

Figure 100. 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 Sheridan County.

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Table 96. 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 Sheridan 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. 100)	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	
		810	1025001512	SD	TH					Prairie Dog Creek	178	0	0
832	1026001113	SD				North Fork Solomon River	274	0	0	0	.25	1.98	
882	1026001113	SD				North Fork Solomon River	223	0	0	0	0	0	
919	1026001116	SD				Bow Creek	45.9	0	0	.01	.02	.04	
934	1026001113	SD	TH			North Fork Solomon River	176	0	0	0	0	0	
945	HYDRO	SD				HYDRO	50.5	NA	NA	NA	NA	NA	
990	1026001117	SD				South Bow Creek	49.4	0	0	0	.02	.04	
997	HYDRO	SD				HYDRO	12.2	NA	NA	NA	NA	NA	
999	1026001117	SD				South Bow Creek	117	.03	.05	.08	.11	.22	
1002	HYDRO	SD				HYDRO	94.6	NA	NA	NA	NA	NA	
1006	1026001117	SD	TH			South Bow Creek	11.7	0	0	0	0	0	
1036	1026001319	SD				Foster Creek	3.77	0	0	0	0	0	
1037	1026001117	SD				South Bow Creek	94.3	0	.02	.05	.07	.14	
1039	HYDRO	SD				HYDRO	3.86	NA	NA	NA	NA	NA	
1080	1026001320	SD				Storer Creek	2.70	0	0	0	0	0	
1083	HYDRO	SD				HYDRO	2.75	NA	NA	NA	NA	NA	
1125	1026001319	SD				Foster Creek	9.34	0	0	0	0	0	
1129	1026001320	SD				Storer Creek	5.89	0	0	0	0	0	
1135	1026001314	SD				South Fork Solomon River	465	0	0	2.13	6.62	14.9	
1137	HYDRO	SD				HYDRO	54.7	NA	NA	NA	NA	NA	
1143	1026001314	SD				South Fork Solomon River	414	0	0	1.39	4.65	10.9	
1146	1026001314	SD				South Fork Solomon River	449	0	0	1.89	5.98	13.6	
1155	1026001315	SD				Sand Creek	123	0	0	.11	.30	.52	
1165	1026001315	SD				Sand Creek	85.5	0	0	.05	.14	.25	
1167	1026001315	SD	TH			Sand Creek	54.6	0	0	.02	.06	.10	
1245	1026001323	SD				South Martin Creek	26.4	0	0	.01	.01	.02	
1248	1026001316	SD				South Fork Solomon River	279	0	0	.59	1.52	4.05	
1258	1026001316	SD	TH			South Fork Solomon River	194	0	0	.28	.74	1.29	
1268	1026001316	SD				South Fork Solomon River	225	0	0	.38	.99	1.73	
1332	HYDRO	SD				HYDRO	5.84	NA	NA	NA	NA	NA	
1333	1026000921	SD				Spring Brook Creek	5.35	0	0	0	0	0	
1339	1026000921	SD				Spring Brook Creek	7.26	0	0	0	0	0	
1342	HYDRO	SD				HYDRO	7.73	NA	NA	NA	NA	NA	
1344	1026000921	SD				Spring Brook Creek	7.75	0	0	0	0	0	
1345	HYDRO	SD				HYDRO	8.27	NA	NA	NA	NA	NA	
1415	1026000915	SD				North Fork Saline River	69.2	0	0	0	.05	.05	
1458	HYDRO	SD				HYDRO	277	NA	NA	NA	NA	NA	
1459	1026000917	SD	TH			North Fork Saline River	86.4	0	0	0	.07	.07	

Table 96. 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 Sheridan 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. 100)	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
810	1.12	381	1,290	2,360	4,330	6,300	8,730
832	4.19	597	1,960	3,530	6,390	9,230	12,700
882	2.58	511	1,700	3,090	5,620	8,140	11,200
919	.26	300	980	1,750	3,130	4,480	6,110
934	1.36	415	1,420	2,600	4,760	6,940	9,630
945	NA	NA	NA	NA	NA	NA	NA
990	.04	283	945	1,710	3,080	4,430	6,070
997	NA	NA	NA	NA	NA	NA	NA
999	1.59	425	1,400	2,510	4,530	6,540	8,980
1002	NA	NA	NA	NA	NA	NA	NA
1006	0	236	766	1,340	2,340	3,260	4,380
1036	0	148	448	757	1,280	1,760	2,320
1037	.88	389	1,280	2,300	4,150	5,980	8,200
1039	NA	NA	NA	NA	NA	NA	NA
1080	0	123	369	622	1,050	1,430	1,890
1083	NA	NA	NA	NA	NA	NA	NA
1125	0	250	773	1,320	2,260	3,110	4,130
1129	0	194	590	1,000	1,700	2,340	3,100
1135	13.8	1,070	3,360	5,990	10,800	15,700	21,900
1137	NA	NA	NA	NA	NA	NA	NA
1143	10.9	924	2,950	5,290	9,620	14,000	19,500
1146	12.9	1,020	3,230	5,770	10,400	15,200	21,100
1155	2.15	458	1,480	2,650	4,760	6,840	9,380
1165	.61	338	1,130	2,060	3,740	5,430	7,480
1167	.06	260	891	1,630	2,970	4,320	5,950
1245	.09	463	1,460	2,510	4,340	6,020	8,040
1248	5.77	633	2,080	3,770	6,890	10,000	14,000
1258	2.48	434	1,490	2,750	5,090	7,470	10,500
1268	3.48	501	1,690	3,100	5,720	8,390	11,700
1332	NA	NA	NA	NA	NA	NA	NA
1333	0	157	496	854	1,470	2,040	2,720
1339	0	187	596	1,030	1,780	2,470	3,300
1342	NA	NA	NA	NA	NA	NA	NA
1344	0	195	621	1,070	1,860	2,580	3,440
1345	NA	NA	NA	NA	NA	NA	NA
1415	1.68	413	1,310	2,300	4,070	5,790	7,860
1458	NA	NA	NA	NA	NA	NA	NA
1459	.10	333	1,130	2,050	3,750	5,440	7,520

Table 96. 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 Sheridan County.—Continued

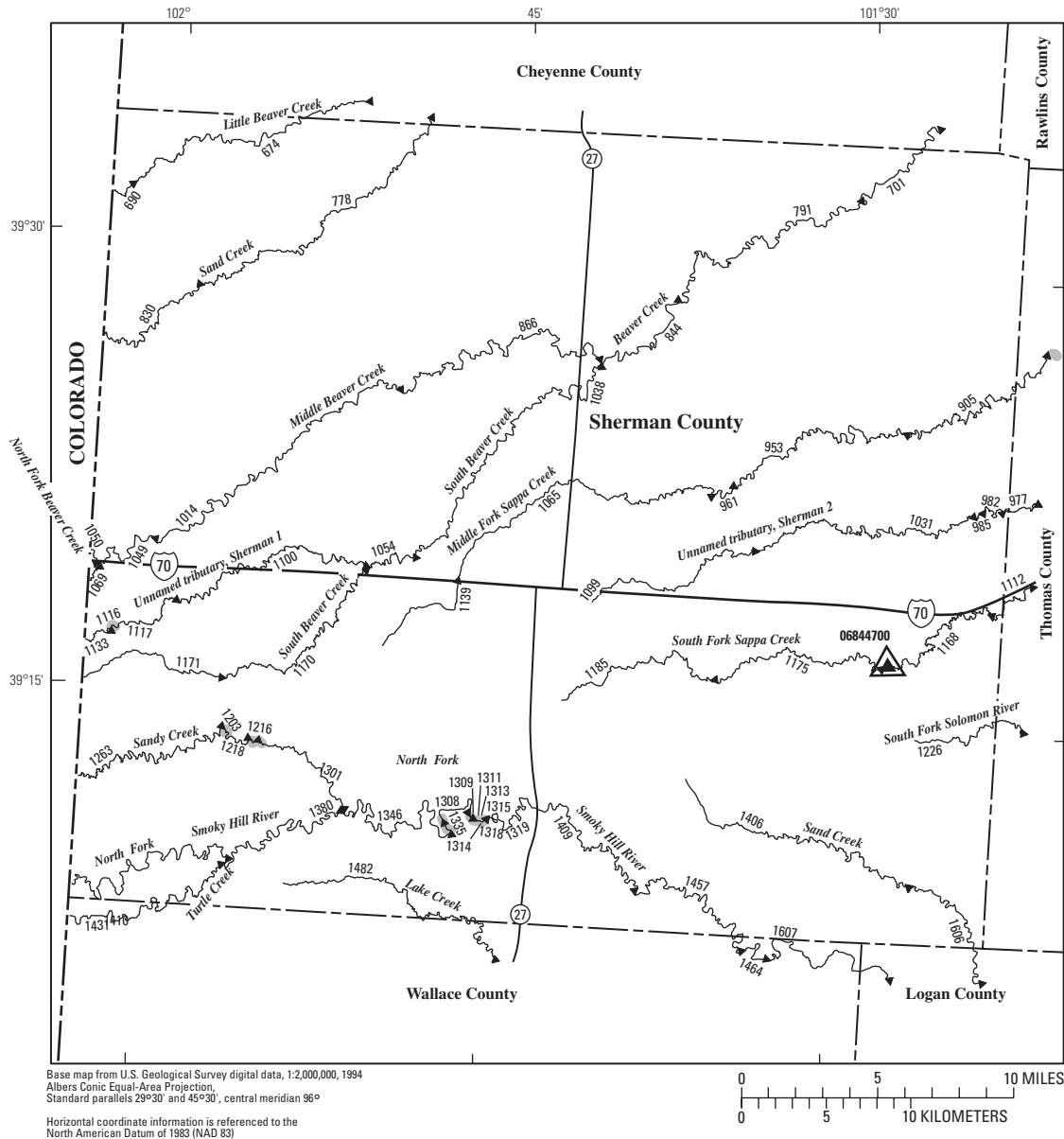
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 100)	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
		1462	1026000916	SD						Saline River	277	0
1467	1026000921	SD				Spring Brook Creek	47.9	0	0	0	.02	.02
1494	1026000918	SD	TH			South Fork Saline River	162	0	0	.02	.26	.56
1504	1026000916	SD				Saline River	319	0	0	.06	.99	2.14
1527	1026000916	SD				Saline River	439	0	0	.27	3.30	7.28

Table 96. 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 Sheridan 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. 100)	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
1462	3.42	735	2,400	4,320	7,850	11,400	15,800
1467	.05	340	1,090	1,920	3,400	4,840	6,560
1494	1.25	425	1,450	2,660	4,910	7,180	10,000
1504	4.72	876	2,820	5,040	9,110	13,200	18,200
1527	8.97	1,360	4,230	7,440	13,300	19,100	26,200



EXPLANATION

- ← 1431 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06844700 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06844700 ▽ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 1216 Lake and determination site identification number

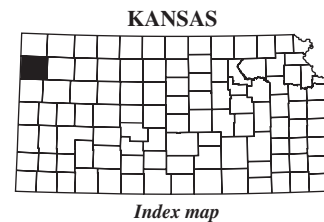


Figure 101. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Sherman County.

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Table 97. 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 Sherman 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. 101)	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	
		690	102500134	SH						Little Beaver Creek	55.9	0	0
791	102500121	SH				Beaver Creek	508	0	0	0	0	0	0
830	102500137	SH				Sand Creek	81.2	0	0	0	0	0	0
844	102500121	SH				Beaver Creek	446	0	0	0	0	0	0
866	102500122	SH				Middle Beaver Creek	311	0	0	0	0	0	0
905	102500103	SH	TH			Middle Fork Sappa Creek	154	0	0	0	0	0	0
953	102500103	SH				Middle Fork Sappa Creek	113	0	0	0	0	0	0
961	102500103	SH				Middle Fork Sappa Creek	70.5	0	0	0	0	0	0
977	102500105	SH	TH			Unnamed tributary, Sherman 2	89.3	0	0	0	0	0	0
982	102500105	SH				Unnamed tributary, Sherman 2	67.5	0	0	0	0	0	0
985	102500105	SH				Unnamed tributary, Sherman 2	63.4	0	0	0	0	0	0
1014	102500122	SH				Middle Beaver Creek	263	0	0	0	0	0	0
1031	102500105	SH				Unnamed tributary, Sherman 2	62.4	0	0	0	0	0	0
1038	102500129	SH				South Beaver Creek	114	0	0	0	0	0	0
1049	102500122	SH				Middle Beaver Creek	203	0	0	0	0	0	0
1050	102500123	SH				North Fork Beaver Creek	151	0	0	0	0	0	0
1054	102500129	SH				South Beaver Creek	81.0	0	0	0	0	0	0
1065	102500103	SH				Middle Fork Sappa Creek	68.6	0	0	0	0	0	0
1069	102500128	SH				Middle Beaver Creek	41.2	0	0	0	0	0	0
1099	102500105	SH				Unnamed tributary, Sherman 2	30.0	0	0	0	0	0	0
1100	1025001210	SH				Unnamed tributary, Sherman 1	33.7	0	0	0	0	0	0
1112	102500106	SH	TH			South Fork Sappa Creek	114	0	0	0	0	0	0
1116	HYDRO	SH				HYDRO	3.69	NA	NA	NA	NA	NA	NA
1117	1025001210	SH				Unnamed tributary, Sherman 1	9.59	0	0	0	0	0	0
1133	1025001210	SH				Unnamed tributary, Sherman 1	3.27	0	0	0	0	0	0
1139	102500103	SH				Middle Fork Sappa Creek	28.3	0	0	0	0	0	0
1168	102500106	SH				South Fork Sappa Creek	89.7	0	0	0	0	0	0
1170	1025001211	SH				South Beaver Creek	41.1	0	0	0	0	0	0
1171	1025001211	SH				South Beaver Creek	19.2	0	0	0	0	0	0
1175	102500106	SH				South Fork Sappa Creek	71.3	0	0	0	0	0	0
1185	102500106	SH				South Fork Sappa Creek	36.6	0	0	0	0	0	0
1203	HYDRO	SH				HYDRO	90.9	NA	NA	NA	NA	NA	NA
1216	HYDRO	SH				HYDRO	95.2	NA	NA	NA	NA	NA	NA
1218	102600024	SH				Sandy Creek	94.3	0	0	0	.02	.04	
1226	1026001316	SH	TH			South Fork Solomon River	30.6	0	0	.01	.02	.03	
1263	102600024	SH				Sandy Creek	90.9	0	0	0	.01	.03	
1301	102600024	SH				Sandy Creek	109	0	0	0	.02	.05	
1308	102600023	SH				North Fork Smoky Hill River	486	0	0	0	.42	.99	

Table 97. 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 Sherman 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. 101)	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
690	0	135	533	1,040	2,020	3,050	4,340
791	.91	433	1,540	2,880	5,420	8,030	11,300
830	0	175	676	1,310	2,520	3,780	5,350
844	.50	414	1,480	2,790	5,250	7,800	11,000
866	0	335	1,240	2,360	4,500	6,720	9,510
905	.16	298	1,070	2,020	3,790	5,600	7,860
953	0	256	931	1,750	3,300	4,880	6,840
961	0	197	730	1,380	2,610	3,880	5,450
977	0	236	853	1,600	3,010	4,440	6,230
982	0	196	721	1,360	2,580	3,820	5,360
985	0	190	700	1,320	2,500	3,710	5,210
1014	0	296	1,120	2,140	4,110	6,160	8,760
1031	0	189	697	1,320	2,490	3,690	5,180
1038	0	233	865	1,640	3,120	4,640	6,540
1049	0	248	957	1,850	3,590	5,410	7,710
1050	0	209	819	1,600	3,110	4,700	6,720
1054	0	194	730	1,390	2,660	3,960	5,590
1065	0	194	719	1,360	2,580	3,820	5,370
1069	0	119	473	925	1,800	2,710	3,860
1099	0	328	1,140	2,060	3,710	5,270	7,180
1100	0	112	440	857	1,660	2,500	3,540
1112	.15	78	466	1,140	2,830	4,960	8,090
1116	NA	NA	NA	NA	NA	NA	NA
1117	0	138	493	898	1,630	2,320	3,170
1133	0	72	253	457	821	1,170	1,580
1139	0	310	1,090	1,970	3,540	5,040	6,860
1168	.23	52	382	996	2,600	4,670	7,740
1170	0	132	513	989	1,900	2,850	4,030
1171	0	206	749	1,370	2,510	3,600	4,930
1175	.14	109	511	1,130	2,560	4,290	6,740
1185	.04	117	472	945	1,910	2,970	4,370
1203	NA	NA	NA	NA	NA	NA	NA
1216	NA	NA	NA	NA	NA	NA	NA
1218	0	171	682	1,340	2,640	4,030	5,790
1226	.02	149	547	1,030	1,930	2,850	3,980
1263	0	167	669	1,320	2,590	3,950	5,680
1301	0	196	770	1,510	2,960	4,490	6,450
1308	.72	277	1,390	3,080	6,910	11,400	17,700

Table 97. 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 Sherman County.—Continued

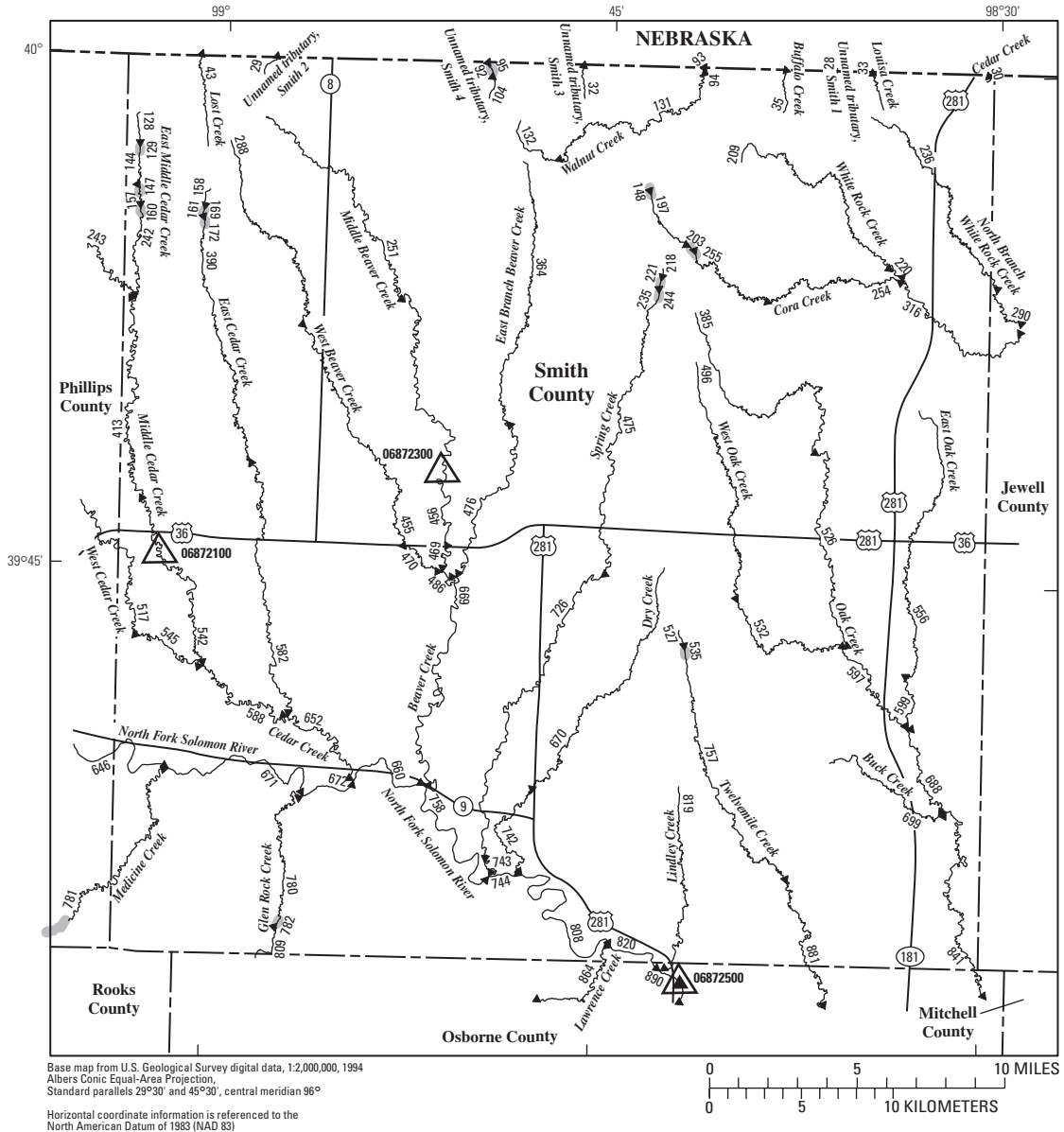
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 101)	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	
		1309	HYDRO	SH						HYDRO	486	NA	NA
1311	102600023	SH				North Fork Smoky Hill River	486	0	0	0	0.42	0.99	
1313	102600023	SH				North Fork Smoky Hill River	487	0	0	0	.42	.99	
1314	HYDRO	SH				HYDRO	487	NA	NA	NA	NA	NA	
1315	HYDRO	SH				HYDRO	487	NA	NA	NA	NA	NA	
1318	102600023	SH				North Fork Smoky Hill River	487	0	0	0	.42	.99	
1319	HYDRO	SH				HYDRO	487	NA	NA	NA	NA	NA	
1335	HYDRO	SH				HYDRO	479	NA	NA	NA	NA	NA	
1346	102600023	SH				North Fork Smoky Hill River	478	0	0	0	.40	.95	
1380	102600025	SH				North Fork Smoky Hill River	350	0	0	0	.22	.51	
1406	102600022	SH				Sand Creek	53.0	0	0	0	0	.01	
1409	102600023	SH				North Fork Smoky Hill River	526	0	0	0	.49	1.15	
1410	102600026	SH				North Fork Smoky Hill River	281	0	0	0	.14	.33	
1431	1026000215	SH	WA			Turtle Creek	55.9	0	0	0	.01	.01	
1457	102600023	SH	WA			North Fork Smoky Hill River	549	0	0	0	.53	1.26	
1464	102600023	SH	WA			North Fork Smoky Hill River	553	0	0	0	.54	1.28	
1482	102600012	SH	WA			Lake Creek	45.2	0	0	0	0	0	

Table 97. 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 Sherman 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. 101)	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
1309	NA	NA	NA	NA	NA	NA	NA
1311	0.72	277	1,390	3,080	6,910	11,400	17,700
1313	.72	276	1,390	3,080	6,920	11,400	17,700
1314	NA	NA	NA	NA	NA	NA	NA
1315	NA	NA	NA	NA	NA	NA	NA
1318	.72	276	1,390	3,080	6,920	11,500	17,700
1319	NA	NA	NA	NA	NA	NA	NA
1335	NA	NA	NA	NA	NA	NA	NA
1346	.65	277	1,380	3,050	6,820	11,300	17,400
1380	0	253	1,150	2,430	5,210	8,390	12,700
1406	0	210	753	1,410	2,620	3,860	5,390
1409	1.12	286	1,470	3,290	7,480	12,500	19,400
1410	0	228	1,000	2,090	4,380	6,960	10,400
1431	0	131	522	1,020	2,000	3,020	4,310
1457	1.38	287	1,510	3,400	7,780	13,000	20,300
1464	1.43	288	1,520	3,420	7,840	13,100	20,500
1482	0	192	689	1,280	2,390	3,510	4,880



EXPLANATION

- ← 865 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06872500 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06872500 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 782 Lake and determination site identification number

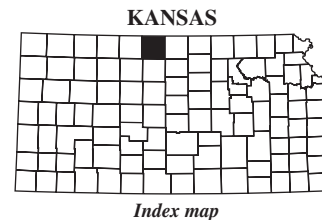


Figure 102. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Smith County.

