.8	1,930	4,660	7,290	11,500	15,200	19,500
3023	NA	NA	NA	NA	NA	NA	NA
3043	NA	NA	NA	NA	NA	NA	NA
3062	15.4	2,130	4,870	7,410	11,400	14,900	18,700
3063	13.5	2,060	4,700	7,130	10,900	14,200	17,900
3084	NA	NA	NA	NA	NA	NA	NA
3093	34.4	2,940	6,750	10,300	16,000	21,000	26,700
3094	28.1	1,980	4,780	7,480	11,800	15,700	20,200
3111	77.8	1,090	2,320	3,140	4,070	4,660	5,170
3133	61.5	4,050	9,080	13,800	21,100	27,700	35,100
3134	214	7,180	15,300	24,000	37,500	52,000	70,000
3151	37.4	2,900	6,570	9,980	15,300	20,000	25,400
3155	3.76	1,000	2,300	3,460	5,250	6,770	8,510
3156	26.0	2,600	5,830	8,810	13,400	17,500	22,000
3164	11.0	1,620	3,820	5,820	8,970	11,600	14,800
3168	271	7,790	16,600	25,900	41,800	58,700	80,400
3172	21.9	2,400	5,410	8,180	12,500	16,200	20,400
3217	7.00	1,330	3,110	4,730	7,260	9,420	11,900
3224	283	7,910	16,800	26,300	42,700	60,100	82,500
3225	NA	NA	NA	NA	NA	NA	NA
3250	8.67	1,560	3,640	5,530	8,480	11,000	13,900
3252	12.7	1,870	4,420	6,810	10,600	13,900	17,700
3262	4.85	1,170	2,690	4,070	6,200	8,010	10,100
3264	2.06	773	1,790	2,690	4,100	5,290	6,660
3271	299	8,090	17,200	26,800	43,900	61,900	85,400
3282	50.4	3,330	7,550	11,500	17,700	23,200	29,400

Table 63. 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 Marion 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. 67)	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
		3296	1107020219	MN						Antelope Creek	22.3	0
3372	1107020228	MN				Spring Creek	23.8	0	0	.45	2.08	7.75
3373	1107020221	MN				Doyle Creek	99.0	0	.93	4.55	14.8	44.1
3374	1107020221	MN				Doyle Creek	61.7	0	.15	2.28	7.89	24.5
3421	1107020221	MN				Doyle Creek	33.1	0	0	1.09	3.97	12.8
3442	1107020229	MN				Spring Creek	38.6	0	.01	1.81	6.13	18.5
3480	1103001723	MN				Whitewater River	13.5	.01	.01	.01	.02	2.18
3482	HYDRO	MN				HYDRO	13.5	NA	NA	NA	NA	NA
3504	1107020231	MN				Turkey Creek	6.65	.01	.02	.05	.09	1.61

Table 63. 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 Marion 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. 67)	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
3296	8.56	1,410	3,300	5,000	7,670	9,930	12,500
3372	8.30	1,470	3,440	5,220	8,000	10,400	13,100
3373	35.8	2,670	6,160	9,450	14,600	19,200	24,500
3374	21.6	2,240	5,210	8,010	12,400	16,300	20,700
3421	12.1	1,560	3,730	5,790	9,040	11,900	15,200
3442	16.0	2,490	5,480	8,160	12,300	15,800	19,700
3480	4.13	1,100	2,510	3,770	5,730	7,380	9,280
3482	NA	NA	NA	NA	NA	NA	NA
3504	2.71	766	1,700	2,520	3,780	4,830	6,030

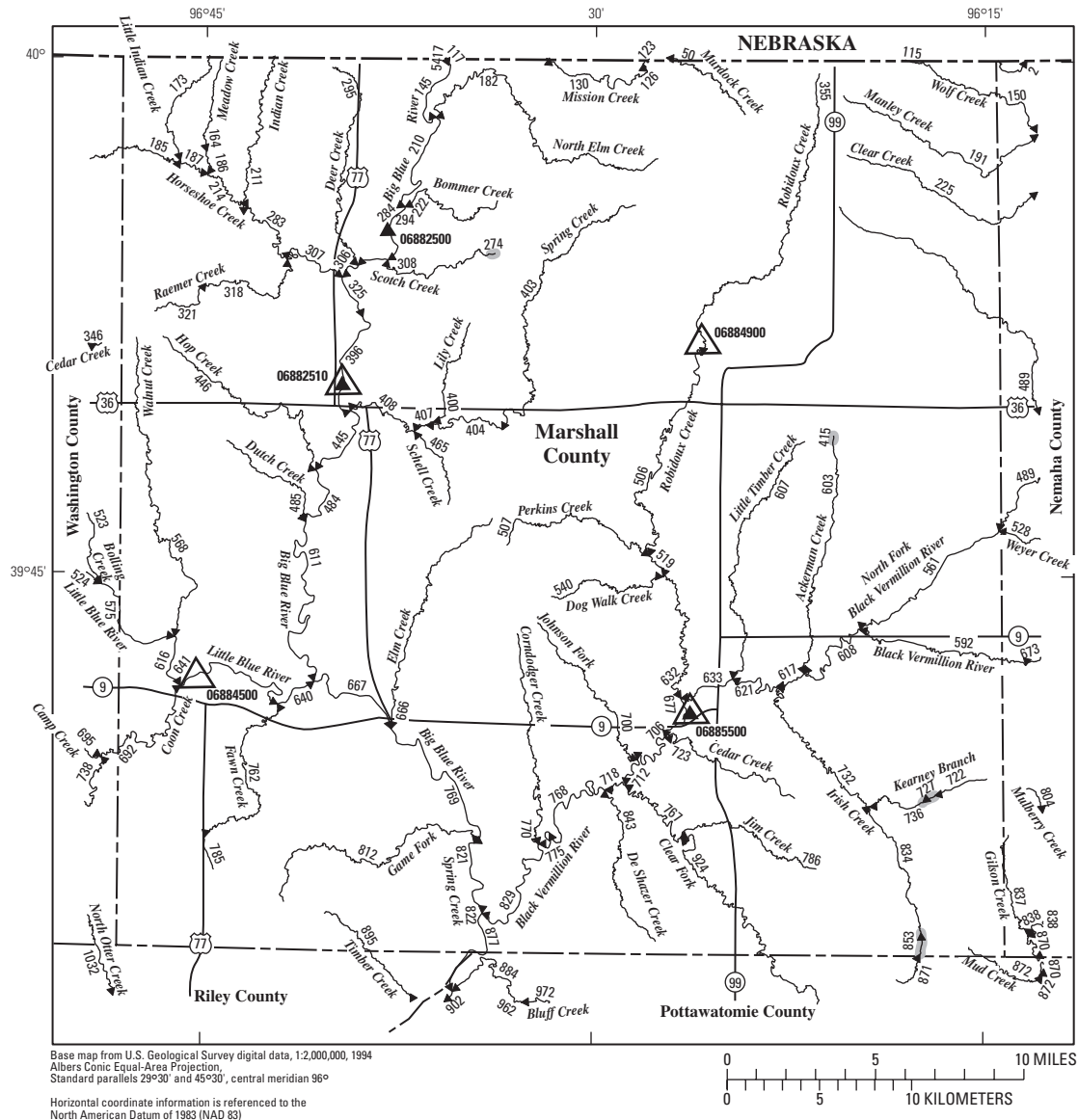


Figure 68. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Marshall County.

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Table 64. 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 Marshall 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. 68)	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
		37	1027020522	MS						Mission Creek	47.9	0
50	1027020542	MS				Murdock Creek	12.1	0	0	0	.34	3.03
115	1024000713	MS				Wolf Creek	2.29	0	0	0	0	0
117	1027020521	MS				Big Blue River	4,590	123	206	397	845	2,380
123	1027020522	MS				Mission Creek	37.2	0	0	1.03	4.31	14.5
126	1027020522	MS				Mission Creek	37.6	0	0	1.05	4.36	14.7
130	1027020522	MS				Mission Creek	47.5	0	0	1.48	5.86	19.2
145	1027020521	MS				Big Blue River	4,640	103	163	295	572	1,540
150	1024000713	MS	NM			Wolf Creek	13.8	0	.01	.65	2.48	7.89
164	1027020534	MS				Meadow Creek	5.83	0	0	0	0	.48
173	1027020535	MS				Little Indian Creek	11.3	0	0	.17	.75	3.18
182	1027020541	MS				North Elm Creek	25.1	0	0	.44	2.29	8.57
185	1027020526	MS	WS			Horseshoe Creek	61.1	.02	.44	2.90	8.89	25.2
186	1027020534	MS				Meadow Creek	6.48	0	0	0	0	.80
187	1027020526	MS				Horseshoe Creek	74.2	.03	.66	3.59	11.0	31.1
191	1024000714	MS	NM			Manley Creek	14.0	0	.01	.70	2.63	8.28
210	1027020521	MS				Big Blue River	4,670	92.2	139	239	423	1,070
211	1027020537	MS				Indian Creek	17.3	0	0	.67	2.14	6.62
214	1027020526	MS				Horseshoe Creek	84.0	.04	.85	4.13	12.6	35.5
222	1027020540	MS				Bommer Creek	8.66	0	0	0	0	1.64
225	10240007132	MS	NM			Clear Creek	31.2	.02	.03	1.86	6.57	19.6
274	HYDRO	MS				HYDRO	1.53	NA	NA	NA	NA	NA
283	1027020526	MS				Horseshoe Creek	106	.07	1.29	5.39	16.2	45.8
284	1027020521	MS				Big Blue River	4,690	88.0	130	217	365	895
294	1027020521	MS				Big Blue River	4,700	94.4	139	231	397	992
295	1027020536	MS				Deer Creek	24.2	0	0	.98	3.14	9.41
306	1027020521	MS				Big Blue River	4,720	110	161	267	477	1,230
307	1027020526	MS				Horseshoe Creek	128	.10	1.70	6.64	19.9	56.2
308	1027020538	MS				Scotch Creek	9.26	0	0	0	0	1.57
318	1027020533	MS				Raemer Creek	19.8	0	0	.74	2.43	7.48
321	1027020533	MS				Raemer Creek	1.6	0	0	.18	.74	3.05
325	1027020520	MS				Big Blue River	4,850	194	278	454	895	2,500
355	1027020516	MS				Robidoux Creek	45.1	.04	.08	1.61	6.27	20.6
396	1027020520	MS				Big Blue River	4,860	200	286	467	924	2,590
400	1027020539	MS				Lily Creek	9.42	0	0	0	0	1.52
403	1027020519	MS				Spring Creek	39.6	0	0	.94	4.19	14.6
404	1027020519	MS				Spring Creek	42.8	0	0	1.11	4.77	16.3
407	1027020519	MS				Spring Creek	52.7	0	0	1.47	6.01	20.1

Table 64. 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 Marshall 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. 68)	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
37	17.3	2,790	6,320	9,580	14,600	19,100	24,100
50	4.19	945	2,200	3,330	5,100	6,600	8,320
115	.39	374	835	1,240	1,850	2,370	2,950
117	1,190	17,900	31,300	41,400	55,500	66,700	78,700
123	13.5	3,120	6,790	10,100	15,100	19,400	24,200
126	13.7	3,110	6,780	10,100	15,100	19,400	24,200
130	17.2	2,810	6,350	9,610	14,700	19,200	24,100
145	782	18,300	31,800	42,000	56,100	67,300	79,200
150	6.93	1,070	2,480	3,740	5,700	7,360	9,270
164	1.67	577	1,350	2,040	3,120	4,030	5,080
173	3.81	839	1,990	3,040	4,680	6,080	7,690
182	8.75	1,390	3,330	5,100	7,880	10,300	13,000
185	20.4	2,390	5,450	8,290	12,700	16,600	21,000
186	1.93	613	1,440	2,180	3,330	4,310	5,430
187	24.7	2,640	6,000	9,100	13,900	18,200	23,000
191	7.17	1,080	2,500	3,780	5,760	7,430	9,370
210	557	18,300	31,900	42,000	56,100	67,200	79,000
211	6.33	1,090	2,590	3,970	6,130	7,980	10,100
214	27.9	2,720	6,190	9,410	14,400	18,900	23,900
222	2.85	741	1,740	2,630	4,030	5,220	6,590
225	15.5	2,810	6,120	9,070	13,600	17,500	21,700
274	NA	NA	NA	NA	NA	NA	NA
283	35.0	2,990	6,780	10,300	15,800	20,700	26,100
284	470	18,300	31,800	42,000	56,000	67,100	78,800
294	511	18,400	31,900	42,000	56,000	67,000	78,800
295	8.64	1,320	3,180	4,880	7,570	9,870	12,500
306	613	18,500	32,000	42,100	56,100	67,100	78,800
307	42.1	3,170	7,210	11,000	16,900	22,100	28,000
308	2.91	766	1,800	2,730	4,190	5,430	6,860
318	7.05	1,150	2,770	4,260	6,600	8,610	10,900
321	3.60	795	1,890	2,890	4,450	5,790	7,330
325	1,150	19,100	32,800	43,000	56,800	67,700	79,000
355	18.1	1,850	3,930	5,780	8,700	11,300	14,300
396	1,190	19,100	32,800	42,900	56,700	67,500	78,800
400	2.90	772	1,820	2,760	4,230	5,480	6,930
403	13.8	1,950	4,690	7,310	11,500	15,200	19,500
404	15.1	2,090	4,990	7,750	12,100	16,100	20,500
407	18.2	2,370	5,610	8,690	13,600	17,900	22,900

