

EXPLANATION

- ← 5265 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- ▲ 07184000 U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- △ 07157700 U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 4653 Lake and determination site identification number

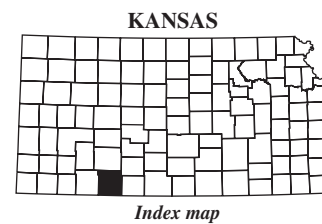


Figure 23. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Clark County.

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Table 19. 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 Clark 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. 23)	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	
		4491	110300094	CA	FO					Rattlesnake Creek	47.1	0	0
4570	1104000813	CA	FO			Bluff Creek	97.5	0	0	0	.01	.02	
4598	1104000813	CA				Bluff Creek	145	0	0	.19	1.18	4.52	
4653	HYDRO	CA				HYDRO	153	NA	NA	NA	NA	NA	
4712	11040008652	CA				Little Sandy Creek	8.05	0	0	0	0	0	
4718	HYDRO	CA				HYDRO	8.07	NA	NA	NA	NA	NA	
4734	110400081180	CA	CM	KW		West Kiowa Creek	81.3	0	.60	2.03	4.13	8.64	
4785	11040008652	CA				Little Sandy Creek	24.1	0	0	0	0	0	
4788	HYDRO	CA				HYDRO	25.0	NA	NA	NA	NA	NA	
4792	HYDRO	CA				HYDRO	10.7	NA	NA	NA	NA	NA	
4889	1104000813	CA	CM			Bluff Creek	261	0	.73	2.99	7.65	18.3	
4952	110400088	CA				Keiger Creek	38.2	0	0	0	0	0	
5011	1104000825	CA	ME			Gyp Creek	92.7	0	0	.06	.30	1.33	
5014	110400089	CA	ME			Big Sandy Creek	77.5	0	0	0	.04	1.03	
5030	1104000814	CA				Indian Creek	56.0	0	0	0	0	.01	
5031	110400089	CA				Big Sandy Creek	172	0	0	1.02	2.63	6.32	
5073	1104000820	CA				Day Creek	60.7	0	0	.14	.49	1.88	
5094	1104000818	CA				Bear Creek	81.3	0	0	.47	1.31	3.45	
5096	110400089	CA				Big Sandy Creek	235	0	.45	2.07	4.86	10.8	
5104	1104000815	CA	ME			Twomile Creek	26.2	0	0	0	0	0	
5111	11040008652	CA				Little Sandy Creek	80.8	0	0	.67	1.72	4.14	
5144	1104000816	CA				Antelope Creek	33.5	0	0	0	0	0	
5149	110400089	CA				Big Sandy Creek	281	0	1.33	3.50	7.44	15.3	
5187	110400088	CA				Keiger Creek	58.8	0	0	.35	.54	1.37	
5196	110400089	CA				Big Sandy Creek	325	0	2.05	4.68	9.58	19.2	
5202	110400087	CA				Big Sandy Creek	385	.02	2.71	5.97	12.2	24.5	
5203	1104000820	CA				Day Creek	91.0	0	0	.94	2.15	5.07	
5204	11040008652	CA				Little Sandy Creek	91.4	0	0	.92	2.19	5.03	
5205	110400086	CA				Big Sandy Creek	484	.80	4.39	8.79	17.2	33.6	
5206	1104000818	CA				Day Creek	91.0	0	0	.94	2.15	5.07	
5210	110400085	CA				Cimarron River	9,420	19.2	40.6	91.7	186	371	
5215	1104000818	CA				Bear Creek	105	0	.13	1.31	2.78	5.94	
5217	110400085	CA				Cimarron River	9,330	19.4	40.5	90.2	182	361	
5227	110400085	CA	CM			Cimarron River	9,490	19.2	41.0	93.3	190	379	
5230	110400086	CA				Big Sandy Creek	578	1.18	5.52	11.3	22.3	44.2	
5241	110400085	CA				Cimarron River	9,210	19.6	40.3	88.1	177	349	
5242	110400086	CA				Big Sandy Creek	588	1.32	5.80	11.7	23.0	45.3	
5244	110400085	CA				Cimarron River	8,610	21.3	40.4	79.9	152	295	

Table 19. 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 Clark 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. 23)	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
4491	2.79	481	1,440	2,460	4,230	5,920	7,910
4570	2.63	614	1,850	3,210	5,560	7,840	10,500
4598	6.58	889	2,550	4,320	7,350	10,200	13,600
4653	NA	NA	NA	NA	NA	NA	NA
4712	0	281	824	1,380	2,300	3,130	4,120
4718	NA	NA	NA	NA	NA	NA	NA
4734	7.89	945	2,400	3,830	6,110	8,180	10,500
4785	0.84	529	1,590	2,680	4,540	6,230	8,250
4788	NA	NA	NA	NA	NA	NA	NA
4792	NA	NA	NA	NA	NA	NA	NA
4889	16.3	1,420	3,760	6,130	10,100	13,700	18,000
4952	1.49	453	1,140	1,810	2,890	3,880	5,000
5011	3.18	721	1,960	3,210	5,270	7,170	9,350
5014	2.95	598	1,720	2,890	4,870	6,730	8,900
5030	1.94	576	1,570	2,590	4,250	5,790	7,530
5031	7.22	923	2,520	4,160	6,880	9,420	12,400
5073	3.43	560	1,590	2,670	4,490	6,190	8,160
5094	4.58	672	1,880	3,130	5,220	7,170	9,430
5096	10.5	1,090	2,920	4,770	7,820	10,700	13,900
5104	0.58	514	1,570	2,680	4,580	6,320	8,400
5111	4.95	765	2,080	3,410	5,620	7,670	10,000
5144	0.97	292	830	1,390	2,310	3,160	4,130
5149	13.3	1,120	2,950	4,790	7,810	10,600	13,800
5187	2.82	368	689	929	1,250	1,500	1,750
5196	15.9	1,180	3,070	4,970	8,060	10,900	14,200
5202	19.5	1,160	2,650	4,050	6,250	8,220	10,500
5203	5.84	563	1,610	2,720	4,590	6,350	8,410
5204	5.62	740	2,030	3,340	5,510	7,540	9,860
5205	25.1	1,340	3,040	4,610	7,060	9,250	11,700
5206	5.84	563	1,610	2,720	4,590	6,350	8,410
5210	232	3,590	9,620	15,800	26,100	35,700	47,200
5215	6.27	600	1,690	2,830	4,740	6,520	8,600
5217	228	3,520	9,460	15,600	25,800	35,200	46,600
5227	236	3,650	9,760	16,000	26,500	36,100	47,700
5230	31.6	1,540	3,520	5,370	8,270	10,900	13,800
5241	222	3,450	9,300	15,300	25,400	34,800	46,000
5242	32.2	1,540	3,510	5,340	8,220	10,800	13,700
5244	197	3,080	8,470	14,100	23,500	32,300	42,900