Table 98. 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 Smith 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. 102)	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
28	1025001662	SM				Unnamed tributary, Smith 1	1.65	0	0	0	0	0
29	1025001654	SM				Unnamed tributary, Smith 2	6.14	0	0	0	0	0
30	1025001663	SM				Cedar Creek	3.91	0	0	0	0	0
32	1025001657	SM				Unnamed tributary, Smith 3	4.77	0	0	0	0	0
33	1025001661	SM				Louisa Creek	3.62	0	0	0	0	0
35	1025001659	SM				Buffalo Creek	5.55	0	0	0	0	0
43	1025001653	SM				Lost Creek	9.33	0	0	0	0	0
92	1025001656	SM				Unnamed tributary, Smith 4	11.7	0	0	0	0	0
93	1025001640	SM				Walnut Creek	24.3	0	0	.22	.49	1.71
94	1025001640	SM				Walnut Creek	22.7	0	0	.15	.32	1.37
95	HYDRO	SM				HYDRO	8.75	NA	NA	NA	NA	NA
104	1025001656	SM				Unnamed tributary, Smith 4	8.66	0	0	0	0	0
128	1026001237	SM				East Middle Cedar Creek	7.20	0	0	0	0	0
129	HYDRO	SM				HYDRO	7.33	NA	NA	NA	NA	NA
131	1025001640	SM				Walnut Creek	22.7	0	0	.15	.32	1.37
132	1025001640	SM				Walnut Creek	5.61	0	0	0	0	0
144	1026001237	SM				East Cedar Creek	11.6	0	0	0	0	0
147	HYDRO	SM				HYDRO	11.8	NA	NA	NA	NA	NA
148	HYDRO	SM				HYDRO	3.40	NA	NA	NA	NA	NA
157	1026001237	SM				East Cedar Creek	13.1	0	0	0	0	0
158	1026001217	SM				East Cedar Creek	2.15	0	0	0	0	0
160	HYDRO	SM				HYDRO	13.3	NA	NA	NA	NA	NA
161	HYDRO	SM				HYDRO	2.55	NA	NA	NA	NA	NA
169	1026001217	SM				East Cedar Creek	3.13	0	0	0	0	0
172	HYDRO	SM				HYDRO	3.23	NA	NA	NA	NA	NA
197	1025001651	SM				Cora Creek	10.3	0	0	0	0	0
203	HYDRO	SM				HYDRO	11.3	NA	NA	NA	NA	NA
209	1025001650	SM				White Rock Creek	23.5	0	0	.33	.73	2.16
218	102600128	SM				Spring Creek	2.06	0	0	0	0	0
220	1025001650	SM				White Rock Creek	24.4	0	0	.37	.83	2.39
221	HYDRO	SM				HYDRO	3.09	NA	NA	NA	NA	NA
235	102600128	SM				Spring Creek	3.36	0	0	0	0	0
242	1026001237	SM				East Middle Cedar Creek	18.7	0	0	0	0	0
244	HYDRO	SM				HYDRO	3.54	NA	NA	NA	NA	NA
251	1026001213	SM				Middle Beaver Creek	35.4	0	0	.27	.77	2.50
254	1025001651	SM				Cora Creek	32.6	0	0	.41	1.05	3.09
255	1025001651	SM				Cora Creek	19.9	0	0	0	0	.35
288	1026001214	SM				West Beaver Creek	18.7	0	0	0	0	0

Table 98. 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 Smith 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. 102)	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
28	0	168	432	679	1,070	1,420	1,810
29	0	301	831	1,350	2,200	2,960	3,850
30	0	289	749	1,180	1,880	2,490	3,200
32	0	283	760	1,220	1,970	2,630	3,400
33	0	269	699	1,110	1,770	2,340	3,000
35	0	318	851	1,370	2,200	2,940	3,800
43	.14	371	1,040	1,710	2,810	3,790	4,940
92	.73	457	1,260	2,060	3,370	4,540	5,910
93	2.79	724	2,010	3,300	5,420	7,310	9,540
94	2.53	696	1,930	3,160	5,200	7,010	9,150
95	NA	NA	NA	NA	NA	NA	NA
104	.24	384	1,060	1,710	2,800	3,760	4,880
128	0	315	879	1,440	2,360	3,170	4,140
129	NA	NA	NA	NA	NA	NA	NA
131	2.53	696	1,930	3,160	5,200	7,010	9,150
132	0	302	821	1,330	2,150	2,880	3,730
144	.35	413	1,160	1,900	3,140	4,240	5,540
147	NA	NA	NA	NA	NA	NA	NA
148	NA	NA	NA	NA	NA	NA	NA
157	.53	443	1,250	2,050	3,380	4,560	5,970
158	0	158	430	693	1,120	1,500	1,940
160	NA	NA	NA	NA	NA	NA	NA
161	NA	NA	NA	NA	NA	NA	NA
169	0	196	538	872	1,420	1,900	2,470
172	NA	NA	NA	NA	NA	NA	NA
197	.46	443	1,210	1,950	3,180	4,260	5,540
203	NA	NA	NA	NA	NA	NA	NA
209	3.06	753	2,050	3,330	5,440	7,310	9,520
218	0	172	455	725	1,160	1,540	1,990
220	3.23	771	2,100	3,420	5,580	7,490	9,750
221	NA	NA	NA	NA	NA	NA	NA
235	0	228	610	978	1,580	2,100	2,710
242	1.14	542	1,530	2,510	4,160	5,630	7,370
244	NA	NA	NA	NA	NA	NA	NA
251	3.57	636	1,490	2,300	3,590	4,760	6,080
254	3.97	516	1,440	2,390	3,990	5,480	7,210
255	1.91	655	1,800	2,930	4,800	6,450	8,410
288	1.20	563	1,600	2,630	4,360	5,900	7,720

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

Table 98. 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 Smith 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. 102)	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
		364	1026001211	SM						East Branch Beaver Creek	35.9	0
385	102600124	SM				Oak Creek	23.4	0	0	.23	.54	1.98
390	1026001217	SM				East Cedar Creek	27.8	0	0	0	0	.20
413	1026001219	SM				Middle Cedar Creek	59.2	0	0	.38	1.24	3.81
455	1026001214	SM				West Beaver Creek	47.1	0	0	.20	.74	2.68
456	1026001213	SM				Middle Beaver Creek	57.6	0	0	.71	1.90	5.13
469	1026001213	SM				Middle Beaver Creek	58.1	0	0	.72	1.93	5.20
470	1026001214	SM				West Beaver Creek	50.6	0	0	.26	.89	3.04
475	102600128	SM				Spring Creek	35.8	0	0	.06	.34	1.75
476	1026001211	SM				East Branch Beaver Creek	51.5	0	0	.48	1.39	4.06
486	1026001212	SM				Middle Beaver Creek	109	0	.14	1.73	4.57	11.4
496	1026001239	SM				West Oak Creek	22.9	0	0	0	0	.53
526	102600124	SM				Oak Creek	42.3	0	0	.84	2.08	5.51
527	102600126	SM				Twelvemile Creek	2.20	0	0	0	0	0
532	1026001239	SM				West Oak Creek	35.9	0	0	.27	.80	2.74
535	HYDRO	SM				HYDRO	2.29	NA	NA	NA	NA	NA
542	1026001219	SM				Middle Cedar Creek	72.1	0	0	.54	1.67	4.91
545	1026001220	SM				West Cedar Creek	70.6	0	0	.33	1.20	3.91
556	1026001240	SM				East Oak Creek	38.1	0	0	.75	1.85	5.06
582	1026001217	SM				East Cedar Creek	59.6	0	0	.20	.85	3.13
588	1026001218	SM				Cedar Creek	150	0	.15	1.84	5.04	12.9
597	102600124	SM				Oak Creek	84.8	0	.34	2.01	5.04	12.4
599	1026001240	SM				East Oak Creek	41.5	0	0	.89	2.20	5.80
652	1026001216	SM				Cedar Creek	216	0	.68	3.02	8.06	20.2
660	1026001215	SM				North Fork Solomon River	2,120	10.0	16.7	28.4	62.7	135
669	1026001210	SM				Beaver Creek	184	0	.85	3.37	8.68	21.2
670	1026001242	SM				Dry Creek	27.4	0	0	0	0	0
671	1026001221	SM				North Fork Solomon River	1,860	8.80	14.7	25.0	55.0	119
672	1026001221	SM				North Fork Solomon River	1,900	8.98	15.0	25.4	56.1	121
688	102600124	SM				Oak Creek	133	0	1.05	3.68	9.18	22.3
699	1026001243	SM				Buck Creek	18.9	0	0	0	0	.49
726	102600128	SM				Spring Creek	61.2	0	0	.50	1.50	4.44
742	1026001242	SM				Dry Creek	32.7	0	0	0	0	.32
743	102600128	SM				Spring Creek	61.6	0	0	.51	1.51	4.47
744	102600127	SM				North Fork Solomon River	2,380	11.3	18.8	31.9	70.4	152
757	102600126	SM				Twelvemile Creek	29.6	0	0	0	0	.73
758	102600129	SM				North Fork Solomon River	2,320	11.0	18.3	31.1	68.6	148
780	1026001241	SM				Glen Rock Creek	32.3	0	0	0	0	.42

Table 98. 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 Smith 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. 102)	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
364	3.67	684	1,850	3,020	4,940	6,710	8,730
385	3.06	773	2,110	3,410	5,560	7,460	9,700
390	1.95	687	1,980	3,290	5,480	7,450	9,800
413	4.94	561	1,400	2,240	3,670	5,020	6,630
455	4.03	649	1,810	3,000	4,990	6,850	8,990
456	5.76	765	1,390	1,880	2,590	3,170	3,790
469	5.81	751	1,360	1,830	2,530	3,090	3,690
470	4.34	669	1,860	3,090	5,140	7,050	9,260
475	3.19	630	1,730	2,850	4,700	6,420	8,390
476	4.98	700	1,930	3,200	5,300	7,260	9,520
486	10.7	1,060	2,140	3,100	4,570	5,860	7,310
496	2.13	694	1,930	3,170	5,210	7,020	9,170
526	5.88	843	2,200	3,550	5,730	7,720	9,980
527	0	167	450	723	1,170	1,560	2,010
532	3.90	669	1,810	2,970	4,880	6,640	8,650
535	NA	NA	NA	NA	NA	NA	NA
542	5.92	577	1,350	2,100	3,390	4,610	6,100
545	5.23	647	1,860	3,140	5,320	7,380	9,790
556	5.55	909	2,320	3,700	5,920	7,940	10,200
582	4.61	692	1,940	3,230	5,410	7,440	9,800
588	12.3	879	2,160	3,430	5,590	7,640	10,100
597	11.2	1,170	3,020	4,840	7,800	10,500	13,600
599	6.09	896	2,310	3,690	5,930	7,970	10,300
652	17.9	1,090	2,710	4,320	7,070	9,650	12,800
660	82.2	2,390	5,330	8,040	12,400	16,300	20,800
669	18.0	1,300	2,780	4,150	6,310	8,250	10,500
670	1.72	688	1,980	3,280	5,460	7,420	9,750
671	72.2	2,100	4,680	7,060	10,900	14,300	18,300
672	73.6	2,140	4,770	7,200	11,100	14,600	18,600
688	18.2	1,540	3,870	6,150	9,850	13,200	17,100
699	1.94	638	1,760	2,870	4,690	6,310	8,220
726	5.48	679	1,910	3,180	5,320	7,330	9,660
742	2.20	499	1,430	2,400	4,030	5,560	7,340
743	5.50	676	1,900	3,170	5,310	7,310	9,640
744	92.3	2,680	5,990	9,030	13,900	18,300	23,400
757	2.45	766	2,170	3,580	5,930	8,040	10,500
758	89.9	2,610	5,830	8,790	13,500	17,800	22,800
780	2.26	589	1,640	2,720	4,510	6,180	8,100

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

Table 98. 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 Smith County.—Continued

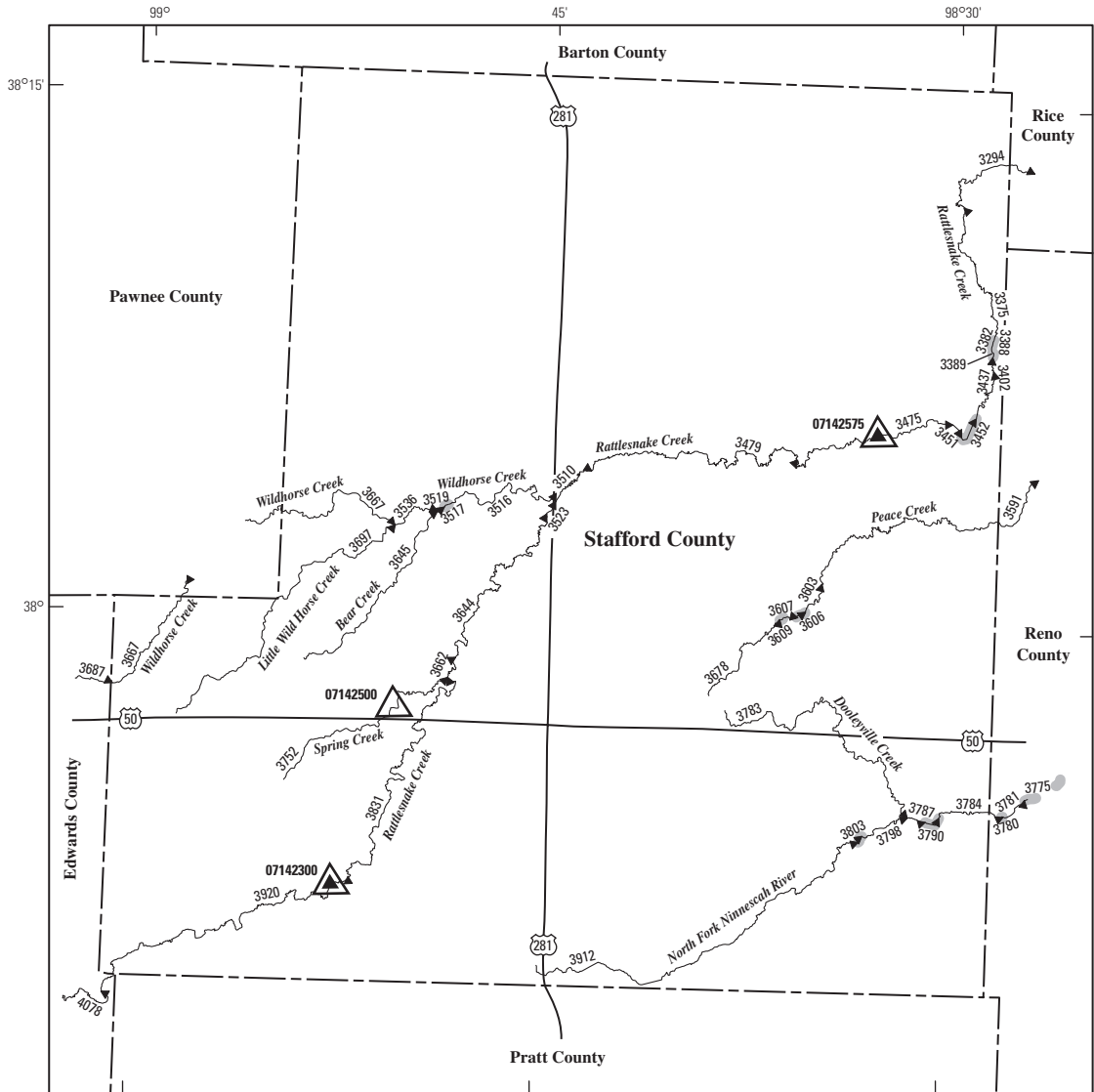
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 102)	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	
		782	HYDRO	SM						HYDRO	13.1	NA	NA
808	102600127	SM				North Fork Solomon River	2,430	11.5	19.2	32.6	71.8	155	

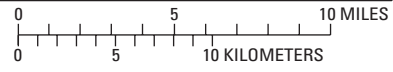
Table 98. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Smith County.—Continued

[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. 102)	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
782	NA	NA	NA	NA	NA	NA	NA
808	94.2	2,740	6,110	9,210	14,200	18,700	23,800



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



EXPLANATION

- ← 3920 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 07142300 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 07142500 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 3803 Lake and determination site identification number

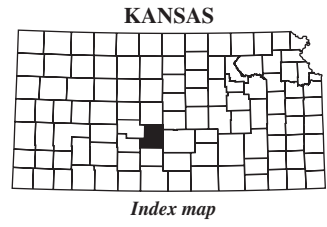


Figure 103. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Stafford County.

