

Figure 76. 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 Nemaha County.

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

Table 72. 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 Nemaha 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. 76)	KSWR CUSEGA number	Stream segment by county (table 111)				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
2	1024000722	NM	MS			Unnamed tributary, Nemaha 1	10.0	0	0	0.36	1.50	5.20
47	1024000727	NM				Rattlesnake Creek	9.02	0	0	.82	2.27	6.29
49	1024000726	NM				Honey Creek	2.36	0	0	0	0	0
54	10240007212	NM				Unnamed tributary, Nemaha 2	12.1	0	.01	.85	2.62	7.61
121	102400075	NM				Turkey Creek	209	.90	4.56	14.8	46.6	136
124	102400075	NM				Turkey Creek	209	.90	4.58	14.8	46.8	137
125	1024000720	NM				Rock Creek	17.2	.01	.01	.81	3.44	11.3
141	102400075	NM				Turkey Creek	211	.92	4.65	15.0	47.3	138
154	1024000712	NM				Wolf Creek	35.8	.03	.05	2.20	7.63	22.5
156	102400074	NM				Turkey Creek	248	1.39	5.86	18.1	57.1	167
171	102400073	NM				South Fork Big Nemaha River	536	13.4	29.0	74.7	212	621
192	1024000720	NM				Rock Creek	16.4	.01	.01	.76	3.25	10.8
195	102400074	NM				Turkey Creek	303	2.71	8.58	24.8	76.4	224
196	1024000724	NM				Burger Creek	9.83	0	0	.60	1.78	5.38
198	102400074	NM				Turkey Creek	290	2.10	7.40	22.0	69.0	203
226	1024000725	NM				Wolf Pen Creek	17.1	.01	.01	.60	2.91	10.1
237	1024000715	NM				South Fork Big Nemaha River	224	1.19	5.01	18.2	59.7	184
250	1024000718	NM				Deer Creek	42.0	.04	.07	2.46	9.22	28.7
264	1024000838	NM				Pony Creek	7.37	0	0	.03	.88	4.18
271	1024000716	NM				South Fork Big Nemaha River	178	.75	3.54	13.9	46.2	142
272	1024000718	NM				Deer Creek	7.67	0	0	.01	.67	3.72
275	HYDRO	NM				HYDRO	8.87	NA	NA	NA	NA	NA
292	1024000718	NM				Deer Creek	21.7	.01	.02	1.20	4.78	15.2
323	1024000716	NM				South Fork Big Nemaha River	142	.48	2.47	10.5	35.7	109
328	1027010337	NM				Cedar Creek	4.98	0	0	0	0	1.28
378	1027010323	NM				Delaware River	14.1	0	.01	.48	2.58	9.30
383	10240007166	NM				Harris Creek	35.0	.03	.05	2.42	8.71	26.2
388	1027010337	NM				Cedar Creek	11.0	0	.01	.31	1.89	7.10
393	1024000723	NM				Wildcat Creek	34.6	.03	.05	1.35	5.58	18.5
402	1024000716	NM				South Fork Big Nemaha River	103	.25	1.64	8.03	27.6	83.4
434	1024000716	NM				South Fork Big Nemaha River	77.7	.14	1.13	6.39	22.1	65.9
463	1024000728	NM				Fisher Creek	17.1	.01	.01	.48	2.58	9.41
473	1024000716	NM				South Fork Big Nemaha River	44.4	.05	.35	3.61	12.7	37.5
495	1024000716	NM				South Fork Big Nemaha River	24.4	.01	.02	1.94	6.95	20.6
513	HYDRO	NM				HYDRO	23.2	NA	NA	NA	NA	NA
554	1024000729	NM				Tennessee Creek	32.3	.02	.06	2.58	9.14	27.0
583	1027010326	NM				Muddy Creek	31.7	.02	.05	2.33	8.57	26.0
636	1027010327	NM				Wolfley Creek	17.3	.01	.01	1.35	4.97	14.9

Table 72. 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 Nemaha 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. 76)	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
2	4.94	888	2,040	3,070	4,660	6,000	7,550
47	5.31	925	2,070	3,070	4,620	5,910	7,400
49	.83	431	934	1,370	2,020	2,570	3,180
54	6.52	1,060	2,400	3,590	5,430	6,990	8,770
121	90.5	5,090	11,000	16,300	24,600	32,000	40,200
124	90.8	5,070	11,000	16,300	24,600	31,900	40,200
125	9.82	1,390	3,130	4,660	7,040	9,030	11,300
141	91.5	4,960	10,800	16,000	24,200	31,500	39,700
154	17.5	2,760	6,080	9,070	13,600	17,700	22,100
156	109	5,490	11,800	17,500	26,300	34,200	43,100
171	379	9,040	18,700	27,300	40,700	52,500	65,800
192	9.38	1,350	3,040	4,530	6,830	8,760	11,000
195	142	5,900	12,700	18,700	28,100	36,500	45,900
196	4.91	898	2,050	3,070	4,660	6,000	7,540
198	129	5,820	12,500	18,400	27,700	36,000	45,300
226	9.17	1,350	3,050	4,570	6,910	8,880	11,100
237	125	6,900	14,400	21,200	31,600	40,800	51,000
250	22.8	3,350	7,240	10,700	16,000	20,700	25,800
264	4.39	892	1,950	2,860	4,260	5,420	6,750
271	98.3	6,470	13,500	19,800	29,300	37,700	47,000
272	4.18	889	1,950	2,880	4,300	5,490	6,840
275	NA	NA	NA	NA	NA	NA	NA
292	12.6	1,600	3,610	5,390	8,150	10,500	13,100
323	77.4	5,770	12,100	17,800	26,400	34,000	42,400
328	2.40	711	1,540	2,250	3,340	4,240	5,260
378	8.51	1,330	2,920	4,320	6,450	8,230	10,300
383	20.4	2,900	6,300	9,350	14,000	18,000	22,500
388	6.70	1,140	2,500	3,680	5,490	7,010	8,740
393	16.1	2,470	5,630	8,550	13,100	17,100	21,600
402	59.5	5,220	10,900	15,900	23,500	30,200	37,400
434	47.2	4,840	10,000	14,600	21,500	27,400	33,900
463	8.87	1,370	3,090	4,610	6,970	8,950	11,200
473	27.8	3,490	7,400	10,900	16,100	20,700	25,700
495	15.9	1,800	4,020	5,990	9,020	11,600	14,500
513	NA	NA	NA	NA	NA	NA	NA
554	20.5	3,300	6,930	10,100	14,900	19,000	23,500
583	20.2	2,720	5,920	8,790	13,200	17,000	21,200
636	11.8	1,530	3,350	4,940	7,380	9,430	11,800

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

Table 72. 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 Nemaha 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. 76)	KSWR CUSEGA number	Stream segment by county (table 111)				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
		649	1024000730	NM						Illinois Creek	16.4	0.01
650	1027010339	NM				Barnes Creek	13.3	0	.01	1.09	4.00	12.0
673	1027020514	NM				Black Vermillion River	41.1	.04	.10	2.68	9.66	29.5
696	1024000716	NM				South Fork Big Nemaha River	19.3	.01	.02	1.55	5.59	16.6
803	1027010219	NM				French Creek	13.4	0	0	.80	3.13	9.79
804	1027010242	NM				Mulberry Creek	10.6	0	0	.44	1.99	6.83
838	1027010219	NM				French Creek	27.9	0	0	1.83	6.70	20.1
870	1027010219	NM	PT			French Creek	40.3	0	0	2.61	9.48	28.3
875	1027010218	NM	PT			Vermillion Creek	25.8	0	0	1.94	7.04	20.8
901	1027010246	NM	PT			Coal Creek	28.5	0	0	2.13	7.66	22.5

Table 72. 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 Nemaha 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. 76)	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
649	11.0	1,430	3,160	4,690	7,030	9,000	11,300
650	9.56	1,320	2,880	4,240	6,320	8,060	10,000
673	23.3	2,630	5,880	8,860	13,500	17,500	22,100
696	12.9	1,580	3,500	5,200	7,800	9,990	12,500
803	8.29	1,260	2,770	4,110	6,150	7,860	9,820
804	6.26	1,080	2,390	3,540	5,290	6,760	8,440
838	16.0	1,910	4,290	6,390	9,650	12,400	15,500
870	22.1	3,040	6,590	9,780	14,600	18,900	23,500
875	16.2	1,890	4,210	6,250	9,390	12,000	15,000
901	17.4	1,980	4,430	6,590	9,920	12,700	15,900

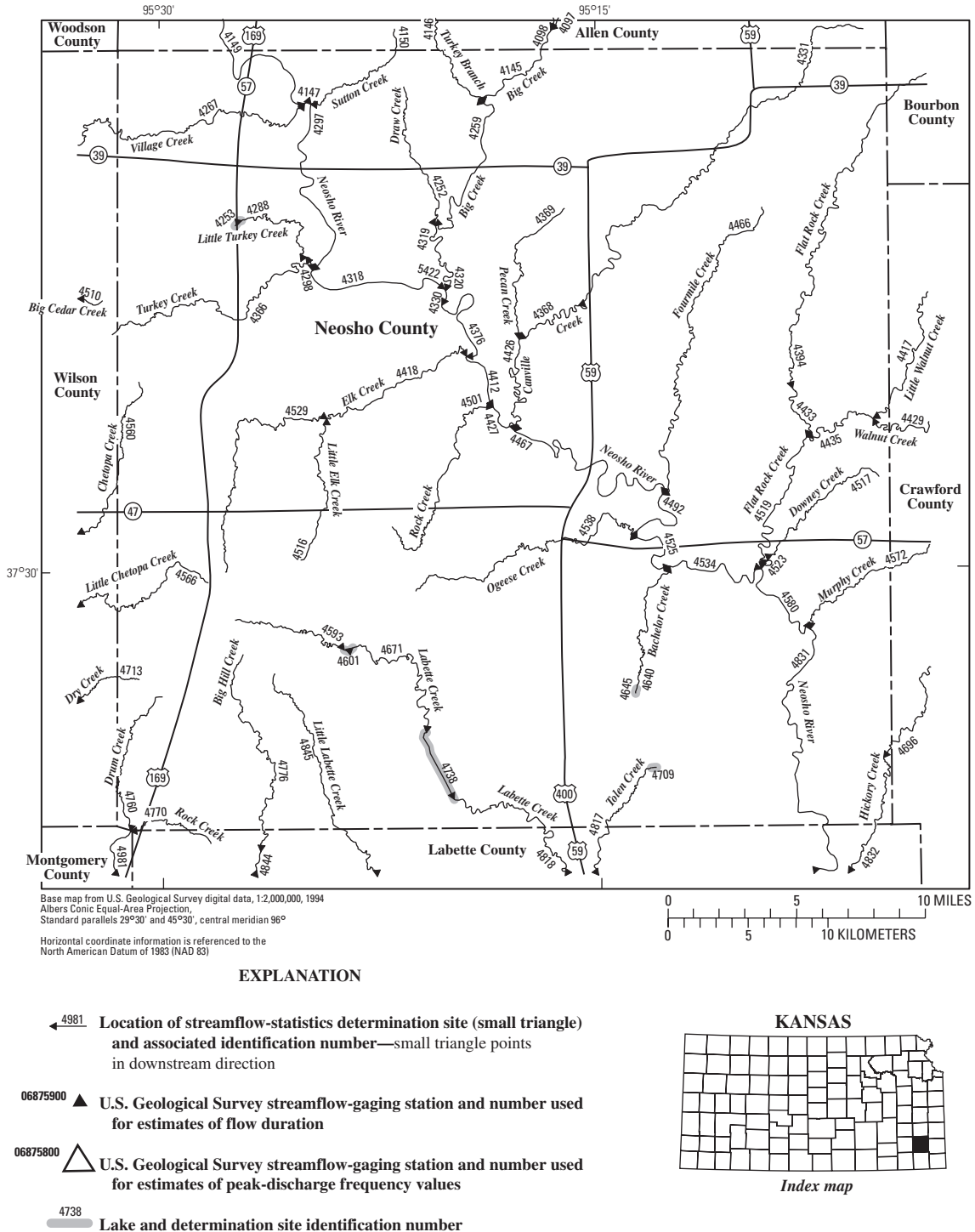


Figure 77. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Neosho County.

Table 73. 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 Neosho 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. 77)	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
		4147	110702043	NO						Neosho River	4,140	46.4
4252	1107020434	NO				Draw Creek	10.5	0	.17	1.89	6.01	15.8
4253	HYDRO	NO				HYDRO	5.28	NA	NA	NA	NA	NA
4259	110702042	NO				Big Creek	114	0	2.12	11.0	41.3	127
4267	1107020433	NO	WL			Village Creek	49.2	0	.32	4.09	16.7	52.9
4288	11070204397	NO				Little Turkey Creek	9.54	0	0	.56	3.13	10.7
4297	110702043	NO				Neosho River	4,160	46.6	143	685	2,850	8,250
4298	1107020432	NO				Turkey Creek	30.4	0	0	2.62	11.3	35.7
4318	110702043	NO				Neosho River	4,200	47.1	146	696	2,900	8,350
4319	110702042	NO				Big Creek	128	.05	2.52	12.7	47.3	146
4320	110702041	NO				Neosho River	4,200	47.1	146	696	2,900	8,350
4330	110702041	NO				Neosho River	4,330	48.6	154	731	3,050	8,660
4366	1107020432	NO	WL			Turkey Creek	20.8	0	0	1.89	8.14	25.5
4368	1107020516	NO				Canville Creek	55.4	0	.71	5.54	21.6	66.0
4369	1107020545	NO				Pecan Creek	13.4	0	.06	2.07	7.24	20.0
4376	1107020517	NO				Neosho River	4,330	48.7	154	732	3,050	8,670
4412	1107020517	NO				Neosho River	4,380	49.3	157	745	3,110	8,790
4418	1107020519	NO				Elk Creek	47.8	0	.92	5.77	20.9	60.7
4426	1107020516	NO				Canville Creek	73.7	0	1.20	7.56	29.0	88.6
4427	1107020517	NO				Neosho River	4,400	49.5	158	750	3,130	8,840
4433	1107020514	NO				Flat Rock Creek	45.2	0	.58	4.58	17.4	52.4
4435	1107020513	NO				Walnut Creek	75.4	0	.80	6.13	25.1	80.4
4466	1107020549	NO				Fourmile Creek	31.2	0	.03	2.62	10.7	33.2
4467	1107020515	NO				Neosho River	4,490	50.5	164	774	3,230	9,050
4492	1107020515	NO				Neosho River	4,520	51.0	166	783	3,270	9,130
4501	1107020548	NO				Rock Creek	16.7	0	.15	2.37	8.31	23.1
4516	1107020547	NO				Little Elk Creek	13.6	0	.22	2.21	7.23	19.3
4517	11070205731	NO				Downey Creek	9.78	0	0	.91	3.70	11.3
4519	1107020512	NO				Flat Rock Creek	129	0	1.93	10.8	43.0	138
4523	1107020512	NO				Flat Rock Creek	139	0	2.13	11.7	46.2	149
4525	1107020515	NO				Neosho River	4,550	51.3	168	790	3,300	9,200
4529	1107020519	NO				Elk Creek	21.4	0	.10	2.49	9.25	26.9
4534	1107020515	NO				Neosho River	4,580	51.6	169	798	3,330	9,270
4538	1107020538	NO				Ogeese Creek	25.7	0	.44	3.68	13.0	36.4
4560	1107010122	NO	WL			Chetopa Creek	28.8	0	0	2.00	9.00	29.5
4566	11070101471	NO	WL			Little Chetopa Creek	16.0	0	.25	2.57	8.58	23.2
4580	1107020511	NO				Neosho River	4,720	53.3	179	837	3,500	9,620
4593	1107020522	NO				Labette Creek	8.73	0	.01	1.39	4.52	12.2

Table 73. 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 Neosho 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. 77)	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
4147	2,540	24,700	35,200	39,800	59,700	86,000	122,000
4252	11.6	1,790	3,500	4,910	6,990	8,680	10,600
4253	NA	NA	NA	NA	NA	NA	NA
4259	90.9	7,380	13,500	18,600	26,000	32,200	38,800
4267	41.4	4,060	8,020	11,400	16,400	20,600	25,200
4288	9.44	1,740	3,360	4,700	6,670	8,270	10,100
4297	2,560	24,800	35,500	40,200	59,700	86,000	122,000
4298	28.3	3,930	7,600	10,700	15,200	19,000	23,000
4318	2,600	25,100	35,900	40,900	59,700	86,000	122,000
4319	102	7,630	14,000	19,300	26,900	33,200	40,100
4320	2,600	25,100	35,900	40,900	59,700	86,000	122,000
4330	2,720	26,100	37,300	43,000	59,800	86,000	122,000
4366	20.3	2,710	5,340	7,530	10,800	13,400	16,500
4368	49.1	5,220	9,790	13,600	19,100	23,700	28,600
4369	14.7	2,070	4,050	5,690	8,130	10,100	12,300
4376	2,720	26,100	37,300	43,100	59,800	86,000	122,000
4412	2,760	26,500	37,900	43,900	59,800	86,000	122,000
4418	43.9	4,840	8,970	12,400	17,300	21,300	25,600
4426	64.3	5,510	10,400	14,500	20,500	25,500	30,800
4427	2,780	26,600	38,000	44,200	59,800	86,000	121,000
4433	39.9	5,550	10,000	13,600	18,700	22,900	27,400
4435	62.0	4,790	9,340	13,200	19,000	23,800	29,100
4466	26.9	4,320	8,040	11,100	15,500	19,100	23,000
4467	2,860	27,300	39,000	45,600	59,900	86,000	121,000
4492	2,890	27,500	39,400	46,200	59,900	86,000	121,000
4501	17.2	2,340	4,610	6,500	9,310	11,600	14,200
4516	14.3	2,060	4,050	5,700	8,150	10,100	12,400
4517	9.61	1,790	3,450	4,820	6,830	8,470	10,300
4519	102	9,530	16,800	22,700	31,100	38,100	45,500
4523	109	9,790	17,200	23,300	32,000	39,100	46,800
4525	2,910	27,700	39,600	46,600	59,900	86,000	121,000
4529	20.6	2,700	5,340	7,560	10,900	13,500	16,600
4534	2,940	27,900	39,900	47,100	59,900	86,000	121,000
4538	26.2	2,990	5,940	8,430	12,100	15,200	18,600
4560	24.5	3,130	6,270	8,920	12,900	16,100	19,800
4566	16.8	2,210	4,380	6,200	8,900	11,100	13,600
4580	3,070	29,000	41,500	49,500	60,000	86,000	121,000
4593	9.32	1,580	3,080	4,320	6,150	7,630	9,310