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Table 19. 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 Clark County.—Continued

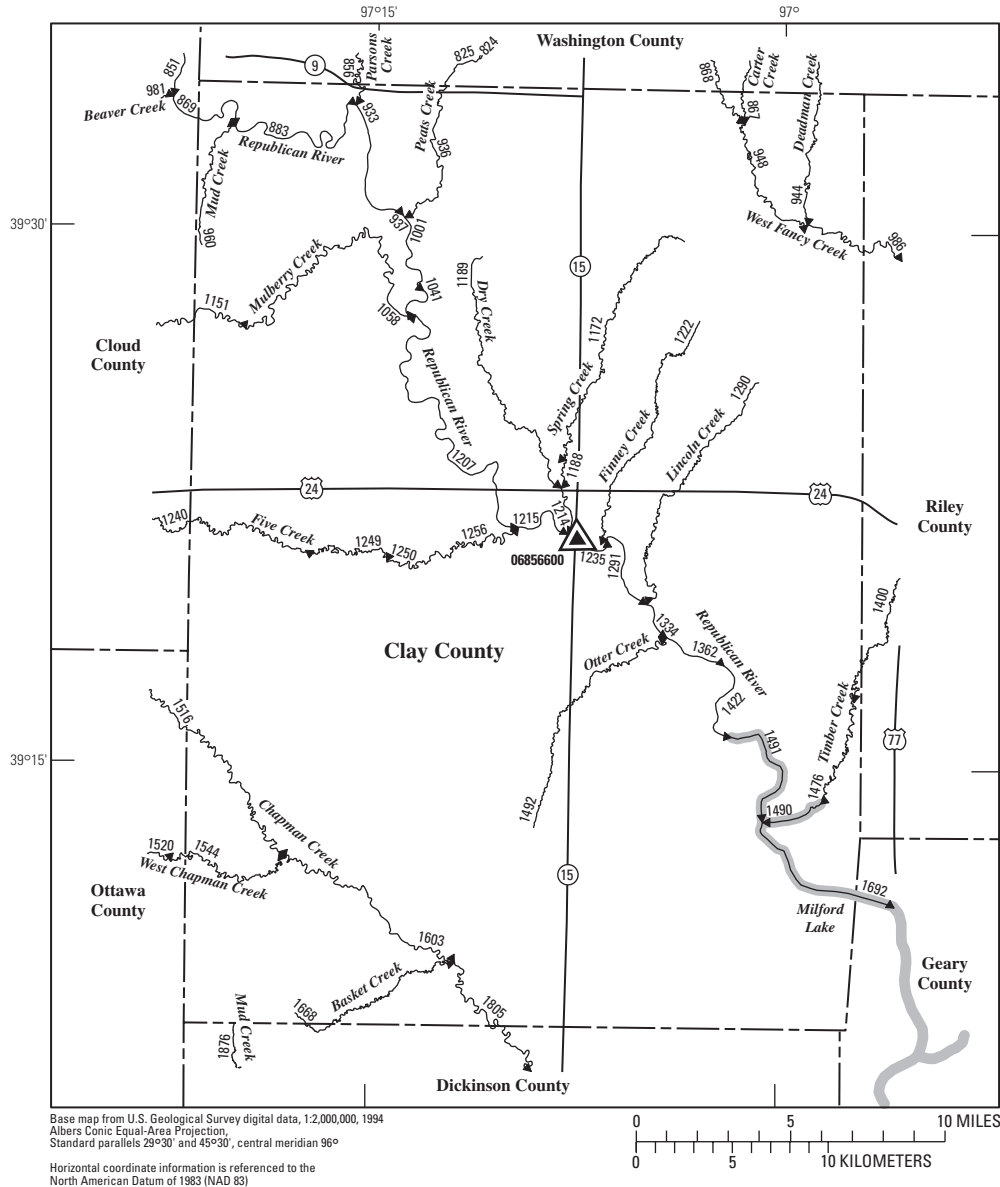
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 23)	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
		5264	1104000810	CA						Ballard Creek	99.2	0
5265	1104000810	CA	ME			Ballard Creek	78.7	0	.36	1.04	1.50	2.58
5290	110400085	CA	CM			Cimarron River	9,540	19.3	41.3	94.3	193	385
5297	1104000819	CA	CM			Trout Creek	30.2	0	.50	.97	1.21	2.26
5302	1104000817	CA				Stink Creek	7.92	0	0	0	0	0
5305	1104000811	CA				Cimarron River	8,610	21.3	40.4	79.9	152	295
5318	1104000821	CA				Snake Creek	54.3	0	.91	1.93	3.25	6.26