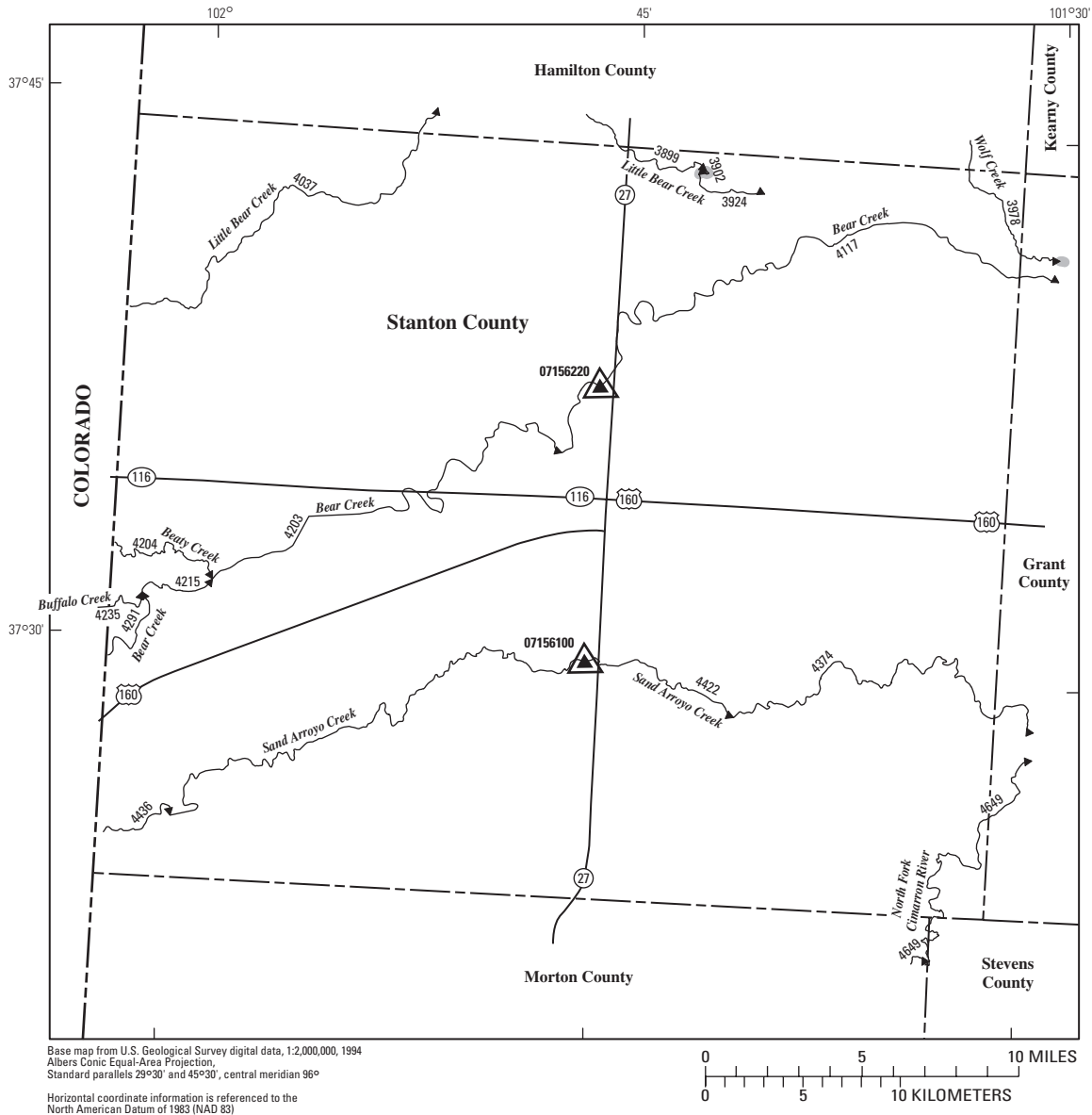
Table 99. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Stafford County.[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square 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. 103)	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
		3375	110300091	SF						Rattlesnake Creek	1,210	3.56
3382	HYDRO	SF				HYDRO	1,170	NA	NA	NA	NA	NA
3388	110300091	SF				Rattlesnake Creek	1,170	4.38	11.2	28.5	51.1	84.9
3389	HYDRO	SF				HYDRO	1,170	NA	NA	NA	NA	NA
3402	110300091	SF				Rattlesnake Creek	1,170	4.40	11.2	28.6	51.0	84.7
3437	110300091	SF				Rattlesnake Creek	1,170	4.41	11.3	28.6	50.9	84.5
3451	110300091	SF				Rattlesnake Creek	1,160	4.61	12.0	29.0	50.0	82.4
3452	HYDRO	SF				HYDRO	1,160	NA	NA	NA	NA	NA
3475	110300091	SF				Rattlesnake Creek	1,160	4.60	12.0	29.0	50.0	82.3
3479	110300091	SF				Rattlesnake Creek	1,130	4.25	11.4	27.8	48.2	79.1
3510	110300091	SF				Rattlesnake Creek	1,030	2.98	9.35	23.6	42.1	67.9
3516	110300092	SF				Wildhorse Creek	216	.80	2.11	3.70	6.96	14.2
3517	HYDRO	SF				HYDRO	182	NA	NA	NA	NA	NA
3519	110300092	SF				Wildhorse Creek	181	.29	1.29	2.49	4.82	10.3
3523	110300093	SF				Rattlesnake Creek	811	2.05	7.89	18.4	33.5	50.4
3536	110300092	SF				Wildhorse Creek	164	.24	1.17	2.21	4.19	8.95
3603	110300106	SF				Peace Creek	43.0	.04	.28	.48	.68	1.45
3606	HYDRO	SF				HYDRO	36.9	NA	NA	NA	NA	NA
3607	110300106	SF				Peace Creek	35.7	.03	.30	.38	.42	.78
3609	HYDRO	SF				HYDRO	33.7	NA	NA	NA	NA	NA
3644	110300093	SF				Rattlesnake Creek	811	2.04	7.88	18.4	33.4	50.3
3645	110300098	SF				Bear Creek	16.8	0	0	0	0	0
3662	110300093	SF				Rattlesnake Creek	780	1.82	7.54	17.5	32.0	47.5
3678	110300106	SF				Peace Creek	33.7	0	.05	.20	.30	.63
3752	110300097	SF				Spring Creek	24.6	0	0	0	0	0
3783	110300148	SF				Dooleyville Creek	47.9	.03	.08	.22	.24	1.36
3787	110300146	SF				North Fork Ninnescah River	185	3.40	5.99	8.45	13.7	24.4
3790	HYDRO	SF				HYDRO	192	NA	NA	NA	NA	NA
3798	110300146	SF				North Fork Ninnescah River	136	2.97	5.13	6.87	10.6	18.2
3803	HYDRO	SF				HYDRO	132	NA	NA	NA	NA	NA
3831	110300093	SF				Rattlesnake Creek	755	1.73	7.38	16.9	31.0	45.4
3912	110300146	SF				North Fork Ninnescah River	131	2.84	4.92	6.56	10.0	17.3

Table 99. 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 Stafford 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. 103)	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
3375	49.6	545	1,670	3,080	6,050	9,440	14,200
3382	NA	NA	NA	NA	NA	NA	NA
3388	50.4	495	1,570	2,940	5,830	9,170	13,900
3389	NA	NA	NA	NA	NA	NA	NA
3402	50.4	498	1,570	2,940	5,840	9,180	13,900
3437	50.4	502	1,580	2,950	5,860	9,200	13,900
3451	50.5	498	1,570	2,940	5,840	9,180	13,900
3452	NA	NA	NA	NA	NA	NA	NA
3475	50.5	501	1,580	2,950	5,850	9,190	13,900
3479	48.8	518	1,620	3,000	5,900	9,220	13,900
3510	42.8	517	1,630	3,000	5,850	9,050	13,500
3516	13.6	883	2,310	3,750	6,120	8,300	10,800
3517	NA	NA	NA	NA	NA	NA	NA
3519	10.9	820	2,180	3,550	5,820	7,910	10,300
3523	32.1	441	1,430	2,650	5,110	7,790	11,400
3536	9.81	759	2,020	3,310	5,430	7,380	9,660
3603	3.03	371	1,000	1,630	2,660	3,590	4,650
3606	NA	NA	NA	NA	NA	NA	NA
3607	2.40	324	874	1,430	2,320	3,130	4,040
3609	NA	NA	NA	NA	NA	NA	NA
3644	32.0	442	1,440	2,660	5,110	7,800	11,400
3645	.27	538	1,520	2,490	4,110	5,560	7,280
3662	30.3	439	1,430	2,630	5,040	7,670	11,200
3678	2.24	308	833	1,360	2,210	2,980	3,850
3752	.97	305	1,170	2,260	4,400	6,650	9,530
3783	3.50	494	1,370	2,260	3,750	5,130	6,740
3787	20.1	1,160	2,990	4,840	7,950	10,900	14,400
3790	NA	NA	NA	NA	NA	NA	NA
3798	15.0	922	2,340	3,740	6,050	8,190	10,700
3803	NA	NA	NA	NA	NA	NA	NA
3831	29.0	427	1,400	2,580	4,930	7,490	10,900
3912	14.3	892	2,260	3,620	5,850	7,920	10,300



EXPLANATION

- ← 4436 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 07156100 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 07156220 ▽ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 3902 Lake and determination site identification number

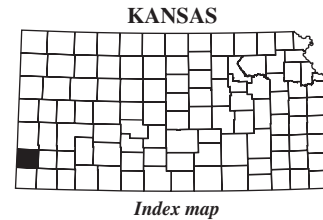


Figure 104. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Stanton County.

Table 100. 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 Stanton County.

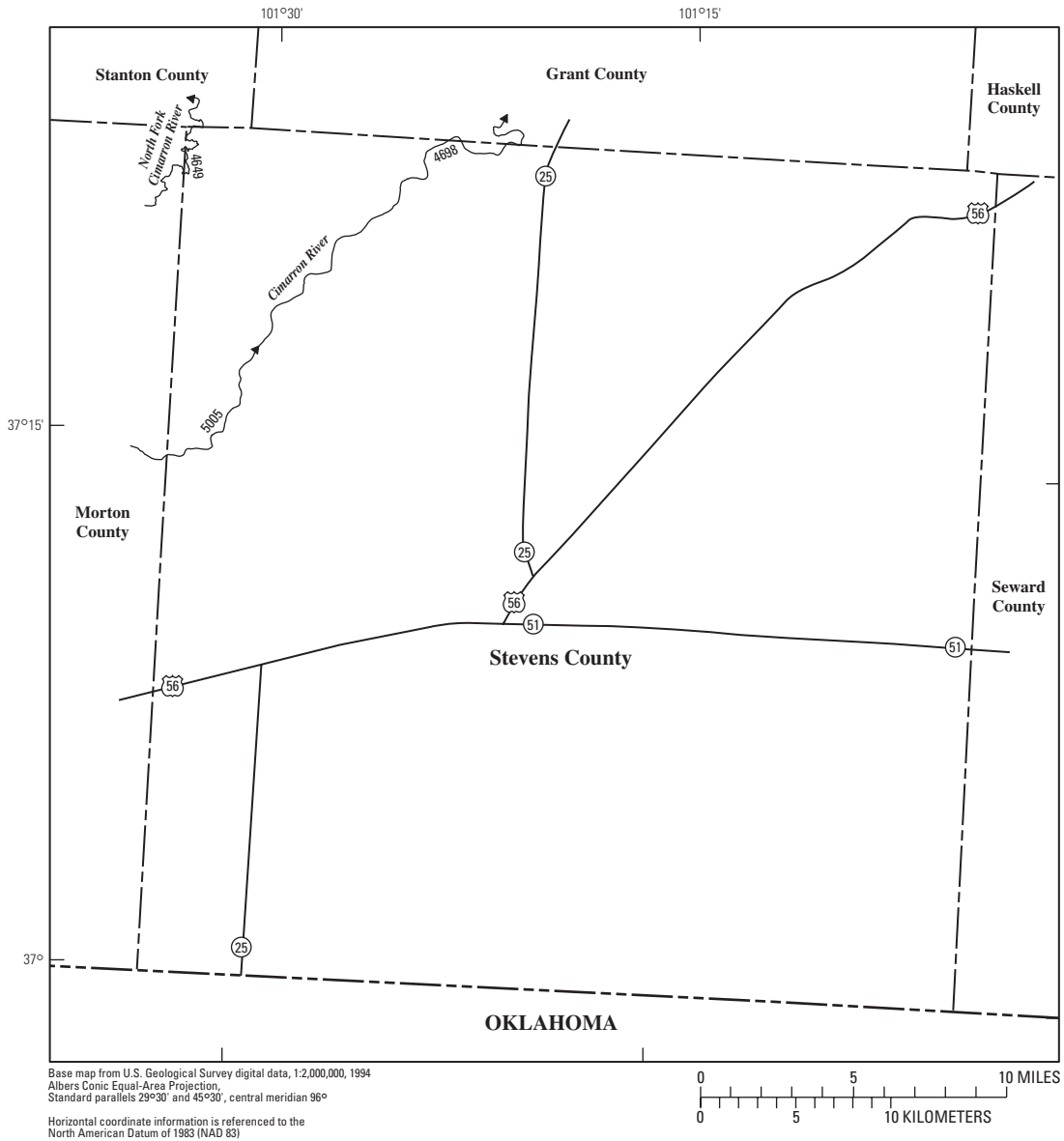
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 104)	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	
		3902	HYDRO	ST						HYDRO	511	NA	NA
3924	110400057	ST				Little Bear Creek	527	0	0	0	0	0	0
4203	110400051	ST				Bear Creek	930	0	0	0	0	0	0
4204	110400058	ST				Beaty Creek	49.8	0	0	0	0	0	0
4215	110400059	ST				Bear Creek	797	0	0	0	0	0	0
4235	1104000510	ST				Buffalo Creek	87.0	0	0	0	0	0	0
4291	1104000511	ST				Bear Creek	702	0	0	0	0	0	0
4422	110400041	ST				Sand Arroyo Creek	752	0	0	0	0	0	0
4436	110400041	ST				Sand Arroyo Creek	584	0	0	0	0	0	0

Table 100. 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 Stanton 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. 104)	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
3902	NA	NA	NA	NA	NA	NA	NA
3924	0.51	510	1,820	3,430	6,450	9,580	13,500
4203	2.64	723	2,860	5,540	10,700	15,900	22,300
4204	0	134	536	1,050	2,050	3,090	4,410
4215	1.98	689	2,660	5,110	9,780	14,500	20,400
4235	0	205	787	1,510	2,910	4,350	6,160
4291	1.50	632	2,420	4,640	8,880	13,200	18,600
4422	.25	146	541	1,000	1,850	2,680	3,680
4436	.15	242	835	1,520	2,770	4,000	5,490



EXPLANATION

- ← 5005 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 07156100 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 07156220 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 3902 Lake and determination site identification number

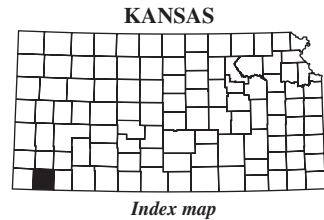


Figure 105. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Stevens County.

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

Table 101. 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 Stevens County.

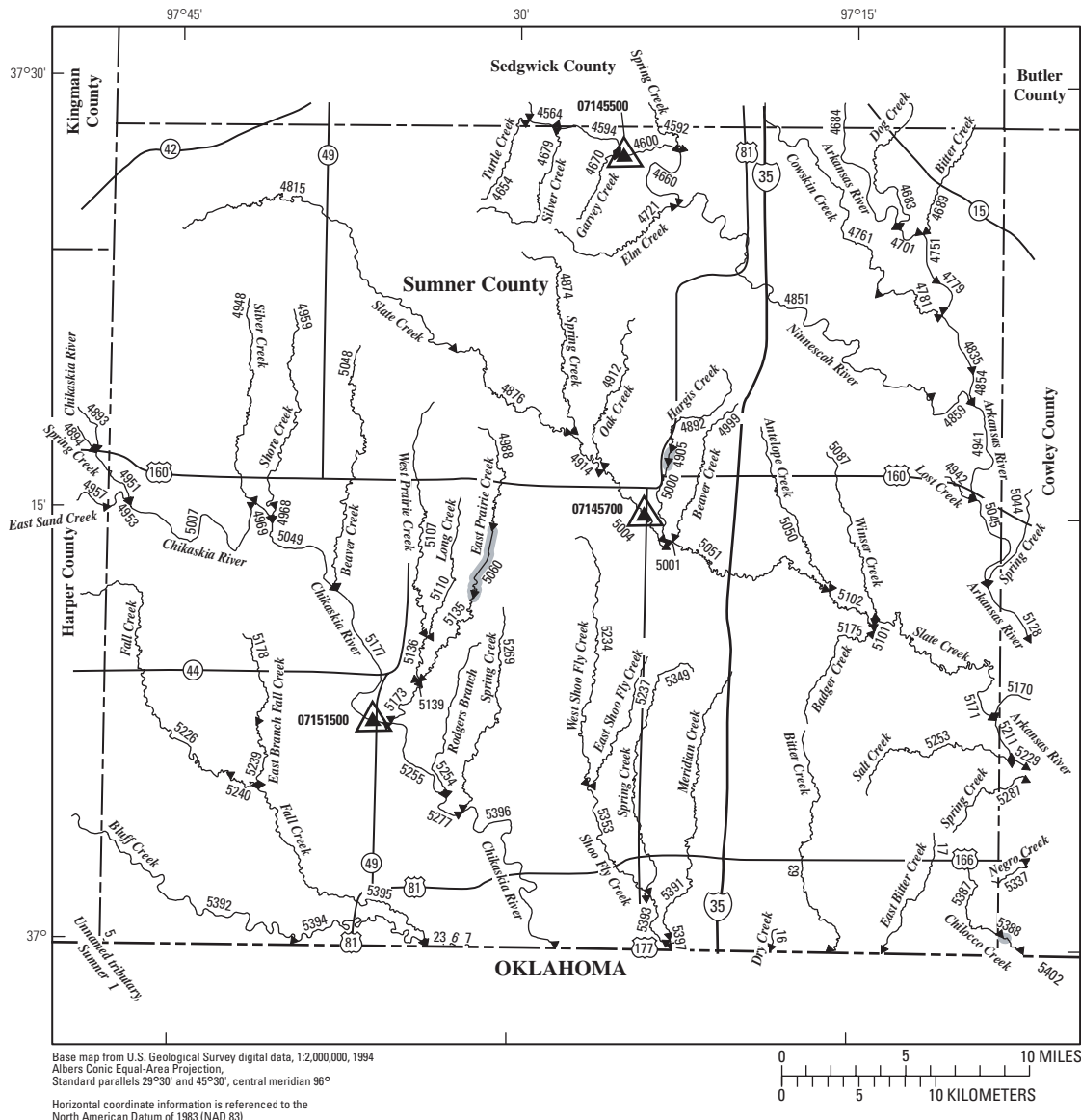
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NRtribal, tribal stream; NA, not applicable; NRDitch, irrigation ditch]

Determination site identification number (fig. 105)	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
		4649	110400032	GT	MT			ST	SV	North Fork Cimarron River	768	1.08
4698	110400021	GT	SV			Cimarron River	3,720	2.20	2.97	3.80	5.13	7.88
5005	110400021	MT	SV			Cimarron River	3,420	0	0	0	0	1.50

Table 101. 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 Stevens 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. 105)	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
4649	7.16	976	4,030	8,040	16,200	24,800	36,100
4698	14.6	1,350	4,080	6,940	11,900	16,400	21,800
5005	10.7	1,330	4,000	6,800	11,600	16,000	21,300



EXPLANATION

- ← 5394 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 07145700 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 07151500 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 5388 Lake and determination site identification number

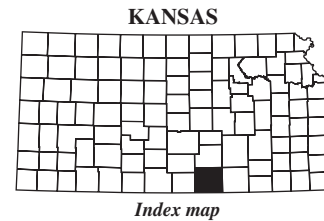


Figure 106. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Sumner County.