Table 73. 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 Neosho County.—Continued

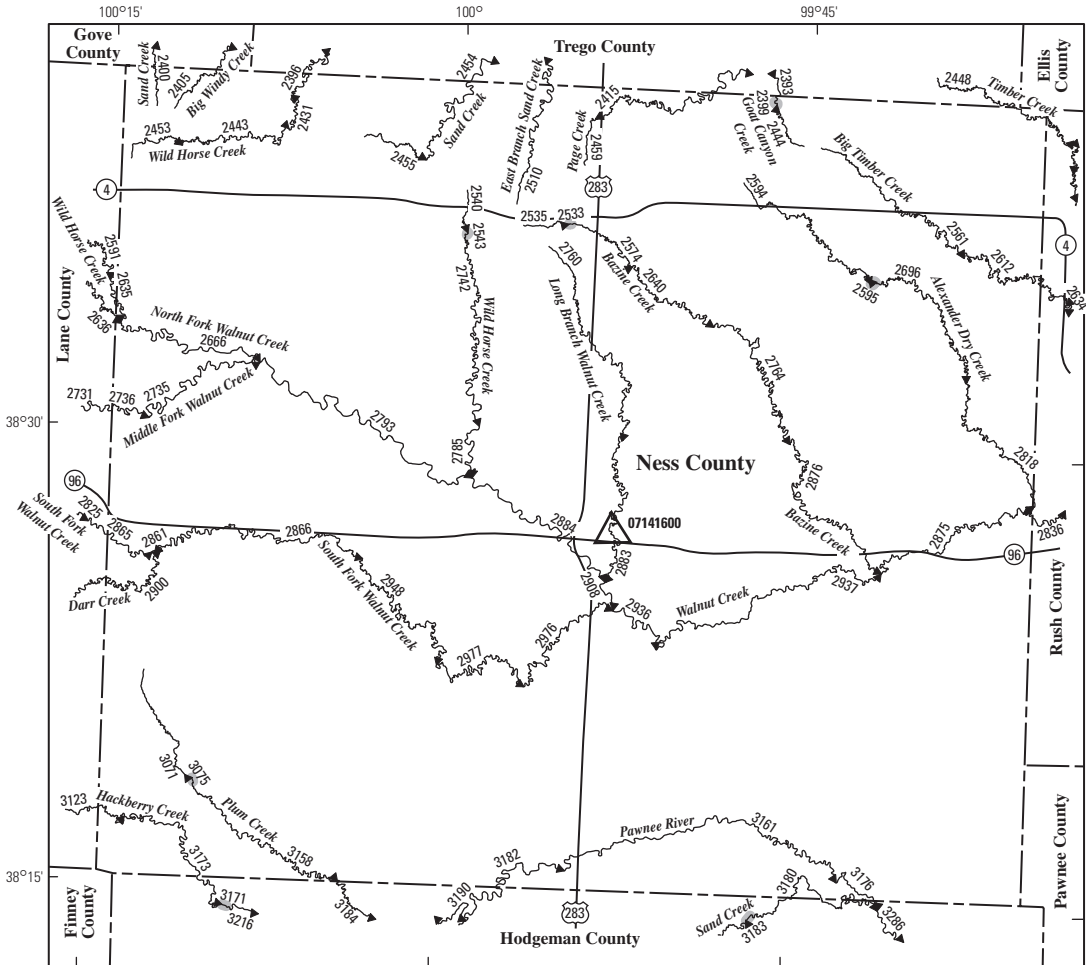
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 77)	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	
		4601	HYDRO	NO						HYDRO	9.53	NA	NA
4640	1107020540	NO				Bachelor Creek	21.9	0	0.19	2.61	9.33	26.7	
4645	HYDRO	NO				HYDRO	8.11	NA	NA	NA	NA	NA	
4671	1107020522	NO				Labette Creek	26.2	0	.48	3.58	12.4	34.6	
4709	HYDRO	NO				HYDRO	6.10	NA	NA	NA	NA	NA	
4713	1107010337	NO	WL			Dry Creek	24.1	0	.76	4.01	12.8	33.7	
4738	HYDRO	NO				HYDRO	34.0	NA	NA	NA	NA	NA	
4760	1107010334	NO	WL			Drum Creek	12.1	0	.33	2.35	7.23	18.6	
5422	110702041	NO				Neosho River	4,330	48.6	154	731	3,050	8,660	

Table 73. 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 Neosho 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. 77)	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
4601	NA	NA	NA	NA	NA	NA	NA
4640	20.5	2,710	5,390	7,620	11,000	13,700	16,800
4645	NA	NA	NA	NA	NA	NA	NA
4671	25.3	2,970	5,900	8,370	12,000	15,000	18,500
4709	NA	NA	NA	NA	NA	NA	NA
4713	23.8	2,760	5,540	7,890	11,400	14,300	17,500
4738	NA	NA	NA	NA	NA	NA	NA
4760	13.2	1,880	3,710	5,230	7,490	9,320	11,400
5422	2,720	26,100	37,300	43,000	59,800	86,000	122,000



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

- ◀ 3116 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- ▲ 07141600 U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- △ 07141600 U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 3171 Lake and determination site identification number

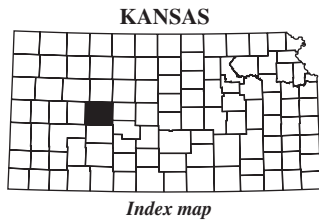


Figure 78. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Ness County.

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

Table 74. 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 Ness 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. 78)	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	
		2396	1026000328	NS	TR					Wild Horse Creek	66.1	0	0
2399	HYDRO	NS	TR			HYDRO	7.00	NA	NA	NA	NA	NA	NA
2415	1026000331	NS	TR			Page Creek	41.6	0	0	0	0	0	0
2431	1026000328	NS				Wild Horse Creek	42.5	0	0	0	0	0	0
2443	1026000328	NS				Wild Horse Creek	38.9	0	0	0	0	0	0
2444	1026000341	NS				Goat Canyon Creek	6.22	0	0	0	0	0	0
2453	1026000328	NS				Wild Horse Creek	13.7	0	0	0	0	0	0
2454	1026000329	NS	TR			Sand Creek	47.1	0	0	0	0	0	0
2455	1026000329	NS				Sand Creek	19.4	0	0	0	0	0	0
2459	1026000331	NS				Page Creek	9.01	0	0	0	0	0	0
2510	1026000340	NS	TR			East Branch Sand Creek	19.8	0	0	0	0	0	0
2533	HYDRO	NS				HYDRO	4.41	NA	NA	NA	NA	NA	NA
2535	110300089	NS				Bazine Creek	4.32	0	0	0	0	0	0
2540	110300074	NS				Wild Horse Creek	8.13	0	0	0	0	0	0
2543	HYDRO	NS				HYDRO	8.26	NA	NA	NA	NA	NA	NA
2561	1026000627	NS				Big Timber Creek	28.2	0	0	0	0	0	0
2574	110300089	NS				Bazine Creek	14.3	0	0	0	0	0	0
2594	110300087	NS				Alexander Dry Creek	34.1	0	0	0	0	0	0
2595	HYDRO	NS				HYDRO	34.3	NA	NA	NA	NA	NA	NA
2612	1026000627	NS	RH			Big Timber Creek	45.5	0	0	0	0	0	0
2640	110300089	NS				Bazine Creek	31.2	0	0	0	0	0	0
2666	110300076	NS				North Fork Walnut Creek	105	0	0	0	0	0	.59
2696	110300087	NS				Alexander Dry Creek	55.9	0	0	0	0	0	0
2735	110300077	NS				Middle Fork Walnut Creek	241	0	0	0	0	0	1.21
2742	110300074	NS				Wild Horse Creek	47.3	0	0	0	0	0	0
2760	110300072	NS				Long Branch Walnut Creek	34.4	0	0	0	0	0	0
2764	110300089	NS				Bazine Creek	62.4	0	0	0	0	0	0
2785	110300074	NS				Wild Horse Creek	52.9	0	0	0	0	0	0
2793	110300075	NS				North Fork Walnut Creek	395	0	0	.15	2.13	6.89	
2818	110300087	NS	RH			Alexander Dry Creek	84.7	0	0	0	0	0	0
2836	110300086	NS	RH			Walnut Creek	1,340	0	0	.73	10.9	25.6	
2861	1103000710	NS				South Fork Walnut Creek	327	0	0	0	0	0	1.75
2866	1103000710	NS				South Fork Walnut Creek	373	0	0	0	.77	3.56	
2875	110300088	NS				Walnut Creek	1,210	0	0	.62	9.25	22.1	
2876	110300089	NS				Bazine Creek	91.7	0	0	0	0	0	0
2883	110300072	NS				Long Branch Walnut Creek	58.6	0	0	0	0	0	0
2884	110300073	NS				North Fork Walnut Creek	471	0	0	.35	3.02	8.98	
2908	110300071	NS				North Fork Walnut Creek	531	0	0	.48	3.67	10.5	

Table 74. 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 Ness 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. 78)	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
2396	1.71	446	1,380	2,410	4,220	5,970	8,050
2399	NA	NA	NA	NA	NA	NA	NA
2415	.26	302	983	1,750	3,120	4,460	6,060
2431	.63	334	1,060	1,880	3,330	4,730	6,410
2443	.45	328	1,040	1,840	3,250	4,620	6,250
2444	0	198	605	1,030	1,750	2,410	3,190
2453	0	341	1,040	1,760	3,000	4,130	5,480
2454	.63	384	1,200	2,090	3,660	5,170	6,960
2455	0	395	1,230	2,110	3,620	5,000	6,670
2459	0	237	738	1,260	2,160	2,990	3,980
2510	0	378	1,190	2,060	3,550	4,920	6,580
2533	NA	NA	NA	NA	NA	NA	NA
2535	0	153	470	799	1,360	1,870	2,480
2540	0	228	705	1,200	2,050	2,830	3,760
2543	NA	NA	NA	NA	NA	NA	NA
2561	.04	503	1,570	2,690	4,630	6,410	8,550
2574	0	308	969	1,670	2,870	3,980	5,310
2594	.11	251	836	1,510	2,720	3,910	5,350
2595	NA	NA	NA	NA	NA	NA	NA
2612	.79	315	1,020	1,810	3,220	4,590	6,240
2640	0	252	839	1,510	2,710	3,890	5,320
2666	3.04	539	1,660	2,900	5,070	7,170	9,690
2696	1.04	367	1,180	2,080	3,700	5,280	7,170
2735	4.41	603	1,930	3,450	6,180	8,890	12,200
2742	.46	297	977	1,750	3,140	4,500	6,140
2760	0	185	672	1,280	2,460	3,700	5,270
2764	.89	364	1,180	2,110	3,760	5,390	7,350
2785	.64	304	1,000	1,800	3,230	4,640	6,350
2793	9.37	885	2,680	4,660	8,160	11,600	15,700
2818	2.22	462	1,450	2,560	4,530	6,450	8,750
2836	22.5	993	2,430	3,820	6,100	8,190	10,600
2861	5.10	747	2,300	4,030	7,100	10,100	13,800
2866	6.65	820	2,490	4,340	7,610	10,800	14,700
2875	20.5	952	2,390	3,820	6,210	8,450	11,100
2876	1.94	426	1,370	2,450	4,370	6,270	8,560
2883	.71	75	433	1,000	2,310	3,840	5,950
2884	11.2	973	2,900	5,010	8,730	12,300	16,700
2908	12.4	679	1,970	3,420	6,100	8,820	12,200

Table 74. 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 Ness County.—Continued

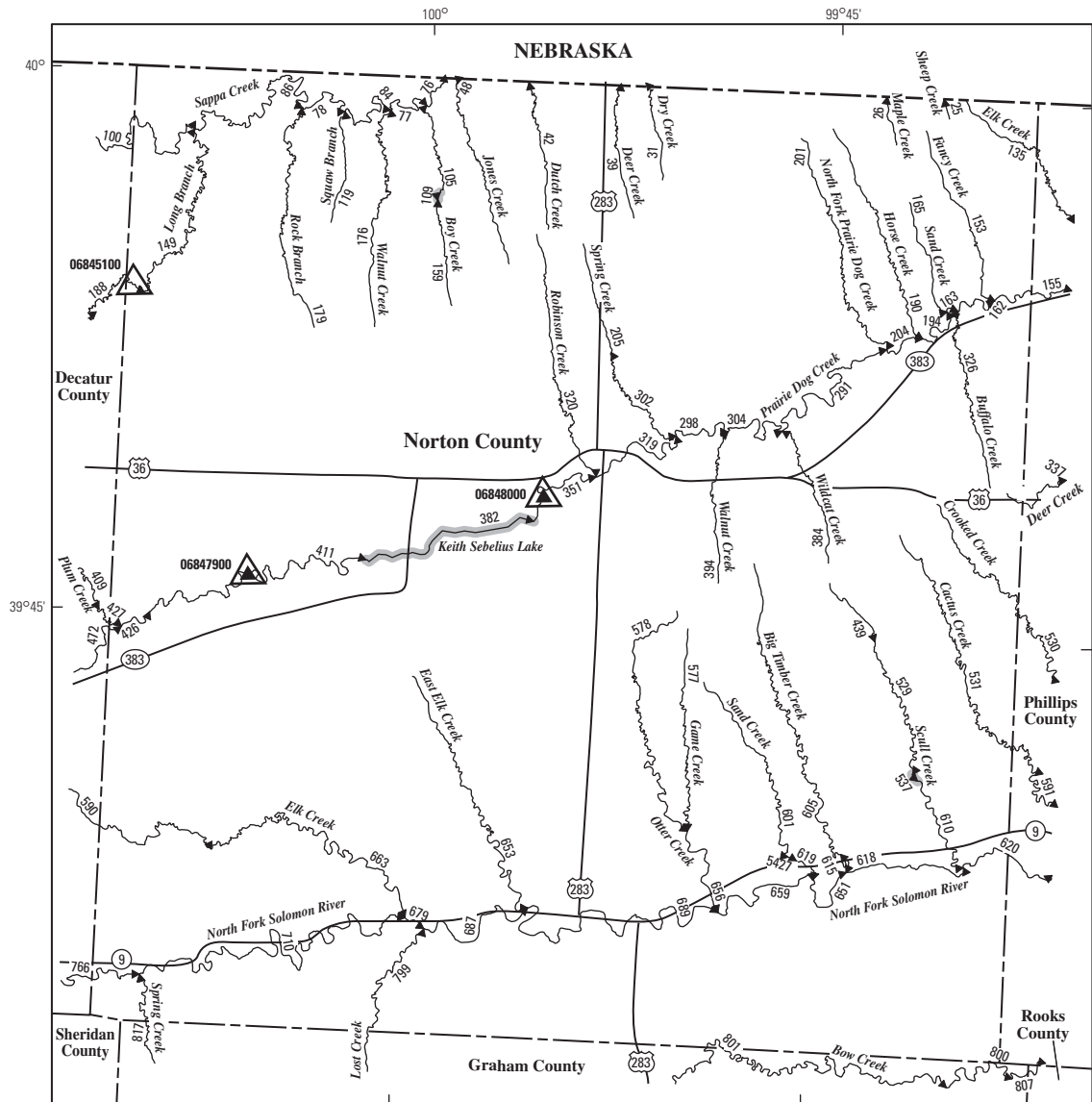
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 78)	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
		2936	1103000810	NS						Walnut Creek	1,000	0
2937	1103000810	NS				Walnut Creek	1,070	0	0	.57	7.80	19.1
2948	1103000710	NS				South Fork Walnut Creek	405	0	0	0	1.14	4.42
2976	1103000710	NS				South Fork Walnut Creek	461	0	0	0	1.71	5.73
2977	1103000710	NS				South Fork Walnut Creek	439	0	0	0	1.50	5.25
3071	110300057	NS				Plum Creek	37.7	0	0	0	0	0
3075	HYDRO	NS				HYDRO	38.8	NA	NA	NA	NA	NA
3158	110300057	NS				Plum Creek	76.6	0	0	0	0	0
3161	110300053	NS				Pawnee River	1,110	0	0	0	1.80	8.08

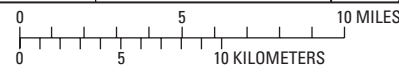
Table 74. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Ness County.—Continued

[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. 78)	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
2936	17.6	929	2,410	3,930	6,540	9,050	12,100
2937	18.7	923	2,370	3,840	6,350	8,740	11,600
2948	7.44	842	2,550	4,450	7,790	11,000	15,000
2976	8.65	859	2,600	4,530	7,940	11,300	15,300
2977	8.20	861	2,600	4,530	7,940	11,300	15,300
3071	.13	406	1,240	2,130	3,680	5,170	6,910
3075	NA	NA	NA	NA	NA	NA	NA
3158	1.31	457	1,430	2,510	4,410	6,260	8,460
3161	10.2	565	1,770	3,090	5,480	7,820	10,700



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

- ← 766 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06847900 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06845100 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 382 Lake and determination site identification number

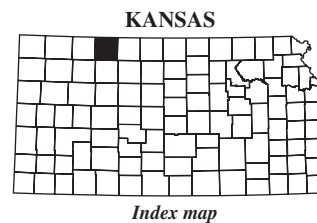


Figure 79. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Norton County.