Table 19. 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 Clark 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. 23)	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
5264	4.87	496	1,340	2,190	3,570	4,830	6,280
5265	3.62	514	1,370	2,240	3,630	4,910	6,350
5290	239	3,690	9,830	16,100	26,600	36,300	47,900
5297	3.09	655	1,600	2,490	3,880	5,100	6,440
5302	0	292	846	1,400	2,340	3,180	4,170
5305	197	3,080	8,470	14,100	23,500	32,300	42,900
5318	5.96	523	1,410	2,290	3,750	5,070	6,590



EXPLANATION

- ◀ 1876 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- ▲ 06856600 U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- △ 06856600 U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 1692 Lake and determination site identification number

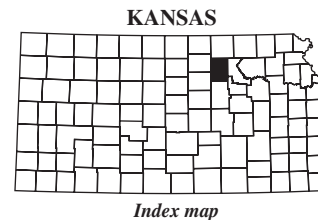


Figure 24. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Clay County.

Table 20. 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 Clay 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. 24)	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
		856	1025001712	CY	WS					Parsons Creek	97.7	0
867	1027020559	CY	WS			Carter Creek	17.3	0	0	.92	2.24	6.09
868	1027020529	CY	WS			West Fancy Creek	31.5	0	.06	1.40	3.64	9.96
869	1025001713	CY	CD			Republican River	22,300	127	196	341	710	1,550
883	1025001713	CY				Republican River	22,300	128	197	344	717	1,560
933	1025001711	CY				Republican River	22,400	130	202	356	743	1,620
936	1025001710	CY	WS			Peats Creek	104	0	1.94	6.47	17.4	45.0
937	102500179	CY				Republican River	22,400	183	363	601	956	2,010
944	1027020560	CY	WS			Deadman Creek	21.6	0	0	1.18	3.04	8.15
948	1027020529	CY				West Fancy Creek	62.2	0	.66	3.36	8.28	21.5
960	1025001763	CY				Mud Creek	13.8	0	0	.43	1.12	3.59
986	1027020529	CY	RL			West Fancy Creek	104	0	1.34	6.14	14.3	36.6
1001	102500179	CY				Republican River	22,500	133	207	367	770	1,680
1041	102500178	CY				Republican River	22,500	133	207	368	771	1,680
1058	1025001740	CY				Mulberry Creek	72.1	0	1.12	4.09	10.9	28.3
1151	1025001740	CY	CD			Mulberry Creek	44.7	0	.46	2.45	6.67	17.5
1172	102500171354	CY				Spring Creek	38.2	0	.25	1.87	5.20	14.1
1188	102500171354	CY				Spring Creek	39.0	0	.29	1.96	5.40	14.5
1189	102500171369	CY				Dry Creek	26.4	0	.64	1.72	3.61	8.64
1207	102500178	CY				Republican River	22,600	136	212	378	796	1,740
1214	102500179354	CY				Huntress Creek	66.7	0	1.34	4.10	10.3	25.9
1215	102500178	CY				Republican River	22,700	138	217	388	819	1,790
1222	1025001764	CY				Finney Creek	21.1	0	.13	1.29	3.21	8.36
1235	102500178	CY				Republican River	22,800	140	220	396	837	1,830
1240	10250017413	CY	CD			Five Creek	41.0	0	.63	2.76	7.17	18.1
1249	10250017413	CY				Five Creek	59.5	0	1.12	4.11	10.8	27.0
1250	102500113	CY				Five Creek	62.8	0	1.23	4.41	11.5	28.8
1256	10250017413	CY				Five Creek	88.0	0	1.75	5.86	15.5	39.4
1290	1025001765	CY				Lincoln Creek	40.0	0	.55	2.58	6.90	17.9
1291	102500178	CY				Republican River	22,800	134	213	393	850	1,870
1334	102500178	CY				Republican River	22,800	124	202	388	873	1,940
1362	102500178	CY				Republican River	22,900	106	182	380	911	2,060
1400	102500176	CY	RL			Timber Creek	41.2	0	.10	2.10	6.72	19.4
1422	102500177	CY				Republican River	22,900	103	178	378	919	2,090
1476	102500176	CY				Timber Creek	58.7	0	.47	3.28	10.4	29.5
1490	HYDRO	CY				HYDRO	61.3	NA	NA	NA	NA	NA
1491	HYDRO	CY				HYDRO	22,900	NA	NA	NA	NA	NA
1492	1025001766	CY				Otter Creek	65.0	0	.89	3.70	10.4	28.1