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

Table 102. 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 Sumner 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. 106)	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	
		5	1106000417	SU						Unnamed tributary, Sumner 1	2.00	0	0
6	1106000513	SU				Bluff Creek	540	5.11	11.6	28.5	67.9	175	
7	1106000513	SU				Bluff Creek	540	5.11	11.6	28.5	67.9	175	
16	1106000517	SU				Dry Creek	.62	0	0	0	0	0	
17	1106000516	SU				East Bitter Creek	9.14	0	0	.20	.72	3.06	
23	1106000513	SU				Bluff Creek	540	5.11	11.6	28.5	67.9	175	
63	110600054	SU				Bitter Creek	34.0	2.95	8.45	19.7	45.6	127	
4600	110300163	SU				Ninnescah River	2,060	76.4	125	212	483	1,130	
4660	110300161	SU				Ninnescah River	2,120	76.9	126	213	485	1,130	
4670	1103001611	SU				Garvey Creek	6.40	0	0	0	0	0	
4701	110300133	SU				Arkansas River	38,100	196	309	551	1,130	2,630	
4721	1103001610	SU				Elm Creek	13.5	0	0	.01	.29	2.25	
4751	110300133	SU				Arkansas River	38,100	197	311	554	1,130	2,640	
4779	1103001318	SU				Arkansas River	38,100	197	312	555	1,140	2,640	
4781	1103001310	SU				Cowskin Creek	56.8	.93	2.53	5.12	10.4	22.8	
4815	1103001317	SU				Slate Creek	80.8	.19	1.13	3.24	8.38	27.2	
4835	1103001318	SU				Arkansas River	38,400	213	333	598	1,210	2,800	
4851	110300161	SU				Ninnescah River	2,190	77.4	126	215	488	1,140	
4854	110300132	SU				Arkansas River	38,400	213	334	598	1,210	2,800	
4859	110300161	SU				Ninnescah River	2,190	77.4	126	215	488	1,140	
4874	1103001327	SU				Spring Creek	22.2	.01	.03	.23	1.11	5.05	
4876	1103001317	SU				Slate Creek	97.3	.27	1.60	4.29	11.2	36.6	
4892	1103001324	SU				Hargis Creek	16.4	0	0	.27	1.03	4.12	
4905	HYDRO	SU				HYDRO	17.5	NA	NA	NA	NA	NA	
4912	1103001326	SU				Oak Creek	21.1	.01	.03	.34	1.34	5.49	
4914	1103001317	SU				Slate Creek	123	.46	2.30	5.83	15.3	51.8	
4941	110300132	SU				Arkansas River	40,600	345	519	955	1,860	4,160	
4942	1103001323	SU				Lost Creek	8.75	0	0	0	0	.61	
4948	1106000529	SU				Silver Creek	36.9	.01	.40	1.47	3.44	9.12	
4953	1106000512	SU				East Sand Creek	87.7	.97	2.95	6.04	12.6	27.9	
4959	1106000535	SU				Shore Creek	21.6	0	.02	.39	1.17	4.25	
4968	1106000535	SU				Shore Creek	22.6	.01	.02	.45	1.31	4.57	
4969	110600058	SU				Chikaskia River	725	16.7	40.9	81.3	163	364	
4988	11060005516	SU				East Prairie Creek	13.3	0	0	0	.08	1.93	
4999	1103001329	SU				Beaver Creek	11.5	0	0	0	.21	2.12	
5000	1103001324	SU				Hargis Creek	20.9	0	0	.54	1.80	6.11	
5001	1103001317	SU				Slate Creek	175	1.08	3.65	8.96	23.8	81.3	
5004	1103001317	SU				Slate Creek	154	.91	3.30	8.00	21.0	73.2	

Table 102. 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 Sumner 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. 106)	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
5	0	278	652	986	1,500	1,950	2,450
6	117	3,850	8,710	13,300	20,500	26,900	34,200
7	117	3,850	8,710	13,300	20,500	26,900	34,200
16	0	182	392	570	837	1,060	1,310
17	3.76	917	2,060	3,060	4,610	5,910	7,410
23	117	3,850	8,710	13,300	20,500	26,900	34,200
63	87.5	1,790	4,060	6,140	9,330	12,100	15,200
4600	511	11,500	21,700	26,900	34,000	41,300	47,300
4660	514	11,500	21,700	26,900	34,000	41,400	47,400
4670	.98	610	1,430	2,160	3,300	4,280	5,390
4701	1,230	14,300	24,300	27,600	37,500	46,900	56,100
4721	3.59	948	2,250	3,430	5,280	6,850	8,680
4751	1,230	14,400	24,500	27,700	37,700	47,100	56,400
4779	1,230	14,400	24,500	27,700	37,800	47,200	56,500
4781	17.2	927	2,270	3,550	5,590	7,390	9,440
4815	27.7	2,050	4,630	6,930	10,400	13,500	16,800
4835	1,310	14,900	25,900	29,200	40,000	50,100	60,300
4851	516	11,500	21,800	27,000	34,100	41,400	47,500
4854	1,310	14,900	25,900	29,200	40,000	50,100	60,300
4859	516	11,500	21,800	27,000	34,100	41,400	47,500
4874	6.51	1,280	3,060	4,670	7,210	9,380	11,900
4876	36.6	2,270	5,070	7,550	11,300	14,500	18,100
4892	5.06	1,120	2,630	4,000	6,150	7,970	10,100
4905	NA	NA	NA	NA	NA	NA	NA
4912	6.68	1,290	3,040	4,630	7,120	9,240	11,700
4914	51.8	2,910	6,320	9,250	13,600	17,200	21,200
4941	1,950	19,600	38,000	41,800	59,000	74,800	92,300
4942	2.20	785	1,820	2,740	4,180	5,390	6,790
4948	8.87	1,560	3,500	5,250	7,920	10,200	12,800
4953	21.1	1,850	4,130	6,190	9,320	12,000	15,000
4959	5.23	1,130	2,780	4,300	6,730	8,810	11,200
4968	5.48	1,160	2,850	4,420	6,910	9,050	11,500
4969	213	7,410	16,200	23,800	35,100	44,700	55,000
4988	3.48	963	2,270	3,460	5,310	6,890	8,710
4999	3.43	924	2,150	3,250	4,960	6,410	8,080
5000	6.67	1,290	3,050	4,650	7,160	9,300	11,800
5001	79.1	3,900	8,240	11,900	17,100	21,500	26,200
5004	73.2	3,620	7,650	11,000	15,800	19,800	24,100

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

Table 102. 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 Sumner County.—Continued

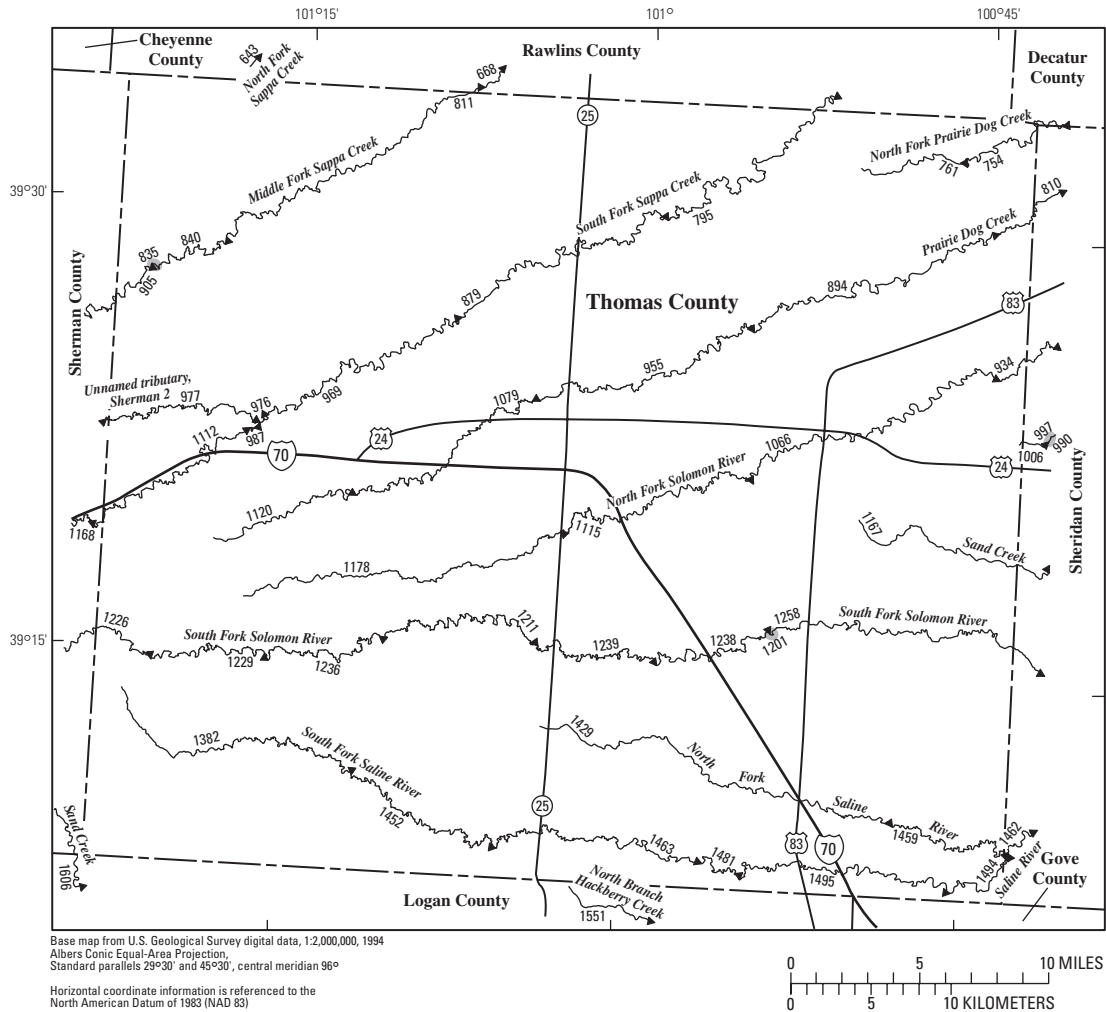
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 106)	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
		5007	110600058	SU						Chikaskia River	688	15.6
5048	1106000528	SU				Beaver Creek	27.8	.01	.02	.51	1.71	5.95
5049	110600058	SU				Chikaskia River	757	17.5	43.2	86.1	173	389
5050	1103001325	SU				Antelope Creek	18.6	0	0	.50	1.76	6.05
5051	1103001317	SU				Slate Creek	207	1.32	4.18	1.5	28.4	94.7
5060	HYDRO	SU				HYDRO	19.3	NA	NA	NA	NA	NA
5087	1103001332	SU				Winsor Creek	24.6	0	0	.55	2.05	7.16
5101	1103001317	SU				Slate Creek	246	1.61	4.83	12.5	34.2	112
5102	1103001317	SU				Slate Creek	228	1.48	4.54	11.6	31.5	104
5107	11060005527	SU				West Prairie Creek	24.2	0	0	.66	1.76	5.57
5110	11060005529	SU				Long Creek	8.44	0	0	0	0	.45
5135	11060005516	SU				East Prairie Creek	23.5	0	0	.64	2.01	6.57
5136	11060005527	SU				West Prairie Creek	34.9	0	.19	1.26	3.32	9.47
5139	11060005516	SU				East Prairie Creek	58.5	0	.58	2.36	6.52	18.2
5171	1103001317	SU				Slate Creek	292	2.09	5.78	15.1	41.4	133
5173	11060005512	SU				Prairie Creek	60.9	0	.65	2.52	6.91	19.1
5175	1103001331	SU				Badger Creek	17.7	0	0	.43	1.70	6.08
5177	110600058	SU				Chikaskia River	808	19.0	47.0	94.0	190	430
5178	1106000527	SU				East Branch Fall Creek	22.0	0	0	0	.49	3.28
5234	110600059006	SU				West Shoo Fly Creek	35.4	0	0	.60	2.36	8.54
5237	1106000519	SU				East Shoo Fly Creek	9.76	0	0	0	0	.38
5239	1106000527	SU				East Branch Fall Creek	29.3	0	0	.39	1.63	6.20
5240	1106000514	SU				Fall Creek	51.4	0	0	1.08	3.66	11.8
5254	1106000526	SU				Rodgers Branch	8.54	0	0	0	0	.19
5255	110600058	SU				Chikaskia River	878	20.1	49.0	99.3	202	462
5269	1106000525	SU				Spring Creek	23.6	0	0	.53	1.64	5.67
5277	110600058	SU				Chikaskia River	893	20.3	49.4	100	204	469
5349	1106000518	SU				Spring Creek	19.9	0	0	.33	1.35	5.23
5353	110600056	SU				Shoo Fly Creek	58.8	0	.14	1.72	5.56	17.3
5391	1106000520	SU				Meridian Creek	38.3	0	.16	1.80	5.51	16.0
5393	110600056	SU				Shoo Fly Creek	83.2	0	.53	2.73	8.60	26.1
5394	1106000515	SU				Bluff Creek	420	4.14	9.71	23.1	53.3	132
5395	1106000514	SU				Fall Creek	115	0	.85	3.56	10.9	32.2
5396	110600058	SU				Chikaskia River	944	21.0	50.9	104	213	493
5397	110600056	SU				Shoo Fly Creek	123	0	1.31	4.91	15.0	44.3

Table 102. 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 Sumner 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. 106)	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
5007	198	6,920	15,200	22,300	32,900	41,900	51,600
5048	6.85	1,350	3,290	5,100	7,970	10,400	13,300
5049	227	7,830	17,200	25,200	37,100	47,100	58,000
5050	6.45	1,230	2,880	4,370	6,710	8,700	11,000
5051	88.7	4,100	8,710	12,600	18,200	23,000	28,200
5060	NA	NA	NA	NA	NA	NA	NA
5087	7.78	1,450	3,410	5,200	8,000	10,400	13,200
5101	101	4,470	9,500	13,800	20,000	25,300	31,200
5102	95.0	4,260	9,060	13,100	19,100	24,100	29,600
5107	6.29	1,280	3,100	4,780	7,440	9,720	12,400
5110	1.96	721	1,690	2,570	3,940	5,110	6,450
5135	7.06	1,340	3,190	4,880	7,550	9,830	12,500
5136	9.40	1,230	2,920	4,510	6,990	9,190	11,600
5139	16.3	1,550	3,680	5,700	8,870	11,700	14,900
5171	115	4,590	9,790	14,300	20,800	26,400	32,600
5173	17.0	1,560	3,700	5,730	8,930	11,800	15,000
5175	6.50	1,230	2,870	4,340	6,640	8,590	10,800
5177	250	8,530	18,700	27,400	40,300	51,200	63,000
5178	4.97	1,200	2,900	4,470	6,960	9,090	11,600
5234	9.62	1,540	3,630	5,590	8,660	11,400	14,400
5237	2.28	840	1,950	2,940	4,480	5,790	7,290
5239	7.30	1,420	3,460	5,350	8,340	10,900	13,900
5240	12.1	1,380	3,420	5,420	8,620	11,500	14,800
5254	1.81	733	1,720	2,610	3,990	5,170	6,520
5255	268	9,010	19,600	28,700	42,100	53,500	65,900
5269	6.57	1,350	3,220	4,930	7,610	9,900	12,600
5277	272	9,100	19,800	28,900	42,500	54,000	66,400
5349	6.16	1,270	2,990	4,560	7,000	9,080	11,500
5353	16.7	2,090	4,790	7,290	11,200	14,600	18,500
5391	14.1	1,970	4,440	6,690	10,200	13,200	16,500
5393	23.7	2,590	5,830	8,820	13,500	17,600	22,100
5394	89.6	3,630	7,600	11,100	16,500	21,200	26,400
5395	28.3	2,180	5,220	8,150	12,800	17,000	21,800
5396	285	9,300	20,200	29,500	43,400	55,200	67,900
5397	37.0	3,360	7,390	11,100	16,800	21,800	27,400



EXPLANATION

- ← 1382 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 07156100 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 07156220 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 1201 Lake and determination site identification number

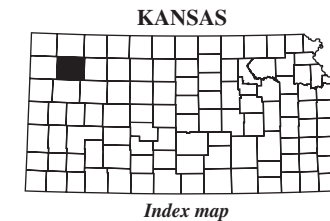


Figure 107. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Thomas County.

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

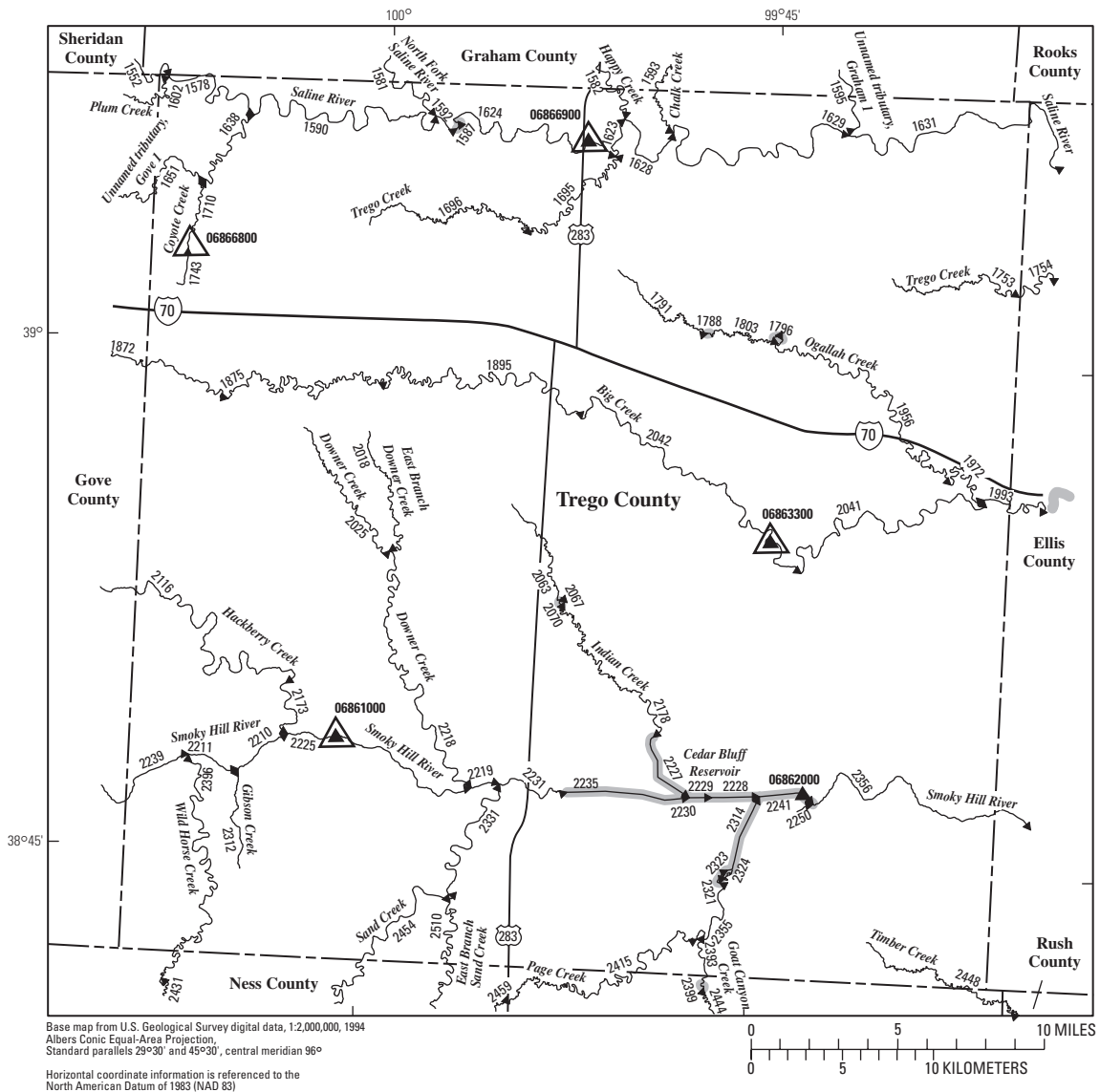
Table 103. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Thomas County.

[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. 107)	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	
		761	1025001511	TH						North Fork Prairie Dog Creek	21.8	0	0
835	HYDRO	TH				HYDRO	154	NA	NA	NA	NA	NA	NA
840	102500103	TH				Middle Fork Sappa Creek	177	0	0	0	0	0	0
879	102500104	TH				South Fork Sappa Creek	309	0	0	0	0	0	0
894	1025001512	TH				Prairie Dog Creek	153	0	0	0	0	0	0
955	1025001512	TH				Prairie Dog Creek	103	0	0	0	0	0	0
969	102500104	TH				South Fork Sappa Creek	252	0	0	0	0	0	0
976	102500104	TH				South Fork Sappa Creek	206	0	0	0	0	0	0
987	102500106	TH				South Fork Sappa Creek	115	0	0	0	0	0	0
1066	1026001113	TH				North Fork Solomon River	134	0	0	0	0	0	0
1079	1025001512	TH				Prairie Dog Creek	59.3	0	0	0	0	0	0
1115	1026001113	TH				North Fork Solomon River	85.8	0	0	0	0	0	0
1120	1025001512	TH				Prairie Dog Creek	24.3	0	0	0	0	0	0
1178	1026001113	TH				North Fork Solomon River	43.0	0	0	0	0	0	0
1201	HYDRO	TH				HYDRO	133	NA	NA	NA	NA	NA	NA
1211	1026001316	TH				South Fork Solomon River	86.9	0	0	.06	.15	.26	
1229	1026001316	TH				South Fork Solomon River	46.0	0	0	.02	.04	.07	
1236	1026001316	TH				South Fork Solomon River	65.0	0	0	.03	.08	.14	
1238	1026001316	TH				South Fork Solomon River	132	0	0	.13	.34	.60	
1239	1026001316	TH				South Fork Solomon River	106	0	0	.08	.22	.39	
1382	1026000918	TH				South Fork Saline River	58.9	0	0	0	.03	.03	
1429	1026000917	TH				North Fork Saline River	69.1	0	0	0	.05	.05	
1452	1026000918	TH				South Fork Saline River	99.1	0	0	.01	.10	.20	
1463	1026000918	TH				South Fork Saline River	127	0	0	.01	.16	.32	
1481	1026000918	TH				South Fork Saline River	132	0	0	.01	.17	.17	
1495	1026000918	TH				South Fork Saline River	155	0	0	.01	.23	.23	

Table 103. 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 Thomas 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. 107)	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
761	0	348	1,140	1,990	3,490	4,880	6,560
835	NA	NA	NA	NA	NA	NA	NA
840	.41	325	1,160	2,180	4,080	6,020	8,440
879	1.37	240	941	1,890	3,910	6,190	9,300
894	.78	348	1,200	2,200	4,040	5,900	8,180
955	.08	271	957	1,780	3,300	4,850	6,760
969	.82	197	823	1,710	3,670	5,960	9,120
976	.48	165	731	1,570	3,480	5,760	8,960
987	.18	81	474	1,150	2,850	5,000	8,130
1066	.55	345	1,200	2,200	4,060	5,940	8,260
1079	0	202	729	1,370	2,550	3,760	5,250
1115	0	266	939	1,740	3,230	4,730	6,590
1120	0	327	1,100	1,960	3,480	4,910	6,640
1178	0	186	670	1,250	2,330	3,420	4,770
1201	NA	NA	NA	NA	NA	NA	NA
1211	.14	242	872	1,640	3,070	4,540	6,360
1229	.04	181	659	1,240	2,320	3,430	4,790
1236	.08	208	756	1,420	2,670	3,950	5,530
1238	1.01	320	1,130	2,100	3,930	5,780	8,100
1239	.49	278	991	1,850	3,470	5,110	7,160
1382	.01	217	778	1,450	2,710	3,980	5,560
1429	.02	293	1,000	1,830	3,340	4,850	6,700
1452	.05	280	993	1,850	3,450	5,080	7,110
1463	.52	338	1,180	2,190	4,060	5,970	8,330
1481	.61	348	1,210	2,240	4,160	6,110	8,530
1495	1.11	408	1,400	2,570	4,750	6,950	9,680



EXPLANATION

- ← 2431 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06862000 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06861000 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 2235 Lake and determination site identification number

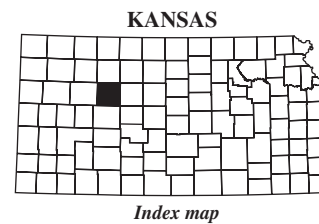


Figure 108. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Trego County.