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

Table 75. 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 Norton 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. 79)	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	
25	1025001119	NT				Sheep Creek	1.36	0	0	0	0	0	0
26	1025001118	NT				Maple Creek	3.86	0	0	0	0	0	0
31	1025001118	NT				Dry Creek	14.8	0	0	0	0	0	0
39	1025001117	NT				Deer Creek	15.1	0	0	0	0	0	0
42	1025001116	NT				Dutch Creek	10.8	0	0	0	0	0	0
48	1025001117	NT				Jones Creek	11.8	0	0	0	0	0	0
76	1025001113	NT				Sappa Creek	1,490	0	3.55	11.3	34.1	101	
77	1025001113	NT				Sappa Creek	1,480	0	3.35	10.7	32.5	96.6	
78	1025001113	NT				Sappa Creek	1,440	0	2.98	9.56	29.5	88.1	
84	1025001113	NT				Sappa Creek	1,450	0	3.09	9.89	30.4	90.6	
86	1025001113	NT				Sappa Creek	1,410	0	2.61	8.46	26.5	79.5	
105	1025001113	NT				Boy Creek	17.6	0	0	0	0	.01	
109	HYDRO	NT				HYDRO	14.0	NA	NA	NA	NA	NA	
119	1025001112	NT				Squaw Branch	6.02	0	0	0	0	0	
135	102500153	NT	PL			Elk Creek	32.2	0	0	0	0	0	
149	102500115	NT				Long Branch	77.8	0	0	.01	.11	1.53	
153	1025001519	NT				Fancy Creek	11.2	0	0	0	0	0	
155	102500152	NT	PL			Prairie Dog Creek	850	0	.01	1.45	5.47	12.3	
159	1025001113	NT				Boy Creek	13.6	0	0	0	0	0	
162	102500152	NT				Prairie Dog Creek	824	0	.01	1.27	4.81	11.1	
163	102500152	NT				Prairie Dog Creek	805	0	.01	1.14	4.33	10.2	
165	1025001520	NT				Sand Creek	5.58	0	0	0	0	0	
176	1025001111	NT				Walnut Creek	22.1	0	0	0	0	.01	
179	1025001110	NT				Rock Branch	32.9	0	0	0	.01	.03	
190	1025001518	NT				Horse Creek	12.0	0	0	0	0	0	
194	102500154	NT				Prairie Dog Creek	799	0	.01	1.10	4.18	9.90	
201	1025001517	NT				North Fork Prairie Dog Creek	30.0	0	0	0	0	0	
204	102500154	NT				Prairie Dog Creek	786	0	.01	1.01	3.85	9.29	
205	1025001515	NT				Spring Creek	14.0	0	0	0	0	0	
291	102500154	NT				Prairie Dog Creek	753	0	.01	.79	3.01	7.76	
298	102500154	NT				Prairie Dog Creek	708	0	.02	.48	1.87	5.66	
302	1025001515	NT				Spring Creek	21.0	0	0	0	0	0	
304	102500154	NT				Prairie Dog Creek	726	0	.01	.60	2.32	6.50	
319	102500154	NT				Prairie Dog Creek	681	0	.02	.29	1.18	4.40	
320	1025001516	NT				Robinson Creek	20.2	0	0	0	0	0	
326	1025001521	NT				Buffalo Creek	17.0	0	0	0	0	0	
337	1026001231	NT	PL			Deer Creek	6.62	0	0	.01	.01	.02	
351	102500154	NT				Prairie Dog Creek	653	0	.02	.10	.47	3.10	

Table 75. 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 Norton 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. 79)	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
25	0	106	294	479	782	1,050	1,360
26	0	193	550	906	1,500	2,020	2,640
31	.11	415	1,220	2,040	3,430	4,680	6,160
39	.09	417	1,230	2,060	3,460	4,720	6,220
42	0	344	1,010	1,680	2,810	3,830	5,040
48	0	363	1,060	1,780	2,970	4,060	5,340
76	73.8	1,200	3,510	6,090	10,800	15,600	21,500
77	70.7	1,170	3,450	6,000	10,700	15,400	21,200
78	64.9	1,140	3,370	5,860	10,400	15,100	20,800
84	66.6	1,140	3,380	5,890	10,500	15,100	20,900
86	59.0	1,090	3,250	5,680	10,100	14,700	20,300
105	.32	454	1,340	2,250	3,790	5,180	6,840
109	NA	NA	NA	NA	NA	NA	NA
119	0	239	696	1,160	1,930	2,620	3,440
135	1.54	415	1,230	2,090	3,560	4,950	6,570
149	3.44	331	808	1,270	2,050	2,760	3,600
153	0	357	1,040	1,740	2,900	3,950	5,200
155	9.48	488	1,190	1,710	2,350	2,780	3,170
159	0	391	1,150	1,920	3,230	4,410	5,810
162	8.95	435	1,050	1,510	2,060	2,440	2,780
163	8.57	396	953	1,360	1,850	2,190	2,490
165	0	236	679	1,130	1,870	2,530	3,320
176	.66	514	1,530	2,580	4,360	5,970	7,890
179	1.15	431	1,270	2,160	3,680	5,110	6,780
190	0	367	1,070	1,790	3,000	4,100	5,390
194	8.45	383	922	1,310	1,790	2,110	2,400
201	1.24	619	1,850	3,130	5,290	7,260	9,610
204	8.18	357	854	1,210	1,650	1,940	2,210
205	0	398	1,170	1,970	3,300	4,500	5,940
291	7.52	289	680	956	1,290	1,510	1,710
298	6.61	197	444	607	795	920	1,030
302	.49	503	1,490	2,510	4,240	5,800	7,660
304	6.97	234	538	747	991	1,160	1,300
319	6.07	141	302	397	500	566	623
320	.38	498	1,470	2,480	4,170	5,700	7,520
326	.25	439	1,300	2,190	3,690	5,040	6,660
337	.02	259	754	1,260	2,100	2,860	3,760
351	5.50	84	155	180	194	199	201

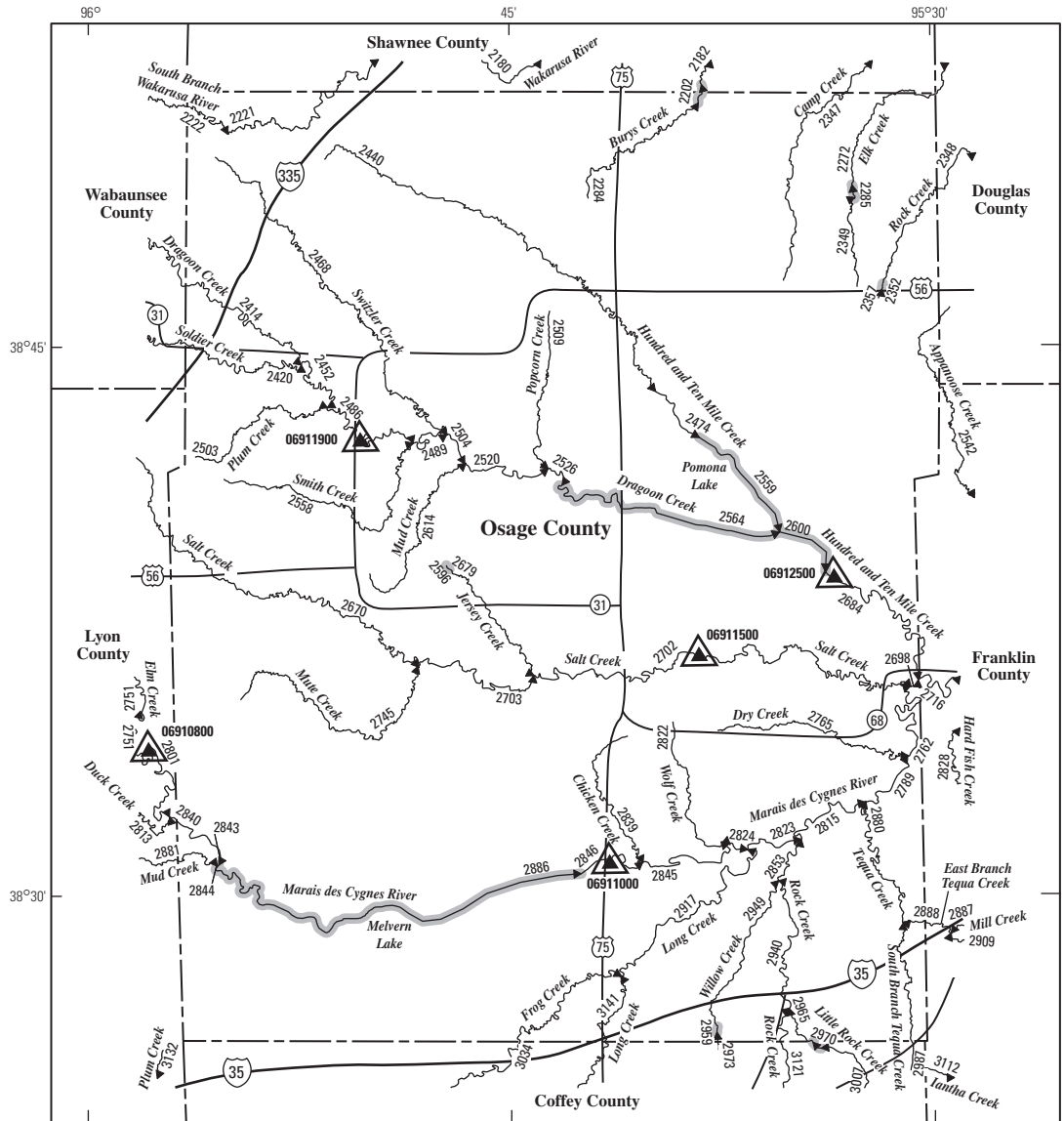
Table 75. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Norton County.—Continued

[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]

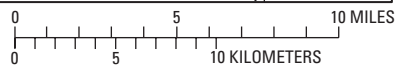
Determination site identification number (fig. 79)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded				
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent
		382	HYDRO	NT						HYDRO	640	NA
384	1025001526	NT				Wildcat Creek	12.9	0	0	0	0	0
394	1025001525	NT				Walnut Creek	12.7	0	0	0	0	0
411	102500158	NT				Prairie Dog Creek	610	0	.16	2.10	5.80	11.0
426	102500158	NT				Prairie Dog Creek	556	0	0	1.56	4.56	8.83
439	1026001121	NT				Scull Creek	7.34	0	0	0	0	0
529	1026001121	NT				Scull Creek	20.0	0	0	0	0	0
530	102600116	NT	PL			Crooked Creek	23.4	0	0	0	0	0
531	1026001128	NT	PL			Cactus Creek	23.5	0	0	0	0	0
537	HYDRO	NT				HYDRO	21.1	NA	NA	NA	NA	NA
577	1026001127	NT				Game Creek	10.3	0	0	0	0	0
578	1026001110	NT				Game Creek	35.9	0	0	0	0	0
601	1026001126	NT				Sand Creek	12.1	0	0	0	0	0
605	102600118	NT				Big Timber Creek	25.1	0	0	0	0	0
610	1026001121	NT				Scull Creek	27.7	0	0	0	0	0
615	102600118	NT				Big Timber Creek	25.6	0	0	0	0	0
618	102600117	NT				North Fork Solomon River	711	0	0	4.22	11.8	26.6
619	1026001126	NT				Sand Creek	13.0	0	0	0	0	0
620	102600117	NT	PL			North Fork Solomon River	756	0	0	4.83	13.4	29.8
651	102600119	NT				North Fork Solomon River	671	0	0	3.71	10.6	24.0
653	1026001125	NT				East Elk Creek	50.0	0	0	0	0	.06
656	1026001110	NT				Otter Creek	51.4	0	0	0	0	.14
659	102600119	NT				North Fork Solomon River	648	0	0	3.42	9.84	22.4
663	1026001112	NT				Elk Creek	77.4	0	0	0	0	.38
679	1026001111	NT				North Fork Solomon River	473	0	0	1.43	4.74	11.6
687	1026001111	NT				North Fork Solomon River	508	0	0	1.77	5.63	13.5
689	1026001111	NT				North Fork Solomon River	588	0	0	2.70	8.01	18.5
710	1026001113	NT				North Fork Solomon River	395	0	0	.78	3.02	7.90
5427	1026001126	NT				Sand Creek	12.3	0	0	0	0	0

Table 75. 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 Norton 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. 79)	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
382	NA	NA	NA	NA	NA	NA	NA
384	0	362	1,080	1,810	3,050	4,170	5,500
394	0	364	1,080	1,810	3,040	4,160	5,490
411	9.05	599	1,680	2,820	4,820	6,760	9,100
426	8.04	610	1,760	3,000	5,190	7,320	9,900
439	0	254	752	1,260	2,110	2,890	3,800
529	.23	445	1,350	2,290	3,900	5,360	7,110
530	.53	505	1,530	2,580	4,390	6,030	7,990
531	.53	496	1,510	2,560	4,350	5,980	7,940
537	NA	NA	NA	NA	NA	NA	NA
577	0	298	896	1,510	2,560	3,510	4,640
578	1.23	399	1,200	2,070	3,560	4,980	6,650
601	0	320	970	1,640	2,790	3,840	5,080
605	.48	500	1,530	2,610	4,460	6,140	8,160
610	.71	532	1,630	2,780	4,760	6,560	8,720
615	.52	506	1,550	2,640	4,520	6,220	8,270
618	18.5	1,270	3,890	6,800	12,000	17,200	23,500
619	0	333	1,010	1,720	2,920	4,010	5,320
620	20.0	1,320	4,050	7,070	12,500	17,800	24,400
651	17.2	1,230	3,770	6,580	11,600	16,600	22,700
653	2.03	510	1,500	2,560	4,360	6,060	8,060
656	2.11	492	1,460	2,500	4,270	5,970	7,950
659	16.5	1,200	3,690	6,450	11,400	16,300	22,300
663	2.53	514	1,560	2,710	4,700	6,610	8,880
679	10.6	945	2,960	5,230	9,290	13,300	18,200
687	11.6	993	3,100	5,460	9,700	13,900	19,000
689	14.5	1,120	3,460	6,070	10,700	15,300	21,000
710	8.28	825	2,620	4,640	8,270	11,900	16,300
5427	0	323	980	1,660	2,820	3,870	5,130



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

- ← 3034 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06910800 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06911000 ▽ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 2886 Lake and determination site identification number

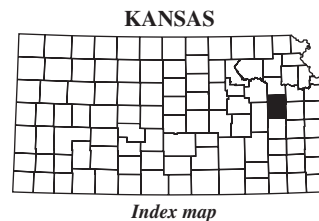


Figure 80. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Osage County.

Table 76. 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 Osage 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. 80)	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
		2202	HYDRO	OS	SN				HYDRO	25.7	NA	NA
2221	1027010463	OS	SN		South Branch Wakarusa River	32.7	0	0.21	2.94	10.2	29.7	
2222	1027010463	OS	WB		South Branch Wakarusa River	17.9	0	0	1.06	4.35	14.0	
2284	1027010432	OS			Burys Creek	24.3	0	0	1.48	5.77	18.2	
2285	HYDRO	OS			HYDRO	8.06	NA	NA	NA	NA	NA	
2347	1027010466	OS	SN		Camp Creek	34.3	0	.25	2.93	10.2	30.0	
2349	1027010468	OS			Elk Creek	7.14	0	0	.09	.88	4.00	
2352	HYDRO	OS			HYDRO	3.46	NA	NA	NA	NA	NA	
2357	1027010435	OS			Rock Creek	3.05	0	0	0	0	.41	
2414	1029010127	OS	WB		Dragoon Creek	53.6	0	.51	4.73	17.7	51.1	
2420	102901011083	OS	WB		Soldier Creek	25.3	0	0	1.93	7.44	22.3	
2440	1029010125	OS			Hundred and Ten Mile Creek	53.0	0	.33	3.63	13.5	41.7	
2452	1029010127	OS			Dragoon Creek	81.8	0	.83	6.82	26.7	77.6	
2468	1029010180	OS			Switzler Creek	38.4	0	.04	2.69	10.2	31.6	
2474	1029010125	OS			Hundred and Ten Mile Creek	61.2	0	.55	4.44	16.2	49.5	
2486	1029010127	OS			Dragoon Creek	97.2	0	1.00	8.00	32.0	93.0	
2489	1029010127	OS			Dragoon Creek	115	0	1.24	9.11	36.3	108	
2503	1029010179	OS			Plum Creek	10.4	0	0	.57	2.58	8.59	
2504	1029010127	OS			Dragoon Creek	156	0	1.87	11.8	46.2	140	
2509	1029010187	OS			Popcorn Creek	16.9	0	0	.82	3.69	12.4	
2520	1029010127	OS			Dragoon Creek	171	0	2.14	13.0	50.4	154	
2526	1029010127	OS			Dragoon Creek	190	0	2.42	14.1	54.7	169	
2558	1029010177	OS			Smith Creek	17.2	0	0	.92	4.12	13.7	
2559	HYDRO	OS			HYDRO	78.3	NA	NA	NA	NA	NA	
2564	HYDRO	OS			HYDRO	217	NA	NA	NA	NA	NA	
2596	HYDRO	OS			HYDRO	1.39	NA	NA	NA	NA	NA	
2600	HYDRO	OS			HYDRO	303	NA	NA	NA	NA	NA	
2614	1029010178	OS			Mud Creek	10.0	0	0	.26	1.81	7.06	
2679	1029010176	OS			Jersey Creek	14.3	0	0	.77	3.38	11.2	
2698	1029010128	OS			Marais des Cygnes River	695	21.3	32.0	71.6	423	1,420	
2702	1029010129	OS			Salt Creek	143	0	.54	5.10	24.0	82.0	
2703	1029010129	OS			Salt Creek	93.2	0	.30	4.04	17.9	59.7	
2745	1029010192	OS			Mute Creek	37.1	0	0	2.00	8.64	28.2	
2765	1029010195	OS			Dry Creek	14.0	0	0	1.11	3.91	11.8	
2789	1029010130	OS			Marais des Cygnes River	535	13.6	24.7	55.9	291	999	
2815	1029010131	OS			Marais des Cygnes River	499	11.9	23.0	52.4	262	904	
2822	1029010196	OS			Wolf Creek	10.4	0	0	.86	3.04	9.17	
2823	1029010132	OS			Marais des Cygnes River	435	8.85	20.1	46.1	209	734	