Table 64. 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 Marshall 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. 68)	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
		408	1027020519	MS						Spring Creek	65.6	0
415	HYDRO	MS				HYDRO	11.3	NA	NA	NA	NA	NA
445	1027020518	MS				Big Blue River	4,930	200	286	467	928	2,610
446	1027020543	MS				Hop Creek	16.6	0	0	.61	1.97	6.12
465	1027020545	MS				Schell Creek	8.07	0	0	0	0	1.19
484	1027020518	MS				Big Blue River	4,950	201	287	468	930	2,610
485	1027020544	MS				Dutch Creek	10.6	0	0	.32	.99	3.50
489	1027020515	MS	NM			North Fork Black Vermillion River	63.8	.09	.17	2.68	9.92	32.1
506	1027020516	MS				Robidoux Creek	72.8	.12	.40	3.41	11.7	36.2
507	1027020547	MS				Perkins Creek	14.4	0	.01	.15	1.31	5.58
519	1027020516	MS				Robidoux Creek	88.2	.17	.68	4.20	14.2	43.9
528	1027020550	MS	NM			Weyer Creek	25.5	.01	.03	.97	4.27	14.6
540	1027020553	MS				Dog Walk Creek	9.64	0	0	.01	.14	2.47
561	1027020515	MS				North Fork Black Vermillion River	107	.25	1.04	5.37	18.4	58.4
568	1027020741	MS				Walnut Creek	29.5	0	0	1.51	4.61	13.0
575	102702072	MS	WS			Little Blue River	3,280	129	171	270	530	1,350
592	1027020514	MS	NM			Black Vermillion River	59.7	.08	.53	4.04	14.0	42.2
603	1027020549	MS				Ackerman Creek	34.0	.03	.05	1.42	5.62	18.2
607	1027020548	MS				Little Timber Creek	26.1	.01	.03	.84	3.68	12.6
608	1027020513	MS				Black Vermillion River	173	.65	2.90	10.6	33.7	105
611	1027020518	MS				Big Blue River	4,980	201	287	469	934	2,620
616	102702072	MS				Little Blue River	3,310	129	172	272	536	1,370
617	1027020513	MS				Black Vermillion River	208	.94	3.87	13.0	40.3	127
621	1027020511	MS				Black Vermillion River	259	1.46	5.61	17.4	52.3	164
632	1027020516	MS				Robidoux Creek	107	.25	1.07	5.21	17.1	53.0
633	1027020511	MS				Black Vermillion River	288	1.85	6.60	19.6	57.7	181
640	102702071	MS				Little Blue River	3,460	132	178	284	562	1,440
641	102702071	MS				Little Blue River	3,430	132	176	281	555	1,420
666	1027020546	MS				Elm Creek	24.1	0	0	1.05	3.70	11.3
667	1027020517	MS				Big Blue River	8,450	255	352	529	1,070	2,910
677	1027020510	MS				Black Vermillion River	396	4.00	11.0	29.0	79.0	246
692	1027020723	MS	WS			Coon Creek	108	.02	1.82	6.72	19.3	51.8
700	1027020551	MS				Johnson Fork	13.0	0	0	0	.79	4.31
706	1027020510	MS				Black Vermillion River	409	4.24	11.3	29.3	80.5	251
712	1027020510	MS				Black Vermillion River	423	4.47	11.5	29.4	81.6	255
718	102702058	MS				Black Vermillion River	478	5.45	12.5	31.1	89.8	284
722	1027020558	MS				Kearney Branch	10.1	0	0	.29	1.64	6.13
723	1027020556	MS				Cedar Creek	10.5	0	0	.21	1.14	4.56

Table 64. 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 Marshall 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. 68)	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
408	22.7	2,620	6,160	9,490	14,800	19,500	24,800
415	NA	NA	NA	NA	NA	NA	NA
445	1,200	19,300	33,100	43,400	57,500	68,500	80,100
446	5.96	1,050	2,500	3,840	5,940	7,730	9,810
465	2.54	713	1,670	2,530	3,860	5,000	6,310
484	1,210	19,300	33,200	43,500	57,600	68,700	80,400
485	3.85	819	1,930	2,950	4,530	5,880	7,430
489	27.1	3,300	7,440	11,300	17,300	22,600	28,600
506	29.5	2,140	4,740	7,140	11,000	14,600	18,700
507	5.93	1,060	2,470	3,750	5,740	7,430	9,380
519	35.3	2,460	5,490	8,310	12,900	17,100	22,000
528	13.1	1,750	3,970	5,940	9,010	11,600	14,600
540	3.62	858	1,970	2,970	4,520	5,830	7,340
561	46.5	4,180	9,320	14,100	21,500	28,200	35,700
568	11.0	1,460	3,540	5,460	8,500	11,100	14,100
575	711	12,800	21,600	28,500	38,300	46,500	55,400
592	32.3	2,820	6,380	9,690	14,900	19,500	24,600
603	15.6	2,530	5,740	8,690	13,300	17,300	21,800
607	11.5	1,560	3,650	5,550	8,510	11,000	14,000
608	78.9	5,140	11,300	17,100	26,200	34,400	43,800
611	1,210	19,100	32,900	43,100	57,100	68,100	79,700
616	719	12,500	22,100	29,900	41,500	51,600	62,800
617	93.5	5,430	12,000	18,200	28,100	37,200	47,500
621	118	5,680	12,700	19,400	30,300	40,300	51,900
632	42.2	2,520	5,760	8,850	13,900	18,600	24,200
633	130	5,520	12,600	19,400	30,600	41,000	53,300
640	755	11,700	24,200	35,700	54,100	71,100	90,900
641	746	11,600	24,000	35,400	53,700	70,600	90,300
666	9.92	1,390	3,300	5,040	7,780	10,100	12,800
667	1,480	23,400	40,900	54,500	73,500	88,900	105,000
677	174	7,030	15,700	24,100	38,000	51,200	66,900
692	38.1	2,540	5,850	8,960	13,800	18,200	23,100
700	5.14	1,040	2,390	3,600	5,480	7,080	8,910
706	178	6,830	15,400	23,700	37,600	50,700	66,400
712	182	6,870	15,500	23,900	37,900	51,200	67,100
718	203	7,570	16,800	25,800	40,700	54,700	71,500
722	5.82	1,020	2,260	3,360	5,040	6,450	8,060
723	4.83	959	2,180	3,260	4,930	6,350	7,970

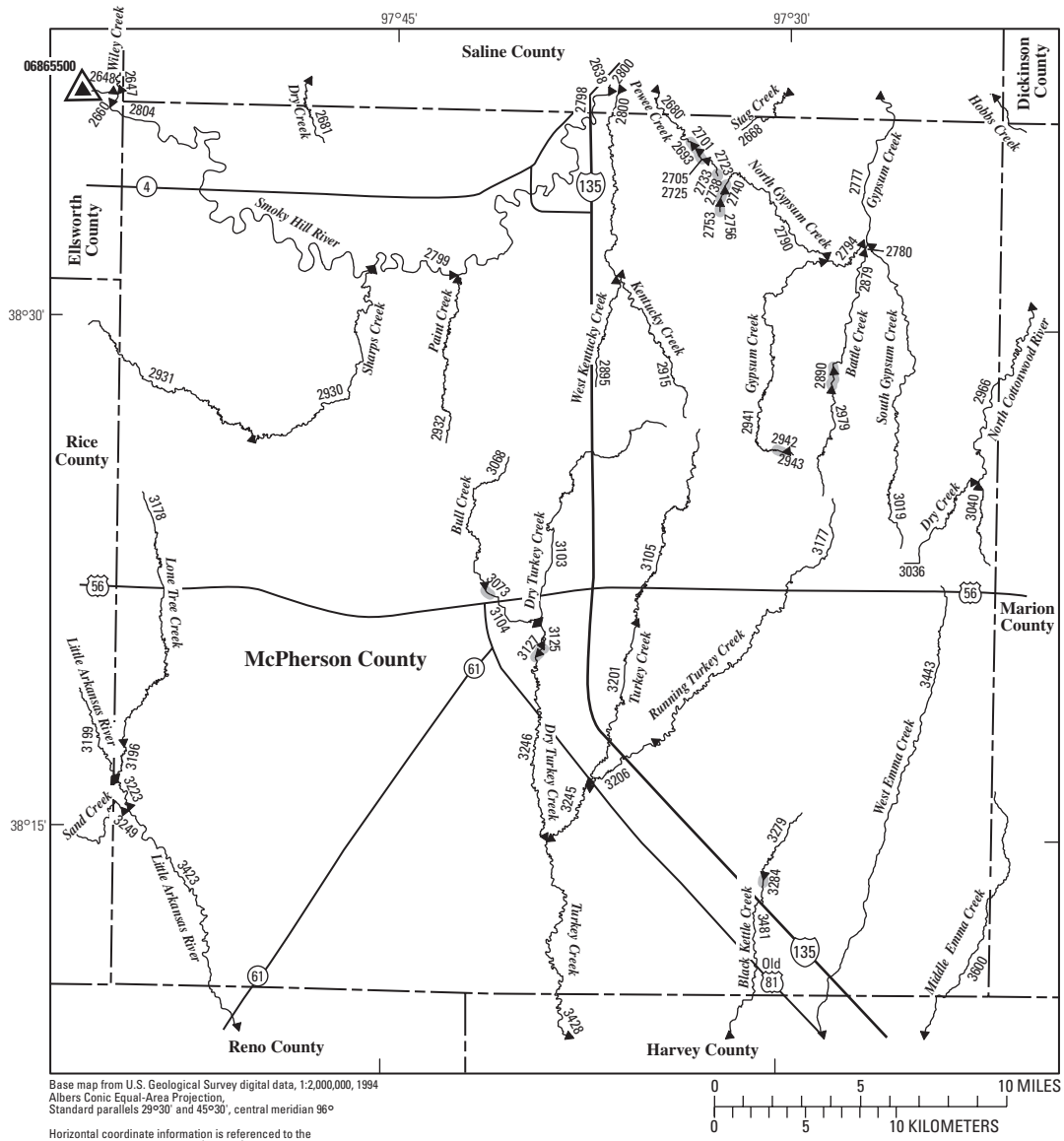
Table 64. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Marshall County.—Continued

[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. 68)	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	
		727	HYDRO	MS						HYDRO	11.6	NA	NA
732	1027020512	MS				Irish Creek	48.9	0.05	0.17	2.95	10.6	32.5	
736	1027020558	MS				Kearney Branch	16.2	.01	.01	.69	3.08	10.4	
762	1027020745	MS				Fawn Creek	29.5	0	.21	2.15	6.25	16.7	
767	102702059	MS				Clear Fork	55.1	0	.13	3.07	11.4	35.4	
768	102702058	MS				Black Vermillion River	503	5.90	13.1	31.9	93.3	297	
769	1027020517	MS				Big Blue River	8,490	255	354	531	1,080	2,930	
770	1027020552	MS				Corndodger Creek	19.6	0	0	.40	2.10	7.81	
775	102702058	MS				Black Vermillion River	503	5.90	13.1	31.9	93.4	297	
785	1027020745	MS				Fawn Creek	12.9	0	0	.36	1.33	4.70	
786	1027020557	MS				Jim Creek	14.2	0	0	.36	1.95	7.24	
812	1027020554	MS				Game Fork	29.4	0	.30	2.35	6.72	17.8	
821	1027020517	MS				Big Blue River	8,520	256	355	535	1,090	2,950	
822	102702057	MS				Big Blue River	8,520	256	355	535	1,090	2,950	
829	102702058	MS				Black Vermillion River	531	6.42	13.6	32.8	97.1	309	
834	1027020512	MS				Irish Creek	21.2	.01	.02	.94	4.08	13.6	
837	1027010247	MS	NM			Gilson Creek	9.33	0	0	.28	1.58	5.87	
843	1027020555	MS				De Shazer Creek	19.4	0	0	.85	3.46	11.2	
853	HYDRO	MS				HYDRO	7.78	NA	NA	NA	NA	NA	
871	1027020512	MS	PT			Irish Creek	6.68	0	0	0	.42	3.00	
872	1027010244	MS	PT			Mud Creek	7.48	0	0	.21	1.31	5.04	
877	102702057	MS	RL			Big Blue River	9,060	267	372	577	1,190	3,270	
884	1027020565	MS	PT	RL		Spring Creek	88.2	.01	1.02	6.37	22.1	65.8	
895	1027020564	MS	RL			Timber Creek	15.5	0	.19	1.72	4.53	11.3	
924	102702059	MS	PT			Clear Fork	36.9	0	0	2.19	8.22	25.3	
5417	1027020521	MS				Big Blue River	4,590	123	206	397	845	2,380	

Table 64. 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 Marshall 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. 68)	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
727	NA	NA	NA	NA	NA	NA	NA
732	25.7	2,860	6,430	9,710	14,800	19,300	24,400
736	9.15	1,320	2,980	4,460	6,730	8,640	10,800
762	13.1	1,570	3,740	5,720	8,850	11,500	14,600
767	27.9	3,250	7,190	10,800	16,300	21,200	26,600
768	211	7,200	16,300	25,200	39,900	53,900	70,700
769	1,490	23,300	40,800	54,300	73,300	88,700	105,000
770	7.87	1,300	3,030	4,600	7,040	9,110	11,500
775	212	7,060	16,100	24,900	39,500	53,500	70,100
785	4.95	969	2,270	3,450	5,280	6,840	8,640
786	7.03	1,180	2,680	4,010	6,060	7,790	9,780
812	13.7	1,610	3,800	5,810	8,950	11,600	14,700
821	1,490	23,300	40,800	54,400	73,400	88,800	106,000
822	1,490	23,300	40,800	54,400	73,400	88,800	106,000
829	220	6,870	15,800	24,600	39,200	53,200	69,900
834	11.8	1,570	3,540	5,300	8,010	10,300	12,900
837	5.56	1,010	2,210	3,270	4,880	6,230	7,770
843	9.84	1,400	3,200	4,800	7,300	9,410	11,800
853	NA	NA	NA	NA	NA	NA	NA
871	3.59	820	1,800	2,650	3,950	5,030	6,270
872	4.78	904	1,970	2,900	4,310	5,490	6,830
877	1,630	24,800	43,500	58,200	78,900	95,900	114,000
884	46.9	6,230	12,400	17,800	25,700	32,600	40,000
895	8.49	1,140	2,650	4,000	6,110	7,900	9,960
924	20.1	2,880	6,330	9,450	14,200	18,400	23,000
5417	1,190	17,900	31,300	41,400	55,500	66,800	78,700



EXPLANATION

- ← 3423 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06865500 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06865500 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 3284 Lake and determination site identification number

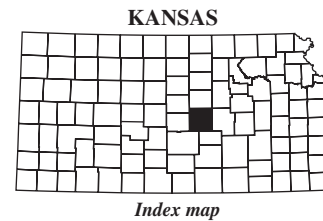


Figure 69. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for McPherson County.