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

Table 104. 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 Trego 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. 108)	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
		1587	HYDRO	TR					HYDRO	693	NA	NA
1590	1026000916	TR			Saline River	561	0	0	1.39	7.29	15.2	
1592	1026000914	TR			Saline River	692	0	0	2.44	11.4	22.9	
1623	1026000914	TR			Saline River	757	.21	.62	3.99	15.0	30.8	
1624	1026000914	TR			Saline River	709	0	.03	2.60	12.0	24.0	
1628	1026000914	TR			Saline River	805	.42	1.16	5.28	17.7	37.1	
1629	1026000914	TR			Saline River	857	.64	1.79	6.77	20.9	44.3	
1638	1026000923	TR			Coyote Creek	51.2	0	0	0	.03	.06	
1695	1026000924	TR			Trego Creek	47.0	0	.01	.02	.03	.07	
1696	1026000924	TR			Trego Creek	35.1	0	0	.01	.02	.04	
1710	1026000923	TR			Coyote Creek	18.1	0	0	0	0	0	
1743	1026000923	TR			Coyote Creek	11.3	0	0	0	0	0	
1753	1026000919	TR			Trego Creek	30.1	0	0	.01	.01	.03	
1788	HYDRO	TR			HYDRO	21.5	NA	NA	NA	NA	NA	
1791	102600076	TR			Ogallah Creek	21.5	0	0	.01	.01	.02	
1796	HYDRO	TR			HYDRO	36.1	NA	NA	NA	NA	NA	
1803	102600076	TR			Ogallah Creek	32.6	.01	.01	.02	.03	.04	
1875	102600077	TR			Big Creek	209	.10	.57	1.09	2.47	6.98	
1895	102600077	TR			Big Creek	244	.13	.78	1.66	3.95	10.2	
1956	102600076	TR			Ogallah Creek	68.1	.03	.04	.06	.13	.18	
1972	102600076	TR			Ogallah Creek	75.8	.03	.05	.08	.16	.33	
2018	1026000339	TR			East Branch Downer Creek	14.9	0	0	0	0	0	
2025	1026000311	TR			Downer Creek	21.2	0	0	0	0	0	
2041	102600077	TR			Big Creek	339	.41	1.40	3.52	8.14	18.6	
2042	102600077	TR			Big Creek	303	.20	1.20	2.90	6.60	16.0	
2063	102600037	TR			Indian Creek	25.2	0	0	0	0	0	
2067	HYDRO	TR			HYDRO	26.5	NA	NA	NA	NA	NA	
2070	102600037	TR			Indian Creek	26.5	0	0	0	0	0	
2173	102600051	TR			Hackberry Creek	625	0	0	.97	3.89	11.6	
2178	102600037	TR			Indian Creek	63.3	0	0	0	0	0	
2210	1026000313	TR			Smoky Hill River	4,590	0	.15	1.98	11.3	36.3	
2211	1026000313	TR			Smoky Hill River	4,570	0	.14	1.94	11.1	35.8	
2218	1026000311	TR			Downer Creek	68.5	0	0	0	0	0	
2219	1026000310	TR			Smoky Hill River	5,300	.16	.44	2.80	16.2	49.9	
2225	1026000312	TR			Smoky Hill River	5,230	.01	.17	2.30	15.0	47.0	
2227	HYDRO	TR			HYDRO	68.0	NA	NA	NA	NA	NA	
2228	HYDRO	TR			HYDRO	5,480	NA	NA	NA	NA	NA	
2229	HYDRO	TR			HYDRO	5,480	NA	NA	NA	NA	NA	

Table 104. 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 Trego 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. 108)	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
1587	NA	NA	NA	NA	NA	NA	NA
1590	15.0	2,130	6,520	11,400	20,200	29,000	39,800
1592	20.5	2,660	8,020	13,900	24,600	35,200	48,100
1623	25.1	2,700	8,120	14,100	24,900	35,600	48,800
1624	21.3	2,720	8,200	14,200	25,100	35,900	49,100
1628	28.6	2,660	8,020	13,900	24,600	35,300	48,300
1629	32.5	2,610	7,870	13,700	24,200	34,700	47,700
1638	1.81	355	1,090	1,940	3,510	5,140	7,100
1695	1.33	378	1,180	2,060	3,590	5,080	6,850
1696	.62	332	1,040	1,830	3,210	4,550	6,130
1710	0	161	565	1,050	1,980	2,930	4,130
1743	0	219	685	1,190	2,080	2,930	3,960
1753	.51	323	1,000	1,740	3,030	4,270	5,730
1788	NA	NA	NA	NA	NA	NA	NA
1791	.01	449	1,380	2,340	4,000	5,510	7,330
1796	NA	NA	NA	NA	NA	NA	NA
1803	.39	267	870	1,550	2,760	3,950	5,360
1875	11.4	887	2,920	5,300	9,770	14,400	20,300
1895	15.1	1,040	3,430	6,250	11,600	17,200	24,200
1956	2.28	409	1,280	2,260	3,980	5,650	7,660
1972	2.72	433	1,350	2,380	4,180	5,930	8,030
2018	0	339	1,050	1,790	3,070	4,240	5,640
2025	0	388	1,230	2,130	3,680	5,110	6,830
2041	23.1	1,340	4,290	7,730	14,200	21,100	29,700
2042	21.7	1,340	4,430	8,090	15,100	22,500	31,900
2063	0	467	1,460	2,500	4,300	5,950	7,930
2067	NA	NA	NA	NA	NA	NA	NA
2070	0	480	1,500	2,570	4,430	6,130	8,180
2173	13.7	719	2,950	6,140	13,300	21,800	33,900
2178	1.28	454	1,390	2,400	4,170	5,870	7,870
2210	35.7	1,930	7,150	13,800	27,500	42,400	62,000
2211	35.4	1,920	7,130	13,800	27,500	42,400	62,000
2218	1.15	433	1,350	2,370	4,160	5,900	7,970
2219	45.9	2,270	7,770	14,600	28,100	42,700	61,900
2225	44.0	2,230	7,660	14,400	27,800	42,300	61,400
2227	NA	NA	NA	NA	NA	NA	NA
2228	NA	NA	NA	NA	NA	NA	NA
2229	NA	NA	NA	NA	NA	NA	NA

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Table 104. 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 Trego County.—Continued

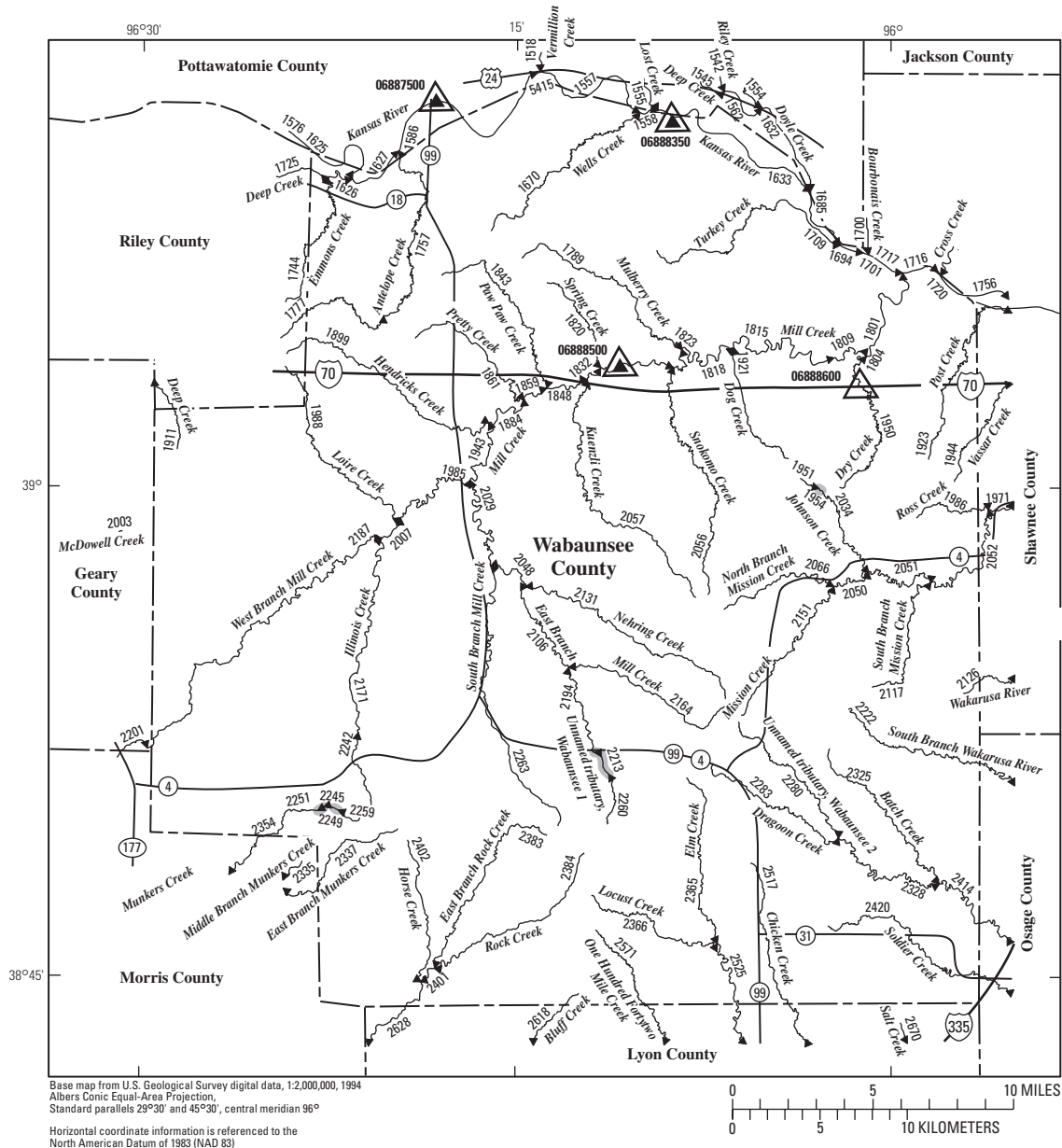
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 108)	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
		2230	HYDRO	TR						HYDRO	68.0	NA
2231	102600039	TR				Smoky Hill River	5,390	.36	.83	3.52	17.9	54.1
2235	HYDRO	TR				HYDRO	5,410	NA	NA	NA	NA	NA
2241	HYDRO	TR				HYDRO	5,560	NA	NA	NA	NA	NA
2250	1026000622	TR				Smoky Hill River	3.63	0	0	0	0	0
2312	1026000334	TR				Gibson Creek	13.7	0	0	0	0	0
2314	HYDRO	TR				HYDRO	69.8	NA	NA	NA	NA	NA
2321	HYDRO	TR				HYDRO	64.3	NA	NA	NA	NA	NA
2323	1026000331	TR				Page Creek	1.98	0	0	0	0	0
2324	HYDRO	TR				HYDRO	63.0	NA	NA	NA	NA	NA
2331	1026000329	TR				Sand Creek	78.5	0	0	0	0	0
2355	1026000331	TR				Page Creek	59.3	0	0	0	0	0
2393	1026000341	TR				Goat Canyon Creek	10.4	0	0	0	0	0

Table 104. 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 Trego 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. 108)	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
2230	NA	NA	NA	NA	NA	NA	NA
2231	48.5	2,340	7,930	14,800	28,500	43,200	62,600
2235	NA	NA	NA	NA	NA	NA	NA
2241	NA	NA	NA	NA	NA	NA	NA
2250	0	140	426	723	1,230	1,690	2,230
2312	0	312	971	1,670	2,860	3,950	5,260
2314	NA	NA	NA	NA	NA	NA	NA
2321	NA	NA	NA	NA	NA	NA	NA
2323	0	99	298	501	845	1,160	1,520
2324	NA	NA	NA	NA	NA	NA	NA
2331	1.86	515	1,560	2,700	4,680	6,580	8,830
2355	1.06	398	1,260	2,210	3,890	5,530	7,480
2393	0	265	821	1,400	2,400	3,320	4,410



EXPLANATION

- ← 2628 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06888500 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06888600 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 2213 Lake and determination site identification number

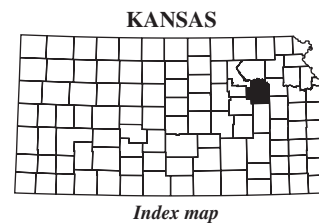


Figure 109. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Wabaunsee County.

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

Table 105. 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 Wabaunsee 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. 109)	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
		1626	1027010226	WB						Deep Creek	76.3	0
1670	1027010268	WB				Wells Creek	20.1	0	.14	1.94	5.90	16.1
1789	1027010277	WB				Mulberry Creek	15.2	0	0	.83	3.34	10.7
1801	1027010227	WB				Mill Creek	400	5.47	21.1	64.8	184	426
1804	1027010227	WB				Mill Creek	377	5.27	20.5	62.3	176	402
1809	1027010227	WB				Mill Creek	379	5.29	20.5	62.6	177	404
1815	1027010227	WB				Mill Creek	377	5.26	20.5	62.3	176	402
1818	1027010227	WB				Mill Creek	353	5.07	19.9	59.7	168	377
1820	1027010276	WB				Spring Creek	6.34	0	0	.43	1.29	4.08
1823	1027010227	WB				Mill Creek	334	4.96	19.5	58.3	163	362
1825	1027010227	WB				Mill Creek	312	4.80	19.0	56.0	156	339
1832	1027010227	WB				Mill Creek	302	4.48	18.0	53.4	150	327
1843	1027010275	WB				Paw Paw Creek	11.8	.01	.02	1.15	3.53	9.77
1848	1027010227	WB				Mill Creek	274	3.64	15.3	46.3	131	292
1859	1027010227	WB				Mill Creek	261	3.27	14.2	43.4	123	278
1861	1027010274	WB				Pretty Creek	10.6	0	.02	1.03	3.09	8.51
1884	1027010227	WB				Mill Creek	249	2.94	13.2	40.7	116	265
1921	1027010278	WB				Dog Creek	11.6	0	.02	1.61	4.81	12.7
1943	1027010227	WB				Mill Creek	230	2.43	11.5	36.4	105	242
1950	1027010279	WB				Dry Creek	13.0	0	0	1.06	3.81	11.4
1951	1027010284	WB				Johnson Creek	3.68	0	0	.33	.86	2.79
1954	HYDRO	WB				HYDRO	3.69	NA	NA	NA	NA	NA
1985	1027010228	WB				West Branch Mill Creek	131	.68	4.67	16.7	50.5	126
2007	1027010228	WB				West Branch Mill Creek	101	.41	3.10	12.1	37.3	95.5
2029	1027010231	WB				East Branch Mill Creek	94.4	.35	3.25	12.9	39.4	100
2034	1027010284	WB				Johnson Creek	9.89	0	0	1.12	3.52	9.76
2048	1027010233	WB				East Branch Mill Creek	54.2	.12	1.46	7.02	22.0	57.4
2050	1027010237	WB				Mission Creek	25.9	0	.34	3.18	10.2	27.8
2051	1027010237	WB				Mission Creek	39.9	0	.68	4.56	14.9	41.1
2056	1027010285	WB				Snokomo Creek	21.0	0	.28	2.75	8.45	22.4
2057	1027010282	WB				Kuenzli Creek	27.6	.03	.50	3.51	10.8	28.2
2066	1027010283	WB				North Branch Mission Creek	10.7	0	0	1.32	4.05	11.0
2106	1027010233	WB				East Branch Mill Creek	34.0	.05	.70	4.36	13.8	36.2
2117	1027010238	WB				South Branch Mission Creek	12.5	0	.01	1.77	5.51	14.7
2131	1027010281	WB				Nehring Creek	17.7	.01	.24	2.51	7.61	19.7
2151	1027010237	WB				Mission Creek	13.2	0	.01	1.78	5.56	14.9
2164	1027010233	WB				East Branch Mill Creek	11.3	0	.02	1.61	4.84	12.7
2171	1027010230	WB				Illinois Creek	35.2	.05	.56	4.00	12.8	34.3

Table 105. 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 Wabaunsee 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. 109)	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
1626	45.7	4,400	9,050	13,100	19,200	24,500	30,200
1670	12.4	1,570	3,520	5,240	7,890	10,100	12,700
1789	9.18	1,350	2,990	4,440	6,660	8,530	10,700
1801	241	10,700	21,800	31,200	45,300	57,300	70,500
1804	229	10,900	22,200	31,600	45,700	57,600	70,900
1809	230	10,600	21,700	31,000	44,900	56,700	69,800
1815	229	10,900	22,200	31,600	45,700	57,700	70,900
1818	215	11,400	22,900	32,400	46,600	58,500	71,700
1820	3.85	807	1,760	2,590	3,850	4,900	6,100
1823	206	11,800	23,400	33,000	47,100	59,100	72,200
1825	194	11,600	23,000	32,400	46,300	58,000	70,800
1832	188	11,900	23,400	32,900	46,800	58,500	71,300
1843	7.74	1,150	2,560	3,780	5,670	7,240	9,050
1848	170	11,200	22,000	30,900	44,000	55,100	67,200
1859	162	11,200	21,800	30,600	43,600	54,500	66,300
1861	6.86	1,080	2,390	3,530	5,280	6,750	8,420
1884	156	11,000	21,400	30,000	42,700	53,400	65,000
1921	9.11	1,200	2,620	3,860	5,760	7,340	9,150
1943	144	10,900	21,000	29,400	41,800	52,200	63,400
1950	9.11	1,670	3,080	4,280	6,110	7,730	9,560
1951	2.60	624	1,330	1,930	2,830	3,580	4,440
1954	NA	NA	NA	NA	NA	NA	NA
1985	80.5	7,690	15,000	21,300	30,400	38,200	46,600
2007	63.0	7,210	14,000	19,700	28,100	35,200	42,800
2029	63.5	6,270	12,300	17,500	25,100	31,600	38,500
2034	7.49	1,110	2,410	3,540	5,250	6,690	8,320
2048	38.1	5,270	10,300	14,500	20,700	25,900	31,500
2050	19.5	1,960	4,340	6,430	9,640	12,300	15,400
2051	28.5	3,890	7,840	11,200	16,300	20,600	25,200
2056	15.6	1,670	3,700	5,500	8,260	10,600	13,200
2057	19.5	1,930	4,330	6,460	9,750	12,500	15,700
2066	8.23	1,160	2,530	3,720	5,520	7,030	8,750
2106	24.8	4,230	8,340	11,800	16,900	21,200	25,700
2117	10.4	1,300	2,820	4,140	6,150	7,830	9,740
2131	13.7	1,540	3,390	5,010	7,500	9,590	12,000
2151	10.7	1,340	2,910	4,280	6,360	8,100	10,100
2164	9.10	1,200	2,620	3,840	5,720	7,280	9,060
2171	23.9	4,230	8,430	12,000	17,200	21,700	26,400

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Table 105. 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 Wabaunsee County.—Continued