Table 76. 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 Osage 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. 80)	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
2202	NA	NA	NA	NA	NA	NA	NA
2221	22.3	3,190	6,620	9,620	14,100	17,900	22,100
2222	11.8	1,640	3,560	5,240	7,800	9,930	12,400
2284	15.4	2,040	4,420	6,490	9,660	12,300	15,300
2285	NA	NA	NA	NA	NA	NA	NA
2347	23.1	4,510	8,660	12,100	17,100	21,300	25,800
2349	4.44	1,030	2,160	3,120	4,570	5,760	7,120
2352	NA	NA	NA	NA	NA	NA	NA
2357	1.54	625	1,290	1,850	2,680	3,370	4,140
2414	37.8	3,800	7,560	10,800	15,500	19,500	23,900
2420	17.7	2,030	4,350	6,360	9,420	12,000	14,900
2440	32.6	3,560	7,510	11,000	16,300	20,900	26,000
2452	57.3	4,800	9,020	12,500	17,500	21,700	26,300
2468	24.9	2,890	6,250	9,280	13,900	17,900	22,300
2474	37.8	3,900	8,140	11,900	17,600	22,500	27,800
2486	68.4	4,780	8,780	12,000	16,600	20,500	24,700
2489	78.6	5,180	9,590	13,200	18,400	22,800	27,600
2503	7.55	1,250	2,640	3,830	5,640	7,130	8,830
2504	101	6,170	11,500	15,900	22,300	27,700	33,700
2509	11.1	1,670	3,580	5,230	7,740	9,830	12,200
2520	110	6,130	11,500	16,000	22,500	28,200	34,300
2526	119	6,510	12,200	17,000	24,000	30,100	36,700
2558	11.8	1,700	3,640	5,320	7,870	9,990	12,400
2559	NA	NA	NA	NA	NA	NA	NA
2564	NA	NA	NA	NA	NA	NA	NA
2596	NA	NA	NA	NA	NA	NA	NA
2600	NA	NA	NA	NA	NA	NA	NA
2614	6.83	1,260	2,650	3,840	5,650	7,140	8,840
2679	9.84	1,540	3,270	4,760	7,020	8,890	11,000
2698	488	8,980	17,600	25,000	36,200	45,900	57,000
2702	66.0	4,270	9,170	13,400	19,800	25,200	31,200
2703	48.5	4,330	9,140	13,300	19,700	25,200	31,200
2745	23.4	3,920	8,010	11,600	16,800	21,300	26,200
2765	9.82	1,510	3,220	4,690	6,920	8,770	10,900
2789	374	8,190	17,500	25,900	39,300	51,300	65,100
2815	348	8,020	17,400	26,100	40,000	52,500	66,900
2822	7.73	1,290	2,720	3,950	5,810	7,340	9,090
2823	303	7,700	17,400	26,500	41,200	54,600	70,200

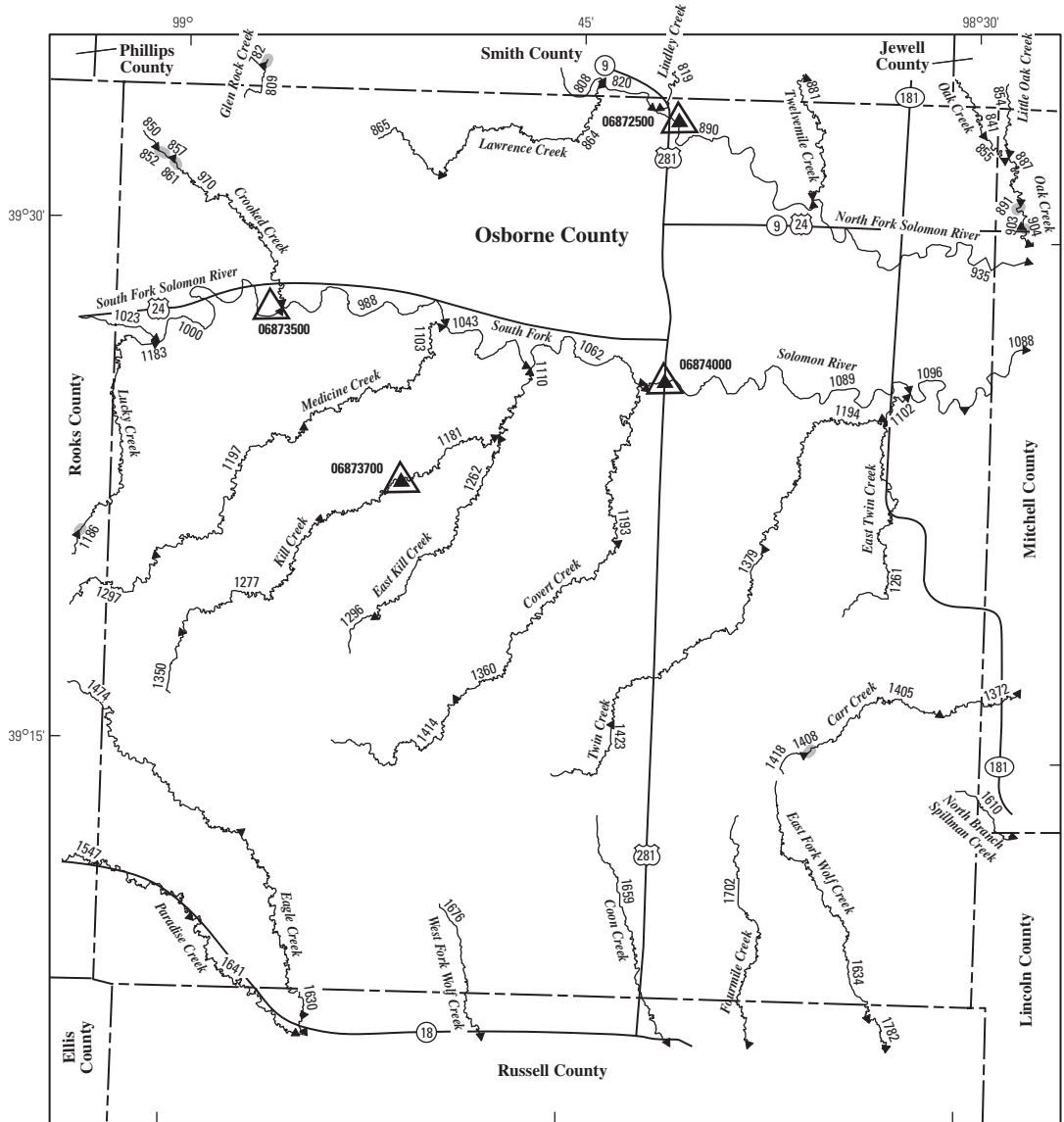
Table 76. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Osage County.—Continued

[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. 80)	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
		2824	1029010133	OS						Marais des Cygnes River	331	3.89
2839	1029010193	OS				Chicken Creek	15.0	0	0	1.32	4.64	13.7
2843	HYDRO	OS				HYDRO	212	NA	NA	NA	NA	NA
2844	HYDRO	OS				HYDRO	20.2	NA	NA	NA	NA	NA
2845	1029010133	OS				Marais des Cygnes River	320	3.36	14.8	34.8	114	430
2846	1029010133	OS				Marais des Cygnes River	302	2.50	14.0	33.0	99.0	382
2853	1029010143	OS				Rock Creek	58.5	0	.51	4.04	14.8	45.5
2880	1029010144	OS				Tequa Creek	31.7	0	.20	2.84	10.0	29.5
2886	HYDRO	OS				HYDRO	298	NA	NA	NA	NA	NA
2917	102901011531	OS				Long Creek	101	0	1.26	7.12	26.2	82.2
2940	1029010143	OS				Rock Creek	41.0	0	.16	2.74	10.1	31.3
2949	1029010194	OS				Willow Creek	15.4	0	0	.97	3.84	12.2
2959	HYDRO	OS				HYDRO	5.67	NA	NA	NA	NA	NA
2965	1029010173	OS				Little Rock Creek	11.1	0	0	.37	1.92	7.08
2970	HYDRO	OS				HYDRO	9.35	NA	NA	NA	NA	NA

Table 76. 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 Osage 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. 80)	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
2824	228	7,190	17,300	27,100	43,200	58,000	75,400
2839	11.1	1,600	3,400	4,940	7,290	9,240	11,500
2843	NA	NA	NA	NA	NA	NA	NA
2844	NA	NA	NA	NA	NA	NA	NA
2845	220	7,140	17,300	27,200	43,500	58,400	76,000
2846	208	7,050	17,300	27,300	43,800	59,000	76,900
2853	35.8	5,270	10,200	14,400	20,500	25,700	31,300
2880	22.6	3,520	7,060	10,100	14,500	18,300	22,400
2886	NA	NA	NA	NA	NA	NA	NA
2917	62.0	5,600	11,200	16,000	23,200	29,400	36,100
2940	25.4	4,360	8,550	12,100	17,300	21,700	26,400
2949	10.6	1,650	3,490	5,080	7,480	9,480	11,800
2959	NA	NA	NA	NA	NA	NA	NA
2965	7.02	1,360	2,860	4,140	6,090	7,700	9,530
2970	NA	NA	NA	NA	NA	NA	NA



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

EXPLANATION

- ◀ 1641 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06873700 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06873500 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 1408 Lake and determination site identification number

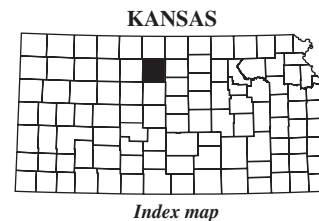


Figure 81. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Osborne County.

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

Table 77. 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 Osborne 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. 81)	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	
		809	1026001241	OB	SM					Glen Rock Creek	12.9	0	0
819	1026001245	OB	SM			Lindley Creek	20.9	0	0	0	0	0	0
820	102600127	OB	SM			North Fork Solomon River	2,480	11.8	19.6	33.3	73.5	159	
850	1026001427	OB				Crooked Creek	13.1	0	0	0	0	0	0
852	HYDRO	OB				HYDRO	14.8	NA	NA	NA	NA	NA	NA
857	1026001427	OB				Crooked Creek	15.9	0	0	0	0	0	0
861	HYDRO	OB				HYDRO	16.4	NA	NA	NA	NA	NA	NA
864	1026001244	OB	SM			Lawrence Creek	52.4	0	0	.42	1.30	3.97	
865	1026001244	OB				Lawrence Creek	21.7	0	0	0	0	0	0
881	102600126	OB	SM			Twelvemile Creek	55.0	0	0	.66	1.84	5.19	
890	102600127	OB				North Fork Solomon River	2,530	12.0	20.0	34.0	75.0	162	
970	1026001427	OB				Crooked Creek	38.4	0	0	0	0	1.11	
988	102600146	OB				South Fork Solomon River	1,680	1.94	3.92	10.4	36.9	119	
1000	102600146	OB				South Fork Solomon River	1,620	1.12	2.49	8.29	32.6	108	
1023	102600146	OB	RO			South Fork Solomon River	1,570	.43	1.30	6.50	29.0	99.0	
1043	102600145	OB				South Fork Solomon River	1,750	2.82	5.47	12.7	41.5	131	
1062	102600144	OB				South Fork Solomon River	1,860	4.35	8.12	16.7	49.4	151	
1089	102600143	OB				South Fork Solomon River	1,990	6.00	11.0	21.0	58.0	174	
1096	102600142	OB				South Fork Solomon River	2,100	6.28	11.4	22.2	62.5	192	
1102	1026001420	OB				Twin Creek	109	0	.45	2.41	6.13	14.9	
1103	1026001417	OB				Medicine Creek	56.4	0	0	.39	1.27	4.04	
1110	1026001418	OB				Kill Creek	90.9	0	.13	1.14	2.86	8.34	
1181	1026001418	OB				Kill Creek	49.4	0	0	0	0	1.80	
1183	1026001426	OB	RO			Lucky Creek	31.5	0	0	0	.01	.94	
1193	1026001419	OB				Covert Creek	87.0	0	.10	1.62	4.17	10.2	
1194	1026001420	OB				Twin Creek	74.0	0	.01	1.35	3.46	8.65	
1197	1026001417	OB				Medicine Creek	39.8	0	0	0	.03	1.29	
1261	1026001429	OB				East Twin Creek	33.7	0	0	.39	1.07	3.24	
1262	1026001428	OB				East Kill Creek	34.7	0	0	.22	.68	2.37	
1277	1026001418	OB				Kill Creek	32.5	0	0	0	0	.20	
1296	1026001428	OB				East Kill Creek	9.89	0	0	0	0	0	
1297	1026001417	OB	RO			Medicine Creek	15.1	0	0	0	0	0	
1350	1026001418	OB				Kill Creek	11.5	0	0	0	0	0	
1360	1026001419	OB				Covert Creek	67.0	0	0	1.06	2.79	7.08	
1379	1026001420	OB				Twin Creek	54.6	0	0	.89	2.31	5.93	
1405	1026001421	OB				Carr Creek	27.7	0	0	.30	.75	2.39	
1408	HYDRO	OB				HYDRO	7.75	NA	NA	NA	NA	NA	
1414	1026001419	OB				Covert Creek	35.1	0	0	.06	.35	1.76	

Table 77. 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 Osborne 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. 81)	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
809	0.18	444	1,260	2,070	3,410	4,620	6,040
819	1.33	578	1,660	2,750	4,570	6,210	8,150
820	96.3	2,800	6,250	9,420	14,500	19,100	24,400
850	.05	431	1,230	2,040	3,370	4,570	5,990
852	NA	NA	NA	NA	NA	NA	NA
857	.35	485	1,390	2,300	3,820	5,190	6,800
861	NA	NA	NA	NA	NA	NA	NA
864	4.97	815	2,200	3,590	5,890	8,020	10,500
865	1.44	621	1,760	2,910	4,810	6,520	8,540
881	5.90	743	2,040	3,360	5,570	7,610	9,980
890	98.4	2,860	6,380	9,620	14,800	19,500	24,900
970	2.85	610	1,700	2,810	4,670	6,400	8,390
988	62.3	3,230	11,000	21,000	41,700	64,900	96,500
1000	56.4	3,600	12,300	23,400	46,300	72,000	107,000
1023	51.5	554	2,000	3,610	6,370	8,900	11,800
1043	68.6	2,830	9,690	18,500	36,600	57,100	85,100
1062	79.4	2,150	7,370	14,100	28,100	43,900	65,500
1089	91.2	1,400	4,850	9,310	18,700	29,500	44,300
1096	96.9	1,410	4,810	9,170	18,300	28,800	43,100
1102	12.9	1,060	2,850	4,660	7,650	10,400	13,600
1103	5.22	736	2,030	3,360	5,580	7,660	10,000
1110	7.02	458	1,850	4,020	9,300	16,100	26,300
1181	2.09	182	1,150	2,890	7,480	13,600	23,100
1183	2.46	566	1,580	2,610	4,340	5,940	7,770
1193	9.53	890	2,420	4,000	6,610	9,050	11,900
1194	8.36	826	2,250	3,720	6,140	8,400	11,000
1197	3.07	580	1,640	2,740	4,590	6,320	8,330
1261	4.10	832	2,160	3,470	5,590	7,530	9,700
1262	3.51	709	1,900	3,100	5,050	6,850	8,900
1277	1.47	361	1,300	2,600	5,520	9,080	14,300
1296	0	395	1,100	1,800	2,960	3,980	5,190
1297	.36	483	1,370	2,270	3,750	5,080	6,650
1350	0	396	1,150	1,950	3,360	4,750	6,520
1360	7.14	856	2,310	3,790	6,230	8,490	11,100
1379	6.18	873	2,310	3,750	6,110	8,270	10,700
1405	3.33	782	2,180	3,580	5,890	7,950	10,400
1408	NA	NA	NA	NA	NA	NA	NA
1414	3.14	688	1,860	3,050	4,990	6,790	8,840

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

Table 77. 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 Osborne County.—Continued