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

Table 65. 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 McPherson 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. 69)	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
		2668	1026000819	MP	SA					Stag Creek	19.7	0
2680	1026000856	MP	SA			Pewee Creek	10.8	0	.35	1.18	2.16	4.70
2681	1026000836	MP	SA			Dry Creek	50.5	0	1.03	3.71	8.95	20.8
2693	HYDRO	MP				HYDRO	3.44	NA	NA	NA	NA	NA
2701	1026000856	MP				Pewee Creek	2.94	0	0	0	0	0
2705	HYDRO	MP				HYDRO	2.62	NA	NA	NA	NA	NA
2723	1026000856	MP				Pewee Creek	1.25	0	0	0	0	0
2725	HYDRO	MP				HYDRO	.31	NA	NA	NA	NA	NA
2733	HYDRO	MP				HYDRO	6.41	NA	NA	NA	NA	NA
2738	1026000857	MP				North Gypsum Creek	6.39	0	.22	.65	.81	1.81
2740	HYDRO	MP				HYDRO	5.99	NA	NA	NA	NA	NA
2753	1026000857	MP				North Gypsum Creek	5.50	0	.20	.53	.53	1.22
2756	HYDRO	MP				HYDRO	4.87	NA	NA	NA	NA	NA
2777	1026000820	MP	SA			Gypsum Creek	117	0	1.00	7.00	15.0	34.3
2780	1026000821	MP				Gypsum Creek	60.3	0	.96	4.29	9.84	22.7
2790	1026000857	MP				North Gypsum Creek	16.8	0	.19	1.39	3.08	7.21
2794	1026000822	MP				Gypsum Creek	43.1	0	.72	3.25	7.55	17.5
2798	1026000814	MP	SA			Smoky Hill River	8,310	31.2	57.1	108	259	819
2799	1026000814	MP				Smoky Hill River	8,240	28.2	52.4	100	241	779
2800	1026000817	MP	SA			Kentucky Creek	44.6	0	.96	3.36	8.20	19.6
2879	1026000823	MP				Battle Creek	17.2	0	.18	1.23	2.72	6.60
2890	HYDRO	MP				HYDRO	9.79	NA	NA	NA	NA	NA
2895	1026000854	MP				West Kentucky Creek	14.5	0	.06	.86	1.80	4.61
2915	1026000817	MP				Kentucky Creek	15.0	0	.32	1.31	2.68	6.17
2930	1026000816	MP				Sharps Creek	89.5	0	1.42	4.66	11.7	28.5
2931	1026000816	MP	RC			Sharps Creek	52.6	0	.77	2.90	6.89	16.1
2932	1026000852	MP				Paint Creek	24.0	0	.12	1.22	2.95	7.64
2941	1026000822	MP				Gypsum Creek	24.8	0	.39	1.89	4.24	9.86
2942	HYDRO	MP				HYDRO	2.08	NA	NA	NA	NA	NA
2943	1026000822	MP				Gypsum Creek	1.52	0	0	0	0	0
2979	1026000823	MP				Battle Creek	8.55	0	0	.14	.18	1.25
3019	1026000824	MP				South Gypsum Creek	30.4	0	.50	2.41	5.80	14.0
3036	11070202401	MP				Dry Creek	9.33	0	0	0	0	.82
3040	1107020214	MP				North Cottonwood River	6.50	0	0	0	0	.45
3068	1103001224	MP				Bull Creek	32.9	0	0	.01	.64	4.15
3073	HYDRO	MP				HYDRO	40.6	NA	NA	NA	NA	NA
3103	1103001213	MP				Dry Turkey Creek	24.8	0	0	0	.04	2.36
3104	1103001224	MP				Bull Creek	48.3	0	0	.26	1.51	7.08

Table 65. 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 McPherson 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. 69)	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
2668	7.99	1,110	2,690	4,160	6,460	8,440	10,700
2680	3.98	745	1,810	2,780	4,320	5,640	7,170
2681	15.2	1,590	3,730	5,720	8,830	11,600	14,600
2693	NA	NA	NA	NA	NA	NA	NA
2701	.51	352	830	1,260	1,930	2,490	3,140
2705	NA	NA	NA	NA	NA	NA	NA
2723	0	215	498	748	1,130	1,460	1,830
2725	NA	NA	NA	NA	NA	NA	NA
2733	NA	NA	NA	NA	NA	NA	NA
2738	2.05	552	1,320	2,020	3,110	4,050	5,120
2740	NA	NA	NA	NA	NA	NA	NA
2753	1.66	506	1,210	1,840	2,830	3,680	4,660
2756	NA	NA	NA	NA	NA	NA	NA
2777	25.9	2,290	4,310	5,960	8,400	10,500	12,700
2780	17.1	2,120	4,490	6,570	9,720	12,500	15,400
2790	5.97	966	2,340	3,600	5,600	7,320	9,310
2794	13.3	1,730	3,820	5,700	8,570	11,100	13,800
2798	328	3,320	6,430	8,070	13,200	18,700	26,000
2799	311	2,990	5,980	7,840	12,700	17,700	24,200
2800	14.8	1,450	3,420	5,260	8,130	10,700	13,500
2879	5.85	1,020	2,440	3,750	5,810	7,580	9,620
2890	NA	NA	NA	NA	NA	NA	NA
2895	4.47	872	2,130	3,300	5,150	6,740	8,580
2915	5.24	902	2,200	3,400	5,300	6,930	8,820
2930	21.6	1,810	4,290	6,650	10,400	13,700	17,400
2931	12.6	1,410	3,380	5,240	8,160	10,800	13,700
2932	6.95	1,140	2,840	4,440	6,970	9,160	11,700
2941	8.08	1,210	2,930	4,530	7,060	9,230	11,800
2942	NA	NA	NA	NA	NA	NA	NA
2943	0	248	572	859	1,300	1,670	2,100
2979	2.26	678	1,610	2,460	3,800	4,930	6,240
3019	11.2	1,780	3,870	5,730	8,540	11,000	13,600
3036	2.35	789	1,840	2,790	4,270	5,530	6,970
3040	1.77	658	1,520	2,280	3,460	4,470	5,610
3068	6.09	721	1,960	3,240	5,350	7,310	9,580
3073	NA	NA	NA	NA	NA	NA	NA
3103	4.46	1,190	2,950	4,590	7,200	9,450	12,100
3104	8.96	858	2,320	3,830	6,320	8,640	11,300

Table 65. 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 McPherson County.—Continued

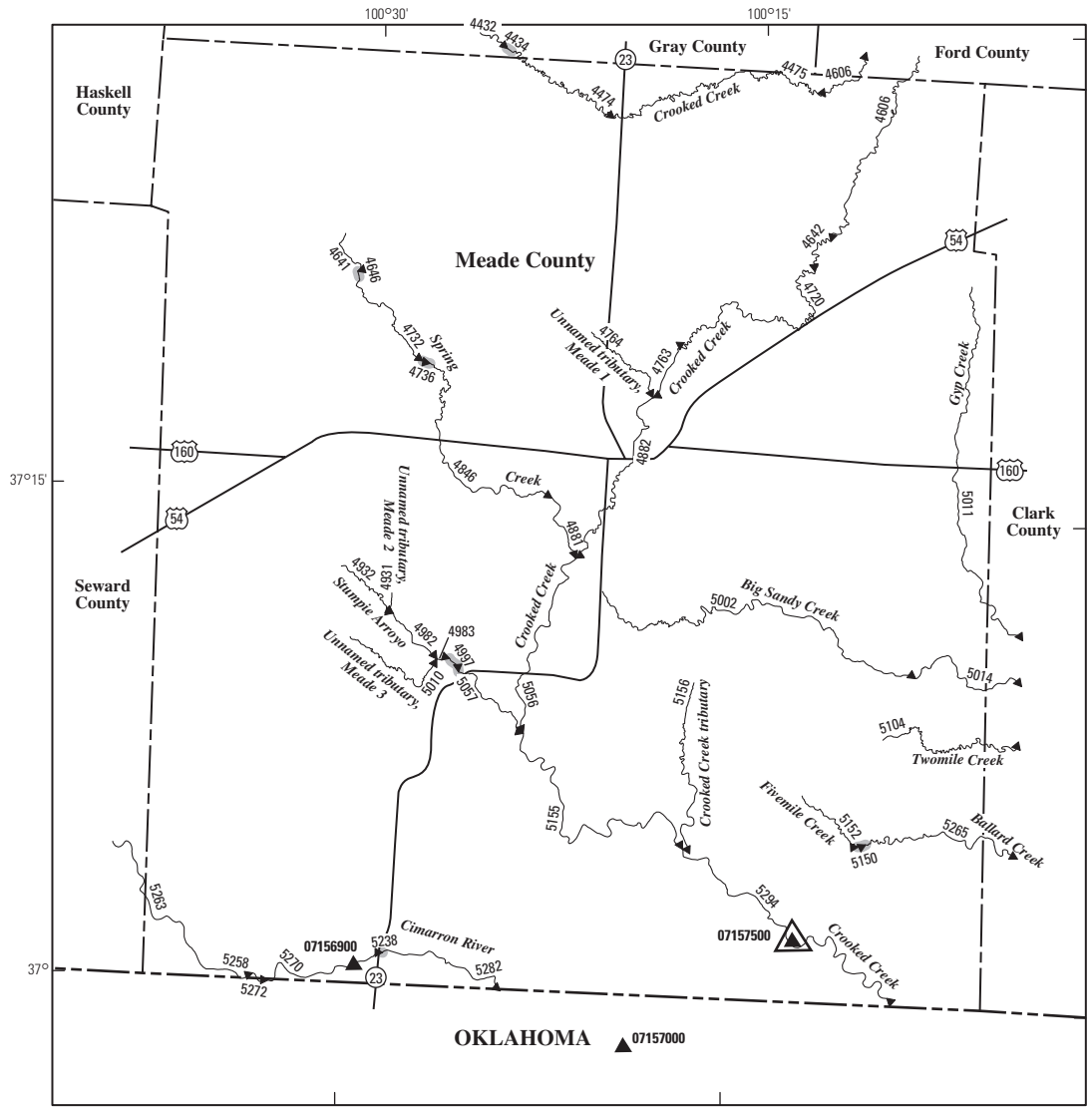
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 69)	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
		3105	1103001212	MP						Turkey Creek	25.1	0
3125	1103001213	MP				Dry Turkey Creek	75.7	0	0	.79	3.25	13.2
3127	HYDRO	MP				HYDRO	75.9	NA	NA	NA	NA	NA
3177	1103001225	MP				Running Turkey Creek	47.4	0	0	.57	2.29	9.02
3178	1103001220	MP				Lone Tree Creek	65.7	0	0	1.39	4.54	15.0
3196	1103001220	MP				Lone Tree Creek	69.4	0	.02	1.47	4.80	15.8
3199	1103001214	MP	RC			Little Arkansas River	151	0	0	.65	3.87	26.3
3201	1103001212	MP				Turkey Creek	37.9	0	0	.39	1.70	6.91
3206	1103001225	MP				Running Turkey Creek	55.2	0	0	.74	2.87	10.9
3223	1103001214	MP				Little Arkansas River	223	0	0	.38	6.76	55.1
3245	1103001212	MP				Turkey Creek	99.7	0	.17	1.72	6.14	22.6
3246	1103001213	MP				Dry Turkey Creek	124	0	.06	1.50	5.93	24.4
3249	1103001223	MP	RC			Sand Creek	47.3	2.58	3.83	4.90	7.27	13.5
3279	11030012368	MP				Black Kettle Creek	22.2	0	0	0	.05	2.27
3284	HYDRO	MP				HYDRO	22.3	NA	NA	NA	NA	NA
3423	1103001214	MP	RN			Little Arkansas River	376	2.47	5.94	12.7	31.4	142

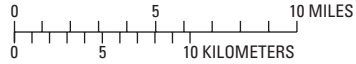
Table 65. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for McPherson County.—Continued

[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. 69)	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
3105	5.19	1,220	3,020	4,680	7,340	9,630	12,300
3125	14.5	1,350	3,460	5,560	8,980	12,100	15,700
3127	NA	NA	NA	NA	NA	NA	NA
3177	10.3	1,220	3,070	4,870	7,770	10,400	13,400
3178	14.4	1,610	3,950	6,200	9,790	13,000	16,700
3196	15.1	1,610	3,970	6,240	9,890	13,200	16,900
3199	25.1	1,640	3,530	5,270	8,060	10,600	13,500
3201	8.23	835	2,230	3,640	5,970	8,110	10,600
3206	12.1	1,300	3,260	5,170	8,260	11,100	14,300
3223	48.1	2,370	5,390	8,240	12,900	17,100	22,000
3245	22.1	1,550	3,940	6,310	10,200	13,700	17,800
3246	24.4	1,570	4,060	6,570	10,700	14,500	19,000
3249	10.4	958	2,140	3,200	4,790	6,150	7,630
3279	4.37	1,210	2,930	4,520	7,030	9,180	11,700
3284	NA	NA	NA	NA	NA	NA	NA
3423	103	2,920	6,650	10,100	15,800	20,900	26,800



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

- ◀ 5258 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- ▲ 07157000 U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- △ 07157500 U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 5238 Lake and determination site identification number

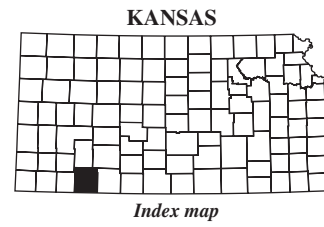


Figure 70. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Meade County.