Table 20. 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 Clay 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. 24)	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
856	30.0	1,900	4,540	7,080	11,100	14,700	18,800
867	5.82	1,070	2,550	3,900	6,040	7,860	9,970
868	9.36	1,750	3,910	5,860	8,850	11,500	14,300
869	728	9,170	15,900	21,500	29,900	37,200	45,700
883	735	9,290	16,100	21,700	30,200	37,500	45,900
933	765	9,780	16,900	22,800	31,400	38,700	47,000
936	33.1	2,020	4,800	7,430	11,600	15,300	19,600
937	805	8,640	19,500	30,000	46,900	62,300	80,500
944	7.38	1,220	2,910	4,470	6,920	9,020	11,500
948	18.2	2,380	5,160	7,660	11,500	14,800	18,500
960	4.03	860	2,090	3,230	5,030	6,580	8,370
986	29.6	3,130	6,470	9,420	13,900	17,800	22,200
1001	796	10,300	17,800	23,800	32,600	39,900	48,100
1041	797	10,300	17,800	23,800	32,600	39,900	48,100
1058	22.0	1,660	3,980	6,200	9,720	12,900	16,400
1151	14.2	1,530	3,630	5,620	8,750	11,500	14,600
1172	12.1	1,360	3,280	5,090	7,960	10,500	13,400
1188	12.4	1,320	3,190	4,980	7,810	10,300	13,200
1189	7.75	1,300	3,190	4,940	7,710	10,100	12,900
1207	826	10,800	18,600	24,800	33,700	41,000	49,100
1214	20.3	1,700	3,960	6,070	9,370	12,300	15,600
1215	851	11,200	19,300	25,700	34,700	42,000	50,000
1222	7.34	1,170	2,830	4,370	6,790	8,870	11,300
1235	872	11,500	19,900	26,400	35,500	42,800	50,700
1240	14.2	1,590	3,700	5,660	8,720	11,400	14,400
1249	20.3	1,710	4,010	6,180	9,590	12,600	16,000
1250	21.4	1,760	4,130	6,360	9,850	12,900	16,400
1256	28.9	1,820	4,340	6,740	10,500	13,900	17,800
1290	14.3	1,750	4,000	6,070	9,260	12,100	15,200
1291	878	11,000	19,100	25,600	34,200	41,400	49,700
1334	889	10,300	17,900	24,200	32,100	39,100	48,100
1362	908	8,920	15,600	21,800	28,400	35,200	45,300
1400	16.0	2,110	4,830	7,340	11,200	14,700	18,500
1422	912	8,640	15,200	21,300	27,600	34,400	44,800
1476	23.2	2,430	5,540	8,430	12,900	16,900	21,300
1490	NA	NA	NA	NA	NA	NA	NA
1491	NA	NA	NA	NA	NA	NA	NA
1492	22.2	2,320	5,220	7,880	12,000	15,600	19,600

Table 20. 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 Clay County.—Continued

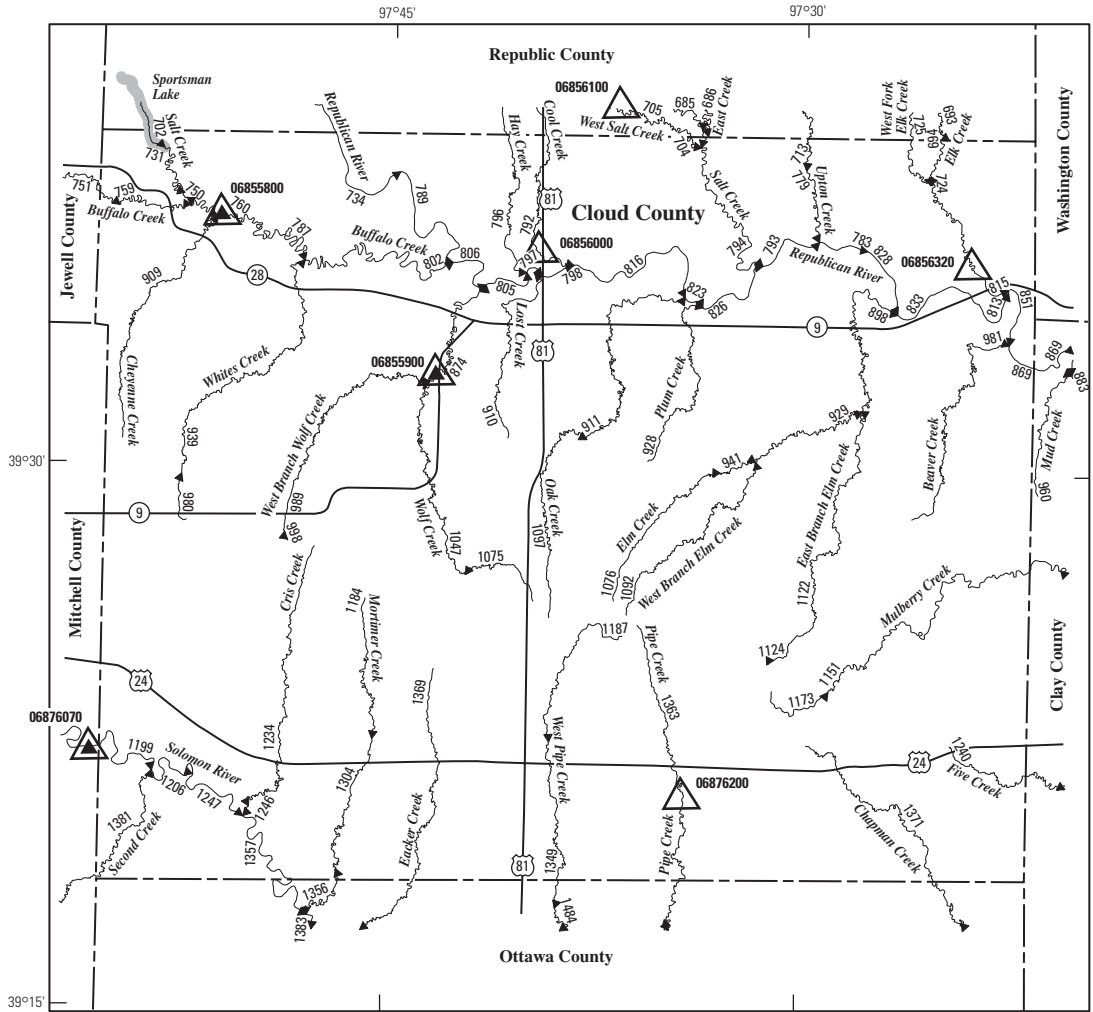
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 24)	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
		1516	102600084	CY	OT					Chapman Creek	80.6	0.38
1544	102600085	CY	OT			West Chapman Creek	55.5	.18	1.38	4.16	9.99	24.1
1603	102600083	CY				Chapman Creek	169	2.30	5.70	12.6	28.3	70.0
1668	1026000840	CY	DK			Basket Creek	24.6	.04	.12	1.24	3.10	8.29
1692	HYDRO	CY	GE			HYDRO	23,100	NA	NA	NA	NA	NA
1805	102600083	CY	DK			Chapman Creek	269	5.76	10.4	19.9	41.8	107
1876	102600088	CY	DK			Mud Creek	66.8	0	1.08	4.04	10.8	27.8