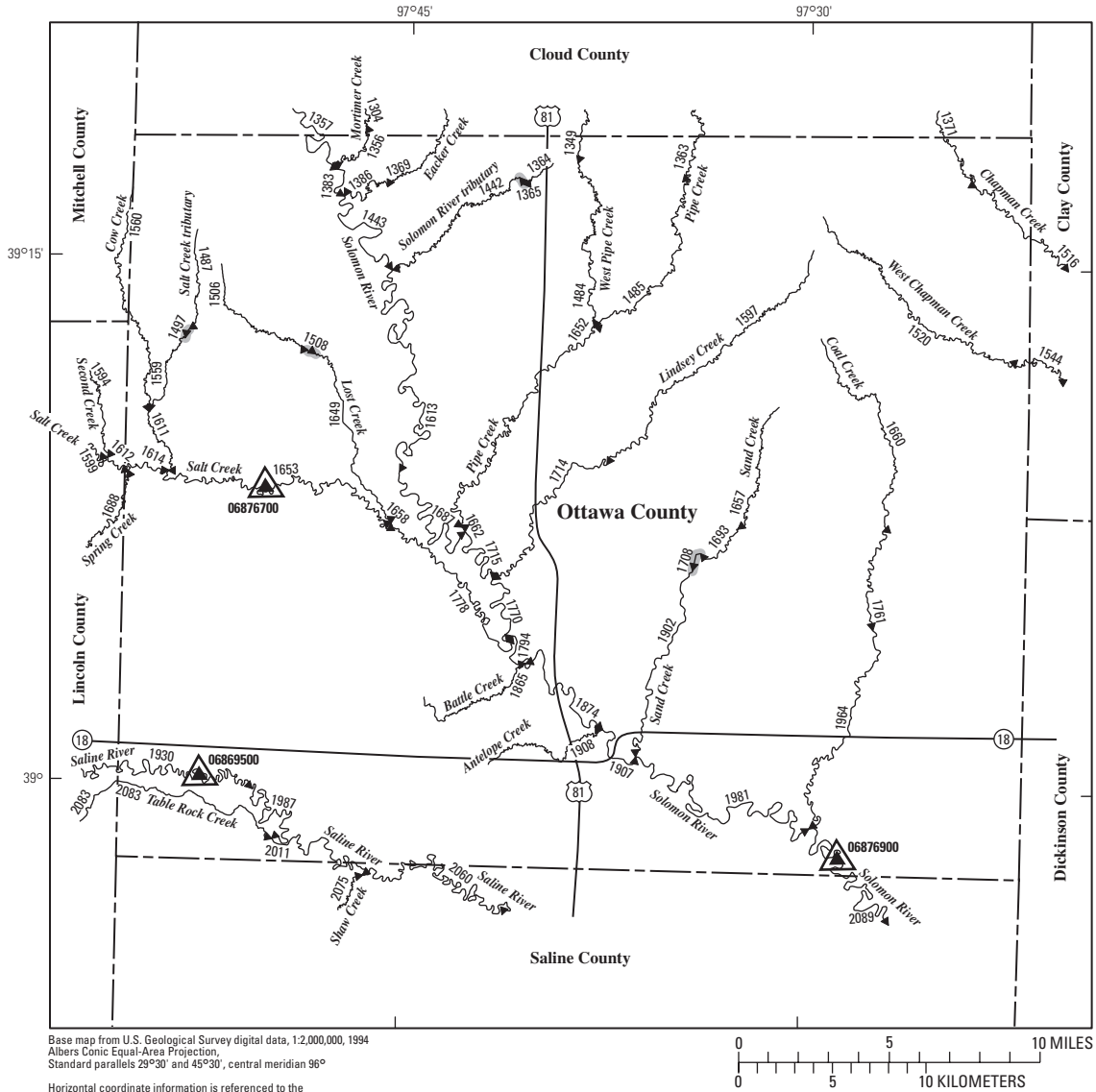
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 81)	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	
		1418	1026001421	OB						Carr Creek	7.64	0	0
1423	1026001420	OB				Twin Creek	18.8	0	0	0	0	0	.14
1474	102600096	OB	RO			Eagle Creek	36.7	0	0	0	.08	1.54	
1547	102600097	OB	RO			Paradise Creek	122	0	0	.37	2.14	9.85	
1630	102600096	OB	RS			Eagle Creek	63.1	0	0	.47	1.59	5.46	
1634	1026001011	OB	RS			East Fork Wolf Creek	37.3	0	0	.36	1.04	3.31	
1641	102600097	OB	RS			Paradise Creek	148	0	0	.49	2.84	13.3	
1659	1026001031	OB	RS			Coon Creek	34.7	0	0	0	.19	1.49	
1676	1026001012	OB	RS			West Fork Wolf Creek	58.3	0	0	.46	1.49	4.45	
1702	1026001030	OB	RS			Fourmile Creek	33.5	0	0	.22	.69	2.44	

Table 77. 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 Osborne 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. 81)	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
1418	0.20	366	997	1,610	2,620	3,510	4,560
1423	1.62	582	1,640	2,700	4,450	6,020	7,870
1474	2.98	546	1,560	2,620	4,410	6,090	8,050
1547	9.23	735	2,240	3,920	6,920	9,850	13,400
1630	5.89	732	2,060	3,440	5,780	7,990	10,600
1634	4.32	829	2,170	3,500	5,650	7,620	9,850
1641	11.6	809	2,500	4,390	7,810	11,200	15,400
1659	3.06	690	1,850	3,010	4,910	6,670	8,670
1676	5.47	1,010	2,590	4,130	6,630	8,910	11,500
1702	3.59	733	1,930	3,130	5,070	6,850	8,870



EXPLANATION

- ◀ 1987 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06869500 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06876900 ◻ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 1708 Lake and determination site identification number

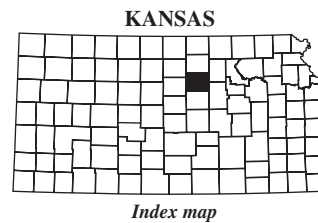


Figure 82. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Ottawa County.

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

Table 78. 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 Ottawa 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. 82)	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	
		1364	1026001552	OT						Solomon River tributary	4.01	0	0
1365	HYDRO	OT				HYDRO	4.32	NA	NA	NA	NA	NA	NA
1383	1026001512	OT				Solomon River	5,850	32.5	65.1	186	524	1,890	
1386	1026001550	OT				Eacker Creek	32.6	0	0	1.12	3.04	8.32	
1442	1026001552	OT				Solomon River tributary	20.4	0	0	0	.29	2.22	
1443	1026001512	OT				Solomon River	5,900	33.5	65.9	185	521	1,870	
1484	1026001511	OT				West Pipe Creek	49.2	0	.28	2.05	5.60	14.8	
1485	1026001510	OT				Pipe Creek	60.0	0	.91	3.56	9.30	23.4	
1487	1026001555	OT				Salt Creek tributary	11.7	0	0	.51	.86	2.18	
1497	HYDRO	OT				HYDRO	12.0	NA	NA	NA	NA	NA	
1506	1026001556	OT				Lost Creek	16.6	0	0	.73	1.51	3.79	
1508	HYDRO	OT				HYDRO	17.8	NA	NA	NA	NA	NA	
1520	102600085	OT				West Chapman Creek	40.7	.10	.81	2.90	7.06	17.3	
1559	1026001555	OT				Salt Creek tributary	18.2	0	0	.71	1.52	3.95	
1597	102600157	OT				Lindsey Creek	34.3	0	.21	1.58	4.00	10.3	
1611	1026001528	OT				Cow Creek	38.4	0	.20	1.62	3.91	9.74	
1613	1026001512	OT				Solomon River	5,940	34.5	66.7	185	519	1,850	
1614	1026001529	OT				Salt Creek	345	.93	3.32	9.98	25.1	82.4	
1649	1026001556	OT				Lost Creek	29.2	0	0	1.03	2.58	6.74	
1652	102600159	OT				Pipe Creek	134	0	1.88	6.37	17.2	45.0	
1653	1026001527	OT				Salt Creek	424	1.60	4.00	12.0	30.0	106	
1657	102600154	OT				Sand Creek	20.0	0	.47	1.50	2.97	6.74	
1658	1026001527	OT				Salt Creek	424	1.60	4.01	12.0	30.1	106	
1660	102600152	OT				Coal Creek	31.8	0	.77	2.64	6.04	14.0	
1662	102600159	OT				Pipe Creek	134	0	1.88	6.37	17.3	45.0	
1687	1026001512	OT				Solomon River	5,940	34.6	66.8	185	518	1,850	
1693	102600154	OT				Sand Creek	27.2	0	.69	2.05	4.31	9.72	
1708	HYDRO	OT				HYDRO	31.2	NA	NA	NA	NA	NA	
1714	102600157	OT				Lindsey Creek	52.2	0	.31	1.98	5.34	14.2	
1715	102600158	OT				Solomon River	6,080	37.8	69.4	183	510	1,780	
1761	102600152	OT				Coal Creek	51.2	0	1.29	4.10	9.78	22.9	
1770	102600156	OT				Solomon River	6,130	39.1	70.5	183	506	1,760	
1778	1026001527	OT				Salt Creek	468	1.92	4.82	14.3	35.8	121	
1794	102600155	OT				Solomon River	6,600	50.2	79.4	177	476	1,540	
1865	1026001557	OT				Battle Creek	25.3	0	.11	1.12	2.53	6.38	
1874	102600155	OT				Solomon River	6,640	51.0	80.1	177	473	1,520	
1902	102600154	OT				Sand Creek	57.8	0	1.47	3.80	8.42	19.3	
1907	102600155	OT				Solomon River	6,660	51.5	80.5	177	472	1,510	

Table 78. 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 Ottawa 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. 82)	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
1364	0.03	374	914	1,410	2,190	2,860	3,630
1365	NA	NA	NA	NA	NA	NA	NA
1383	561	3,300	6,470	8,970	12,000	14,300	16,600
1386	7.84	1,100	2,730	4,300	6,800	9,050	11,600
1442	3.68	928	2,360	3,720	5,910	7,810	10,000
1443	561	3,370	6,630	9,340	12,600	15,300	18,000
1484	12.6	1,410	3,430	5,380	8,470	11,200	14,400
1485	18.0	478	1,270	2,090	3,530	4,910	6,600
1487	2.59	621	1,600	2,520	4,000	5,300	6,800
1497	NA	NA	NA	NA	NA	NA	NA
1506	3.86	775	1,990	3,150	5,020	6,650	8,550
1508	NA	NA	NA	NA	NA	NA	NA
1520	13.7	1,450	3,390	5,220	8,070	10,600	13,400
1559	4.05	801	2,080	3,300	5,260	6,980	8,990
1597	9.08	993	2,500	3,960	6,310	8,420	10,800
1611	8.36	1,090	2,710	4,260	6,740	8,980	11,500
1613	561	3,450	6,800	9,730	13,300	16,300	19,400
1614	56.4	1,640	4,400	7,240	12,100	16,800	22,500
1649	6.42	1,080	2,810	4,470	7,150	9,500	12,300
1652	33.7	890	2,330	3,840	6,410	8,860	11,800
1653	70.4	1,430	4,030	6,800	11,700	16,600	22,500
1657	5.86	1,010	2,510	3,910	6,150	8,080	10,300
1658	70.6	1,430	4,030	6,810	11,700	16,600	22,500
1660	10.7	1,470	3,340	5,060	7,680	9,980	12,500
1662	33.8	885	2,320	3,820	6,390	8,840	11,800
1687	561	3,460	6,810	9,770	13,300	16,400	19,500
1693	7.96	1,190	3,000	4,690	7,410	9,760	12,500
1708	NA	NA	NA	NA	NA	NA	NA
1714	12.4	1,160	2,930	4,670	7,480	10,000	12,900
1715	561	3,710	7,340	11,000	15,400	19,600	24,000
1761	16.7	1,680	3,850	5,860	8,960	11,700	14,700
1770	561	3,810	7,560	11,500	16,300	20,900	25,800
1778	79.4	1,390	3,980	6,780	11,800	16,700	22,800
1794	562	4,660	9,370	15,700	23,500	31,800	41,200
1865	6.05	1,060	2,700	4,260	6,770	8,950	11,500
1874	562	4,730	9,510	16,000	24,100	32,700	42,400
1902	15.0	1,310	3,110	4,810	7,460	9,810	12,400
1907	562	4,760	9,590	16,200	24,400	33,100	43,000

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

Table 78. 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 Ottawa County.—Continued

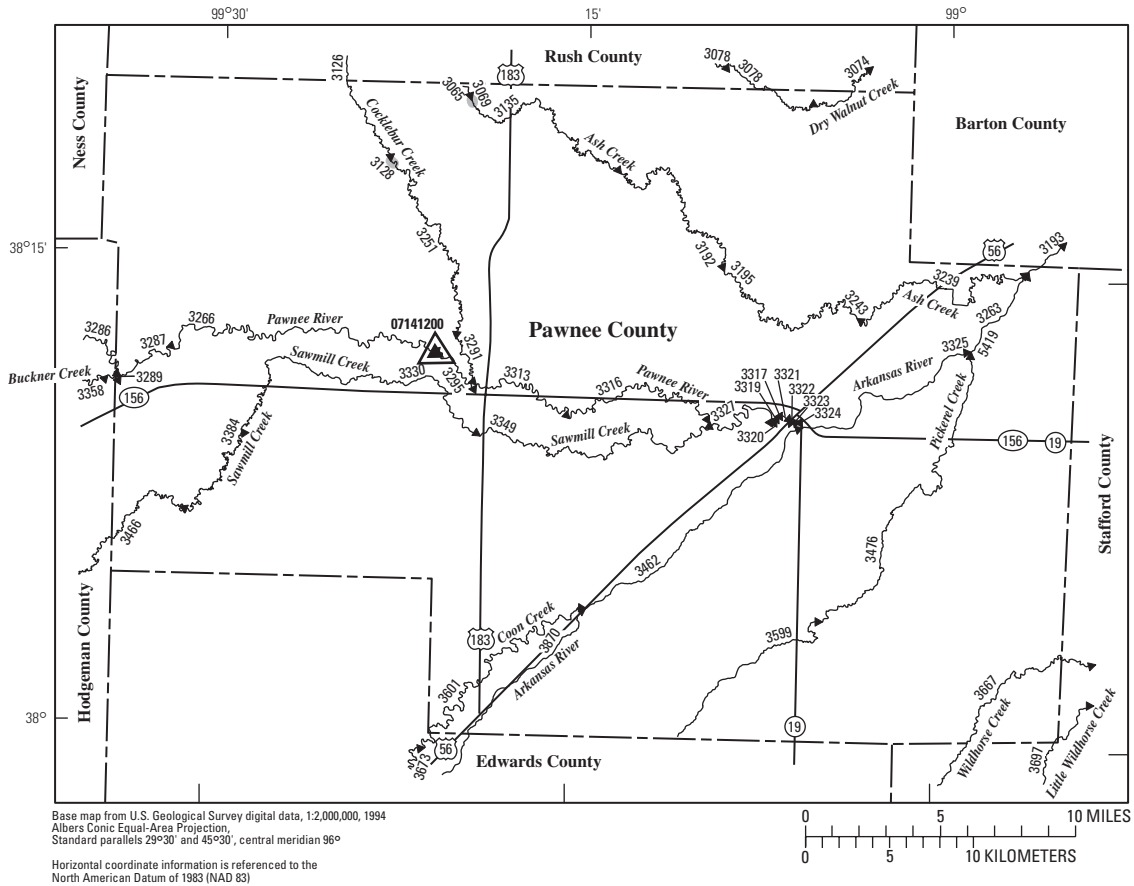
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 82)	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
		1908	1026001558	OT						Antelope Creek	16.4	0
1964	102600152	OT				Coal Creek	97.7	.21	2.68	7.35	17.4	40.7
1981	102600153	OT				Solomon River	6,750	53.6	82.2	176	466	1,470
1987	102600103	OT				Saline River	2,850	15.1	24.1	45.2	126	491
2011	102600102	OT	SA			Saline River	2,910	15.4	24.7	46.3	129	500
2060	102600102	OT	SA			Saline River	2,950	15.7	25.1	47.2	131	506
2089	102600151	OT	SA			Solomon River	6,890	57.0	85.0	174	457	1,400

Table 78. 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 Ottawa 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. 82)	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
1908	4.23	840	2,120	3,320	5,240	6,900	8,840
1964	28.7	1,820	4,250	6,530	10,100	13,300	16,800
1981	562	4,930	9,940	17,000	25,800	35,200	46,000
1987	212	2,530	5,040	6,800	8,990	10,500	12,000
2011	215	2,560	5,080	6,850	9,080	10,700	12,200
2060	218	2,570	5,110	6,900	9,150	10,800	12,400
2089	562	5,190	10,500	18,300	28,000	38,600	50,700



EXPLANATION

- ← 3601 **Location of streamflow-statistics determination site (small triangle) and associated identification number**—small triangle points in downstream direction
- 07141200 ▲ **U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration**
- 07141200 △ **U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values**
- 3069 — **Lake and determination site identification number**

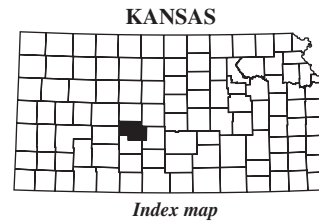


Figure 83. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Pawnee County.