Table 66. 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 Meade County.

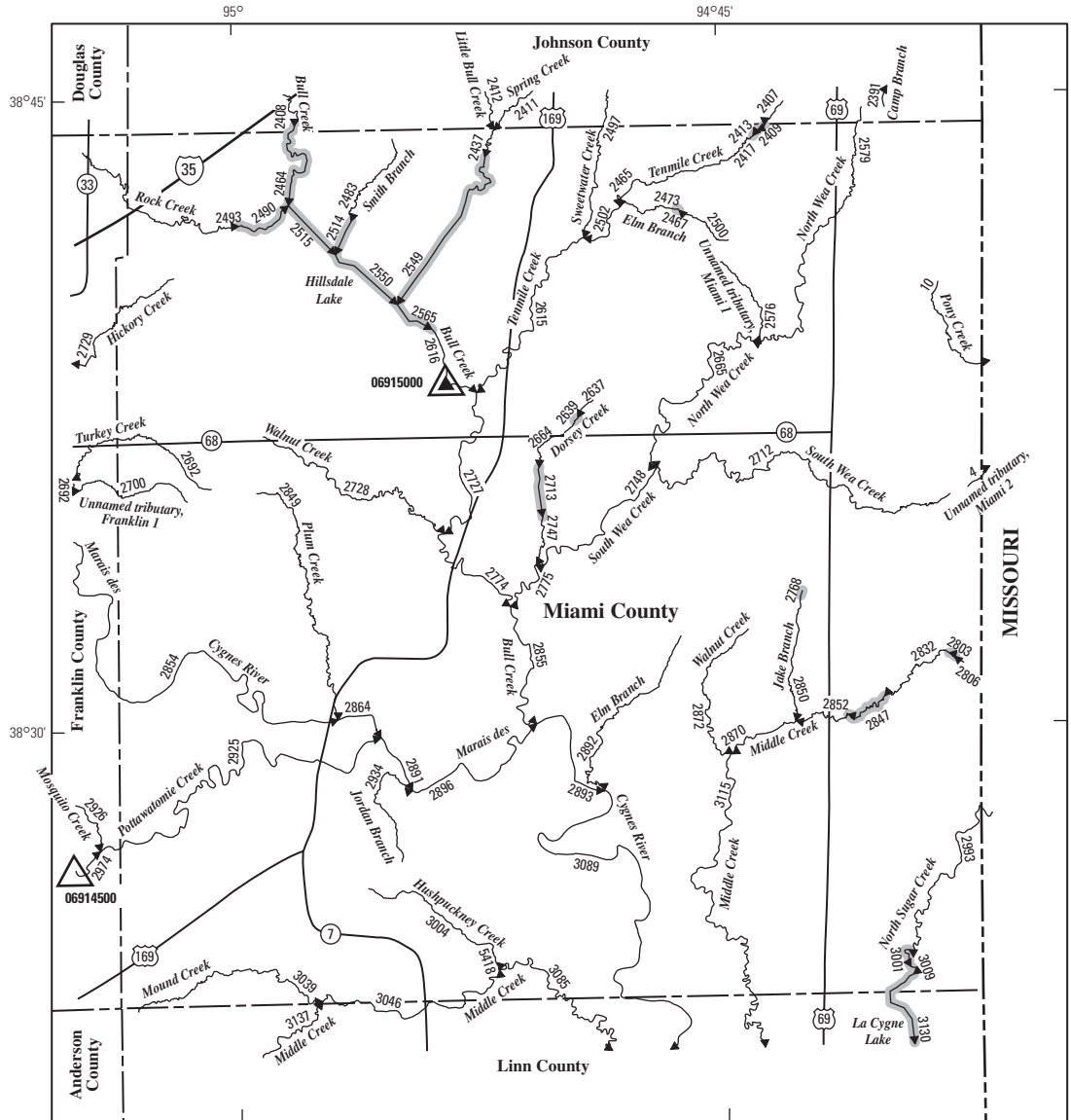
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 70)	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
		4641	110400073	ME						Spring Creek	117	0
4642	110400072	ME				Crooked Creek	764	.59	1.42	2.99	4.64	9.78
4646	HYDRO	ME				HYDRO	117	NA	NA	NA	NA	NA
4720	110400072	ME				Crooked Creek	814	67	1.64	3.44	5.28	11.0
4732	110400073	ME				Spring Creek	168	0	0	.05	.06	12
4736	HYDRO	ME				HYDRO	169	NA	NA	NA	NA	NA
4763	110400072	ME				Crooked Creek	821	68	1.68	3.51	5.38	11.1
4764	110400071180	ME				Unnamed tributary, Meade 1	30.3	0	0	0	0	0
4846	110400073	ME				Spring Creek	217	0	0	0	.09	.13
4881	110400073	ME				Spring Creek	221	0	0	.05	.10	.36
4882	110400072	ME				Crooked Creek	880	.78	2.15	4.26	6.66	13.6
4931	110400071253	ME				Unnamed tributary, Meade 2	5.03	0	0	0	0	0
4932	110400071247	ME				Stumpie Arroyo	59.2	0	.01	.02	.04	.08
4982	110400071247	ME				Stumpie Arroyo	68.7	0	0	0	.01	.02
4983	110400071247	ME				Stumpie Arroyo	123	0	0	0	.03	.06
4997	HYDRO	ME				HYDRO	124	NA	NA	NA	NA	NA
5002	110400089	ME				Big Sandy Creek	66.8	0	0	0	.01	.21
5010	110400071259	ME				Unnamed tributary, Meade 3	52.0	0	.01	.02	.04	.08
5056	110400071	ME				Crooked Creek	1,120	1.27	3.85	6.87	10.2	19.6
5057	110400071247	ME				Stumpie Arroyo	132	0	0	0	.03	.33
5150	HYDRO	ME				HYDRO	19.2	NA	NA	NA	NA	NA
5152	1104000810	ME				Fivemile Creek	19.1	0	0	0	0	0
5155	110400071	ME				Crooked Creek	1,300	1.83	5.89	10.0	14.8	27.4
5156	110400074	ME				Crooked Creek tributary	26.2	0	0	0	0	0
5238	HYDRO	ME				HYDRO	6,890	NA	NA	NA	NA	NA
5258	110400061	ME				Cimarron River	6,750	25.6	33.2	42.5	58.1	75.9
5263	110400062	ME	SW			Cimarron River	6,750	25.6	33.2	42.5	58.1	75.9
5270	110400061	ME				Cimarron River	6,890	27.0	35.0	45.0	62.0	82.0
5272	110400061	ME				Cimarron River	6,750	25.6	33.2	42.6	58.2	75.9
5282	110400061	ME				Cimarron River	6,930	27.5	38.0	51.0	73.7	109
5294	110400071	ME				Crooked Creek	1,370	2.40	7.10	12.0	18.0	33.0

Table 66. 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 Meade 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. 70)	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
4641	0.50	318	1,170	2,210	4,190	6,240	8,810
4642	13.0	474	1,850	3,470	6,400	9,300	12,700
4646	NA	NA	NA	NA	NA	NA	NA
4720	14.1	474	1,900	3,590	6,690	9,780	13,500
4732	1.51	664	2,160	3,870	6,970	10,100	13,800
4736	NA	NA	NA	NA	NA	NA	NA
4763	14.3	470	1,900	3,600	6,710	9,810	13,500
4764	.04	449	1,340	2,290	3,920	5,480	7,290
4846	3.67	991	2,970	5,120	8,880	12,500	16,900
4881	3.85	1,040	3,070	5,270	9,080	12,800	17,100
4882	16.3	501	2,030	3,860	7,220	10,600	14,600
4931	0	182	549	928	1,570	2,150	2,840
4932	.08	711	2,070	3,510	5,970	8,310	11,000
4982	.58	742	2,130	3,590	6,060	8,410	11,100
4983	2.51	919	2,440	3,950	6,430	8,720	11,300
4997	NA	NA	NA	NA	NA	NA	NA
5002	2.30	577	1,660	2,790	4,710	6,510	8,610
5010	.55	499	1,340	2,160	3,510	4,730	6,100
5056	21.6	697	2,750	5,210	9,770	14,400	19,900
5057	2.87	868	2,340	3,820	6,270	8,540	11,100
5150	NA	NA	NA	NA	NA	NA	NA
5152	0	414	1,270	2,160	3,690	5,090	6,760
5155	27.0	873	3,280	6,140	11,400	16,700	23,000
5156	.24	487	1,510	2,590	4,450	6,150	8,190
5238	NA	NA	NA	NA	NA	NA	NA
5258	54.7	2,100	6,100	10,300	17,600	24,400	32,600
5263	54.7	2,100	6,100	10,300	17,600	24,400	32,600
5270	58.4	2,170	6,260	10,600	18,000	24,900	33,300
5272	54.7	2,100	6,100	10,300	17,600	24,400	32,600
5282	80.2	2,170	6,270	10,600	18,000	24,900	33,300
5294	30.5	992	3,600	6,650	12,200	17,800	24,400



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

- ◀ 3039 **Location of streamflow-statistics determination site (small triangle) and associated identification number**—small triangle points in downstream direction
- 06915000 ▲ **U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration**
- 06914500 △ **U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values**
- 3130 **Lake and determination site identification number**

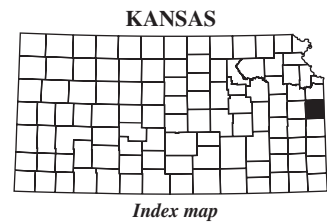


Figure 71. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Miami County.

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

Table 67. 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 Miami 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. 71)	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
		4	1029010867	MI						Unnamed tributary, Miami 2	4.13	0
10	1029010848	MI				Pony Creek	7.27	0	0	.84	3.00	8.79
2465	1029010225	MI				Tenmile Creek	17.0	0	0	1.61	6.09	18.2
2467	HYDRO	MI				HYDRO	4.23	NA	NA	NA	NA	NA
2473	1029010248	MI				Elm Branch	6.27	0	0	.43	1.92	6.37
2483	1029010247	MI				Smith Branch	10.1	0	0	1.41	4.79	13.3
2490	HYDRO	MI				HYDRO	26.5	NA	NA	NA	NA	NA
2500	1029010248	MI				Elm Branch	4.21	0	0	.12	.86	3.59
2502	1029010225	MI				Tenmile Creek	27.2	0	.10	2.65	9.93	29.6
2514	HYDRO	MI				HYDRO	11.0	NA	NA	NA	NA	NA
2515	HYDRO	MI				HYDRO	68.0	NA	NA	NA	NA	NA
2549	HYDRO	MI				HYDRO	39.1	NA	NA	NA	NA	NA
2550	HYDRO	MI				HYDRO	86.2	NA	NA	NA	NA	NA
2565	HYDRO	MI				HYDRO	129	NA	NA	NA	NA	NA
2576	10290102754	MI				Unnamed tributary, Miami 1	4.83	0	0	.37	1.53	5.09
2615	1029010225	MI				Tenmile Creek	54.1	0	.80	5.48	20.2	60.4
2616	1029010224	MI				Bull Creek	135	4.30	6.50	20.0	71.0	375
2637	1029010222	MI				Dorsey Creek	4.40	0	0	.40	1.57	5.06
2639	HYDRO	MI				HYDRO	4.86	NA	NA	NA	NA	NA
2664	1029010222	MI				Dorsey Creek	8.72	0	0	.94	3.58	10.7
2665	1029010221	MI				North Wea Creek	45.2	0	.67	4.92	18.0	53.1
2712	1029010220	MI				South Wea Creek	39.2	0	.76	5.27	18.8	53.5
2713	HYDRO	MI				HYDRO	11.2	NA	NA	NA	NA	NA
2727	1029010224	MI				Bull Creek	198	5.77	9.18	32.3	122	516
2728	1029010252	MI				Walnut Creek	22.5	0	.25	3.02	10.7	30.0
2747	1029010222	MI				Dorsey Creek	12.9	0	0	1.54	5.65	16.3
2748	1029010219	MI				South Wea Creek	94.4	0	1.96	10.6	38.6	116
2768	HYDRO	MI				HYDRO	4.44	NA	NA	NA	NA	NA
2774	1029010224	MI				Bull Creek	228	6.47	10.5	38.1	147	583
2775	1029010218	MI				South Wea Creek	110	0	2.29	12.1	44.2	133
2803	HYDRO	MI				HYDRO	2.25	NA	NA	NA	NA	NA
2806	1029010213	MI				Middle Creek	1.81	0	0	0	0	.86
2832	1029010213	MI				Middle Creek	11.9	0	0	1.39	5.12	14.9
2847	HYDRO	MI				HYDRO	16.6	NA	NA	NA	NA	NA
2849	102901012	MI				Plum Creek	19.5	0	.12	2.36	8.21	23.2
2850	1029010254	MI				Jake Branch	11.9	0	0	1.55	5.54	15.8
2852	1029010213	MI				Middle Creek	21.4	0	.10	2.54	9.28	26.8
2855	1029010224	MI				Bull Creek	348	9.27	15.6	61.5	244	852