Table 20. 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 Clay County.—Continued

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Determination site identification number (fig. 24)	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
1516	27.0	1,800	4,160	6,390	9,880	13,000	16,500
1544	18.3	1,470	3,490	5,400	8,410	11,100	14,100
1603	51.2	2,580	5,630	8,480	12,900	17,000	21,600
1668	7.67	1,240	3,040	4,700	7,330	9,600	12,200
1692	NA	NA	NA	NA	NA	NA	NA
1805	79.4	3,400	6,910	10,100	15,200	19,800	25,200
1876	21.3	1,870	4,080	6,090	9,190	11,900	15,000



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

- ◀ 1357 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- ▲ 06876070 U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- △ 06876200 U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 1365 Lake and determination site identification number

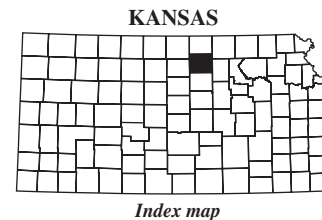


Figure 25. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Cloud County.

Table 21. 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 Cloud 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. 25)	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
		702	HYDRO	CD	RP					HYDRO	137	NA
705	1025001725	CD	RP			West Salt Creek	70.8	0	0.91	3.47	9.21	23.8
713	1025001752	CD	RP			Upton Creek	14.2	0	0	.61	1.45	4.15
724	1025001715	CD	RP			Elk Creek	45.5	0	.69	2.87	7.40	18.6
725	1025001716	CD	RP			West Fork Elk Creek	26.8	0	.22	1.61	4.05	10.3
731	1025001730	CD				Salt Creek	142	0	1.53	5.22	15.6	43.8
734	1025001728	CD	RP			Republican River	21,200	119	158	251	544	1,130
750	1025001730	CD				Salt Creek	142	0	1.53	5.23	15.6	43.8
751	1025001737	CD	JW			Buffalo Creek	150	0	1.74	5.63	16.5	46.2
759	1025001737	CD				Buffalo Creek	154	0	1.78	5.76	17.0	47.6
760	1025001729	CD				Buffalo Creek	298	.70	2.92	9.96	34.8	109
779	1025001752	CD				Upton Creek	19.4	0	0	.93	2.30	6.22
783	1025001718	CD				Republican River	22,100	121	185	319	657	1,430
787	1025001729	CD				Buffalo Creek	348	.95	3.10	11.0	41.0	133
789	1025001726	CD				Republican River	21,200	119	158	252	545	1,130
792	1025001750	CD	RP			Cool Creek	11.9	0	.20	.74	1.16	2.74
793	1025001718	CD				Republican River	22,000	121	184	316	651	1,420
794	1025001719	CD	RP			Salt Creek	199	.72	4.09	12.2	31.4	80.2
796	1025001749	CD	RP			Hay Creek	19.3	0	.31	1.30	2.61	6.02
797	1025001726	CD				Republican River	21,700	113	170	284	577	1,250
798	1025001726	CD				Republican River	21,800	113	171	286	581	1,260
802	1025001729	CD				Buffalo Creek	405	1.40	4.21	14.0	48.3	152
805	1025001726	CD				Republican River	21,700	113	170	283	576	1,250
806	1025001726	CD				Republican River	21,700	114	168	279	572	1,230
813	1025001713	CD				Republican River	22,100	172	341	563	901	1,900
815	1025001714	CD				Elk Creek	85.5	0	1.78	5.64	14.4	35.8
816	1025001726	CD				Republican River	21,800	114	172	288	587	1,270
823	1025001726	CD				Republican River	21,800	115	173	292	595	1,290
826	1025001726	CD				Republican River	21,800	115	174	294	600	1,300
828	1025001717	CD				Republican River	22,100	121	186	319	658	1,430
833	1025001717	CD				Republican River	22,100	124	190	328	679	1,480
851	1025001713	CD				Republican River	22,200	126	194	338	703	1,530
874	1025001738	CD				Wolf Creek	59.6	0	.10	1.00	4.30	17.0
898	1025001739	CD				Elm Creek	77.0	0	1.26	4.24	10.9	27.6
909	1025001755	CD				Cheyenne Creek	40.9	0	0	1.15	3.18	8.87
910	1025001757	CD				Lost Creek	14.1	0	.38	1.20	2.11	4.49
911	1025001758	CD				Oak Creek	30.7	0	.64	2.16	4.73	10.8