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

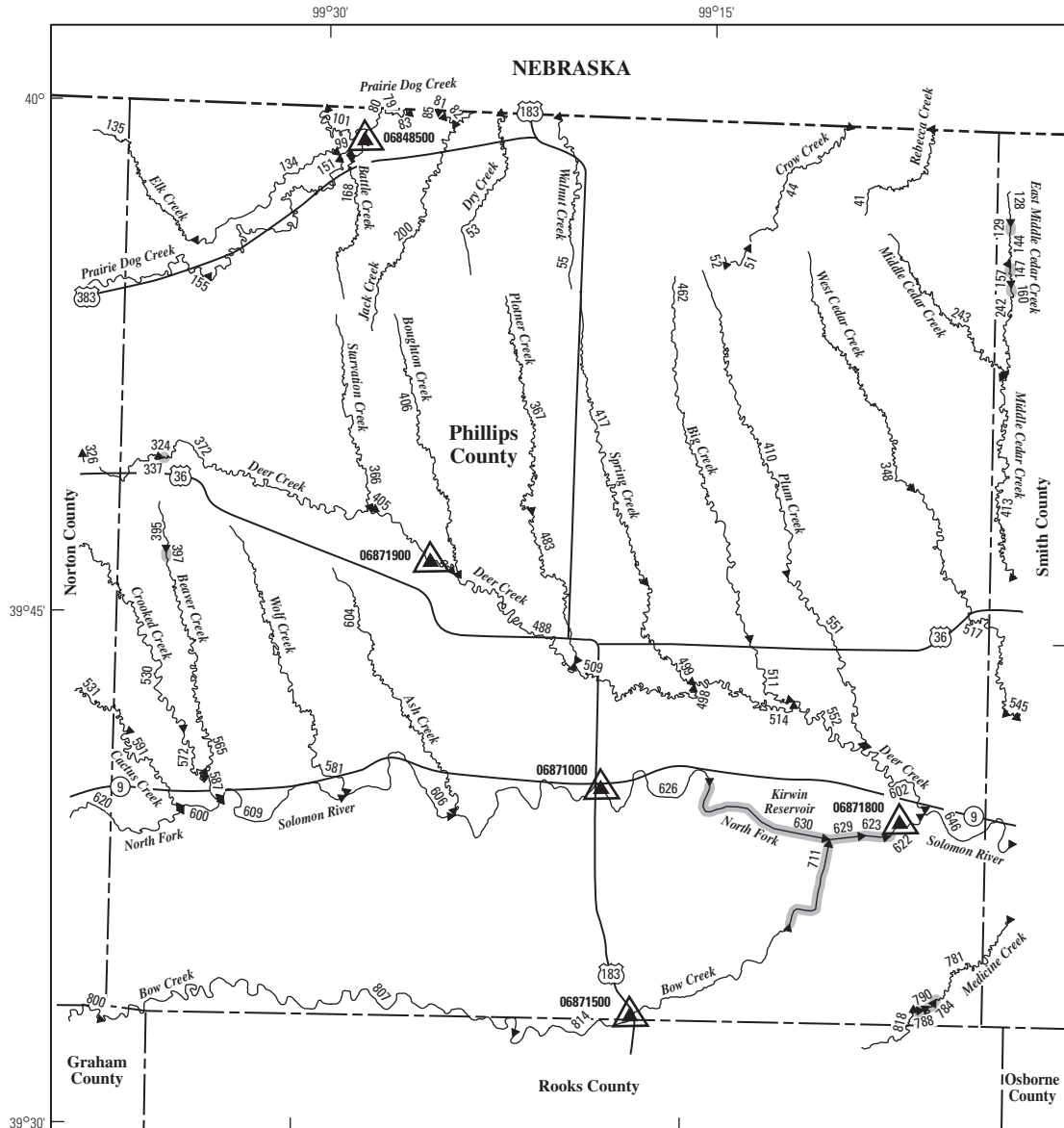
Table 79. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Pawnee County.

[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]

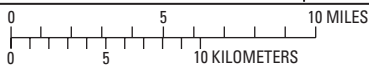
Determination site identification number (fig. 83)	KSWR CUSEGA number	Stream segment by county (table 112)				Stream name	Contributing drainage area (mi ²)	Estimated flow-duration values (ft ³ /s) for indicated percentage of time flow equaled or exceeded					
		1st	2nd	3rd	4th			90 percent	75 percent	50 percent	25 percent	10 percent	
		3065	110300043	PN	RH					Ash Creek	5.58	0	0
3069	HYDRO	PN				HYDRO	5.74	NA	NA	NA	NA	NA	NA
3078	110300049013	PN	RH			Dry Walnut Creek	49.3	0	0	0	0	0	.69
3126	1103000512	PN	RH			Cocklebur Creek	23.4	0	0	0	0	0	0
3128	HYDRO	PN				HYDRO	23.4	NA	NA	NA	NA	NA	NA
3135	110300043	PN				Ash Creek	36.9	0	0	0	0	0	0
3192	110300043	PN				Ash Creek	75.4	0	0	0	0	0	1.27
3195	110300043	PN				Ash Creek	77.3	0	0	0	0	0	1.40
3243	110300043	PN				Ash Creek	104	0	0	.03	.60	3.10	
3251	1103000512	PN				Cocklebur Creek	62.0	0	0	0	0	0	0
3266	110300052	PN				Pawnee River	2,100	0	0	3.70	15.0	59.0	
3287	110300052	PN				Pawnee River	2,040	0	0	3.43	14.1	55.5	
3291	1103000512	PN				Cocklebur Creek	64.4	0	0	0	0	0	0
3295	110300052	PN				Pawnee River	2,100	0	0	3.71	15.0	59.1	
3313	110300052	PN				Pawnee River	2,180	.23	.41	4.53	17.1	64.4	
3316	110300052	PN				Pawnee River	2,200	.30	.54	4.79	17.7	66.1	
3317	110300051	PN				Pawnee River	2,410	.93	1.67	7.01	23.0	80.3	
3319	110300051	PN				Pawnee River	2,410	.93	1.67	7.01	23.0	80.3	
3320	110300051	PN				Pawnee River	2,410	.93	1.67	7.01	23.0	80.3	
3321	110300051	PN				Pawnee River	2,410	.95	1.69	7.05	23.1	80.5	
3322	110300051	PN				Pawnee River	2,410	.95	1.69	7.05	23.1	80.5	
3323	110300051	PN				Pawnee River	2,410	.95	1.69	7.05	23.1	80.5	
3324	110300051	PN				Pawnee River	2,410	.95	1.69	7.05	23.1	80.5	
3325	110300045	PN				Arkansas River	31,100	2.28	6.16	39.5	142	329	
3327	110300051	PN				Pawnee River	2,410	.93	1.67	7.01	23.0	80.3	
3330	110300056	PN				Sawmill Creek	164	0	0	.14	1.14	4.70	
3349	110300056	PN				Sawmill Creek	195	0	0	.41	1.82	6.43	
3384	110300056	PN				Sawmill Creek	115	0	0	0	.49	2.87	
3462	110300046	PN				Arkansas River	28,600	.97	3.19	33.2	110	223	
3476	1103000413	PN				Pickerel Creek	167	.15	.88	1.64	3.21	7.75	
3599	1103000413	PN				Pickerel Creek	88.4	0	.10	.47	.74	2.32	
3667	110300092	PN	SF			Wildhorse Creek	125	.05	.85	1.62	2.90	6.27	
3697	110300096	PN	SF			Little Wild Horse Creek	35.0	0	0	0	0	0	
5419	1103000413	PN				Pickerel Creek	167	.15	.88	1.64	3.21	7.75	

Table 79. 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 Pawnee 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. 83)	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
3065	0	231	669	1,110	1,850	2,510	3,290
3069	NA	NA	NA	NA	NA	NA	NA
3078	2.81	580	1,680	2,830	4,790	6,650	8,810
3126	.03	501	1,510	2,570	4,360	6,000	7,950
3128	NA	NA	NA	NA	NA	NA	NA
3135	1.24	344	1,080	1,900	3,330	4,710	6,370
3192	3.70	503	1,540	2,690	4,680	6,610	8,920
3195	3.82	514	1,570	2,730	4,760	6,720	9,060
3243	5.41	532	1,630	2,840	4,970	7,030	9,500
3251	2.25	411	1,300	2,290	4,030	5,730	7,770
3266	63.2	2,250	4,530	6,530	9,620	12,300	15,400
3287	59.5	2,190	4,480	6,500	9,640	12,400	15,500
3291	2.38	413	1,310	2,300	4,070	5,780	7,850
3295	63.2	2,240	4,500	6,480	9,550	12,200	15,300
3313	66.9	2,290	4,640	6,710	9,940	12,700	16,000
3316	68.1	2,270	4,590	6,640	9,840	12,600	15,900
3317	77.6	2,430	5,020	7,340	11,000	14,200	18,000
3319	77.6	2,430	5,020	7,340	11,000	14,200	18,000
3320	77.6	2,430	5,020	7,340	11,000	14,200	18,000
3321	77.7	2,430	5,020	7,340	11,000	14,200	17,900
3322	77.7	2,430	5,020	7,340	11,000	14,200	17,900
3323	77.7	2,430	5,020	7,340	11,000	14,200	17,900
3324	77.7	2,430	5,020	7,340	11,000	14,200	17,900
3325	160	2,560	6,800	13,900	21,400	28,800	37,300
3327	77.6	2,430	5,020	7,340	11,000	14,200	18,000
3330	7.10	666	2,050	3,590	6,300	8,950	12,100
3349	8.72	637	1,990	3,520	6,240	8,910	12,200
3384	5.16	662	1,990	3,430	5,930	8,350	11,200
3462	110	927	3,700	9,390	16,900	26,000	38,700
3476	9.22	660	1,830	3,050	5,080	6,980	9,190
3599	4.44	508	1,410	2,340	3,880	5,310	6,970
3667	7.50	626	1,700	2,790	4,600	6,260	8,200
3697	1.37	330	953	1,610	2,710	3,730	4,920
5419	9.22	661	1,830	3,050	5,090	6,980	9,200



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

- ← 800 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06871900 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06871000 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 630 Lake and determination site identification number

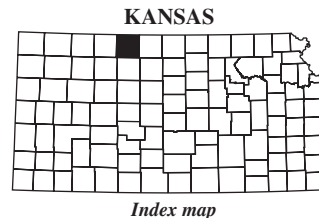


Figure 84. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Phillips County.

Table 80. 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 Phillips 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. 84)	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	
		41	1025001639	PL						Rebecca Creek	14.4	0	0
44	1025001652	PL				Crow Creek	28.0	0	0	0	0	0	.44
51	1025001652	PL				Crow Creek	5.49	0	0	0	0	0	0
52	1025001652	PL				Crow Creek	3.12	0	0	0	0	0	0
53	1025001523	PL				Dry Creek	15.5	0	0	0	0	0	0
55	1025001513	PL				Walnut Creek	22.9	0	0	0	0	0	0
79	102500152	PL				Prairie Dog Creek	949	0	2.57	7.44	19.0	42.5	
80	102500152	PL				Prairie Dog Creek	949	0	2.57	7.44	19.0	42.5	
81	102500152	PL				Prairie Dog Creek	957	0	2.63	7.57	19.3	43.3	
82	102500152	PL				Prairie Dog Creek	957	0	2.63	7.57	19.3	43.3	
83	102500152	PL				Prairie Dog Creek	951	0	2.58	7.47	19.0	42.7	
85	102500152	PL				Prairie Dog Creek	15.2	0	0	0	0	0	
99	102500152	PL				Prairie Dog Creek	910	0	0	1.86	6.99	15.1	
101	102500152	PL				Prairie Dog Creek	930	0	0	2.00	7.50	16.0	
134	102500153	PL				Elk Creek	44.8	0	0	0	0	.72	
151	102500152	PL				Prairie Dog Creek	865	0	0	1.55	5.85	13.0	
168	1025001524	PL				Battle Creek	9.22	0	0	0	0	0	
200	1025001522	PL				Jack Creek	14.9	0	0	0	0	0	
243	1026001219	PL	SM			Middle Cedar Creek	19.5	0	0	0	0	0	
324	HYDRO	PL				HYDRO	6.67	NA	NA	NA	NA	NA	
348	1026001220	PL				West Cedar Creek	35.8	0	0	0	.04	1.03	
366	1026001238	PL				Starvation Creek	21.8	0	0	.06	.08	.16	
367	1026001230	PL				Plotner Creek	23.7	0	0	0	0	0	
372	1026001231	PL				Deer Creek	34.0	0	0	.14	.20	.40	
395	1026001123	PL				Beaver Creek	5.31	0	0	0	0	0	
397	HYDRO	PL				HYDRO	5.41	NA	NA	NA	NA	NA	
405	1026001231	PL				Deer Creek	62.9	0	0	.69	1.50	2.70	
406	1026001234	PL				Boughton Creek	23.7	0	0	0	0	0	
410	1026001224	PL				Plum Creek	30.8	0	0	0	0	.45	
417	1026001228	PL				Spring Creek	29.0	0	0	0	0	0	
462	1026001226	PL				Big Creek	36.1	0	0	0	0	.73	
483	1026001230	PL				Plotner Creek	35.6	0	0	0	0	.28	
488	1026001231	PL				Deer Creek	105	0	0	1.46	3.44	7.07	
498	1026001229	PL				Spring Creek	152	0	.11	2.26	5.47	11.8	
499	1026001228	PL				Spring Creek	37.9	0	0	0	0	.76	
509	1026001229	PL				Deer Creek	152	0	.11	2.26	5.47	11.8	
511	1026001226	PL				Big Creek	40.4	0	0	0	.09	1.18	
514	1026001227	PL				Deer Creek	197	0	.47	3.08	7.54	16.7	

Table 80. 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 Phillips 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. 84)	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
41	0.59	460	1,310	2,170	3,600	4,880	6,390
44	1.99	657	1,920	3,200	5,360	7,310	9,630
51	0	253	714	1,170	1,930	2,610	3,410
52	0	181	506	826	1,350	1,820	2,370
53	.46	443	1,290	2,150	3,600	4,910	6,450
55	1.27	562	1,650	2,760	4,630	6,310	8,320
79	30.7	1,110	2,980	4,920	8,260	11,400	15,300
80	30.7	1,110	2,980	4,920	8,260	11,400	15,300
81	31.2	1,110	3,000	4,950	8,310	11,500	15,400
82	31.2	1,110	2,990	4,950	8,300	11,500	15,300
83	30.8	1,110	2,980	4,920	8,260	11,400	15,300
85	.37	436	1,270	2,120	3,550	4,840	6,370
99	10.7	611	1,500	2,170	3,000	3,570	4,080
101	11.1	652	1,610	2,330	3,220	3,830	4,380
134	2.54	417	1,250	2,160	3,720	5,200	6,950
151	9.78	519	1,270	1,830	2,510	2,980	3,400
168	0	327	943	1,570	2,600	3,540	4,640
200	.34	431	1,260	2,100	3,510	4,790	6,300
243	1.08	543	1,540	2,540	4,210	5,710	7,490
324	NA	NA	NA	NA	NA	NA	NA
348	2.59	511	1,460	2,460	4,130	5,710	7,530
366	.83	601	1,760	2,960	4,990	6,830	9,060
367	1.12	570	1,680	2,810	4,710	6,440	8,490
372	1.65	606	1,760	2,970	5,060	7,030	9,400
395	0	218	635	1,060	1,760	2,400	3,150
397	NA	NA	NA	NA	NA	NA	NA
405	4.04	1,210	3,430	5,760	9,790	13,600	18,300
406	1.09	564	1,660	2,790	4,690	6,400	8,450
410	2.08	493	1,410	2,360	3,960	5,460	7,190
417	1.71	650	1,910	3,210	5,390	7,360	9,710
462	2.41	528	1,500	2,520	4,230	5,840	7,690
483	2.11	439	1,290	2,200	3,750	5,220	6,930
488	7.48	1,360	3,830	6,440	10,900	15,200	20,400
498	11.2	1,490	4,210	7,060	12,000	16,700	22,400
499	2.46	474	1,380	2,340	3,970	5,500	7,290
509	11.2	1,490	4,210	7,060	12,000	16,700	22,400
511	2.78	534	1,530	2,570	4,330	5,980	7,890
514	14.8	1,610	4,520	7,580	12,900	17,900	24,000

Table 80. 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 Phillips 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. 84)	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
		517	1026001220	PL	SM					West Cedar Creek	65.5	0
551	1026001224	PL				Plum Creek	51.6	0	0	.13	.63	2.40
552	1026001225	PL				Deer Creek	244	0	.86	3.99	9.82	22.0
565	1026001123	PL				Beaver Creek	21.0	0	0	0	0	0
572	102600116	PL				Crooked Creek	25.3	0	0	0	0	0
581	1026001122	PL				Wolf Creek	28.0	0	0	0	0	0
587	102600116	PL				Crooked Creek	46.8	0	0	0	0	.23
591	1026001128	PL				Cactus Creek	29.4	0	0	0	0	0
600	102600117	PL				North Fork Solomon River	788	0	0	5.27	14.5	32.1
602	1026001223	PL				Deer Creek	305	0	1.35	5.16	12.7	29.0
604	1026001124	PL				Ash Creek	29.6	0	0	0	0	0
606	102600115	PL				North Fork Solomon River	898	0	0	6.91	18.4	40.5
609	102600115	PL				North Fork Solomon River	856	0	0	6.25	16.8	37.1
622	1026001222	PL				North Fork Solomon River	1,470	0	0	.03	.12	.50
623	HYDRO	PL				HYDRO	1,470	NA	NA	NA	NA	NA
626	102600115	PL				North Fork Solomon River	979	0	.20	8.40	22.0	48.0
629	HYDRO	PL				HYDRO	1,470	NA	NA	NA	NA	NA
630	HYDRO	PL				HYDRO	996	NA	NA	NA	NA	NA
646	1026001222	PL	SM			North Fork Solomon River	1,790	8.48	14.1	24.0	53.0	115
711	HYDRO	PL				HYDRO	468	NA	NA	NA	NA	NA
781	1026001233	PL	SM			Medicine Creek	56.3	0	0	.07	.49	2.26
784	HYDRO	PL				HYDRO	30.0	NA	NA	NA	NA	NA
788	HYDRO	PL				HYDRO	28.1	NA	NA	NA	NA	NA
790	1026001233	PL				Medicine Creek	29.9	0	0	0	0	0
814	1026001115	PL	RO			Bow Creek	457	.44	2.60	5.60	10.0	18.0
818	1026001233	PL	RO			Medicine Creek	27.7	0	0	0	0	0