Table 67. 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 Miami 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. 71)	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
4	3.98	927	1,820	2,560	3,660	4,550	5,550
10	7.11	1,290	2,560	3,620	5,200	6,490	7,940
2465	14.6	2,080	4,230	6,050	8,770	11,000	13,500
2467	NA	NA	NA	NA	NA	NA	NA
2473	5.70	1,180	2,350	3,310	4,750	5,910	7,230
2483	10.1	1,540	3,100	4,410	6,360	7,950	9,750
2490	NA	NA	NA	NA	NA	NA	NA
2500	3.68	939	1,850	2,600	3,710	4,610	5,620
2502	23.0	2,760	5,640	8,100	11,800	14,800	18,300
2514	NA	NA	NA	NA	NA	NA	NA
2515	NA	NA	NA	NA	NA	NA	NA
2549	NA	NA	NA	NA	NA	NA	NA
2550	NA	NA	NA	NA	NA	NA	NA
2565	NA	NA	NA	NA	NA	NA	NA
2576	4.57	1,020	2,020	2,840	4,050	5,040	6,150
2615	44.4	6,010	11,000	15,200	21,100	26,100	31,300
2616	116	986	2,140	3,040	4,230	5,130	6,020
2637	4.44	1,010	1,970	2,750	3,910	4,850	5,910
2639	NA	NA	NA	NA	NA	NA	NA
2664	8.66	1,510	2,980	4,190	6,000	7,470	9,130
2665	38.7	4,720	8,970	12,500	17,700	22,000	26,600
2712	37.3	5,170	9,530	13,100	18,200	22,400	26,900
2713	NA	NA	NA	NA	NA	NA	NA
2727	168	1,540	2,820	3,860	5,560	6,900	8,300
2728	21.8	2,510	5,100	7,300	10,600	13,300	16,400
2747	12.7	1,900	3,770	5,340	7,670	9,560	11,700
2748	79.4	7,320	13,400	18,500	25,800	31,900	38,300
2768	NA	NA	NA	NA	NA	NA	NA
2774	193	1,810	3,140	4,260	6,190	7,740	9,390
2775	91.1	7,810	14,300	19,700	27,400	33,900	40,800
2803	NA	NA	NA	NA	NA	NA	NA
2806	1.42	592	1,140	1,580	2,230	2,750	3,330
2832	11.6	1,760	3,520	5,000	7,190	8,980	11,000
2847	NA	NA	NA	NA	NA	NA	NA
2849	17.5	2,200	4,510	6,470	9,420	11,800	14,600
2850	12.0	1,760	3,520	4,990	7,170	8,960	11,000
2852	20.2	2,480	5,020	7,160	10,400	13,000	16,000
2855	293	2,880	4,430	5,830	8,730	11,100	13,700

Table 67. 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 Miami County.—Continued

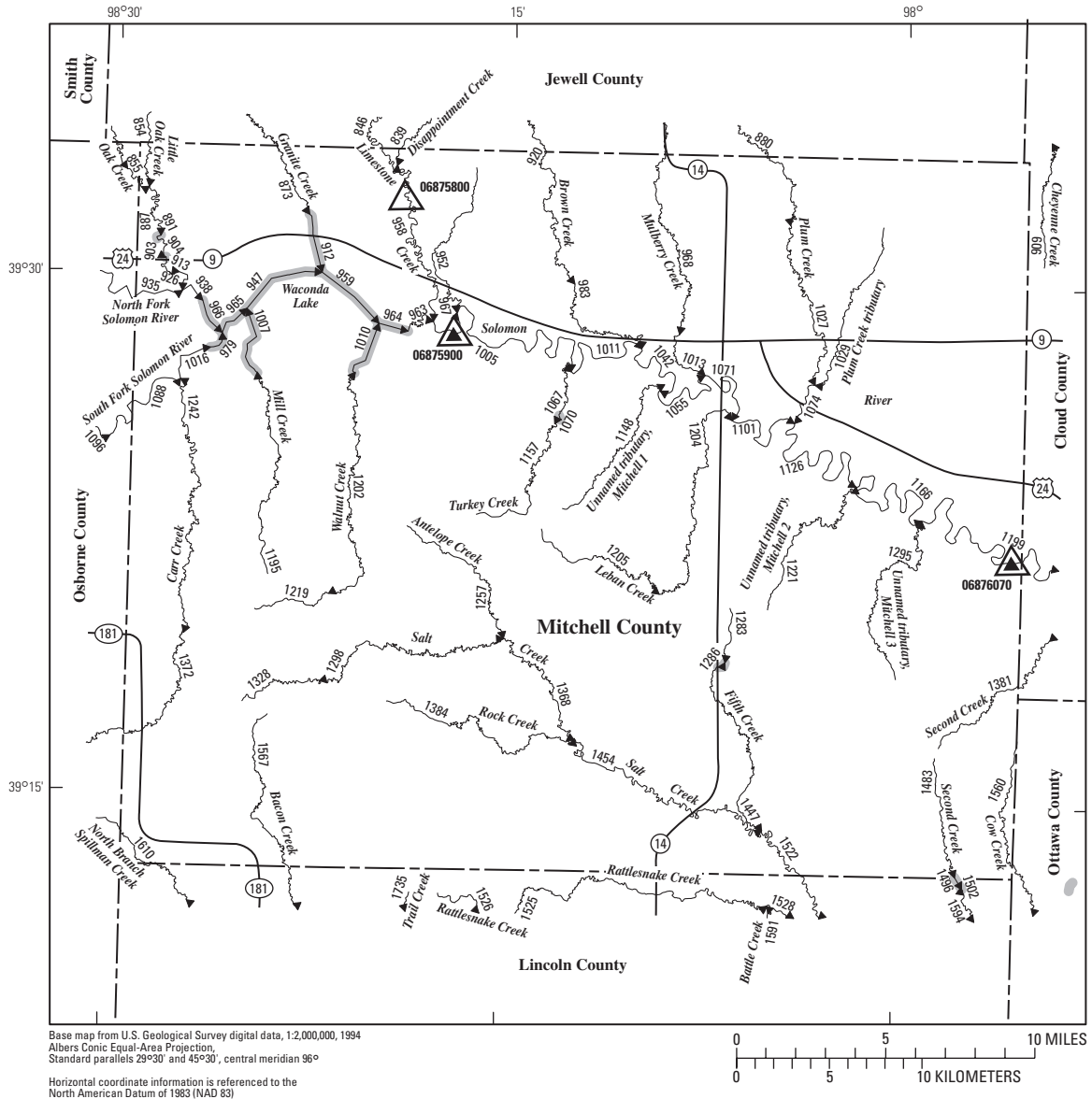
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 71)	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
2864	102901011	MI				Marais des Cygnes River	1,620	46.2	67.5	241	1,140	3,480
2870	1029010213	MI				Middle Creek	37.4	0	.49	4.25	15.6	45.7
2872	1029010214	MI				Walnut Creek	10.1	0	0	1.48	5.13	14.3
2891	1029010229	MI				Marais des Cygnes River	2,180	55.6	92.3	383	1,660	4,840
2892	1029010253	MI				Elm Branch	14.2	0	.07	2.10	7.21	19.9
2893	1029010216	MI				Marais des Cygnes River	2,550	61.8	109	478	2,010	5,740
2896	1029010216	MI				Marais des Cygnes River	2,190	55.9	93.0	388	1,680	4,880
2934	1029010236	MI				Jordan Branch	6.50	0	0	1.22	3.67	9.65
2993	1029010210	MI				North Sugar Creek	28.9	0	.35	3.58	13.0	37.5
3001	HYDRO	MI				HYDRO	31.2	NA	NA	NA	NA	NA
3004	1029010237	MI				Hushpuckney Creek	15.5	0	.23	2.45	7.96	21.4
3009	1029010210	MI				North Sugar Creek	33.5	0	.48	4.18	15.2	43.8
3039	1029010235	MI				Mound Creek	23.5	0	.28	2.92	10.0	28.2
5418	1029010230	MI				Middle Creek	83.4	0	1.89	9.72	34.2	100.0

Table 67. 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 Miami 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. 71)	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
2864	1,210	15,300	22,200	27,300	36,400	43,600	51,300
2870	33.5	5,410	9,870	13,500	18,700	22,900	27,400
2872	10.7	1,610	3,210	4,540	6,510	8,130	9,950
2891	1,740	19,700	26,100	32,100	47,700	60,800	75,700
2892	14.6	1,950	3,920	5,560	8,020	10,000	12,300
2893	2,090	22,600	28,700	35,400	55,200	72,300	91,900
2896	1,750	19,800	26,200	32,300	48,100	61,300	76,400
2934	7.01	1,150	2,320	3,290	4,730	5,910	7,250
2993	27.3	2,980	6,050	8,650	12,600	15,800	19,400
3001	NA	NA	NA	NA	NA	NA	NA
3004	15.4	1,950	3,970	5,670	8,230	10,300	12,700
3009	31.6	5,270	9,570	13,100	18,000	22,100	26,300
3039	20.8	2,450	5,040	7,240	10,600	13,300	16,400
5418	68.6	7,130	13,000	17,800	24,700	30,400	36,400



EXPLANATION

- ◀ 1610 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- ▲ 06875900 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
- 1286 Lake and determination site identification number

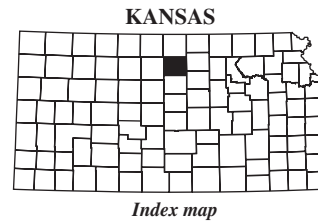


Figure 72. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Mitchell County.

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Table 68. 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 Mitchell 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. 72)	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
		855	102600124	MC	OB				Oak Creek	177	0	1.60
887	102600122	MC			Oak Creek	229	0	2.26	6.66	16.6	40.5	
891	HYDRO	MC			HYDRO	229	NA	NA	NA	NA	NA	
903	102600122	MC			Oak Creek	231	0	2.28	6.70	16.7	40.8	
904	HYDRO	MC			HYDRO	231	NA	NA	NA	NA	NA	
912	HYDRO	MC			HYDRO	33.0	NA	NA	NA	NA	NA	
913	102600122	MC			Oak Creek	232	0	2.30	6.74	16.8	40.9	
926	102600122	MC			Oak Creek	234	0	2.32	6.79	16.9	41.3	
935	102600125	MC	OB		North Fork Solomon River	2,620	12.1	20.0	34.6	78.4	178	
938	102600125	MC			North Fork Solomon River	2,860	12.2	20.1	36.3	87.7	223	
947	HYDRO	MC			HYDRO	5,080	NA	NA	NA	NA	NA	
952	1026001534	MC			Solomon River tributary	12.3	0	0	0	0	0	
958	1026001518	MC			Limestone Creek	193	0	2.33	6.76	16.7	40.7	
959	HYDRO	MC			HYDRO	5,120	NA	NA	NA	NA	NA	
963	1026001523	MC			Solomon River	5,160	13.9	20.9	52.6	178	663	
964	HYDRO	MC			HYDRO	5,160	NA	NA	NA	NA	NA	
965	HYDRO	MC			HYDRO	5,050	NA	NA	NA	NA	NA	
966	HYDRO	MC			HYDRO	2,860	NA	NA	NA	NA	NA	
967	1026001516	MC			Solomon River	5,360	14.0	21.0	54.0	186	700	
979	HYDRO	MC			HYDRO	2,190	NA	NA	NA	NA	NA	
983	1026001515	MC			Brown Creek	65.2	0	.27	1.75	4.46	11.5	
1005	1026001516	MC			Solomon River	5,380	15.0	23.7	62.6	208	780	
1007	HYDRO	MC			HYDRO	24.0	NA	NA	NA	NA	NA	
1010	HYDRO	MC			HYDRO	37.8	NA	NA	NA	NA	NA	
1011	1026001516	MC			Solomon River	5,410	16.0	26.3	70.8	230	857	
1013	1026001536	MC			Mulberry Creek	32.6	0	0	.25	.82	3.18	
1016	102600141	MC			South Fork Solomon River	2,190	6.49	11.6	23.0	65.8	206	
1027	1026001513	MC			Plum Creek	45.7	0	0	.78	2.16	6.37	
1029	1026001537	MC			Plum Creek tributary	36.5	0	0	.62	1.69	5.09	
1042	1026001514	MC			Solomon River	5,470	18.8	33.6	93.9	289	1,070	
1055	1026001514	MC			Solomon River	5,490	19.4	35.1	98.7	302	1,120	
1067	1026001539	MC			Turkey Creek	20.3	0	0	0	0	.91	
1070	HYDRO	MC			HYDRO	17.2	NA	NA	NA	NA	NA	
1071	1026001514	MC			Solomon River	5,530	21.0	39.2	112	336	1,240	
1074	1026001513	MC			Plum Creek	84.7	0	.37	2.04	5.44	14.5	
1088	102600141	MC	OB		South Fork Solomon River	2,110	6.30	11.4	22.2	62.7	193	
1101	1026001514	MC			Solomon River	5,560	22.6	43.5	125	371	1,360	
1126	1026001512	MC			Solomon River	5,660	26.4	53.7	157	454	1,660	