Table 21. 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 Cloud 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. 25)	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
702	NA	NA	NA	NA	NA	NA	NA
705	19.0	676	1,870	3,250	5,920	8,780	12,600
713	4.29	860	2,100	3,260	5,080	6,640	8,460
724	14.6	1,130	2,690	4,190	6,580	8,740	11,200
725	8.70	1,140	2,840	4,420	6,970	9,160	11,800
731	29.6	1,590	3,920	6,210	9,940	13,400	17,400
734	501	6,500	10,900	23,200	33,800	44,300	55,600
750	29.6	1,570	3,870	6,140	9,850	13,300	17,300
751	30.6	1,600	3,920	6,200	9,910	13,300	17,300
759	31.4	1,550	3,810	6,040	9,710	13,100	17,100
760	61.5	1,970	4,570	7,130	11,500	15,600	20,600
779	5.87	1,030	2,530	3,930	6,160	8,070	10,300
783	668	8,200	14,200	19,400	27,500	34,900	43,600
787	71.7	1,670	3,890	6,140	10,100	14,000	18,900
789	502	6,500	10,900	23,100	33,600	44,000	55,300
792	3.05	720	1,790	2,790	4,370	5,730	7,320
793	661	8,090	14,000	19,200	27,300	34,700	43,300
794	55.6	1,910	4,530	7,220	11,900	16,500	22,400
796	5.37	943	2,370	3,720	5,860	7,720	9,890
797	577	6,720	11,700	16,300	24,000	31,400	40,400
798	581	6,790	11,800	16,400	24,200	31,600	40,600
802	83.1	1,640	3,900	6,230	10,300	14,400	19,600
805	574	6,710	11,700	16,600	24,400	31,900	41,000
806	565	6,680	11,600	17,400	25,600	33,500	42,800
813	765	8,490	19,200	29,600	46,200	61,400	79,400
815	26.3	546	1,350	2,170	3,640	5,100	6,910
816	588	6,900	12,000	16,700	24,400	31,800	40,800
823	597	7,050	12,300	17,000	24,800	32,200	41,100
826	603	7,140	12,400	17,200	25,000	32,400	41,300
828	669	8,210	14,300	19,400	27,600	35,000	43,600
833	693	8,600	14,900	20,300	28,500	35,900	44,500
851	720	9,040	15,700	21,200	29,600	36,900	45,400
874	11.0	910	1,770	2,490	3,570	4,490	5,520
898	21.4	1,610	3,880	6,050	9,490	12,600	16,100
909	8.06	1,030	2,610	4,140	6,600	8,830	11,300
910	4.02	775	1,940	3,040	4,780	6,290	8,050
911	8.67	942	2,320	3,640	5,720	7,590	9,660

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Table 21. 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 Cloud 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. 25)	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
		928	1025001760	CD						Plum Creek	15.1	0
929	1025001739	CD				Elm Creek	36.3	0	0.24	1.79	4.69	12.2
939	1025001754	CD				Whites Creek	46.2	0	.21	1.74	4.51	11.6
941	1025001739	CD				Elm Creek	12.0	0	0	.47	.97	2.83
980	1025001754	CD				Whites Creek	20.2	0	0	.48	1.17	3.48
981	1025001761	CD				Beaver Creek	21.0	0	0	0.81	2.01	5.71
989	1025001756	CD				West Branch Wolf Creek	25.2	0	0	.44	1.48	5.43
998	1025001756	CD				West Branch Wolf Creek	2.57	0	0	0	0	0
1047	1025001738	CD				Wolf Creek	28.1	0	.14	1.18	3.05	8.68
1075	1025001738	CD				Wolf Creek	7.43	0	0	0	0	.63
1076	1025001739	CD				Elm Creek	10.5	0	0	.43	.79	2.34
1092	1025001759	CD				West Branch Elm Creek	14.7	0	0	.56	1.36	3.98
1097	1025001758	CD				Oak Creek	16.4	0	.04	.94	2.01	4.96
1122	1025001762	CD				East Branch Elm Creek	28.0	0	0	1.19	3.23	8.90
1124	1025001762	CD				East Branch Elm Creek	4.22	0	0	0	0	.24
1173	1025001740	CD				Mulberry Creek	7.20	0	0	.29	.41	1.52
1184	1026001549	CD				Mortimer Creek	14.3	0	0	.38	.86	2.75
1187	1026001511	CD				West Pipe Creek	14.3	0	0	.60	1.36	3.79
1199	1026001512	CD	MC			Solomon River	5,740	30.0	63.0	187	531	1,940
1206	1026001512	CD				Solomon River	5,770	30.6	63.5	187	529	1,930
1234	1026001548	CD				Cris Creek	31.6	0	.06	1.28	3.20	8.20
1246	1026001548	CD				Cris Creek	31.8	0	.06	1.28	3.21	8.23
1247	1026001512	CD				Solomon River	5,780	30.8	63.7	187	529	1,920
1304	1026001549	CD				Mortimer Creek	25.5	0	0	.64	1.75	5.21
1349	1026001511	CD	OT			West Pipe Creek	33.2	0	.13	1.57	4.13	10.8
1356	1026001549	CD	OT			Mortimer Creek	27.5	0	0	.67	1.86	5.55
1357	1026001512	CD	OT			Solomon River	5,820	31.9	64.5	186	526	1,900
1363	1026001510	CD	OT			Pipe Creek	40.5	0	.54	2.53	6.52	16.4
1369	1026001550	CD	OT			Eacker Creek	30.6	0	0	1.10	2.94	8.01
1371	102600084	CD	OT			Chapman Creek	38.5	.09	.57	2.47	6.34	16.2
1381	1026001551	CD	MC			Second Creek	23.1	0	0	.69	1.58	4.19