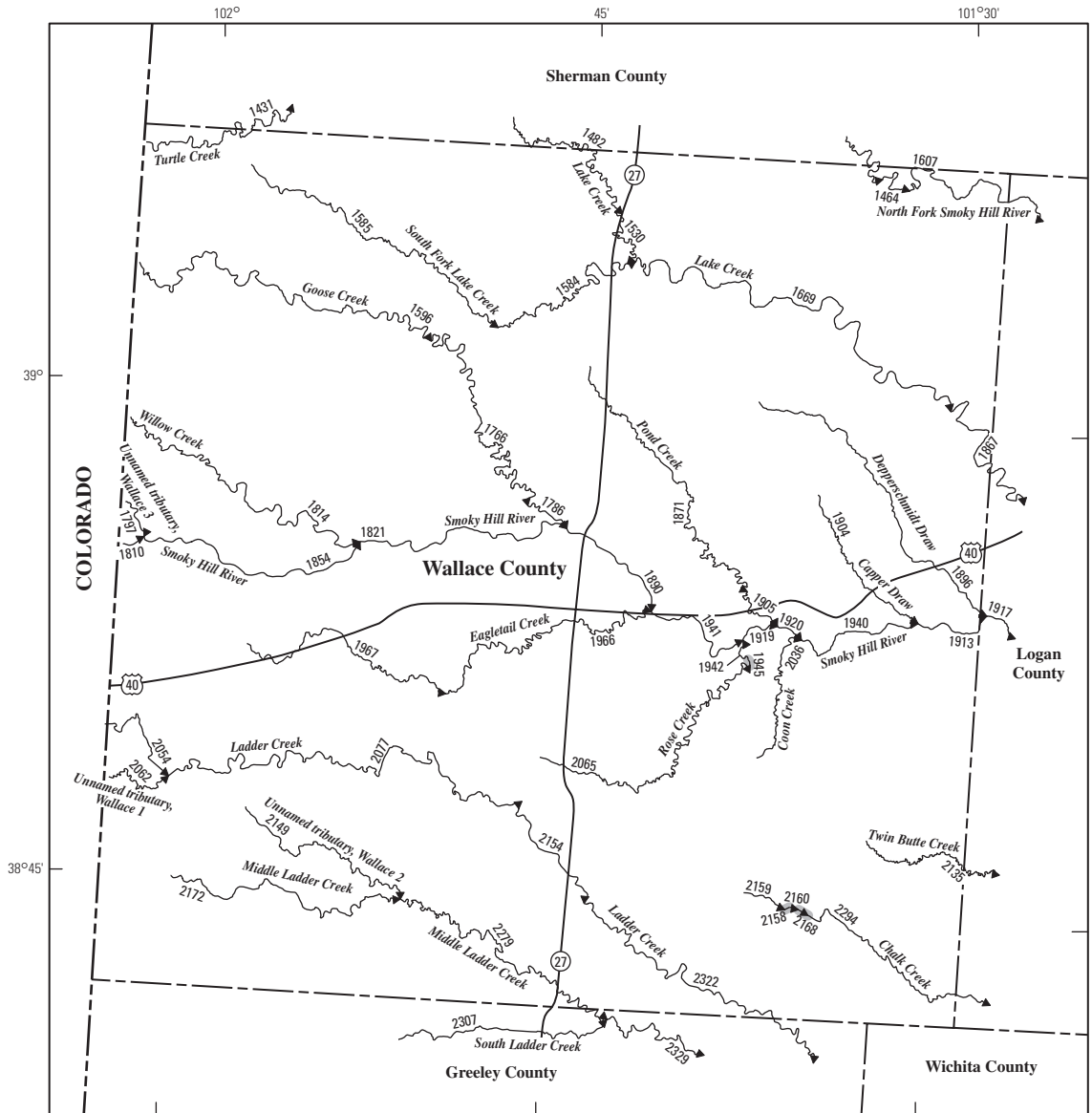
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 109)	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
		2194	10270102693	WB						Unnamed tributary, Wabaunsee 1	17.3	0.01
2213	HYDRO	WB				HYDRO	9.73	NA	NA	NA	NA	NA
2242	1027010230	WB				Illinois Creek	10.4	0	.01	.87	2.92	8.48
2245	1107020118	WB				Munkers Creek	2.10	0	0	0	0	0
2249	HYDRO	WB				HYDRO	1.38	NA	NA	NA	NA	NA
2251	HYDRO	WB				HYDRO	2.91	NA	NA	NA	NA	NA
2259	1107020118	WB				Munkers Creek	1.26	0	0	0	0	0
2260	10270102693	WB				Unnamed tributary, Wabaunsee 1	7.26	0	.01	.71	2.34	6.80
2263	1027010232	WB				South Branch Mill Creek	31.6	.04	.72	4.36	13.4	34.4
2280	102901011072	WB				Unnamed tributary, Wabaunsee 2	8.45	0	0	.64	2.49	7.73
2283	1029010127	WB				Dragoon Creek	10.1	0	0	.71	2.86	8.96
2325	1029010186	WB				Batch Creek	13.8	0	0	.94	3.82	11.9
2328	1029010127	WB				Dragoon Creek	25.1	0	0	2.23	8.30	24.2
2365	1029010139	WB				Elm Creek	15.2	0	0	1.14	4.32	13.2
2366	1029010169	WB				Locust Creek	10.2	0	0	.40	1.94	6.85
2383	1107020134	WB				East Branch Rock Creek	13.8	0	0	.77	2.87	9.03
2384	110702019	WB				Rock Creek	16.9	0	0	1.09	3.94	12.0
2401	110702019	WB				Rock Creek	31.2	0	0	2.13	7.46	22.1
2402	1107020133	WB				Horse Creek	14.2	0	0	.69	2.64	8.51

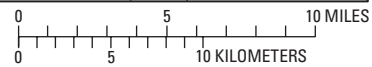
Table 105. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Wabaunsee County.—Continued

[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. 109)	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
2194	13.0	1,510	3,340	4,940	7,390	9,450	11,800
2213	NA	NA	NA	NA	NA	NA	NA
2242	6.88	1,060	2,350	3,480	5,210	6,650	8,310
2245	.10	422	901	1,310	1,930	2,440	3,020
2249	NA	NA	NA	NA	NA	NA	NA
2251	NA	NA	NA	NA	NA	NA	NA
2259	0	312	660	955	1,400	1,760	2,180
2260	5.46	916	1,980	2,900	4,300	5,470	6,800
2263	23.1	4,010	7,950	11,300	16,100	20,200	24,600
2280	6.43	1,050	2,250	3,280	4,830	6,120	7,600
2283	7.48	1,160	2,490	3,640	5,380	6,820	8,470
2325	9.91	1,420	3,050	4,450	6,570	8,340	10,400
2328	18.4	1,980	4,260	6,240	9,260	11,800	14,700
2365	10.6	1,460	3,190	4,710	7,040	9,000	11,200
2366	6.32	1,120	2,440	3,590	5,360	6,830	8,520
2383	7.89	1,240	2,760	4,100	6,170	7,900	9,900
2384	9.99	1,420	3,160	4,690	7,060	9,050	11,300
2401	17.5	3,340	6,910	10,000	14,600	18,600	22,800
2402	7.63	1,220	2,740	4,090	6,170	7,910	9,920



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

- ◀ 2172 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- ▲ 07156100 U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- △ 07156220 U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 2160 Lake and determination site identification number

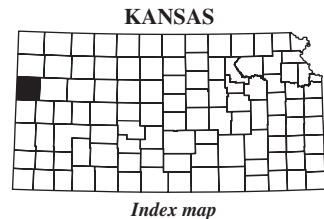


Figure 110. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Wallace County.

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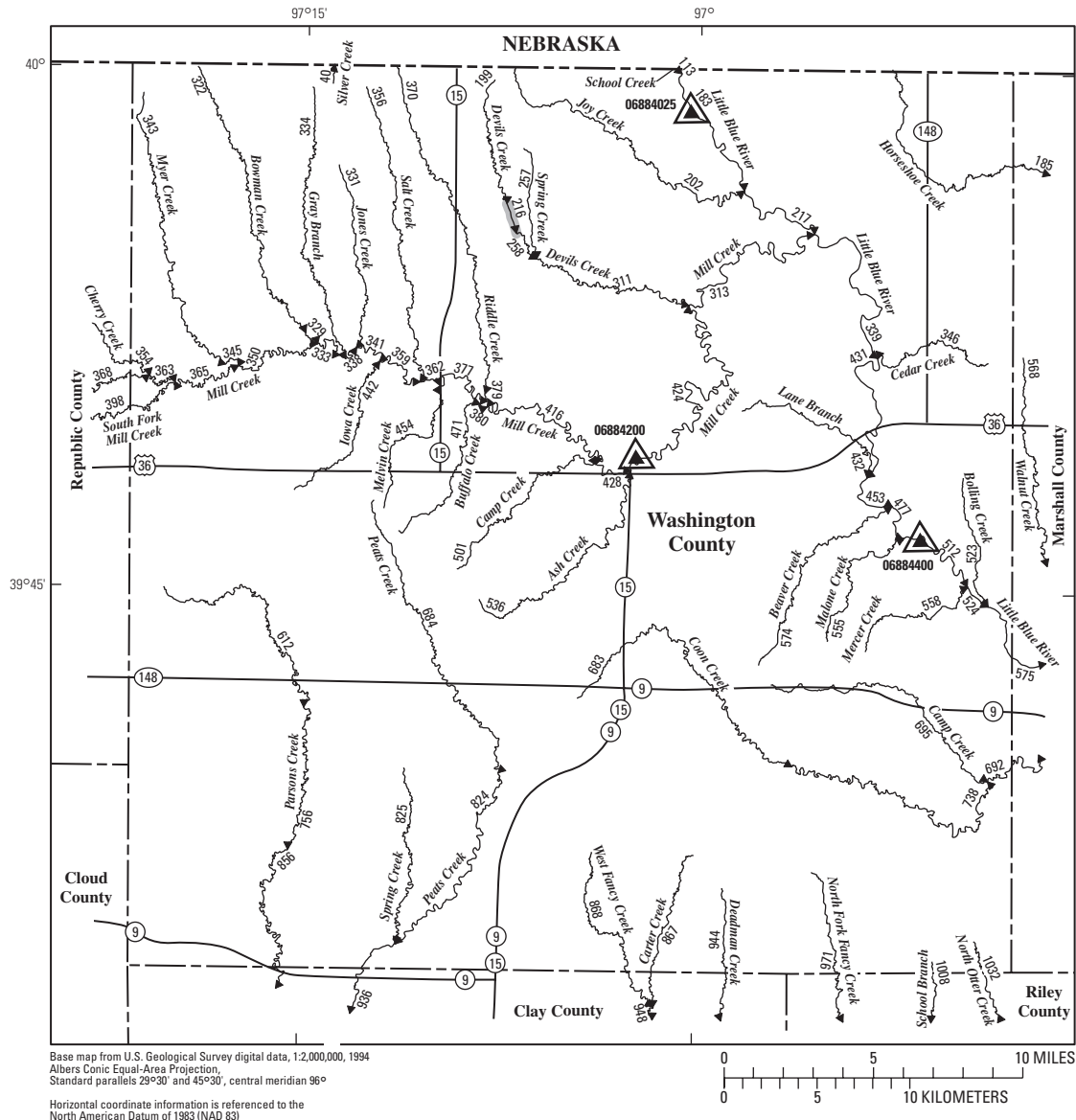
Table 106. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Wallace County.

[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. 110)	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	
		1530	102600012	WA						Lake Creek	49.9	0	0
1584	1026000118	WA				South Fork Lake Creek	56.1	0	0	0	0	0	0
1585	1026000118	WA				South Fork Lake Creek	38.0	0	0	0	0	0	0
1596	102600015	WA				Goose Creek	74.3	0	0	0	0	0	0
1669	102600012	WA				Lake Creek	169	0	0	0	0	0	0
1766	102600015	WA				Goose Creek	103	0	0	0	0	0	0
1786	102600015	WA				Goose Creek	106	0	0	0	0	0	0
1797	102600019	WA				Unnamed tributary, Wallace 3	20.8	0	0	0	0	0	0
1810	1026000110	WA				Smoky Hill River	319	0	0	0	0	0	0
1814	102600017	WA				Willow Creek	56.4	0	0	0	0	0	0
1821	102600016	WA				Smoky Hill River	443	0	0	0	0	0	0
1854	102600018	WA				Smoky Hill River	362	0	0	0	0	0	0
1871	1026000121	WA				Pond Creek	44.3	0	0	0	0	0	0
1890	102600014	WA				Smoky Hill River	560	0	0	0	0	0	0
1904	10260001311	WA				Capper Draw	17.7	0	0	0	0	0	0
1905	1026000121	WA				Pond Creek	47.3	0	0	0	0	0	0
1919	102600013	WA				Smoky Hill River	674	0	0	0	0	0	0
1920	102600013	WA				Smoky Hill River	723	0	0	0	0	0	.09
1940	102600013	WA				Smoky Hill River	758	0	0	0	0	0	.55
1941	102600013	WA				Smoky Hill River	632	0	0	0	0	0	0
1942	1026000119	WA				Rose Creek	40.8	0	0	0	0	0	0
1945	HYDRO	WA				HYDRO	40.2	NA	NA	NA	NA	NA	NA
1966	1026000117	WA				Eagletail Creek	64.0	0	0	0	0	0	0
1967	1026000117	WA				Eagletail Creek	32.4	0	0	0	0	0	0
2036	1026000120	WA				Coon Creek	20.6	0	0	0	0	0	0
2054	1026000410	WA				Ladder Creek	134	0	0	.01	.01	.01	.01
2062	1026000411	WA				Unnamed tributary, Wallace 1	45.0	0	0	0	0	0	0
2065	1026000119	WA				Rose Creek	40.0	0	0	0	0	0	0
2077	102600049	WA				Ladder Creek	223	0	.01	.03	.03	.03	.03
2149	1026000417	WA				Unnamed tributary, Wallace 2	18.3	0	0	0	0	0	0
2154	102600049	WA				Ladder Creek	237	0	.01	.03	.03	.03	.03
2158	HYDRO	WA				HYDRO	15.2	NA	NA	NA	NA	NA	NA
2159	102600044	WA				Chalk Creek	14.9	0	0	0	0	0	0
2160	102600044	WA				Chalk Creek	16.4	0	0	0	0	0	0
2168	HYDRO	WA				HYDRO	17.2	NA	NA	NA	NA	NA	NA
2172	1026000413	WA				Middle Ladder Creek	37.4	0	0	0	0	0	0

Table 106. 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 Wallace 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. 110)	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
1530	0	194	700	1,310	2,440	3,590	5,000
1584	0	217	773	1,440	2,660	3,900	5,420
1585	0	172	625	1,170	2,180	3,210	4,460
1596	0	256	907	1,680	3,120	4,580	6,370
1669	.89	416	1,400	2,550	4,650	6,750	9,320
1766	0	275	969	1,790	3,320	4,870	6,760
1786	0	273	960	1,780	3,290	4,820	6,690
1797	0	204	753	1,390	2,560	3,680	5,060
1810	0	370	1,370	2,620	5,000	7,470	10,600
1814	0	213	767	1,430	2,670	3,930	5,470
1821	.62	532	1,870	3,470	6,480	9,570	13,400
1854	0	419	1,530	2,880	5,460	8,130	11,500
1871	0	223	757	1,370	2,490	3,600	4,930
1890	1.71	673	2,280	4,190	7,720	11,300	15,800
1904	0	255	869	1,550	2,760	3,890	5,270
1905	0	210	721	1,310	2,390	3,460	4,760
1919	3.00	818	2,710	4,930	9,000	13,100	18,200
1920	3.62	877	2,880	5,210	9,490	13,800	19,200
1940	4.08	906	2,960	5,360	9,750	14,200	19,700
1941	2.51	763	2,550	4,640	8,510	12,400	17,300
1942	0	219	765	1,410	2,580	3,760	5,190
1945	NA	NA	NA	NA	NA	NA	NA
1966	0	290	985	1,790	3,260	4,720	6,490
1967	0	187	659	1,220	2,240	3,270	4,520
2036	0	278	950	1,700	3,030	4,280	5,800
2054	0	190	753	1,480	2,890	4,380	6,280
2062	0	107	438	869	1,720	2,610	3,750
2065	0	217	758	1,390	2,560	3,730	5,140
2077	0	271	1,040	2,010	3,890	5,880	8,400
2149	0	220	780	1,420	2,560	3,650	4,990
2154	0	285	1,090	2,100	4,060	6,120	8,740
2158	NA	NA	NA	NA	NA	NA	NA
2159	0	213	737	1,320	2,370	3,360	4,560
2160	0	226	783	1,410	2,520	3,570	4,860
2168	NA	NA	NA	NA	NA	NA	NA
2172	0	116	457	890	1,720	2,590	3,680



EXPLANATION

- ◀ 869 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06884200 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06856320 ▴ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 216 Lake and determination site identification number

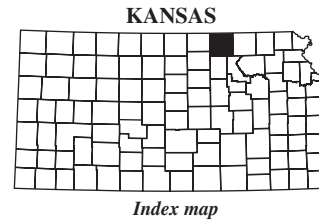


Figure 111. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Washington County.

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Table 107. 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 Washington 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. 111)	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		
40	1027020728	WS				Silver Creek	1.49	0	0	0	0	0	0	0
113	1027020749	WS				School Creek	2,660	109	143	215	384	904		
183	102702074	WS				Little Blue River	2,680	109	141	211	377	885		
199	1027020715	WS				Devils Creek	10.3	0	.29	1.13	2.16	4.88		
202	1027020713	WS				Joy Creek	30.9	.01	.71	2.84	7.05	16.9		
216	HYDRO	WS				HYDRO	11.6	NA	NA	NA	NA	NA		
217	102702073	WS				Little Blue River	2,710	110	143	215	388	917		
257	1027020730	WS				Spring Creek	7.91	0	.48	1.22	2.06	4.26		
258	1027020715	WS				Devils Creek	13.2	0	.43	1.53	3.14	7.00		
311	1027020715	WS				Devils Creek	40.3	.01	1.39	4.42	10.6	24.3		
313	1027020714	WS				Mill Creek	442	5.40	10.6	25.1	70.1	217		
322	1027020721	WS				Bowman Creek	28.6	.01	.30	1.92	4.95	12.6		
329	1027020721	WS				Bowman Creek	28.9	.01	.31	1.95	5.03	12.8		
331	1027020729	WS				Jones Creek	9.19	0	0	.40	.81	2.56		
333	1027020720	WS				Mill Creek	195	.68	3.46	9.95	28.3	82.2		
334	1027020727	WS				Gray Branch	17.0	0	0	.86	2.20	6.08		
338	1027020720	WS				Mill Creek	213	.86	3.77	10.7	30.6	89.9		
339	102702072	WS				Little Blue River	3,170	125	166	260	505	1,280		
341	1027020720	WS				Mill Creek	223	.97	3.95	11.1	31.9	94.5		
343	1027020726	WS				Myer Creek	32.2	.01	.25	1.79	4.74	12.5		
345	1027020726	WS				Myer Creek	33.1	.01	.28	1.86	4.94	13.0		
346	1027020740	WS				Cedar Creek	14.7	0	0	.76	2.12	6.01		
350	1027020722	WS				Mill Creek	166	.39	2.87	8.45	23.9	68.1		
356	1027020719	WS				Salt Creek	16.6	0	.07	1.13	2.76	7.13		
359	1027020720	WS				Mill Creek	246	1.29	4.57	12.6	36.1	107		
362	1027020718	WS				Mill Creek	263	1.48	4.91	13.4	38.4	115		
363	1027020722	WS				Mill Creek	79.0	.04	.97	3.65	10.3	28.4		
365	1027020722	WS				Mill Creek	125	.10	2.05	6.39	17.9	49.9		
370	1027020717	WS				Riddle Creek	28.1	.01	.45	2.23	5.67	14.1		
377	1027020718	WS				Mill Creek	272	1.61	5.15	14.0	40.0	120		
379	1027020717	WS				Riddle Creek	28.2	.01	.45	2.25	5.70	14.2		
380	1027020718	WS				Mill Creek	281	1.75	5.38	14.5	41.5	125		
416	1027020716	WS				Mill Creek	323	2.29	6.25	16.5	47.6	147		
424	1027020716	WS				Mill Creek	389	3.20	7.50	19.0	56.0	181		
428	1027020716	WS				Mill Creek	338	2.51	6.59	17.3	50.0	156		
431	102702072	WS				Little Blue River	3,200	126	167	263	511	1,300		
432	1027020739	WS				Lane Branch	15.2	0	.15	1.23	2.84	7.05		
442	1027020734	WS				Iowa Creek	20.6	0	.68	2.23	4.85	11.0		

Table 107. 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 Washington 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. 111)	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
40	0	242	560	842	1,280	1,640	2,060
113	547	11,200	20,900	29,200	42,000	53,300	66,200
183	535	11,200	21,000	29,300	42,100	53,400	66,300
199	4.13	768	1,830	2,810	4,330	5,640	7,140
202	12.5	1,470	3,400	5,180	7,930	10,300	13,000
216	NA	NA	NA	NA	NA	NA	NA
217	547	11,300	21,000	29,100	41,600	52,500	65,000
257	3.44	672	1,590	2,420	3,720	4,820	6,090
258	5.50	891	2,140	3,270	5,070	6,600	8,370
311	16.9	1,720	3,870	5,820	8,820	11,400	14,300
313	128	4,960	8,410	11,000	14,400	17,200	20,100
322	10.1	1,350	3,300	5,110	7,980	10,500	13,300
329	10.2	1,360	3,320	5,140	8,040	10,500	13,400
331	2.98	710	1,700	2,590	4,000	5,210	6,600
333	55.3	3,380	6,990	10,200	15,100	19,300	24,000
334	5.68	1,000	2,430	3,750	5,820	7,600	9,670
338	59.9	3,590	7,300	10,500	15,500	19,700	24,500
339	680	13,100	21,600	28,100	37,100	44,400	52,200
341	62.5	3,660	7,370	10,600	15,500	19,800	24,500
343	10.4	1,320	3,130	4,830	7,500	9,870	12,500
345	10.7	1,310	3,130	4,830	7,500	9,880	12,500
346	5.51	944	2,270	3,490	5,410	7,050	8,950
350	47.0	3,020	6,410	9,460	14,100	18,300	22,800
356	6.17	1,020	2,450	3,760	5,840	7,610	9,660
359	69.3	3,830	7,560	10,800	15,500	19,700	24,200
362	73.9	4,040	7,830	11,100	15,800	19,900	24,400
363	22.2	1,980	4,550	6,960	10,700	14,100	17,800
365	35.9	2,600	5,710	8,570	13,000	16,900	21,200
370	10.9	1,400	3,380	5,210	8,110	10,600	13,500
377	76.6	4,040	7,770	10,900	15,600	19,500	23,900
379	10.9	1,400	3,390	5,220	8,130	10,600	13,500
380	79.3	4,170	7,930	11,100	15,700	19,600	23,900
416	90.8	4,350	7,930	10,800	15,000	18,400	22,100
424	108	4,830	8,160	10,600	13,900	16,500	19,200
428	95.3	4,460	8,000	10,800	14,800	18,000	21,600
431	688	13,100	21,400	27,700	36,500	43,500	51,000
432	5.96	982	2,350	3,610	5,580	7,270	9,220
442	8.21	1,140	2,760	4,260	6,620	8,650	11,000