Table 68. 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 Mitchell 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. 72)	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
855	23.9	1,570	4,000	6,430	10,400	14,000	18,200
887	30.9	1,820	4,610	7,380	11,900	16,000	20,800
891	NA	NA	NA	NA	NA	NA	NA
903	31.1	1,810	4,580	7,340	11,800	16,000	20,700
904	NA	NA	NA	NA	NA	NA	NA
912	NA	NA	NA	NA	NA	NA	NA
913	31.2	1,790	4,550	7,290	11,800	15,900	20,600
926	31.4	1,790	4,560	7,310	11,800	15,900	20,700
935	103	2,830	6,300	9,480	14,600	19,200	24,500
938	116	2,730	6,070	9,110	14,000	18,300	23,300
947	NA	NA	NA	NA	NA	NA	NA
952	1.00	553	1,470	2,360	3,810	5,080	6,570
958	30.7	1,060	1,910	2,600	3,590	4,430	5,340
959	NA	NA	NA	NA	NA	NA	NA
963	243	1,800	3,820	5,480	7,870	9,800	11,900
964	NA	NA	NA	NA	NA	NA	NA
965	NA	NA	NA	NA	NA	NA	NA
966	NA	NA	NA	NA	NA	NA	NA
967	254	1,720	3,630	5,170	7,350	9,080	10,900
979	NA	NA	NA	NA	NA	NA	NA
983	10.7	1,060	2,740	4,410	7,110	9,580	12,400
1005	273	1,810	3,790	5,350	7,540	9,260	11,000
1007	NA	NA	NA	NA	NA	NA	NA
1010	NA	NA	NA	NA	NA	NA	NA
1011	292	1,890	3,940	5,530	7,720	9,420	11,200
1013	4.50	769	2,030	3,280	5,320	7,180	9,300
1016	101	1,420	4,780	9,060	18,000	28,300	42,300
1027	7.01	789	2,120	3,460	5,670	7,720	10,100
1029	5.82	1,210	2,950	4,580	7,150	9,450	12,000
1042	346	2,130	4,360	6,020	8,230	9,900	11,600
1055	357	2,180	4,440	6,120	8,340	9,990	11,600
1067	2.45	743	2,000	3,220	5,210	6,970	9,040
1070	NA	NA	NA	NA	NA	NA	NA
1071	387	2,320	4,680	6,400	8,630	10,300	11,900
1074	13.4	1,160	3,020	4,880	7,910	10,700	13,900
1088	97.3	1,410	4,800	9,160	18,300	28,700	43,100
1101	418	2,460	4,920	6,680	8,920	10,500	12,100
1126	492	2,790	5,510	7,370	9,640	11,200	12,600

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

Table 68. 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 Mitchell County.—Continued

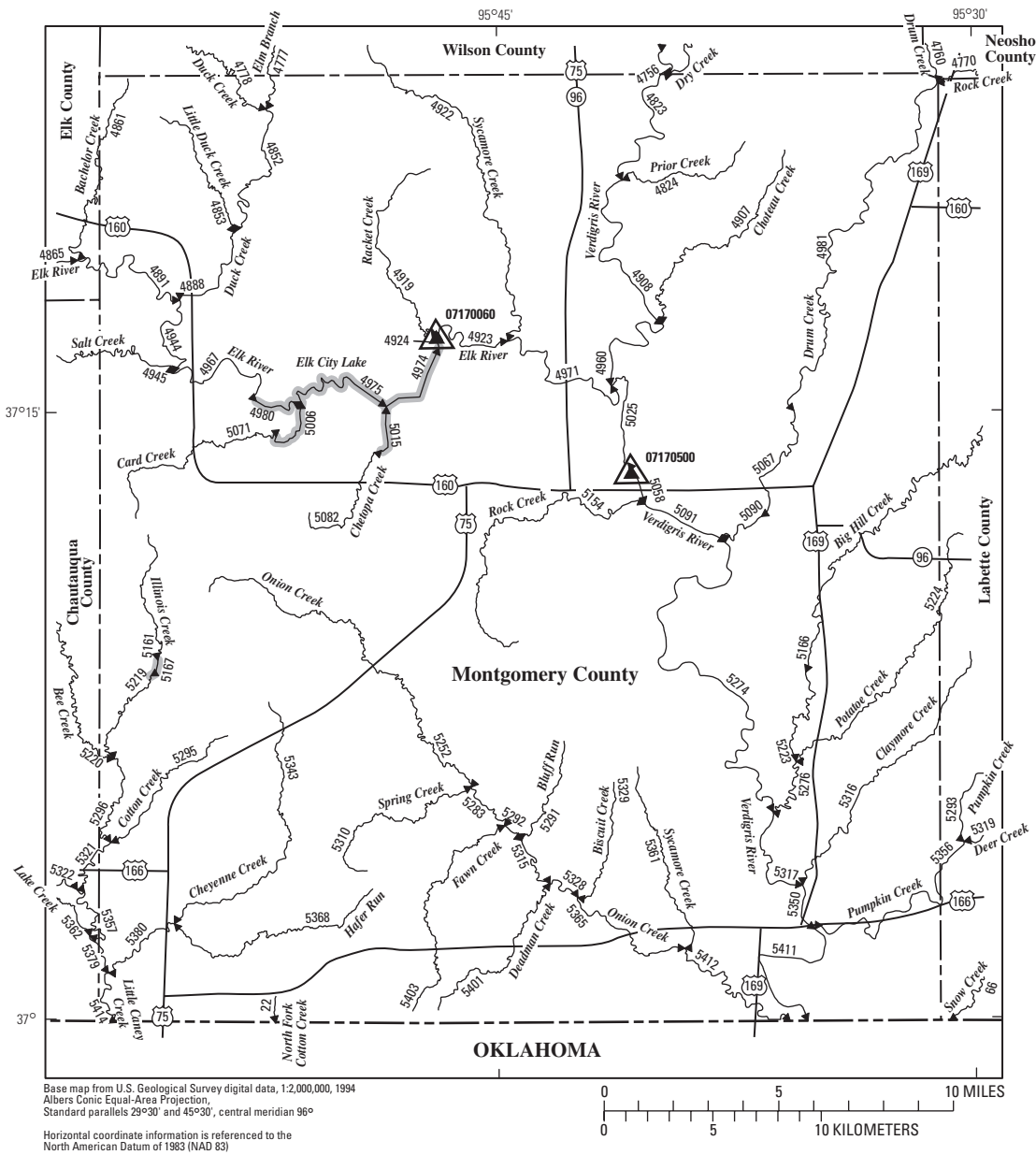
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 72)	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	
		1148	1026001540	MC						Unnamed tributary, Mitchell 1	12.4	0	0
1157	1026001539	MC				Turkey Creek	17.1	0	0	0	0	0	.15
1166	1026001512	MC				Solomon River	5,690	27.5	56.5	166	478	1,750	
1195	1026001538	MC				Mill Creek	19.4	0	0	0	0	0	.28
1202	1026001526	MC				Walnut Creek	33.1	0	0	.33	.99	3.32	
1204	1026001541	MC				Leban Creek	34.8	0	0	.26	.89	3.38	
1205	1026001541	MC				Leban Creek	16.7	0	0	0	0	0	
1219	1026001526	MC				Walnut Creek	8.45	0	0	0	0	0	
1221	1026001542	MC				Unnamed tributary, Mitchell 2	16.9	0	0	0	0	0	.64
1242	1026001421	MC				Carr Creek	77.1	0	.20	1.71	4.32	10.7	
1257	1026001543	MC				Antelope Creek	15.5	0	0	0	0	0	.12
1283	1026001545	MC				Fifth Creek	5.35	0	0	0	0	0	
1286	HYDRO	MC				HYDRO	6.86	NA	NA	NA	NA	NA	NA
1295	1026001546	MC				Unnamed tributary, Mitchell 3	26.9	0	0	.49	1.24	3.72	
1298	1026001530	MC				Salt Creek	24.4	0	0	.44	1.02	2.99	
1328	1026001530	MC				Salt Creek	9.50	0	0	0	0	0	
1368	1026001530	MC				Salt Creek	53.0	0	.02	1.33	3.39	9.04	
1372	1026001421	MC	OB			Carr Creek	49.8	0	0	.93	2.38	6.18	
1384	1026001544	MC				Rock Creek	28.1	0	0	.40	1.04	3.38	
1447	1026001545	MC				Fifth Creek	30.3	0	0	.55	1.40	4.20	
1454	1026001530	MC				Salt Creek	104	.02	.71	3.02	7.72	20.7	
1483	1026001554	MC				Second Creek	18.5	0	0	.27	.59	2.07	
1560	1026001528	MC	OT			Cow Creek	16.5	0	0	.45	.89	2.58	

Table 68. 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 Mitchell 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. 72)	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
1148	1.18	575	1,520	2,430	3,900	5,190	6,700
1157	1.86	671	1,800	2,890	4,680	6,250	8,100
1166	513	2,890	5,670	7,560	9,850	11,400	12,800
1195	1.97	684	1,860	3,010	4,910	6,580	8,560
1202	4.36	673	1,830	2,990	4,920	6,700	8,730
1204	4.68	621	1,720	2,850	4,720	6,470	8,480
1205	1.70	682	1,810	2,910	4,690	6,250	8,090
1219	52	425	1,130	1,820	2,940	3,920	5,060
1221	2.18	702	1,860	2,970	4,780	6,370	8,240
1242	9.90	872	2,360	3,880	6,400	8,740	11,400
1257	1.74	630	1,690	2,710	4,380	5,860	7,590
1283	0	357	924	1,460	2,320	3,080	3,950
1286	NA	NA	NA	NA	NA	NA	NA
1295	4.42	926	2,470	3,960	6,410	8,560	11,100
1298	3.65	800	2,180	3,520	5,740	7,700	10,000
1328	92	455	1,220	1,960	3,160	4,220	5,460
1368	8.38	1,090	2,760	4,410	7,060	9,470	12,200
1372	6.36	840	2,230	3,630	5,910	8,010	10,400
1384	4.18	896	2,420	3,920	6,370	8,540	11,100
1447	4.80	778	2,030	3,270	5,280	7,110	9,180
1454	16.7	1,280	3,310	5,330	8,640	11,700	15,200
1483	2.96	729	1,940	3,110	5,020	6,690	8,660
1560	3.15	724	1,890	3,020	4,830	6,420	8,280



EXPLANATION

- 5368** Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 07170500** U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 07170060** U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 5167** Lake and determination site identification number

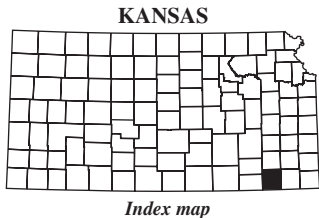


Figure 73. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Montgomery County.

Table 69. 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 Montgomery 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. 73)	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	
		22	1107010637	MG						North Fork Cotton Creek	0.32	0	0
4777	1107010423	MG	WL			Elm Branch	14.1	0	.13	1.71	5.37	14.8	
4778	110701043	MG	WL			Duck Creek	21.0	0	.46	3.24	10.3	27.6	
4823	1107010336	MG	WL			Verdigris River	2,060	21.0	52.0	282	1,530	4,890	
4824	1107010362	MG				Prior Creek	8.91	0	.75	2.82	7.43	17.1	
4852	110701043	MG				Duck Creek	45.9	0	1.15	5.74	18.7	51.9	
4853	1107010424	MG				Little Duck Creek	9.05	0	.47	2.22	5.95	14.3	
4888	110701043	MG				Duck Creek	62.2	0	1.75	7.99	26.0	72.2	
4907	1107010363	MG				Choteau Creek	18.0	0	.68	3.67	11.4	29.2	
4908	1107010336	MG				Verdigris River	2,080	21.2	52.6	285	1,540	4,940	
4919	1107010421	MG				Racket Creek	20.7	0	.73	3.71	11.3	29.2	
4922	1107010422	MG	WL			Sycamore Creek	40.5	0	1.26	5.89	18.8	50.8	
4923	110701041	MG				Elk River	657	3.30	7.84	25.2	343	1,590	
4924	110701041	MG				Elk River	633	3.00	7.10	21.0	324	1,530	
4944	110701042	MG				Elk River	507	3.91	12.1	60.1	210	627	
4960	1107010336	MG				Verdigris River	2,110	21.5	53.4	289	1,570	5,000	
4967	110701041	MG				Elk River	583	4.95	15.2	72.8	247	736	
4971	110701041	MG				Elk River	707	3.91	9.39	33.8	384	1,710	
4974	HYDRO	MG				HYDRO	632	NA	NA	NA	NA	NA	
4975	HYDRO	MG				HYDRO	610	NA	NA	NA	NA	NA	
4980	HYDRO	MG				HYDRO	584	NA	NA	NA	NA	NA	
4981	1107010334	MG	NO			Drum Creek	68.2	0	1.38	7.69	28.1	83.1	
5006	HYDRO	MG				HYDRO	17.9	NA	NA	NA	NA	NA	
5015	HYDRO	MG				HYDRO	16.9	NA	NA	NA	NA	NA	
5025	1107010336	MG				Verdigris River	2,820	30.0	74.9	401	2,130	6,780	
5058	1107010335	MG				Verdigris River	2,830	30.0	75.0	401	2,130	6,780	
5067	1107010334	MG				Drum Creek	80.0	0	1.63	8.96	33.0	98.5	
5071	1107010419	MG				Card Creek	14.5	0	.93	3.53	9.48	22.5	
5082	1107010418	MG				Chetopa Creek	13.2	0	0	.55	3.15	11.3	
5090	1107010334	MG				Drum Creek	82.2	0	1.68	9.20	33.9	101	
5091	1107010335	MG				Verdigris River	2,870	30.3	76.5	410	2,160	6,870	
5154	1107010358	MG				Rock Creek	35.9	0	.42	3.86	14.3	42.1	
5161	1107010639	MG				Illinois Creek	10.6	0	.91	3.08	7.79	17.9	
5167	HYDRO	MG				HYDRO	11.8	NA	NA	NA	NA	NA	
5219	1107010639	MG				Illinois Creek	16.5	0	1.19	4.35	11.6	27.3	
5223	1107010332	MG				Big Hill Creek	94.4	.45	1.37	8.27	52.7	177	
5252	1107010339	MG				Onion Creek	34.2	0	.34	3.35	12.1	35.8	
5274	1107010333	MG				Verdigris River	2,980	31.0	80.8	435	2,240	7,110	