Table 80. 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 Phillips 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. 84)	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
517	4.81	634	1,820	3,070	5,190	7,200	9,550
551	3.79	603	1,720	2,880	4,850	6,700	8,850
552	18.7	1,740	4,850	8,120	13,800	19,100	25,600
565	.35	475	1,430	2,420	4,100	5,630	7,460
572	.65	527	1,600	2,710	4,600	6,330	8,390
581	.98	571	1,720	2,920	4,960	6,810	9,030
587	2.14	478	1,420	2,420	4,130	5,760	7,670
591	.88	562	1,720	2,920	4,980	6,870	9,130
600	21.0	1,360	4,160	7,250	12,800	18,300	25,100
602	23.6	1,890	5,250	8,770	14,800	20,500	27,500
604	1.40	625	1,860	3,140	5,300	7,260	9,610
606	24.6	1,490	4,520	7,870	13,900	19,900	27,200
609	23.2	1,440	4,390	7,640	13,500	19,300	26,400
622	8.76	18	188	606	2,010	4,240	8,180
623	NA	NA	NA	NA	NA	NA	NA
626	27.9	1,580	4,790	8,320	14,700	21,000	28,800
629	NA	NA	NA	NA	NA	NA	NA
630	NA	NA	NA	NA	NA	NA	NA
646	69.5	2,020	4,510	6,800	10,500	13,800	17,600
711	NA	NA	NA	NA	NA	NA	NA
781	3.88	666	1,870	3,110	5,200	7,150	9,410
784	NA	NA	NA	NA	NA	NA	NA
788	NA	NA	NA	NA	NA	NA	NA
790	1.36	677	1,980	3,310	5,560	7,580	10,000
814	13.7	926	2,960	5,320	9,790	14,400	20,200
818	1.18	648	1,890	3,160	5,300	7,230	9,530

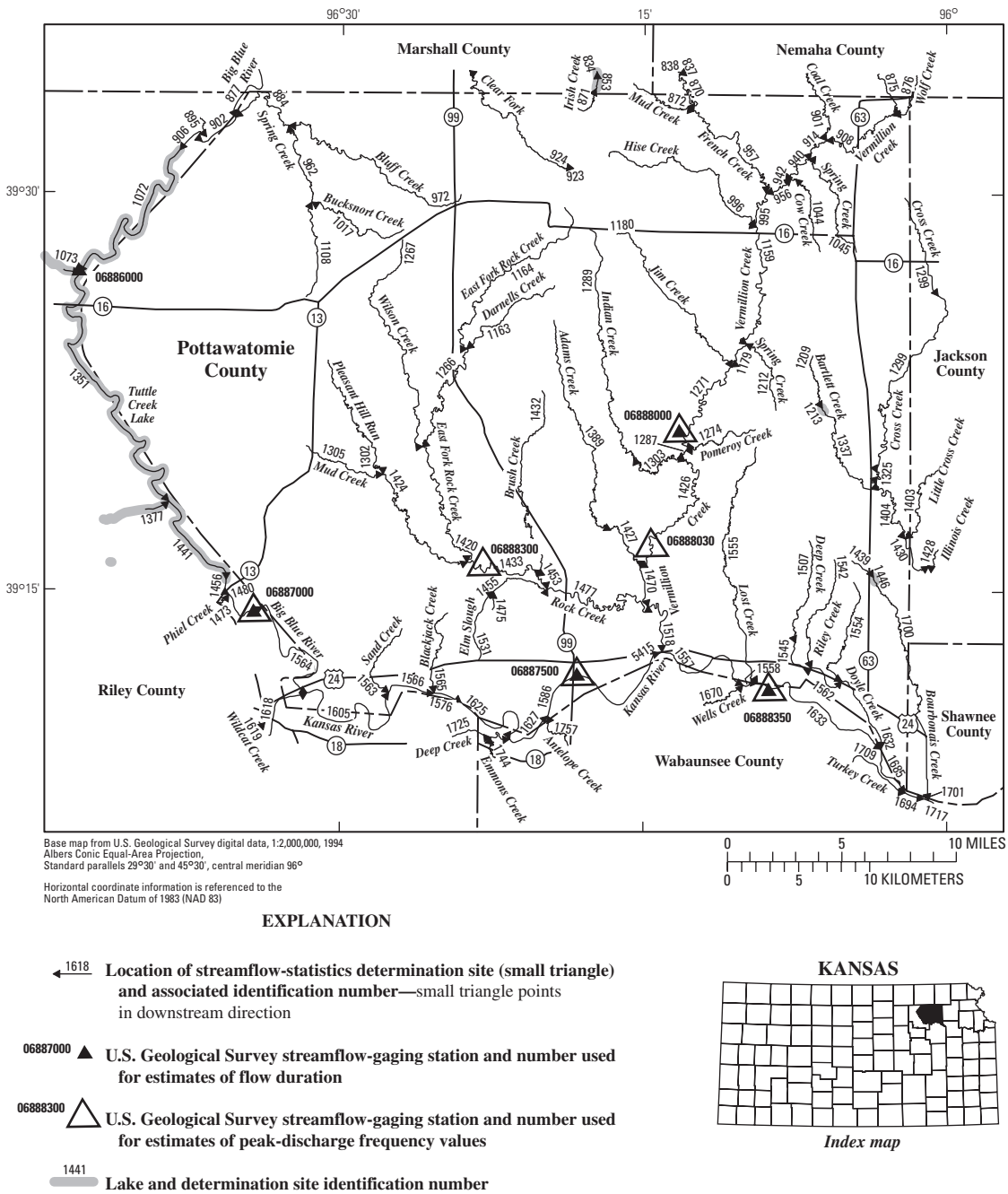


Figure 85. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Pottawatomie County.

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

Table 81. 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 Pottawatomie 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. 85)	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
908	1027010218	PT				Vermillion Creek	48.1	0.01	0.22	3.50	12.5	36.9
914	1027010218	PT				Vermillion Creek	78.7	.02	.68	5.56	19.4	56.8
923	102702059	PT				Clear Fork	2.32	0	0	0	0	0
940	1027010218	PT				Vermillion Creek	95.1	.03	.90	6.71	23.3	67.9
942	1027010245	PT				Cow Creek	8.86	0	0	.77	2.68	7.97
956	1027010218	PT				Vermillion Creek	105	.03	1.07	7.49	25.8	74.8
957	1027010219	PT				French Creek	60.2	.01	.41	4.24	14.9	43.4
962	1027020565	PT				Spring Creek	49.3	0	.24	3.40	12.1	35.7
972	10270205573	PT				Bluff Creek	34.0	0	0	2.44	8.76	26.0
995	1027010217	PT				Vermillion Creek	167	.08	1.67	11.1	36.8	105
996	1027010243	PT				Hise Creek	23.9	0	.01	2.18	7.37	20.8
1017	10270205566	PT				Bucksnort Creek	9.37	0	0	.46	1.91	6.36
1044	1027010245	PT				Cow Creek	8.72	0	0	.75	2.63	7.83
1045	1027010248	PT				Spring Creek	14.4	0	0	1.14	4.27	12.8
1072	HYDRO	PT	RL			HYDRO	9,220	NA	NA	NA	NA	NA
1108	1027020565	PT				Spring Creek	31.7	0	0	1.90	6.98	21.2
1159	1027010217	PT				Vermillion Creek	207	.12	2.12	13.9	44.8	124
1163	1027010251	PT				Darnells Creek	10.0	0	0	.73	2.70	8.25
1164	1027010222	PT				East Fork Rock Creek	24.6	0	0	1.86	6.69	19.8
1179	1027010217	PT				Vermillion Creek	216	.13	2.18	14.5	46.3	128
1180	1027010252	PT				Jim Creek	26.2	0	.14	2.66	8.84	24.5
1209	1027010255	PT				Bartlett Creek	11.8	0	0	.95	3.51	10.6
1212	1027010254	PT				Spring Creek	7.58	0	0	.50	1.91	6.13
1213	HYDRO	PT				HYDRO	12.4	NA	NA	NA	NA	NA
1266	1027010222	PT				East Fork Rock Creek	46.6	0	.32	3.67	12.9	38.0
1267	1027010250	PT				Wilson Creek	27.1	0	0	1.91	6.83	20.3
1271	1027010217	PT				Vermillion Creek	253	.40	2.50	17.0	53.0	143
1274	1027010259	PT				Pomeroy Creek	5.54	0	0	.55	1.75	5.22
1287	1027010217	PT				Vermillion Creek	258	.43	2.63	17.6	54.9	149
1289	1027010220	PT				Indian Creek	26.7	0	0	2.30	7.99	23.1
1302	1027010223	PT				Pleasant Hill Run	23.6	0	0	1.46	5.34	16.1
1303	1027010220	PT				Indian Creek	31.7	0	.15	2.77	9.49	27.3
1305	1027010256	PT				Mud Creek	27.9	0	0	2.18	7.41	21.2
1325	1027010212	PT				Cross Creek	46.7	0	.21	3.44	12.8	38.8
1337	1027010255	PT				Bartlett Creek	25.1	0	0	2.09	7.49	22.1
1351	HYDRO	PT	RL			HYDRO	9,550	NA	NA	NA	NA	NA
1389	1027010253	PT				Adams Creek	22.7	0	0	1.61	5.92	17.8
1404	1027010212	PT				Cross Creek	76.4	0	.84	5.85	21.1	64.0

Table 81. 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 Pottawatomie 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. 85)	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
908	27.7	3,160	6,860	10,200	15,200	19,700	24,500
914	41.2	4,150	8,800	12,900	19,200	24,600	30,600
923	.88	449	961	1,400	2,060	2,600	3,220
940	48.4	4,540	9,560	14,000	20,700	26,600	33,000
942	6.47	1,050	2,270	3,320	4,920	6,260	7,780
956	52.6	4,690	9,860	14,400	21,300	27,300	33,900
957	32.2	3,420	7,420	11,000	16,500	21,300	26,600
962	26.8	5,030	10,100	14,400	20,900	26,400	32,300
972	19.9	4,000	8,160	11,800	17,100	21,700	26,600
995	70.3	5,940	12,200	17,600	25,700	32,600	40,200
996	15.7	1,820	4,030	5,970	8,970	11,500	14,400
1017	5.65	963	2,140	3,180	4,780	6,110	7,640
1044	6.37	1,040	2,240	3,290	4,870	6,190	7,690
1045	10.2	1,390	3,030	4,460	6,640	8,460	10,500
1072	NA	NA	NA	NA	NA	NA	NA
1108	16.9	4,620	9,160	13,000	18,600	23,400	28,400
1159	80.0	6,290	12,800	18,300	26,500	33,500	41,100
1163	6.75	1,040	2,280	3,370	5,050	6,440	8,040
1164	15.3	1,750	3,890	5,780	8,700	11,200	14,000
1179	81.6	6,380	13,000	18,500	26,700	33,700	41,400
1180	17.8	1,910	4,240	6,310	9,480	12,100	15,200
1209	8.48	1,230	2,670	3,930	5,850	7,460	9,290
1212	5.28	933	2,020	2,960	4,400	5,590	6,960
1213	NA	NA	NA	NA	NA	NA	NA
1266	27.9	3,740	7,700	11,200	16,400	20,900	25,700
1267	15.9	1,790	4,020	6,000	9,070	11,600	14,600
1271	87.4	6,190	12,600	17,900	25,800	32,400	39,700
1274	4.23	769	1,660	2,430	3,590	4,560	5,670
1287	90.7	6,250	12,300	17,300	24,700	30,900	37,700
1289	17.4	1,890	4,190	6,220	9,360	12,000	15,000
1302	13.0	1,590	3,600	5,390	8,160	10,500	13,200
1303	20.3	3,190	6,630	9,630	14,100	18,000	22,100
1305	16.0	1,720	3,900	5,860	8,900	11,500	14,400
1325	29.4	4,140	8,530	12,400	18,100	23,100	28,500
1337	16.9	1,890	4,190	6,220	9,340	12,000	15,000
1351	NA	NA	NA	NA	NA	NA	NA
1389	14.0	1,670	3,750	5,590	8,450	10,800	13,600
1404	46.4	5,040	10,300	14,900	21,900	27,900	34,400

Table 81. 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 Pottawatomie 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. 85)	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
1420	1027010222	PT				East Fork Rock Creek	86.3	0	1.06	6.49	22.5	66.9
1424	1027010223	PT				Pleasant Hill Run	70.0	0	1.38	6.54	20.1	54.7
1426	1027010216	PT				Vermillion Creek	302	.71	3.46	21.1	66.7	186
1427	1027010253	PT				Adams Creek	27.0	0	0	1.94	7.00	20.9
1432	1027010257	PT				Brush Creek	26.3	0	0	1.76	6.42	19.3
1433	1027010221	PT				Rock Creek	160	0	3.00	13.4	43.3	126
1439	1027010263	PT				Bourbonais Creek	3.30	0	0	0	.20	1.64
1441	HYDRO	PT	RL			HYDRO	9,620	NA	NA	NA	NA	NA
1446	HYDRO	PT				HYDRO	3.47	NA	NA	NA	NA	NA
1453	1027010221	PT				Rock Creek	187	0	3.40	15.1	49.4	145
1455	1027010258	PT				Elm Slough	15.0	2.29	4.48	7.06	11.3	19.1
1470	1027010216	PT				Vermillion Creek	331	.88	3.98	23.3	73.9	210
1475	1027010258	PT				Elm Slough	2.58	.40	.80	1.50	2.28	2.43
1477	1027010221	PT				Rock Creek	215	1.11	6.33	23.6	68.2	184
1480	102702052	PT	RL			Big Blue River	9,630	178	444	974	2,450	6,500
1507	102701021229	PT				Deep Creek	14.1	0	0	1.38	4.56	12.9
1518	1027010215	PT				Vermillion Creek	551	3.36	11.2	50.5	150	423
1531	1027010258	PT				Elm Slough	8.40	2.48	3.85	5.01	7.12	11.1
1542	102701021223	PT				Riley Creek	6.14	0	0	.80	2.13	5.76
1545	102701021229	PT				Deep Creek	16.2	0	.42	2.34	6.37	16.0
1554	1027010269	PT				Doyle Creek	7.17	0	0	.96	2.55	6.71
1555	1027010260	PT				Lost Creek	29.3	0	1.03	4.19	11.5	28.5
1557	1027010214	PT	WB			Kansas River	54,400	949	1,750	3,400	7,650	18,200
1558	1027010214	PT	WB			Kansas River	54,400	952	1,760	3,430	7,700	18,400
1562	102701021223	PT	WB			Riley Creek	23.7	0	.81	3.54	9.67	24.0
1563	1027010265	PT				Sand Creek	13.6	1.37	3.05	5.05	8.45	15.0
1564	102702051	PT	RL			Big Blue River	9,650	178	444	975	2,450	6,500
1565	1027010264	PT				Blackjack Creek	8.17	2.79	4.17	5.22	7.18	10.9
1566	1027010225	PT				Kansas River	53,700	840	1,350	2,700	6,290	13,500
1576	1027010225	PT				Kansas River	53,700	841	1,350	2,700	6,300	13,500
1586	1027010224	PT	WB			Kansas River	53,900	846	1,360	2,720	6,340	13,600
1605	1027010225	PT	RL			Kansas River	53,700	839	1,350	2,700	6,290	13,500
1618	102701011	PT	RL			Kansas River	44,000	431	676	1,420	3,470	7,780
1625	1027010224	PT	WB			Kansas River	53,700	841	1,350	2,700	6,300	13,500
1627	1027010224	PT	WB			Kansas River	53,800	844	1,360	2,710	6,320	13,500
1632	1027010269	PT				Doyle Creek	36.6	0	1.65	5.81	15.4	37.5
1633	1027010214	PT	WB			Kansas River	54,500	960	1,790	3,480	7,800	18,700
1685	1027010214	PT	WB			Kansas River	54,500	961	1,790	3,460	7,760	18,600

Table 81. 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 Pottawatomie 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. 85)	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
1420	47.7	4,600	9,100	13,000	18,800	23,800	29,300
1424	37.8	3,720	7,440	10,700	15,500	19,600	24,000
1426	113	6,610	9,650	11,800	14,600	16,800	19,100
1427	16.3	1,840	4,160	6,220	9,420	12,100	15,200
1432	15.3	1,790	4,050	6,070	9,190	11,800	14,900
1433	83.4	5,880	10,100	13,400	18,100	21,900	26,100
1439	2.05	581	1,240	1,800	2,640	3,340	4,130
1441	NA	NA	NA	NA	NA	NA	NA
1446	NA	NA	NA	NA	NA	NA	NA
1453	96.0	6,460	11,200	15,000	20,500	24,900	29,800
1455	10.8	1,280	2,880	4,290	6,460	8,280	10,400
1470	126	6,910	10,300	12,700	15,900	18,500	21,300
1475	1.52	463	1,000	1,460	2,160	2,740	3,400
1477	113	5,650	9,510	12,500	16,600	19,900	23,500
1480	2,490	16,600	25,500	36,300	42,000	46,800	49,600
1507	9.92	1,330	2,930	4,320	6,460	8,250	10,300
1518	235	8,560	13,200	16,600	21,400	25,200	29,300
1531	6.30	917	2,030	3,010	4,500	5,750	7,180
1542	4.58	831	1,790	2,620	3,880	4,920	6,110
1545	11.5	1,440	3,180	4,710	7,050	9,010	11,300
1554	5.26	910	1,970	2,880	4,270	5,430	6,750
1555	19.6	2,010	4,490	6,700	10,100	13,000	16,300
1557	7,030	33,300	59,300	81,700	116,000	149,000	185,000
1558	7,080	33,500	59,400	81,900	116,000	149,000	184,000
1562	16.6	1,800	4,010	5,950	8,950	11,500	14,400
1563	9.03	1,160	2,620	3,920	5,920	7,610	9,550
1564	2,490	16,600	25,500	36,300	42,000	46,900	49,700
1565	6.10	894	1,980	2,940	4,400	5,620	7,020
1566	5,620	28,500	54,200	77,900	108,000	155,000	201,000
1576	5,620	28,500	54,200	78,000	108,000	155,000	201,000
1586	5,650	28,600	54,500	78,400	108,000	156,000	202,000
1605	5,610	28,500	54,200	77,900	107,000	155,000	201,000
1618	3,150	19,600	32,400	45,800	74,900	105,000	143,000
1625	5,620	28,500	54,200	78,000	108,000	155,000	201,000
1627	5,640	28,600	54,400	78,300	108,000	156,000	202,000
1632	24.8	2,980	5,960	8,490	12,200	15,300	18,600
1633	7,180	33,800	59,800	82,100	117,000	148,000	183,000
1685	7,140	33,900	60,100	82,600	117,000	149,000	185,000