Table 21. 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 Cloud 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. 25)	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
928	4.06	826	2,060	3,220	5,060	6,660	8,510
929	10.3	1,250	3,040	4,750	7,440	9,850	12,500
939	10.2	1,230	3,040	4,780	7,560	10,100	12,900
941	3.24	734	1,820	2,830	4,430	5,810	7,410
980	4.03	851	2,210	3,510	5,610	7,440	9,590
981	5.81	1,090	2,680	4,160	6,520	8,550	10,900
989	5.13	1,010	2,500	3,880	6,100	8,000	10,200
998	0	274	671	1,030	1,600	2,090	2,660
1047	6.82	1,100	2,690	4,160	6,150	8,530	10,900
1075	1.57	540	1,320	2,050	3,190	4,170	5,300
1076	2.82	678	1,670	2,600	4,060	5,330	6,790
1092	4.21	855	2,110	3,270	5,120	6,710	8,560
1097	4.64	855	2,140	3,350	5,290	6,960	8,900
1122	8.17	1,280	3,180	4,950	7,770	10,200	13,100
1124	1.05	431	1,030	1,560	2,400	3,120	3,950
1173	2.16	601	1,440	2,200	3,400	4,420	5,590
1184	3.35	763	1,930	3,020	4,770	6,280	8,040
1187	3.97	809	2,010	3,130	4,920	6,460	8,250
1199	561	3,100	6,050	8,000	10,300	11,800	13,100
1206	561	3,150	6,150	8,230	10,700	12,400	14,000
1234	7.44	1,100	2,710	4,240	6,670	8,840	11,300
1246	7.47	1,080	2,660	4,180	6,580	8,730	11,100
1247	561	3,160	6,180	8,300	10,800	12,600	14,200
1304	5.58	1,050	2,690	4,250	6,770	8,960	11,500
1349	9.27	1,380	3,270	5,060	7,840	10,300	13,100
1356	5.91	1,090	2,810	4,450	7,080	9,380	12,100
1357	561	3,240	6,360	8,710	11,500	13,600	15,700
1363	13.0	532	1,270	2,000	3,220	4,380	5,760
1369	7.53	1,200	2,920	4,550	7,110	9,410	12,000
1371	13.2	1,490	3,490	5,370	8,300	10,900	13,800
1381	4.46	881	2,320	3,700	5,960	7,930	10,200

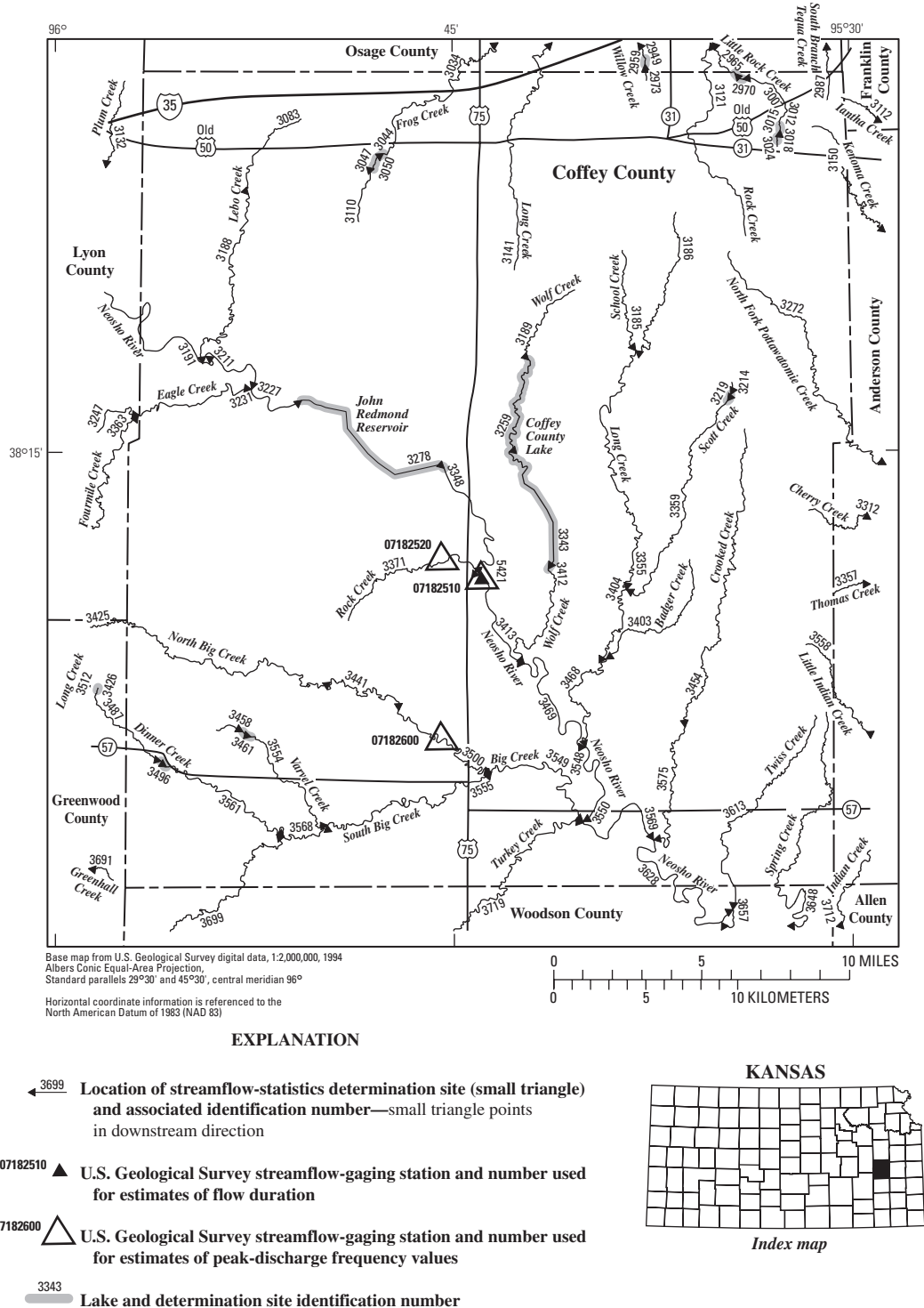


Figure 26. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Coffey County.