Table 69. 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 Montgomery 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. 73)	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
22	0	188	361	499	699	862	1,040
4777	11.6	1,770	3,630	5,210	7,580	9,520	11,700
4778	19.4	2,200	4,560	6,580	9,630	12,100	15,000
4823	1,510	17,900	24,200	30,300	41,100	49,600	55,200
4824	11.0	1,530	3,020	4,250	6,090	7,580	9,260
4852	36.8	4,160	7,970	11,200	15,800	19,700	23,800
4853	9.64	1,360	2,770	3,960	5,730	7,190	8,840
4888	49.7	4,770	9,080	12,700	17,900	22,300	26,900
4907	19.9	2,360	4,700	6,660	9,580	12,000	14,700
4908	1,520	18,100	24,300	30,400	41,300	50,000	55,600
4919	20.3	2,370	4,810	6,880	9,990	12,500	15,400
4922	35.5	4,930	8,900	12,100	16,700	20,400	24,300
4923	478	4,940	7,400	8,890	10,600	11,800	12,800
4924	460	4,740	7,170	8,600	10,200	11,200	12,100
4944	346	11,700	25,900	39,500	61,900	82,600	107,000
4960	1,540	18,200	24,400	30,600	41,700	50,500	56,200
4967	400	12,500	27,100	41,100	64,000	85,100	110,000
4971	515	5,350	7,870	9,510	11,600	13,000	14,100
4974	NA	NA	NA	NA	NA	NA	NA
4975	NA	NA	NA	NA	NA	NA	NA
4980	NA	NA	NA	NA	NA	NA	NA
4981	59.5	6,950	12,300	16,700	22,900	28,000	33,300
5006	NA	NA	NA	NA	NA	NA	NA
5015	NA	NA	NA	NA	NA	NA	NA
5025	2,080	22,900	28,000	35,500	51,000	64,000	72,000
5058	2,080	22,900	28,000	35,500	51,000	64,000	72,000
5067	69.6	7,110	12,700	17,300	23,900	29,300	35,000
5071	14.9	1,820	3,730	5,340	7,770	9,760	12,000
5082	10.5	1,800	3,630	5,180	7,490	9,380	11,500
5090	71.5	7,010	12,600	17,200	23,800	29,200	34,900
5091	2,120	23,300	29,000	36,800	52,400	65,400	73,600
5154	31.5	3,360	6,680	9,510	13,700	17,200	20,900
5161	11.5	1,490	3,040	4,350	6,310	7,920	9,760
5167	NA	NA	NA	NA	NA	NA	NA
5219	17.4	1,910	3,940	5,670	8,280	10,400	12,900
5223	63.6	983	2,150	3,100	4,370	5,350	6,310
5252	27.4	3,320	6,620	9,440	13,600	17,100	20,900
5274	2,200	24,300	32,000	40,600	56,300	69,300	78,200

Table 69. 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 Montgomery County.—Continued

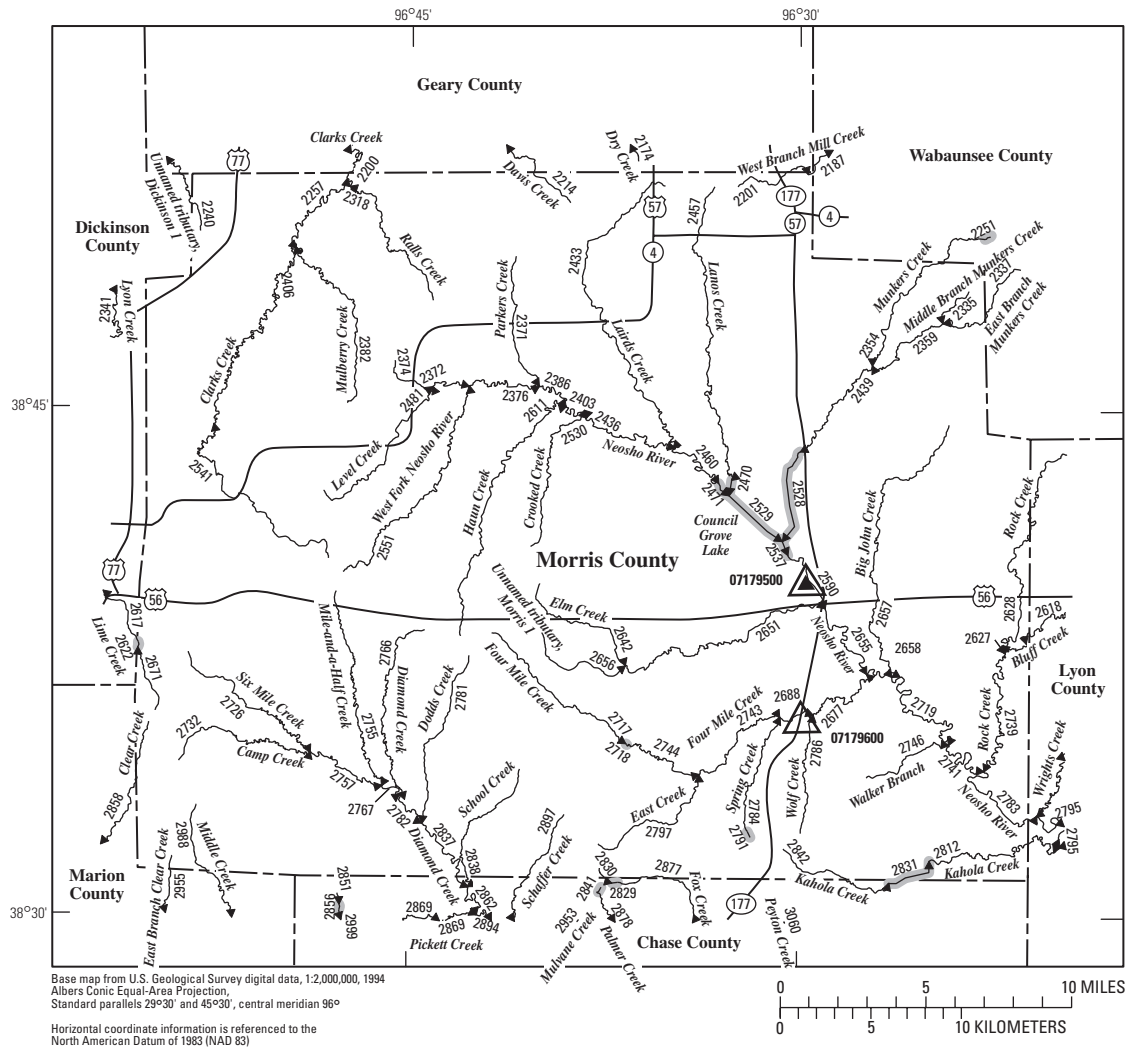
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 73)	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
		5276	1107010330	MG						Big Hill Creek	116	0.67
5283	1107010339	MG				Onion Creek	47.1	0	.63	4.48	16.2	48.2
5291	1107010354	MG				Bluff Run	10.1	0	.62	2.56	6.95	16.6
5292	1107010339	MG				Onion Creek	65.0	0	1.24	6.60	23.1	67.7
5295	1107010638	MG				Cotton Creek	12.4	0	.14	1.65	5.02	13.6
5296	110701069	MG				Bee Creek	62.7	.20	3.29	12.8	37.6	97.4
5310	1107010355	MG				Spring Creek	10.9	0	0	.83	3.32	10.4
5315	1107010339	MG				Onion Creek	77.3	0	1.77	8.50	29.1	84.5
5317	1107010329	MG				Verdigris River	3,100	31.8	85.4	462	2,330	7,370
5328	1107010339	MG				Onion Creek	99.6	.19	2.73	11.9	39.4	112
5329	1107010353	MG				Biscuit Creek	5.81	0	.24	1.27	3.33	8.25
5343	1107010640	MG				Cheyenne Creek	23.6	0	.38	2.80	9.14	25.6
5350	1107010329	MG				Verdigris River	3,120	31.9	86.2	466	2,350	7,420
5361	1107010352	MG				Sycamore Creek	13.8	0	.05	1.83	6.24	17.4
5365	1107010339	MG				Onion Creek	119	.42	3.35	14.3	47.5	136
5368	11070106509	MG				Hafer Run	14.9	0	.70	2.72	7.35	18.2
5380	1107010640	MG				Cheyenne Creek	42.5	0	1.27	5.62	17.7	48.6
5401	1107010357	MG				Deadman Creek	21.2	0	1.22	4.35	12.0	29.2
5403	1107010356	MG				Fawn Creek	17.7	0	.42	2.57	7.84	20.7
5411	1107010327	MG				Verdigris River	3,270	32.9	91.7	498	2,450	7,730
5412	1107010339	MG				Onion Creek	144	.63	3.88	16.7	55.9	163
5414	110701068	MG				Little Caney Creek	460	4.63	16.9	76.8	263	875

Table 69. 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 Montgomery 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. 73)	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
5276	80.1	1,160	2,440	3,460	4,840	5,880	6,920
5283	36.4	3,760	7,480	10,700	15,400	19,400	23,700
5291	11.3	1,620	3,210	4,540	6,520	8,130	9,950
5292	49.4	4,470	8,720	12,400	17,700	22,200	27,000
5295	10.5	1,590	3,280	4,720	6,880	8,650	10,700
5296	60.2	3,920	7,580	10,700	15,200	18,900	23,000
5310	9.00	1,560	3,170	4,520	6,540	8,200	10,100
5315	59.8	4,890	9,430	13,300	18,900	23,700	28,800
5317	2,300	25,300	35,200	44,600	60,600	73,500	83,200
5328	76.7	5,510	10,400	14,600	20,700	25,800	31,200
5329	6.15	1,170	2,290	3,230	4,600	5,720	6,990
5343	19.4	2,340	4,880	7,050	10,300	13,000	16,100
5350	2,310	25,500	35,700	45,300	61,300	74,200	84,000
5361	13.4	1,980	3,940	5,580	8,020	10,000	12,300
5365	91.5	5,890	11,100	15,600	22,100	27,500	33,300
5368	13.1	1,760	3,650	5,250	7,670	9,670	11,900
5380	34.6	3,930	7,490	10,500	14,700	18,300	22,100
5401	19.9	2,350	4,810	6,890	10,000	12,600	15,500
5403	15.4	2,050	4,210	6,040	8,800	11,100	13,600
5411	2,430	26,800	39,500	50,100	66,300	79,200	89,800
5412	109	6,500	12,200	17,100	24,100	30,000	36,400
5414	538	11,800	21,400	29,500	41,300	51,200	62,000



EXPLANATION

- ← 2955 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- ▲ 07179500 U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- △ 07179600 U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 2529 Lake and determination site identification number

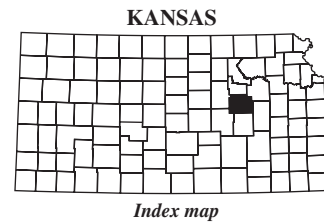


Figure 74. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Morris County.

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Table 70. 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 Morris County.

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

Determination site identification number (fig. 74)	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
		2257	102701019	MR						Clarks Creek	79.1	0
2318	1027010121	MR				Ralls Creek	19.3	0	0	.68	2.90	9.82
2335	1107020132	MR				Middle Branch Munkers Creek	2.22	0	0	0	0	0
2337	1107020131	MR	WB			East Branch Munkers Creek	14.8	0	0	.49	2.27	7.99
2354	1107020118	MR	WB			Munkers Creek	26.7	0	0	.94	4.11	14.0
2359	1107020132	MR				Middle Branch Munkers Creek	22.9	0	0	1.13	4.38	13.9
2371	1107020127	MR				Parkers Creek	15.0	0	0	.20	1.48	6.20
2372	1107020123	MR				Neosho River	20.0	0	0	.24	1.78	7.47
2374	1107020123	MR				Neosho River	4.13	0	0	0	0	0
2376	1107020123	MR				Neosho River	40.4	0	0	1.17	5.00	17.3
2382	1027010120	MR				Mulberry Creek	17.9	0	0	.58	2.47	8.55
2386	1107020123	MR				Neosho River	57.4	0	0	2.06	8.01	26.4
2403	1107020123	MR				Neosho River	76.0	0	.22	3.00	11.2	36.2
2406	102701019	MR				Clarks Creek	52.2	0	.23	2.70	9.42	28.8
2433	1107020130	MR				Lairds Creek	28.5	0	0	1.10	4.48	14.8
2436	1107020123	MR				Neosho River	98.0	0	.64	4.41	15.8	50.0
2439	1107020118	MR				Munkers Creek	63.9	0	.37	3.53	12.6	38.6
2457	1107020121	MR				Lanos Creek	35.1	0	0	1.55	5.98	19.1
2460	1107020123	MR				Neosho River	132	0	1.17	6.26	22.1	69.5
2470	HYDRO	MR				HYDRO	35.4	NA	NA	NA	NA	NA
2471	HYDRO	MR				HYDRO	135	NA	NA	NA	NA	NA
2481	110702019023	MR				Level Creek	13.7	0	0	0	.70	4.29
2528	HYDRO	MR				HYDRO	71.1	NA	NA	NA	NA	NA
2529	HYDRO	MR				HYDRO	176	NA	NA	NA	NA	NA
2530	1107020135	MR				Crooked Creek	13.8	0	0	.50	2.09	7.17
2537	HYDRO	MR				HYDRO	248	NA	NA	NA	NA	NA
2541	102701019	MR				Clarks Creek	27.9	0	0	1.05	4.16	13.8
2551	1107020128	MR				West Fork Neosho River	16.6	0	0	.06	1.18	5.69
2590	1107020111	MR				Neosho River	253	3.20	6.30	13.0	73.0	358
2611	1107020129	MR				Haun Creek	17.6	0	0	.44	2.18	7.97
2622	HYDRO	MR	DK			HYDRO	7.23	NA	NA	NA	NA	NA
2627	110702018	MR				Bluff Creek	35.5	0	.14	2.70	9.48	28.0
2642	1107020136	MR				Elm Creek	14.2	0	0	.21	1.36	5.61
2651	1107020136	MR				Elm Creek	41.6	0	.01	2.16	7.58	23.0
2655	1107020110	MR				Neosho River	299	4.27	8.09	19.9	93.3	428
2656	11070201946	MR				Unnamed tributary, Morris 1	4.91	0	0	0	0	.01
2657	1107020137	MR				Big John Creek	35.4	0	.14	2.54	8.58	24.9
2658	1107020110	MR				Neosho River	361	5.71	10.5	29.3	121	523