Table 81. 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 Pottawatomie County.—Continued

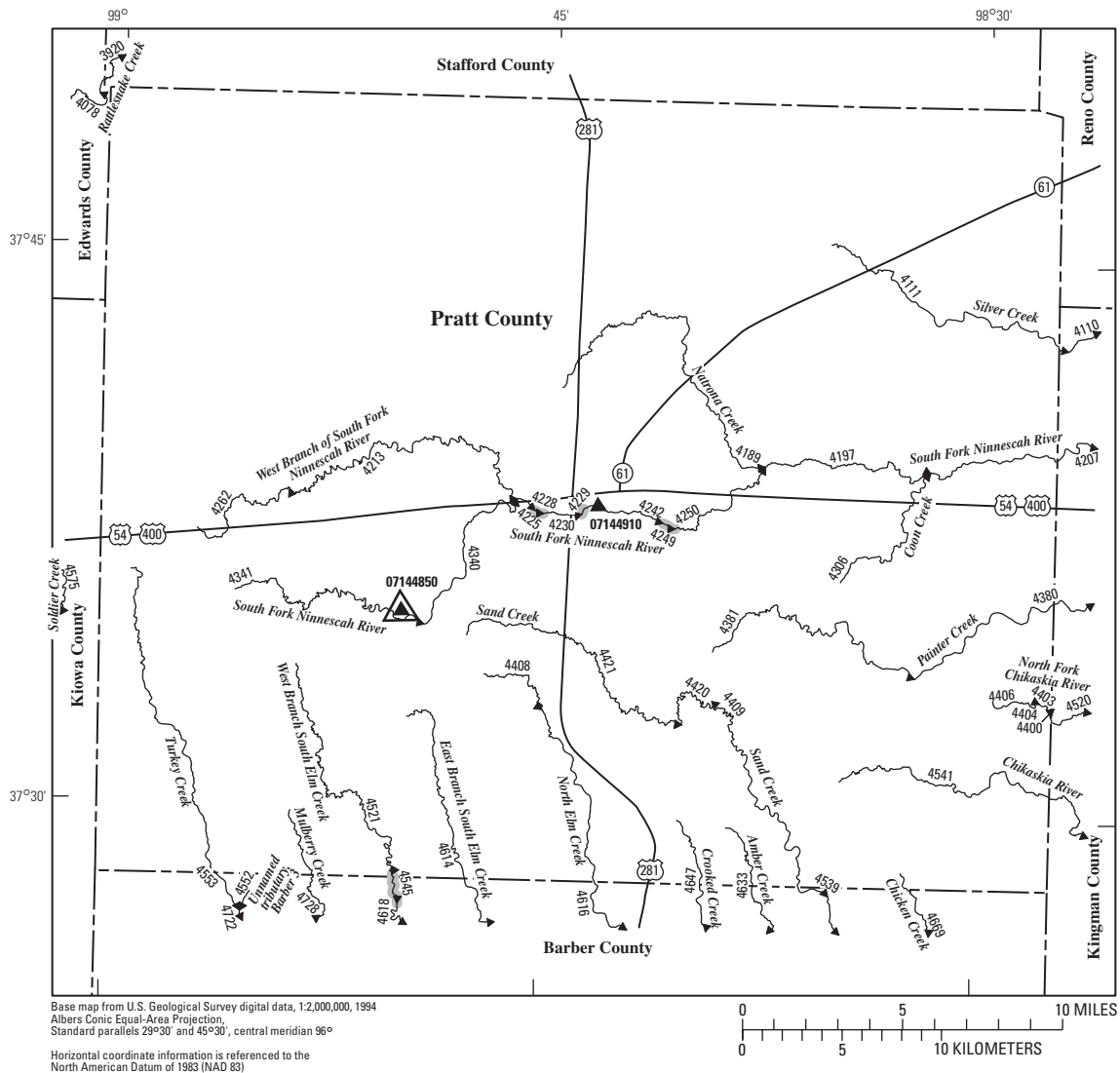
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 85)	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
		1694	1027010214	PT	SN					Kansas River	54,500	961
1700	1027010263	PT	SN			Bourbonais Creek	22.9	0	1.36	4.32	10.7	24.7
1709	1027010271	PT	WB			Turkey Creek	25.8	0	.49	2.89	8.49	22.4
1757	1027010267	PT	WB			Antelope Creek	21.8	0	.97	3.46	8.71	20.7
5415	1027010224	PT				Kansas River	53,900	846	1,360	2,720	6,340	13,600

Table 81. 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 Pottawatomie 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. 85)	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
1694	7,120	34,000	60,400	83,000	117,000	150,000	186,000
1700	16.5	1,800	3,980	5,900	8,860	11,300	14,200
1709	16.5	1,880	4,190	6,230	9,390	12,000	15,100
1757	14.2	1,620	3,650	5,450	8,220	10,600	13,300
5415	5,650	28,600	54,500	78,400	108,000	156,000	202,000



EXPLANATION

- ← 4614 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 07144910 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 07144850 ▽ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 4545 Lake and determination site identification number

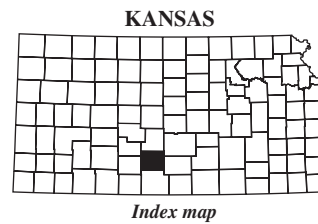


Figure 86. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Pratt County.

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

Table 82. 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 Pratt County.

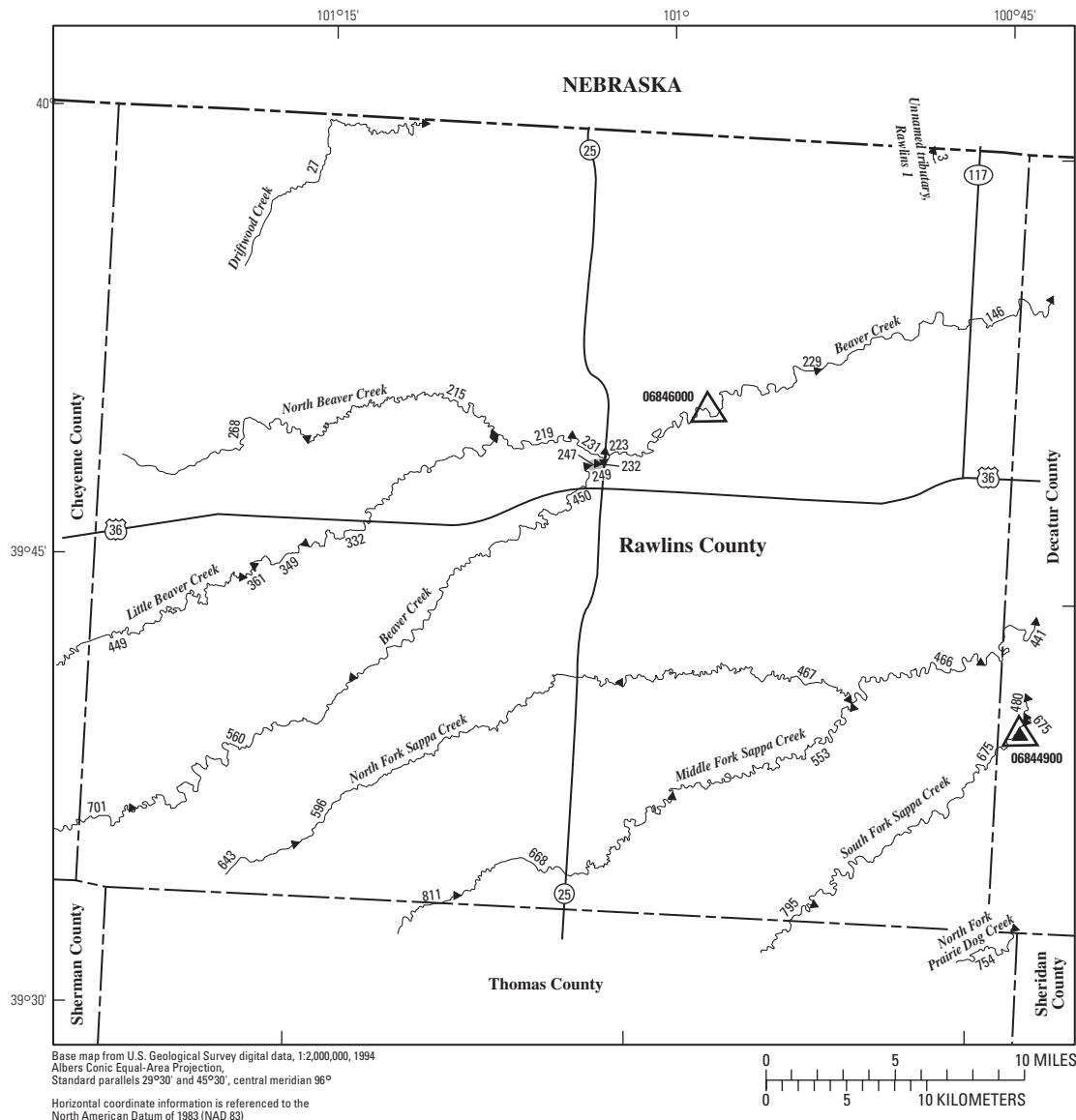
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 86)	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
4189	11030015307	PR				Natrona Creek	71.4	0.91	2.17	3.27	5.07	9.25
4197	110300154	PR				South Fork Ninnescah River	261	18.3	26.2	34.3	46.5	67.3
4213	110300155	PR				West Branch of South Fork Ninnescah River	103	3.36	5.11	6.30	7.93	11.5
4225	110300154	PR				South Fork Ninnescah River	141	5.37	7.67	9.64	12.1	16.9
4228	HYDRO	PR				HYDRO	142	NA	NA	NA	NA	NA
4229	HYDRO	PR				HYDRO	146	NA	NA	NA	NA	NA
4230	110300154	PR				South Fork Ninnescah River	145	5.53	7.90	9.98	12.6	17.7
4242	110300154	PR				South Fork Ninnescah River	157	6.00	8.60	11.0	14.0	20.0
4249	HYDRO	PR				HYDRO	159	NA	NA	NA	NA	NA
4250	110300154	PR				South Fork Ninnescah River	170	7.54	10.9	14.1	18.4	26.5
4262	110300155	PR				West Branch of South Fork Ninnescah River	39.7	.92	1.00	1.20	1.46	1.93
4306	110300159	PR				Coon Creek	15.3	.03	.04	.05	.06	.09
4340	110300156	PR				South Fork Ninnescah River	36.5	.40	.42	.95	1.12	2.28
4341	110300156	PR				South Fork Ninnescah River	23.1	0	0	0	0	0
4381	110300157	PR				Painter Creek	27.6	.10	.14	.45	.51	1.52
4400	1106000537	PR				North Fork Chikaskia River	6.36	0	0	0	0	.01
4403	1106000537	PR				North Fork Chikaskia River	6.38	0	0	0	0	.01
4404	1106000537	PR				North Fork Chikaskia River	6.38	0	0	0	0	.01
4406	1106000537	PR				North Fork Chikaskia River	6.36	0	0	0	0	.01
4408	110600034	PR				North Elm Creek	7.13	0	0	0	0	0
4409	1106000511	PR				Sand Creek	28.4	.01	.02	.04	.09	.27
4420	1106000511	PR				Sand Creek	28.3	.01	.02	.04	.09	.27
4421	1106000511	PR				Sand Creek	23.4	.01	.02	.03	.06	.13
4521	110600039005	PR				West Branch South Elm Creek	25.4	0	.02	.02	.02	.21

Table 82. 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 Pratt 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. 86)	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
4189	8.88	927	2,250	3,500	5,450	7,190	9,120
4197	53.5	2,600	5,540	8,010	11,600	14,700	17,900
4213	11.4	873	2,110	3,260	5,070	6,650	8,420
4225	16.9	1,520	3,110	4,430	6,300	7,890	9,510
4228	NA	NA	NA	NA	NA	NA	NA
4229	NA	NA	NA	NA	NA	NA	NA
4230	17.6	1,570	3,230	4,610	6,560	8,210	9,910
4242	19.3	1,690	3,500	5,000	7,150	8,970	10,900
4249	NA	NA	NA	NA	NA	NA	NA
4250	23.9	1,790	3,740	5,360	7,690	9,660	11,700
4262	3.27	417	1,070	1,710	2,720	3,620	4,630
4306	1.58	635	1,690	2,720	4,390	5,850	7,580
4340	4.67	575	1,050	1,440	1,960	2,430	2,860
4341	2.63	712	1,500	2,190	3,240	4,150	5,160
4381	3.00	871	2,370	3,830	6,240	8,380	10,900
4400	.01	404	1,040	1,650	2,620	3,470	4,460
4403	.01	405	1,050	1,650	2,630	3,480	4,470
4404	.01	405	1,050	1,650	2,630	3,480	4,470
4406	.01	404	1,040	1,650	2,620	3,470	4,460
4408	0	380	1,010	1,630	2,620	3,500	4,520
4409	2.28	858	2,350	3,820	6,250	8,390	10,900
4420	2.28	857	2,350	3,820	6,240	8,390	10,900
4421	1.68	765	2,090	3,390	5,530	7,430	9,660
4521	2.07	776	2,140	3,490	5,710	7,680	10,000



EXPLANATION

- ← 701 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06844900 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06846000 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 249 Lake and determination site identification number

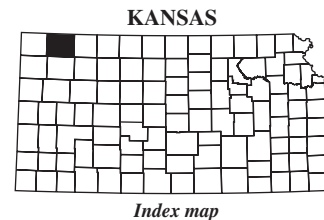


Figure 86. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Rawlins County.

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

Table 83. 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 Rawlins 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. 87)	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	
		3	1025000464	RA						Unnamed tributary, Rawlins 1	8.00	0	0
27	1025000459	RA				Driftwood Creek	96.3	.02	.16	.38	.52	.86	
215	102500132	RA				North Beaver Creek	146	0	0	0	0	1.50	
219	102500131	RA				Little Beaver Creek	687	0	0	0	.87	5.34	
223	102500131	RA				Little Beaver Creek	690	0	0	0	.92	5.45	
229	102500142	RA				Beaver Creek	1,470	0	0	0	2.65	14.2	
231	102500131	RA				Little Beaver Creek	690	0	0	0	.92	5.45	
232	102500121	RA				Beaver Creek	682	0	0	0	0	1.68	
247	102500121	RA				Beaver Creek	682	0	0	0	0	1.67	
249	HYDRO	RA				HYDRO	681	NA	NA	NA	NA	NA	
268	102500132	RA				North Beaver Creek	83.5	0	0	0	0	0	
332	102500133	RA				Little Beaver Creek	522	0	0	0	0	0.73	
349	102500133	RA				Little Beaver Creek	491	0	0	0	0	0	
361	102500133	RA				Little Beaver Creek	479	0	0	0	0	0	
450	102500121	RA				Beaver Creek	681	0	0	0	0	1.63	
466	102500101	RA				Middle Fork Sappa Creek	543	0	0	0	1.41	6.04	
467	102500102	RA				North Fork Sappa Creek	157	0	0	0	0	.96	
553	102500103	RA				Middle Fork Sappa Creek	348	0	0	0	0	.69	
560	102500121	RA				Beaver Creek	621	0	0	0	0	0	
596	102500102	RA				North Fork Sappa Creek	98.4	0	0	0	0	0	
643	102500102	RA				North Fork Sappa Creek	26.6	0	0	0	0	0	
668	102500103	RA				Middle Fork Sappa Creek	311	0	0	0	0	0	
795	102500104	RA	TH			South Fork Sappa Creek	352	0	0	0	0	.35	
811	102500103	RA	TH			Middle Fork Sappa Creek	251	0	0	0	0	0	

Table 83. 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 Rawlins 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. 87)	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
3	0	236	721	1,230	2,080	2,870	3,800
27	2.96	535	1,650	2,870	5,010	7,080	9,550
215	3.94	768	2,250	3,850	6,580	9,210	12,300
219	6.96	775	2,390	4,210	7,470	10,700	14,600
223	7.04	781	2,410	4,230	7,500	10,700	14,700
229	9.18	440	1,110	1,780	2,920	4,000	5,300
231	7.04	781	2,410	4,230	7,500	10,700	14,700
232	3.66	542	1,810	3,310	6,080	8,890	12,400
247	3.66	542	1,810	3,310	6,070	8,880	12,400
249	NA	NA	NA	NA	NA	NA	NA
268	1.30	641	1,880	3,200	5,450	7,590	10,100
332	3.29	579	1,910	3,460	6,300	9,150	12,700
349	2.49	519	1,750	3,210	5,890	8,620	12,000
361	2.20	501	1,700	3,130	5,770	8,450	11,800
450	3.63	541	1,810	3,300	6,070	8,870	12,400
466	8.44	804	2,540	4,520	8,110	11,700	16,100
467	3.58	632	1,940	3,390	5,930	8,410	11,400
553	3.83	587	1,940	3,510	6,390	9,290	12,900
560	2.19	476	1,650	3,050	5,690	8,380	11,800
596	1.26	470	1,490	2,620	4,630	6,600	8,950
643	0	360	1,200	2,130	3,780	5,310	7,180
668	2.75	526	1,770	3,230	5,910	8,610	11,900
795	2.06	273	1,030	2,020	4,080	6,360	9,410
811	1.41	425	1,470	2,720	5,040	7,400	10,300