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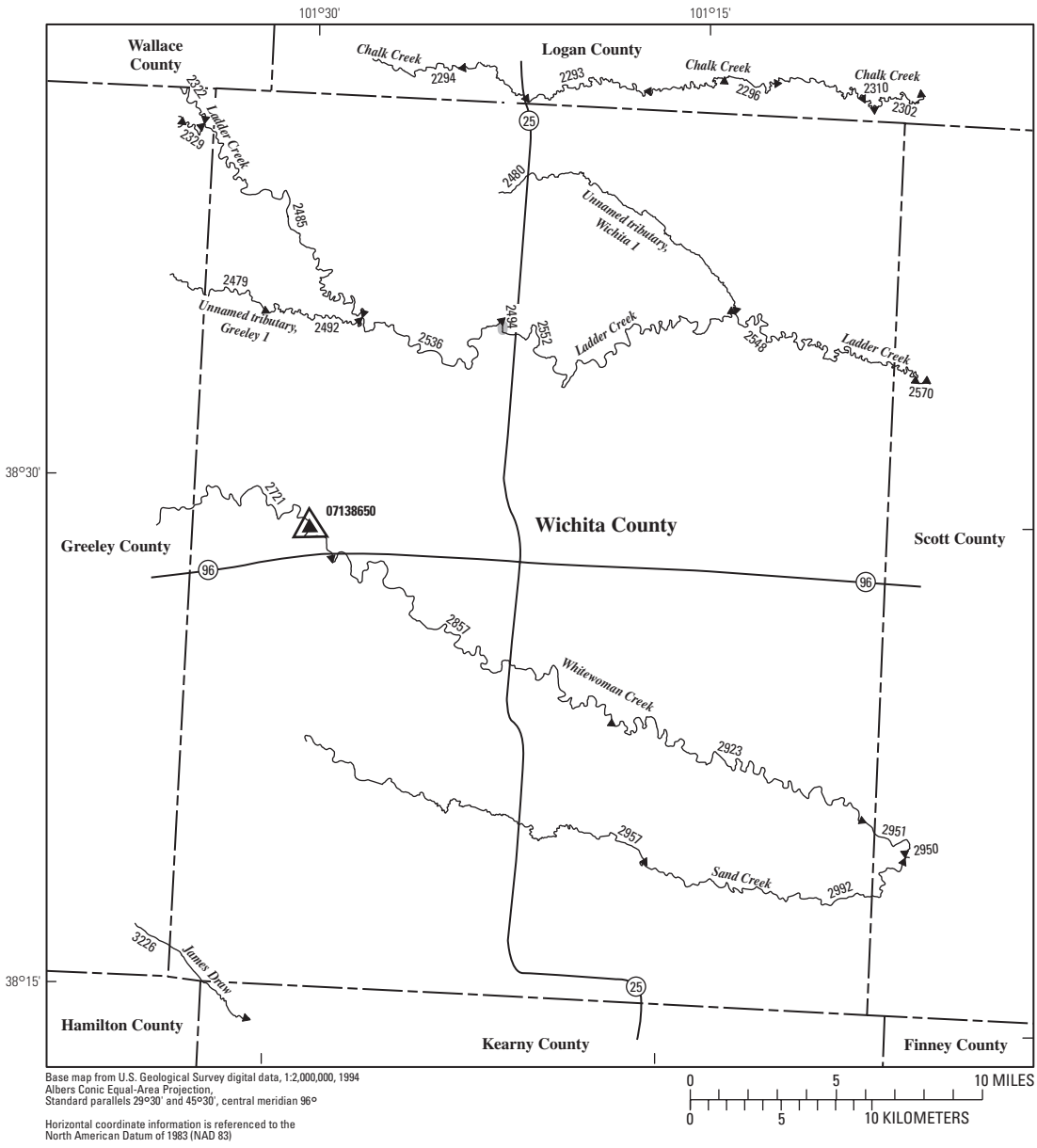
Table 107. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Washington County.—Continued

[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. 111)	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
		453	102702072	WS						Little Blue River	3,220	127
454	1027020733	WS				Melvin Creek	7.15	0	.25	.74	1.12	2.64
471	1027020732	WS				Buffalo Creek	9.26	0	.21	.86	1.55	3.74
477	102702072	WS				Little Blue River	3,240	128	169	267	522	1,330
501	1027020735	WS				Camp Creek	14.3	0	.27	1.28	2.82	6.85
512	102702072	WS				Little Blue River	3,250	128	170	268	525	1,340
523	1027020742	WS				Bolling Creek	11.0	0	0	.51	1.35	4.06
524	102702072	WS				Little Blue River	3,260	128	170	269	527	1,340
536	1027020736	WS				Ash Creek	26.2	0	.14	1.51	4.16	11.3
555	1027020737	WS				Malone Creek	7.99	0	0	0	.11	1.53
558	1027020743	WS				Mercer Creek	9.41	0	0	0	.26	2.00
574	1027020738	WS				Beaver Creek	21.3	0	0	1.05	3.16	9.05
612	1025001712	WS				Parsons Creek	48.2	0	.86	3.37	8.72	21.7
683	1027020723	WS				Coon Creek	46.3	0	.28	2.03	5.96	16.8
684	1025001710	WS				Peats Creek	34.6	0	.47	2.28	5.95	15.2
695	1027020744	WS				Camp Creek	21.6	0	0	.96	2.94	8.65
738	1027020723	WS				Coon Creek	75.8	.01	1.15	4.58	13.0	34.7
756	1025001712	WS				Parsons Creek	72.2	0	1.20	4.45	11.9	30.7
824	1025001710	WS				Peats Creek	62.2	0	.99	3.87	10.5	27.0
825	1025001753	WS				Spring Creek	19.9	0	0	1.03	2.65	7.19

Table 107. 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 Washington 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. 111)	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
453	694	13,100	21,400	27,600	36,200	43,000	50,200
454	2.68	641	1,510	2,290	3,510	4,550	5,740
471	3.54	752	1,770	2,700	4,140	5,370	6,790
477	701	13,200	21,400	27,500	35,800	42,500	49,500
501	5.76	980	2,320	3,540	5,460	7,090	8,970
512	704	13,100	21,200	27,200	35,400	41,900	48,700
523	4.05	803	1,920	2,930	4,530	5,890	7,470
524	706	13,000	21,300	27,600	36,300	43,400	50,800
536	9.62	1,400	3,350	5,140	7,960	10,400	13,200
555	2.49	678	1,600	2,440	3,740	4,860	6,140
558	2.95	752	1,780	2,710	4,170	5,410	6,840
574	7.99	1,210	2,910	4,470	6,930	9,040	11,500
612	16.6	1,810	4,140	6,290	9,620	12,600	15,800
683	14.6	1,740	4,070	6,240	9,620	12,600	16,000
684	12.2	1,300	3,110	4,830	7,510	9,900	12,600
695	7.91	1,240	2,970	4,560	7,060	9,200	11,700
738	26.5	2,050	4,800	7,380	11,500	15,100	19,100
756	23.2	1,890	4,440	6,840	10,600	14,000	17,700
824	20.8	1,570	3,790	5,910	9,270	12,300	15,700
825	6.60	1,110	2,690	4,150	6,470	8,460	10,800



EXPLANATION

- ← 3226 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 07138650 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 07138650 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 2494 Lake and determination site identification number

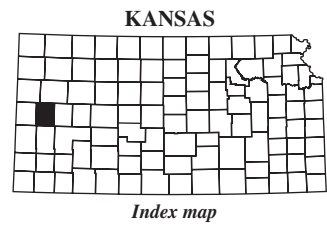


Figure 112. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Wichita County.

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Table 108. 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 Wichita County.

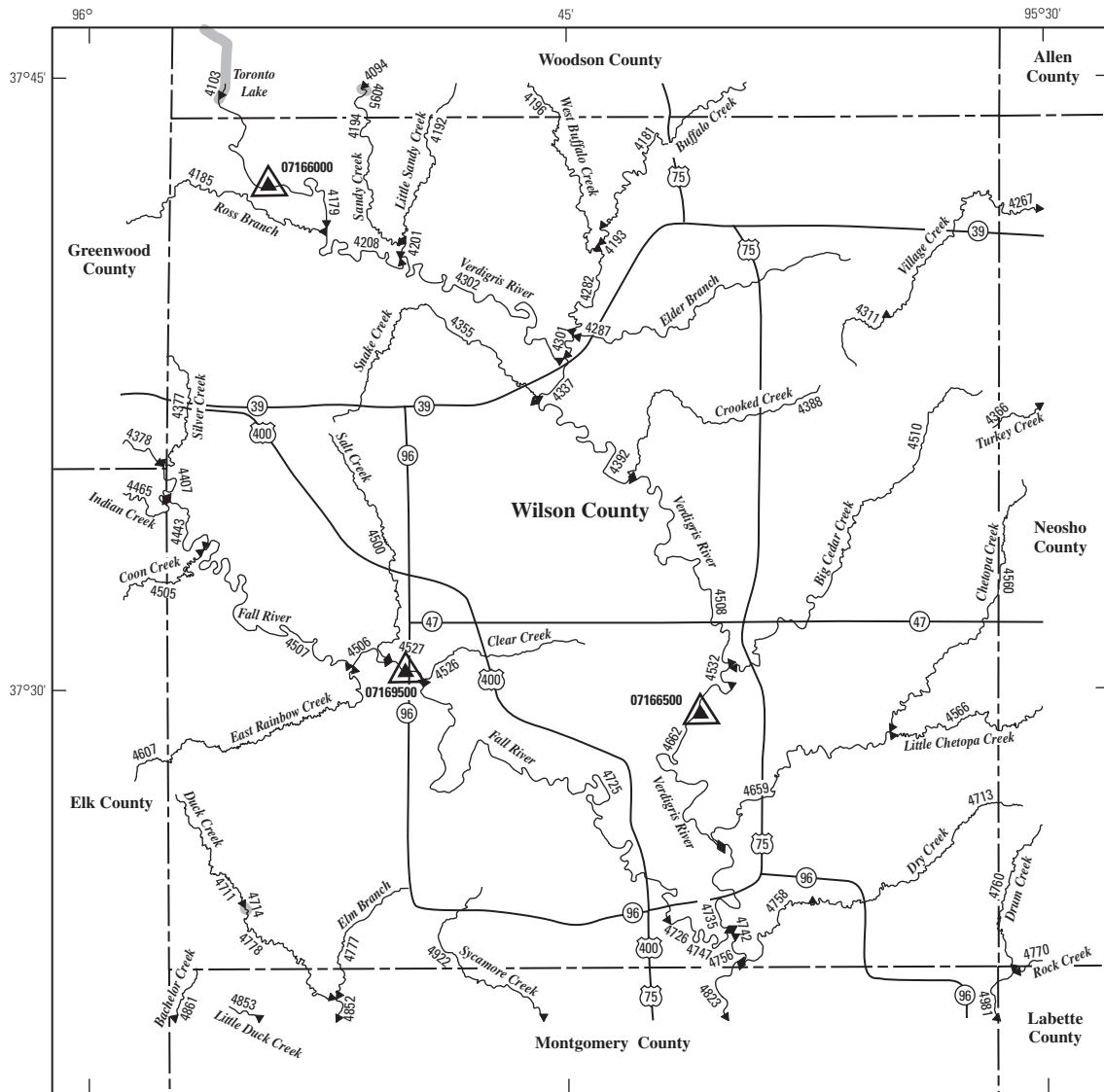
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 112)	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
		2480	102600046	WH						Unnamed tributary, Wichita 1	54.2	0
2492	1026000415	WH				Unnamed tributary, Greeley 1	131	0	0	.01	.01	.01
2494	HYDRO	WH				HYDRO	826	NA	NA	NA	NA	NA
2536	102600047	WH				Ladder Creek	826	0	.10	.41	.42	.84
2552	102600047	WH				Ladder Creek	890	0	.12	.48	.49	.98
2857	110300022	WH				Whitewoman Creek	844	0	0	0	0	0
2923	110300022	WH				Whitewoman Creek	935	0	0	0	0	0
2957	110300023	WH				Sand Creek	122	0	0	0	0	0

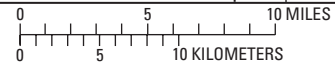
Table 108. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Wichita County.—Continued

[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. 112)	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
2480	0	210	759	1,420	2,650	3,910	5,460
2492	0	253	951	1,820	3,470	5,200	7,360
2494	NA	NA	NA	NA	NA	NA	NA
2536	1.28	523	1,990	3,890	7,700	11,900	17,400
2552	1.57	533	2,040	4,000	7,970	12,300	18,100
2857	1.46	260	1,490	3,490	8,200	13,900	21,800
2923	2.09	308	1,650	3,760	8,690	14,600	22,800
2957	0	250	928	1,770	3,360	5,000	7,050

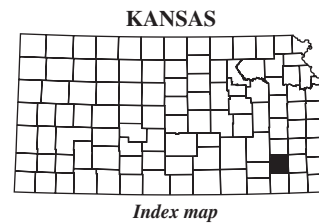


Base map from U.S. Geological Survey digital data, 1:2,000,000, 1994
 Albers Conic Equal-Area Projection,
 Standard parallels 29°30' and 45°30', central meridian 96°
 Horizontal coordinate information is referenced to the
 North American Datum of 1983 (NAD 83)



EXPLANATION

- ← 4853 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 07169500 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 07166500 ▴ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 4103 Lake and determination site identification number



Index map

Figure 113. 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 Wilson County.

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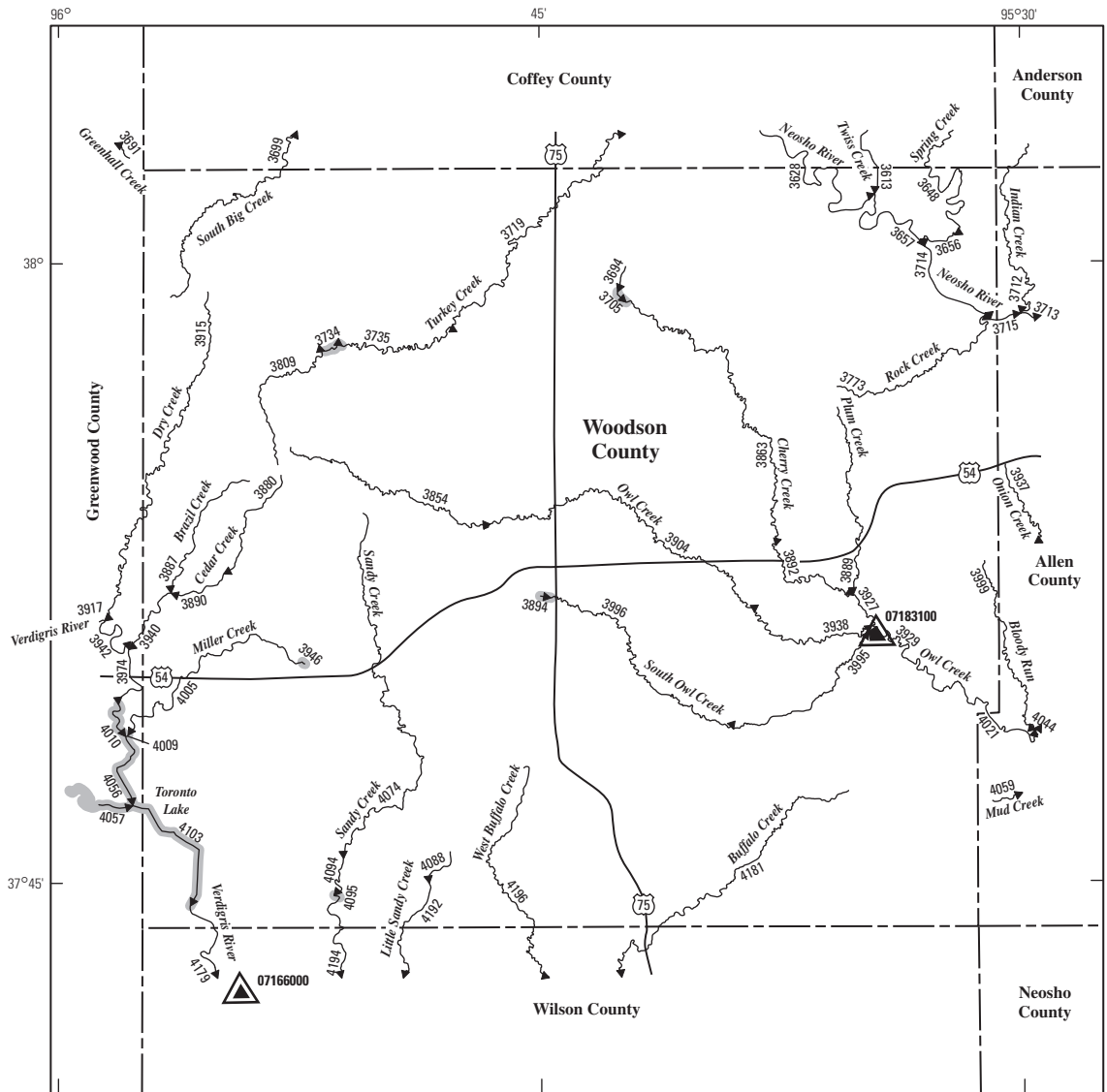
Table 109. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Wilson County.