Table 70. 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 Morris 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. 74)	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
2257	35.3	2,920	6,450	9,680	14,700	19,100	24,000
2318	9.18	1,420	3,230	4,840	7,330	9,430	11,900
2335	.42	429	922	1,340	1,980	2,510	3,110
2337	7.61	1,270	2,850	4,240	6,390	8,200	10,300
2354	13.0	1,850	4,160	6,220	9,390	12,100	15,200
2359	12.0	1,640	3,710	5,550	8,400	10,800	13,600
2371	6.67	1,240	2,810	4,190	6,340	8,150	10,200
2372	8.17	1,480	3,350	5,020	7,610	9,790	12,300
2374	1.06	588	1,290	1,900	2,840	3,620	4,510
2376	16.3	2,460	5,570	8,440	12,900	16,800	21,200
2382	8.30	1,380	3,120	4,670	7,060	9,070	11,400
2386	23.4	2,940	6,580	9,920	15,100	19,700	24,800
2403	30.8	3,420	7,570	11,400	17,300	22,500	28,300
2406	24.0	2,300	5,210	7,900	12,100	15,800	19,900
2433	13.4	1,840	4,180	6,280	9,540	12,300	15,500
2436	40.5	3,840	8,450	12,700	19,200	24,900	31,400
2439	30.8	4,150	8,680	12,700	18,700	24,000	29,700
2457	16.7	3,210	6,790	9,960	14,700	18,800	23,300
2460	54.4	4,410	9,630	14,400	21,800	28,300	35,600
2470	NA	NA	NA	NA	NA	NA	NA
2471	NA	NA	NA	NA	NA	NA	NA
2481	5.47	1,190	2,670	3,990	6,020	7,720	9,680
2528	NA	NA	NA	NA	NA	NA	NA
2529	NA	NA	NA	NA	NA	NA	NA
2530	6.80	1,160	2,620	3,930	5,940	7,640	9,590
2537	NA	NA	NA	NA	NA	NA	NA
2541	12.8	1,870	4,200	6,280	9,500	12,200	15,300
2551	6.63	1,300	2,950	4,430	6,700	8,620	10,800
2590	132	1,870	3,060	3,820	4,740	5,370	5,960
2611	7.91	1,330	3,040	4,560	6,910	8,900	11,200
2622	NA	NA	NA	NA	NA	NA	NA
2627	21.6	3,130	6,600	9,660	14,300	18,200	22,500
2642	6.07	1,160	2,640	3,960	6,000	7,730	9,710
2651	19.0	2,990	6,470	9,580	14,300	18,400	22,900
2655	158	2,540	4,100	6,700	9,640	12,300	15,400
2656	1.56	625	1,390	2,060	3,090	3,960	4,940
2657	19.3	3,150	6,640	9,700	14,300	18,300	22,600
2658	192	3,450	5,500	10,600	16,200	21,700	28,100

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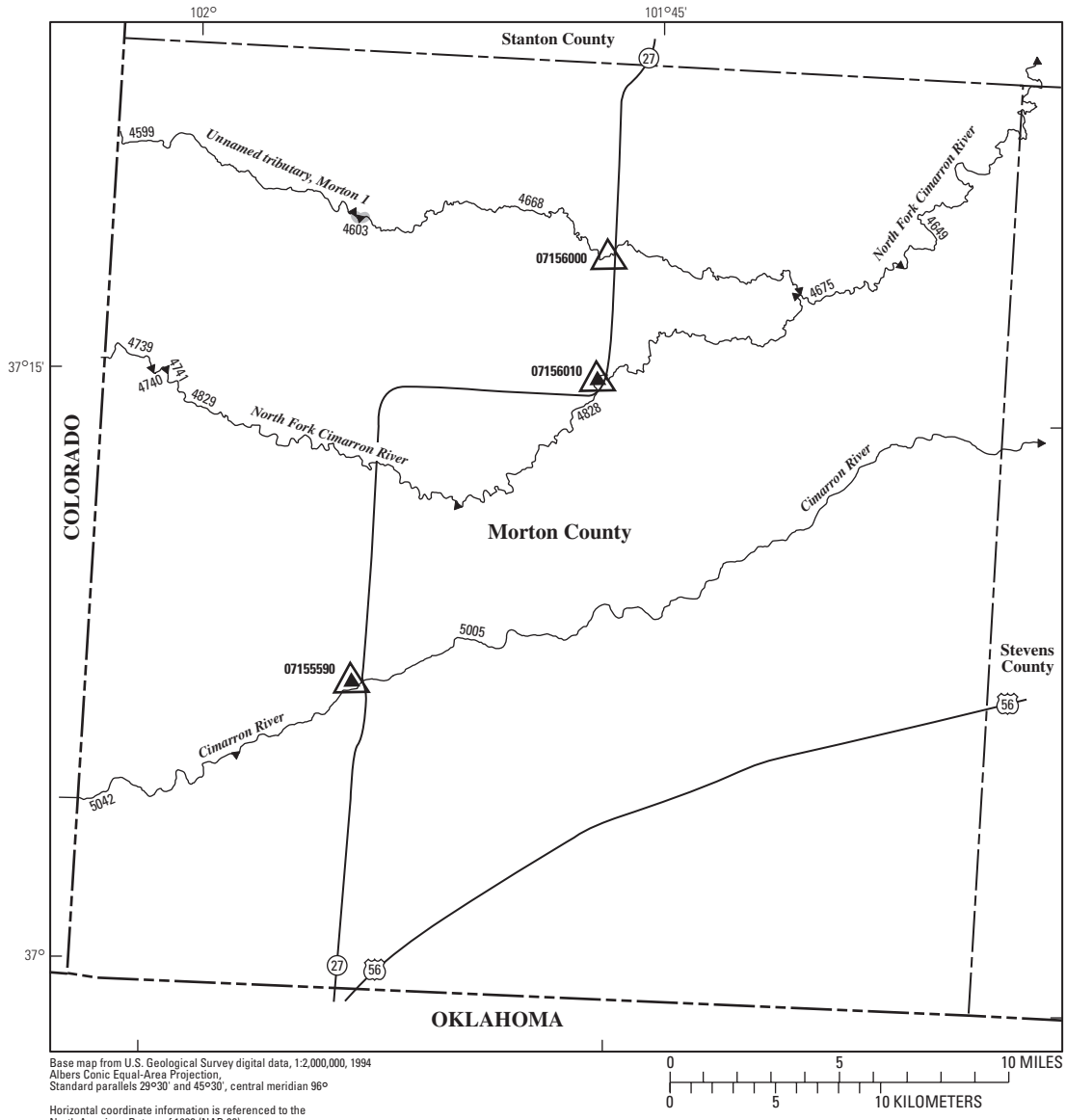
Table 70. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Morris County.—Continued

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

Determination site identification number (fig. 74)	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
		2671	1026000851	MR						Lime Creek	7.08	0
2677	1107020124	MR				Four Mile Creek	62.5	0	.51	3.89	13.2	39.2
2688	1107020124	MR				Four Mile Creek	49.0	0	.17	2.72	9.49	28.6
2717	1107020124	MR				Four Mile Creek	14.2	0	0	.19	1.29	5.41
2718	HYDRO	MR				HYDRO	14.2	NA	NA	NA	NA	NA
2719	1107020110	MR				Neosho River	405	6.74	12.2	35.9	140	591
2726	11070203452	MR				Six Mile Creek	18.2	0	0	.14	1.47	6.60
2732	1107020314	MR				Camp Creek	12.5	0	0	0	.53	3.73
2739	110702017	MR				Rock Creek	124	0	1.81	8.90	30.2	90.5
2741	1107020110	MR				Neosho River	417	7.02	12.7	37.7	145	609
2743	1107020124	MR				Four Mile Creek	38.9	0	0	2.01	7.15	21.8
2744	1107020124	MR				Four Mile Creek	20.8	0	0	.63	2.72	9.39
2746	1107020142	MR				Walker Branch	9.54	0	0	.80	2.62	7.69
2755	1107020313	MR				Mile-and-a-Half Creek	15.1	0	0	.08	1.08	5.13
2757	11070203452	MR				Six Mile Creek	38.4	0	0	1.15	4.84	16.5
2766	110702033	MR				Diamond Creek	11.1	0	0	0	.64	3.53
2767	11070203452	MR				Six Mile Creek	53.8	0	0	1.81	7.12	23.6
2781	1107020315	MR				Dodds Creek	13.0	0	0	.39	1.67	5.87
2782	110702033	MR				Diamond Creek	67.6	0	.08	2.52	9.43	30.5
2784	1107020140	MR				Spring Creek	8.60	0	0	.30	1.29	4.70
2786	1107020141	MR				Wolf Creek	8.37	0	0	.48	1.73	5.59
2791	HYDRO	MR				HYDRO	2.45	NA	NA	NA	NA	NA
2797	1107020139	MR				East Creek	10.1	0	0	.33	1.45	5.24
2829	HYDRO	MR				HYDRO	1.43	NA	NA	NA	NA	NA
2830	1107020319	MR				Fox Creek	1.29	0	0	0	0	0
2831	HYDRO	MR				HYDRO	15.8	NA	NA	NA	NA	NA

Table 70. 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 Morris 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. 74)	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
2671	3.49	851	1,870	2,760	4,110	5,250	6,540
2677	30.2	5,690	12,000	17,700	26,900	35,300	45,000
2688	23.0	5,370	11,300	16,700	25,400	33,400	42,600
2717	5.91	1,300	2,940	4,410	6,730	8,720	11,000
2718	NA	NA	NA	NA	NA	NA	NA
2719	216	4,090	6,490	13,300	20,900	28,300	37,100
2726	7.46	1,410	3,190	4,770	7,210	9,270	11,600
2732	4.91	1,090	2,470	3,700	5,590	7,190	9,020
2739	64.5	5,180	10,800	15,800	23,300	29,900	37,100
2741	223	4,270	6,770	14,100	22,200	30,200	39,600
2743	18.1	4,160	8,870	13,200	20,000	26,200	33,300
2744	9.04	1,820	4,080	6,130	9,390	12,200	15,600
2746	6.33	1,020	2,250	3,320	4,970	6,340	7,910
2755	5.97	1,190	2,720	4,090	6,200	7,990	10,000
2757	15.5	2,390	5,430	8,220	12,600	16,400	20,700
2766	4.35	952	2,180	3,280	4,990	6,430	8,090
2767	21.2	2,880	6,460	9,740	14,800	19,300	24,300
2781	5.78	1,030	2,380	3,590	5,480	7,070	8,910
2782	26.4	3,150	7,040	10,600	16,200	21,100	26,500
2784	4.65	982	2,170	3,220	4,850	6,230	7,820
2786	5.03	913	2,020	2,990	4,480	5,730	7,160
2791	NA	NA	NA	NA	NA	NA	NA
2797	5.19	1,070	2,380	3,540	5,360	6,900	8,680
2829	NA	NA	NA	NA	NA	NA	NA
2830	0	292	631	920	1,360	1,720	2,130
2831	NA	NA	NA	NA	NA	NA	NA



EXPLANATION

- ◀ 5042 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 07155590 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 07156000 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 4603 Lake and determination site identification number

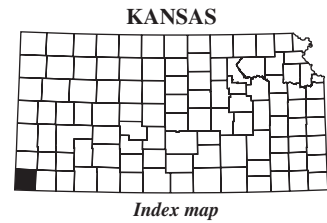


Figure 75. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Morton County.

Table 71. 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 Morton 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. 75)	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	
		4599	110400033	MT						Unnamed tributary, Morton 1	57.9	0	0
4603	HYDRO	MT				HYDRO	58.9	NA	NA	NA	NA	NA	NA
4668	110400033	MT				Unnamed tributary, Morton 1	167	.01	.02	.02	.02	.02	.02
4675	110400032	MT				North Fork Cimarron River	672	.70	.84	1.00	1.08	2.16	
4739	110400034	MT				North Fork Cimarron River	357	0	0	0	0	.06	
4740	110400034	MT				North Fork Cimarron River	360	0	0	0	0	.06	
4741	110400034	MT				North Fork Cimarron River	360	0	0	0	0	.06	
4828	110400034	MT				North Fork Cimarron River	494	0	0	0	0	.12	
4829	110400034	MT				North Fork Cimarron River	434	0	0	0	0	.09	
5005	110400021	MT	SV			Cimarron River	3,420	0	0	0	0	1.50	
5042	110400021	MT				Cimarron River	2,940	0	0	0	.11	2.21	

Table 71. 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 Morton 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. 75)	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
4599	0	206	728	1,340	2,470	3,610	5,000
4603	NA	NA	NA	NA	NA	NA	NA
4668	0.01	791	2,420	4,100	6,930	9,510	12,500
4675	6.69	981	4,010	7,980	16,000	24,500	35,600
4739	2.56	604	2,400	4,710	9,310	14,200	20,400
4740	2.61	612	2,430	4,770	9,430	14,400	20,700
4741	2.61	611	2,430	4,770	9,430	14,400	20,700
4828	5.60	870	3,650	7,320	14,800	22,800	33,200
4829	4.16	761	3,100	6,160	12,300	18,900	27,400
5005	10.7	1,330	4,000	6,800	11,600	16,000	21,300
5042	12.5	1,310	4,010	6,910	12,000	16,700	22,500