[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. 113)	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
		4179	110701015	WL	WO					Verdigris River	757	6.20
4181	110701012	WL	WO			Buffalo Creek	52.9	0	1.17	6.55	23.0	65.9
4192	1107010133	WL	WO			Little Sandy Creek	15.7	0	.82	3.32	9.07	22.0
4193	110701012	WL				Buffalo Creek	54.1	0	1.22	6.72	23.5	67.4
4194	110701014	WL	WO			Sandy Creek	52.0	.15	2.61	9.84	28.5	71.9
4196	1107010134	WL	WO			West Buffalo Creek	35.7	0	1.45	6.79	21.3	55.4
4201	110701014	WL				Sandy Creek	67.9	.29	3.12	12.0	35.4	91.3
4208	110701015	WL				Verdigris River	793	6.56	13.1	80.1	501	1,840
4282	110701012	WL				Buffalo Creek	94.3	0	2.70	12.7	43.4	124
4287	1107010137	WL				Elder Branch	30.7	0	.82	4.35	14.2	38.4
4301	110701012	WL				Buffalo Creek	126	.34	3.54	16.2	55.3	160
4302	110701013	WL				Verdigris River	872	7.35	15.6	93.3	569	2,010
4311	1107020433	WL				Village Creek	7.53	0	0	.88	3.23	9.47
4337	110701011	WL				Verdigris River	999	8.61	19.6	115	680	2,290
4355	1107010136	WL				Snake Creek	25.6	0	.30	2.62	8.71	24.7
4388	1107010138	WL				Crooked Creek	21.2	0	.73	3.78	11.7	30.3
4392	110701011	WL				Verdigris River	1,040	9.01	20.9	121	714	2,370
4443	110701021	WL				Fall River	668	9.32	17.7	79.2	419	1,520
4500	1107010238	WL				Salt Creek	28.4	0	.06	2.16	7.90	24.0
4506	110701021	WL				Fall River	725	10.4	19.2	87.7	467	1,660
4507	110701021	WL				Fall River	700	9.94	18.6	83.9	446	1,600
4508	110701011	WL				Verdigris River	1,080	9.43	22.2	128	751	2,470
4510	1107010139	WL				Big Cedar Creek	40.5	0	.42	4.02	15.3	45.9
4526	1107010237	WL				Clear Creek	22.2	0	.66	3.36	10.2	26.7
4527	110701021	WL				Fall River	754	11.0	20.0	92.0	492	1,740
4532	110701011	WL				Verdigris River	1,120	9.85	23.5	135	787	2,560
4659	1107010122	WL				Chetopa Creek	62.0	0	.79	5.83	22.6	69.6
4662	110701011	WL				Verdigris River	1,140	10.0	24.0	138	800	2,590
4711	110701043	WL				Duck Creek	13.2	0	.14	2.00	6.30	16.9
4714	HYDRO	WL				HYDRO	13.2	NA	NA	NA	NA	NA
4725	110701021	WL				Fall River	817	11.6	21.7	101	542	1,890
4726	110701021	WL				Fall River	818	5.89	19.7	101	323	914
4735	110701011	WL				Verdigris River	1,200	10.8	26.0	148	852	2,750
4742	110701011	WL				Verdigris River	2,030	20.5	50.8	276	1,500	4,790
4747	110701021	WL				Fall River	821	11.6	21.8	102	545	1,900
4756	1107010338	WL				Verdigris River	2,030	20.5	50.8	276	1,500	4,790
4758	1107010337	WL				Dry Creek	30.4	0	1.02	4.97	15.9	42.1

Table 109. 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 Wilson 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. 113)	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
4179	520	5,290	7,490	8,500	9,400	9,860	10,200
4181	46.6	4,570	8,690	12,100	17,100	21,300	25,800
4192	14.9	1,840	3,800	5,470	7,980	10,100	12,400
4193	47.6	4,580	8,710	12,200	17,200	21,400	25,900
4194	45.9	4,010	7,570	10,500	14,800	18,300	22,000
4196	36.1	5,020	8,980	12,200	16,600	20,300	24,100
4201	57.9	4,700	8,790	12,200	17,100	21,100	25,400
4208	547	5,910	8,620	9,960	11,300	12,000	12,500
4282	81.9	5,880	11,000	15,300	21,600	26,800	32,300
4287	27.6	5,160	9,070	12,200	16,500	20,000	23,600
4301	105	6,890	12,700	17,600	24,700	30,600	36,900
4302	607	7,290	11,100	13,200	15,300	16,600	17,600
4311	7.72	1,440	2,810	3,940	5,600	6,950	8,480
4337	703	9,490	15,100	18,300	21,800	24,000	25,800
4355	19.2	2,420	5,070	7,340	10,800	13,600	16,900
4388	21.0	2,430	4,920	7,040	10,200	12,800	15,800
4392	733	10,200	16,400	20,000	23,900	26,300	28,400
4443	488	7,850	13,700	17,500	22,000	25,100	28,000
4500	19.8	2,600	5,440	7,880	11,600	14,600	18,100
4506	529	9,110	15,900	20,300	25,600	29,300	32,800
4507	511	8,560	14,900	19,100	24,000	27,500	30,700
4508	765	10,900	17,700	21,700	26,100	28,800	31,100
4510	34.9	4,680	8,790	12,200	17,100	21,200	25,600
4526	19.3	2,340	4,830	6,950	10,100	12,800	15,800
4527	550	9,750	17,000	21,800	27,500	31,500	35,200
4532	797	11,600	19,000	23,400	28,200	31,200	33,800
4659	51.8	5,470	10,300	14,400	20,300	25,300	30,600
4662	808	11,900	19,500	24,000	29,000	32,100	34,800
4711	12.3	1,660	3,430	4,930	7,170	9,020	11,100
4714	NA	NA	NA	NA	NA	NA	NA
4725	597	10,100	17,300	22,200	28,200	32,500	36,300
4726	502	15,200	36,400	57,300	92,500	125,000	164,000
4735	858	12,300	19,800	24,400	29,900	33,300	36,300
4742	1,480	17,700	24,000	30,000	40,600	48,900	54,400
4747	600	10,200	17,400	22,200	28,300	32,600	36,400
4756	1,480	17,700	24,000	30,000	40,600	48,900	54,400
4758	29.3	4,280	7,740	10,500	14,500	17,700	21,000

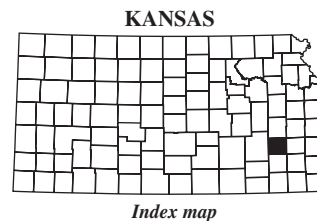


Base map from U.S. Geological Survey digital data, 1:2,000,000, 1994
 Albers Conic Equal-Area Projection
 Standard parallels 29°30' and 45°30', central meridian 96°
 Horizontal coordinate information is referenced to the
 North American Datum of 1983 (NAD 83)



EXPLANATION

- ◀ 4179 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- ▲ 07166000 U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- △ 07183100 U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 4103 Lake and determination site identification number



Index map

Figure 114. 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 Woodson County.

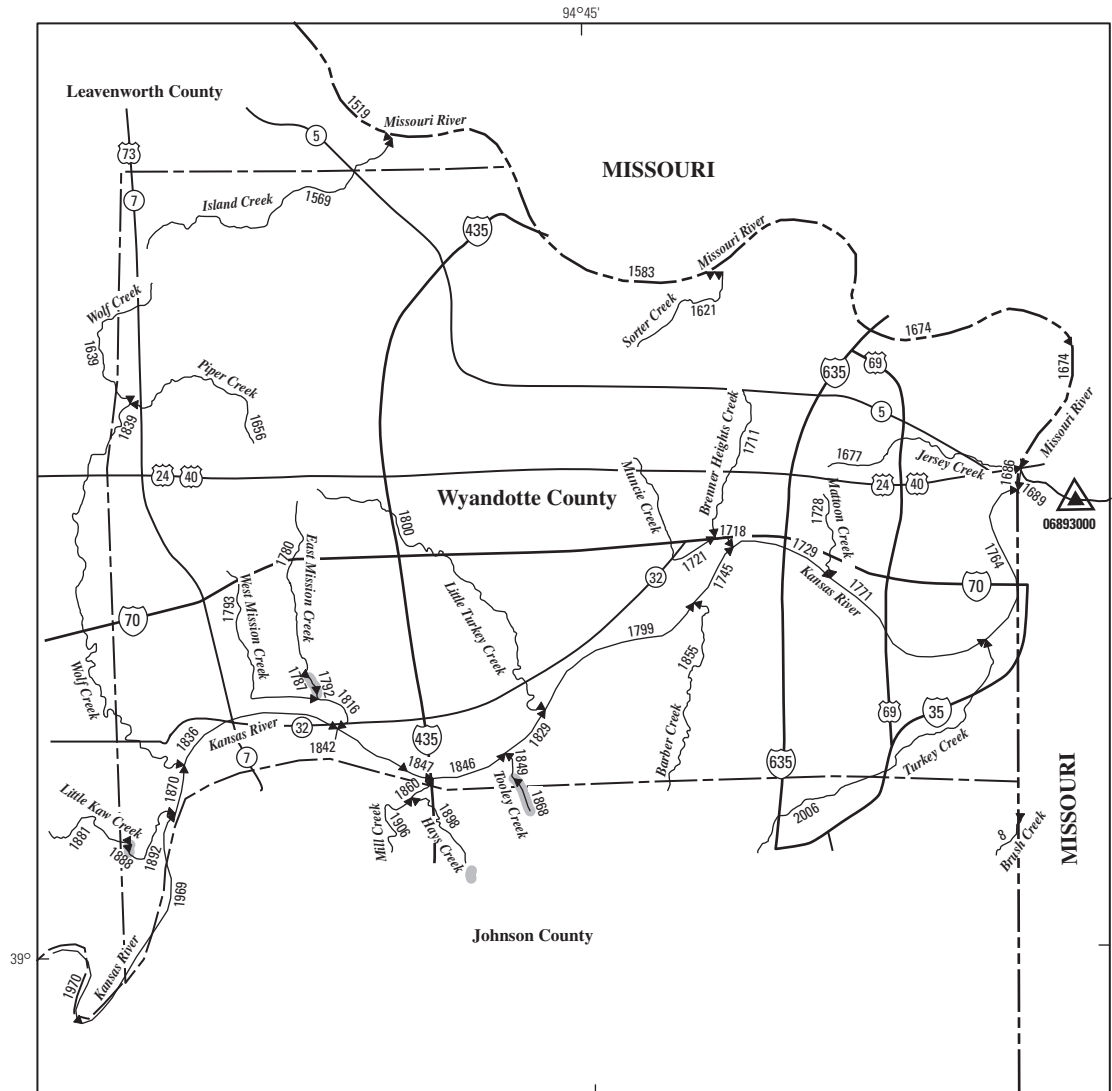
Table 110. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Woodson County.[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square 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. 114)	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
		3656	1107020446	WO						Spring Creek	15.9	0
3657	1107020410	WO				Neosho River	3,440	36.2	97.5	505	2,080	6,520
3694	1107020420	WO				Cherry Creek	6.77	0	0	.52	2.08	6.69
3705	HYDRO	WO				HYDRO	10.1	NA	NA	NA	NA	NA
3714	1107020410	WO				Neosho River	3,460	36.6	98.9	510	2,100	6,570
3734	HYDRO	WO				HYDRO	13.4	NA	NA	NA	NA	NA
3735	1107020418	WO				Turkey Creek	29.1	0	.03	2.54	9.71	29.5
3773	1107020423	WO				Rock Creek	17.3	0	0	.50	3.45	13.2
3809	1107020418	WO				Turkey Creek	10.7	0	0	1.16	3.91	11.2
3854	1107020421	WO				Owl Creek	18.1	0	0	1.58	6.25	19.3
3863	1107020420	WO				Cherry Creek	43.3	0	.18	3.17	12.8	41.9
3880	1107010132	WO				Cedar Creek	7.31	0	.35	1.81	4.77	11.5
3887	1107010131	WO				Brazil Creek	6.26	0	.42	1.68	4.11	9.60
3889	1107020422	WO				Plum Creek	14.3	0	0	.22	2.42	10.3
3890	1107010132	WO				Cedar Creek	9.47	0	.31	1.97	5.55	13.8
3892	1107020420	WO				Cherry Creek	48.0	0	.26	3.38	13.6	45.1
3894	HYDRO	WO				HYDRO	6.67	NA	NA	NA	NA	NA
3904	1107020421	WO				Owl Creek	51.0	0	.59	4.61	17.5	55.2
3927	1107020420	WO				Cherry Creek	64.0	0	.24	3.46	14.8	53.2
3929	1107020421	WO				Owl Creek	100	0	.93	6.03	24.6	90.1
3938	1107020421	WO				Owl Creek	56.9	0	.66	4.86	18.5	59.2
3946	HYDRO	WO				HYDRO	3.95	NA	NA	NA	NA	NA
3995	11070204552	WO				South Owl Creek	43.5	0	.23	3.42	13.8	44.9
3996	11070204552	WO				South Owl Creek	32.6	0	.12	2.97	11.8	37.0
4074	110701014	WO				Sandy Creek	40.2	0	2.03	7.78	22.5	56.6
4088	1107010133	WO				Little Sandy Creek	3.60	.68	.91	1.62	3.01	6.05
4094	110701014	WO				Sandy Creek	43.4	.03	2.20	8.35	24.2	60.8
4095	HYDRO	WO				HYDRO	43.4	NA	NA	NA	NA	NA

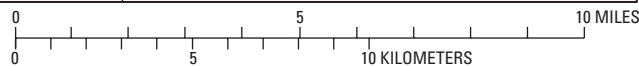
Table 110. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Woodson County.—Continued

[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. 114)	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
3656	11.9	2,040	4,130	5,880	8,500	10,600	13,100
3657	1,990	17,400	24,200	26,400	51,400	79,800	123,000
3694	6.03	1,280	2,540	3,590	5,160	6,440	7,890
3705	NA	NA	NA	NA	NA	NA	NA
3714	2,000	17,700	24,600	26,900	51,900	80,200	123,000
3734	NA	NA	NA	NA	NA	NA	NA
3735	23.1	2,690	5,610	8,110	11,900	15,000	18,600
3773	12.8	2,180	4,390	6,250	9,040	11,300	13,900
3809	9.04	1,470	3,010	4,320	6,270	7,880	9,710
3854	15.8	2,160	4,400	6,290	9,130	11,500	14,100
3863	35.0	5,390	10,800	15,400	22,500	28,600	35,400
3880	7.84	1,190	2,420	3,450	4,990	6,260	7,690
3887	6.56	1,060	2,160	3,090	4,470	5,600	6,880
3889	10.7	2,100	4,220	6,010	8,700	10,900	13,500
3890	9.64	1,380	2,810	4,030	5,850	7,340	9,030
3892	38.1	5,350	11,000	15,800	23,300	29,900	37,200
3894	NA	NA	NA	NA	NA	NA	NA
3904	43.7	4,670	8,920	12,500	17,700	22,100	26,800
3927	47.4	6,940	14,400	20,900	31,200	40,200	50,500
3929	77.9	6,830	12,700	17,700	24,900	30,900	37,400
3938	47.6	4,640	8,930	12,600	17,900	22,300	27,100
3946	NA	NA	NA	NA	NA	NA	NA
3995	37.0	4,400	8,450	11,900	16,900	21,000	25,500
3996	29.6	4,020	7,710	10,800	15,300	19,000	23,000
4074	36.7	4,140	7,630	10,500	14,500	17,900	21,400
4088	3.98	799	1,590	2,250	3,230	4,030	4,930
4094	39.2	4,130	7,660	10,600	14,700	18,100	21,600
4095	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

- ◀ 1969 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06893000 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06893000 ▴ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 1868 Lake and determination site identification number

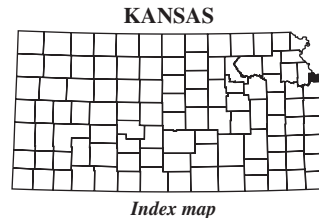


Figure 115. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Wyandotte County.

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Table 111. 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 Wyandotte 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. 115)	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
1583	102400111	WY				Missouri River	424,000	23,800	34,700	43,700	58,200	76,200
1621	10240011142	WY				Sorter Creek	5.74	.05	1.09	2.81	6.10	12.5
1656	102701041154	WY				Piper Creek	9.71	0	.40	2.07	5.61	13.7
1674	102400111	WY				Missouri River	424,000	23,800	34,700	43,700	58,300	76,200
1677	1024001138	WY				Jersey Creek	6.77	.08	.91	2.47	5.57	12.0
1686	102400111	WY				Missouri River	424,000	23,800	34,700	43,700	58,300	76,200
1689	102400119099	WY				Missouri River	483,000	26,600	38,500	50,200	69,600	96,400
1711	102701041175	WY				Brenner Heights Creek	5.82	.01	.99	2.64	5.83	12.2
1718	1027010455	WY				Muncie Creek	14.6	0	1.33	4.57	11.7	26.5
1721	1027010455	WY				Muncie Creek	8.64	0	.95	2.89	6.87	15.1
1728	102701041178	WY				Mattoon Creek	2.20	1.00	1.37	1.73	2.64	4.59
1729	102701041	WY				Kansas River	58,700	1,270	2,130	4,040	9,650	21,600
1745	102701041	WY				Kansas River	58,700	1,270	2,130	4,030	9,650	21,600
1764	102701041	WY				Kansas River	58,700	1,270	2,130	4,040	9,660	21,600
1771	102701041	WY				Kansas River	58,700	1,270	2,130	4,040	9,650	21,600
1780	1027010461	WY				East Mission Creek	5.26	0	.45	1.72	4.09	9.25
1787	HYDRO	WY				HYDRO	5.51	NA	NA	NA	NA	NA
1792	1027010461	WY				East Mission Creek	5.51	0	.50	1.84	4.39	9.87
1793	102701041164	WY				West Mission Creek	6.08	0	.51	1.93	4.65	10.5
1799	102701041	WY				Kansas River	58,700	1,270	2,130	4,030	9,650	21,600
1800	1027010462	WY				Little Turkey Creek	19.9	0	1.56	5.55	14.6	33.9
1816	1027010461	WY				East Mission Creek	13.5	0	.95	3.82	10.2	23.7
1829	102701041	WY				Kansas River	58,600	1,270	2,120	4,030	9,650	21,600
1836	102701042	WY				Kansas River	58,500	1,260	2,120	4,020	9,630	21,600
1842	102701042	WY				Kansas River	58,600	1,260	2,120	4,020	9,630	21,600
1846	102701041	WY				Kansas River	58,600	1,270	2,120	4,030	9,640	21,600
1847	102701041	WY				Kansas River	58,600	1,260	2,120	4,020	9,630	21,600
1849	10270104379	WY				Tooley Creek	2.55	1.01	1.42	2.14	3.59	6.36
1870	102701042	WY				Kansas River	58,500	1,260	2,110	4,020	9,630	21,600
1888	HYDRO	WY				HYDRO	16.9	NA	NA	NA	NA	NA
1892	1027010459	WY				Little Kaw Creek	18.1	0	0	2.03	7.24	20.9

Table 111. 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 Wyandotte 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. 115)	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
1583	48,600	111,000	150,000	178,000	204,000	239,000	269,000
1621	7.31	1,020	2,070	2,950	4,260	5,340	6,550
1656	9.56	1,370	2,820	4,040	5,870	7,380	9,100
1674	48,700	111,000	150,000	178,000	204,000	240,000	269,000
1677	7.63	1,150	2,320	3,300	4,770	5,980	7,340
1686	48,700	111,000	150,000	178,000	204,000	240,000	269,000
1689	57,900	142,000	201,000	245,000	289,000	351,000	401,000
1711	7.25	1,030	2,100	2,980	4,310	5,400	6,620
1718	16.2	1,760	3,630	5,230	7,620	9,600	11,800
1721	9.56	1,300	2,650	3,790	5,500	6,900	8,490
1728	2.68	598	1,180	1,660	2,370	2,950	3,600
1729	8,500	50,200	89,000	119,000	148,000	200,000	240,000
1745	8,490	50,200	89,000	119,000	148,000	200,000	240,000
1764	8,500	50,200	89,000	119,000	148,000	200,000	240,000
1771	8,500	50,200	89,000	119,000	148,000	200,000	240,000
1780	5.99	948	1,930	2,750	3,980	4,990	6,130
1787	NA	NA	NA	NA	NA	NA	NA
1792	6.33	974	1,980	2,830	4,100	5,140	6,310
1793	6.81	1,030	2,100	3,000	4,350	5,450	6,710
1799	8,490	50,200	89,000	119,000	148,000	200,000	240,000
1800	20.8	2,080	4,340	6,270	9,190	11,600	14,400
1816	14.8	1,640	3,400	4,900	7,160	9,020	11,100
1829	8,490	50,200	89,000	119,000	148,000	200,000	240,000
1836	8,480	50,100	88,900	119,000	148,000	200,000	240,000
1842	8,480	50,100	89,000	119,000	148,000	200,000	240,000
1846	8,490	50,200	89,000	119,000	148,000	200,000	240,000
1847	8,480	50,100	89,000	119,000	148,000	200,000	240,000
1849	3.49	655	1,300	1,830	2,610	3,250	3,960
1870	8,470	50,100	88,900	119,000	148,000	200,000	240,000
1888	NA	NA	NA	NA	NA	NA	NA
1892	15.6	1,930	4,030	5,840	8,560	10,800	13,400

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Table 112. County abbreviations for Kansas.

County abbreviation used in table 6	County name	County abbreviation used in table 6	County name
AL	Allen	HS	Haskell
AN	Anderson	HV	Harvey
AT	Atchison	JA	Jackson
BA	Barber	JF	Jefferson
BB	Bourbon	JO	Johnson
BR	Brown	JW	Jewell
BT	Barton	KE	Kearny
BU	Butler	KM	Kingman
CA	Clark	KW	Kiowa
CD	Cloud	LB	Labette
CF	Coffey	LC	Lincoln
CK	Cherokee	LE	Lane
CL	Cowley	LG	Logan
CM	Comanche	LN	Linn
CN	Cheyenne	LV	Leavenworth
CQ	Chautauqua	LY	Lyon
CR	Crawford	MC	Mitchell
CS	Chase	ME	Meade
CY	Clay	MG	Montgomery
DC	Decatur	MI	Miami
DG	Douglas	MN	Marion
DK	Dickinson	MP	McPherson
DP	Doniphan	MR	Morris
ED	Edwards	MS	Marshall
EK	Elk	MT	Morton
EL	Ellis	NM	Nemaha
EW	Ellsworth	NO	Neosho
FI	Finney	NS	Ness
FO	Ford	NT	Norton
FR	Franklin	OB	Osborne
GE	Geary	OS	Osage
GH	Graham	OT	Ottawa
GL	Greeley	PL	Phillips
GO	Gove	PN	Pawnee
GT	Grant	PR	Pratt
GW	Greenwood	PT	Pottawatomie
GY	Gray	RA	Rawlins
HG	Hodgeman	RC	Rice
HM	Hamilton	RH	Rush
HP	Harper	RL	Riley

Table 112. County abbreviations for Kansas.—Continued

County abbreviation used in table 6	County name
RN	Reno
RO	Rooks
RP	Republic
RS	Russell
SA	Saline
SC	Scott
SD	Sheridan
SF	Stafford
SG	Sedgwick
SH	Sherman
SM	Smith
SN	Shawnee
ST	Stanton
SU	Sumner
SV	Stevens
SW	Seward
TH	Thomas
TR	Trego
WA	Wallace
WB	Wabaunsee
WH	Wichita
WL	Wilson
WO	Woodson
WS	Washington
WY	Wyandotte