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Table 22. 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 Coffey 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. 26)	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
		2973	1029010194	CF	OS					Willow Creek	5.60	0
2987	1029010145	CF	OS			South Branch Tequa Creek	11.6	0	0	.74	2.97	9.51
3007	1029010173	CF	OS			Little Rock Creek	8.96	0	0	.13	1.15	4.99
3012	HYDRO	CF				HYDRO	3.59	NA	NA	NA	NA	NA
3015	1029010173	CF				Little Rock Creek	3.42	0	0	0	0	.51
3018	HYDRO	CF				HYDRO	2.74	NA	NA	NA	NA	NA
3024	1029010173	CF				Little Rock Creek	2.48	0	0	0	0	0
3034	1029010142	CF	OS			Frog Creek	51.7	0	.23	3.31	12.9	40.8
3044	HYDRO	CF				HYDRO	22.2	NA	NA	NA	NA	NA
3047	1029010142	CF				Frog Creek	21.1	0	0	1.04	4.61	15.5
3050	HYDRO	CF				HYDRO	20.5	NA	NA	NA	NA	NA
3083	1107020151	CF				Lebo Creek	23.9	0	0	.79	4.45	16.5
3110	1029010142	CF				Frog Creek	20.4	0	0	.99	4.44	15.0
3121	1029010143	CF	OS			Rock Creek	20.4	0	0	1.06	4.35	14.2
3141	102901011531	CF	OS			Long Creek	38.7	0	.18	2.87	10.6	32.1
3185	1107020438	CF				School Creek	10.3	0	0	.84	2.66	7.88
3186	1107020412	CF				Long Creek	15.1	0	0	1.29	4.10	11.8
3188	1107020151	CF				Lebo Creek	45.0	0	0	2.25	9.83	33.3
3189	1107020437	CF				Wolf Creek	11.9	0	0	.81	2.76	8.48
3191	1107020126	CF	LY			Neosho River	2,740	31.4	73.4	380	1,480	4,850
3211	1107020126	CF				Neosho River	2,790	30.6	71.9	384	1,510	4,990
3214	1107020440	CF				Scott Creek	4.78	0	0	.24	.79	3.01
3219	HYDRO	CF				HYDRO	5.01	NA	NA	NA	NA	NA
3227	110702011	CF				Neosho River	2,920	28.6	68.2	394	1,590	5,310
3231	1107020125	CF	LY			Eagle Creek	115	0	.88	6.14	24.4	81.8
3259	HYDRO	CF				HYDRO	24.5	NA	NA	NA	NA	NA
3278	HYDRO	CF				HYDRO	2,950	NA	NA	NA	NA	NA
3343	HYDRO	CF				HYDRO	35.4	NA	NA	NA	NA	NA
3348	1107020413	CF				Neosho River	2,960	28.0	67.0	397	1,620	5,420
3355	1107020412	CF				Long Creek	45.9	0	.82	4.06	13.0	36.6
3359	1107020440	CF				Scott Creek	18.9	0	0	1.56	5.47	16.2
3371	1107020415	CF				Rock Creek	24.9	0	0	1.15	4.94	16.5
3403	1107020442	CF				Badger Creek	7.73	0	0	0	.68	4.34
3404	1107020412	CF				Long Creek	68.2	0	1.25	5.80	19.1	55.2
3412	1107020437	CF				Wolf Creek	41.7	0	.67	3.54	11.2	31.6
3413	1107020413	CF				Neosho River	2,990	28.6	69.2	405	1,650	5,500
3425	1107020416	CF	GW	LY		North Big Creek	41.8	0	0	2.43	9.89	32.1
3441	1107020416	CF				North Big Creek	52.0	0	.19	3.23	12.7	40.6

Table 22. 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 Coffey 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. 26)	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
2973	3.83	920	1,900	2,740	3,990	5,020	6,190
2987	8.33	1,400	2,940	4,270	6,270	7,920	9,800
3007	5.45	1,200	2,510	3,630	5,320	6,710	8,300
3012	NA	NA	NA	NA	NA	NA	NA
3015	1.74	683	1,410	2,010	2,920	3,660	4,500
3018	NA	NA	NA	NA	NA	NA	NA
3024	1.03	566	1,160	1,650	2,380	2,990	3,670
3034	33.0	4,140	8,380	12,100	17,600	22,300	27,400
3044	NA	NA	NA	NA	NA	NA	NA
3047	13.8	2,050	4,320	6,290	9,260	11,700	14,500
3050	NA	NA	NA	NA	NA	NA	NA
3083	15.6	2,350	4,900	7,090	10,400	13,100	16,200
3110	13.4	2,010	4,240	6,160	9,080	11,500	14,300
3121	12.7	1,920	4,100	5,990	8,860	11,200	14,000
3141	25.5	3,430	7,040	10,200	14,900	18,900	23,200
3185	6.96	1,280	2,700	3,920	5,760	7,280	9,010
3186	9.99	1,610	3,420	4,970	7,330	9,290	11,500
3188	28.6	3,640	7,600	11,100	16,400	20,900	25,900
3189	7.61	1,350	2,880	4,190	6,190	7,850	9,750
3191	1,540	11,500	16,000	19,000	42,200	71,700	122,000
3211	1,570	11,400	15,600	18,300	41,700	71,500	122,000
3214	3.25	846	1,740	2,500	3,630	4,560	5,620
3219	NA	NA	NA	NA	NA	NA	NA
3227	1,640	11,000	14,500	16,600	40,400	71,100	124,000
3231	65.2	5,240	10,900	15,900	23,500	30,100	37,500
3259	NA	NA	NA	NA	NA	NA	NA
3278	NA	NA	NA	NA	NA	NA	NA
3343	NA	NA	NA	NA	NA	NA	NA
3348	1,660	10,900	14,100	16,000	40,000	71,000	125,000
3355	28.2	2,560	5,440	8,000	11,900	15,200	18,800
3359	13.4	1,930	4,060	5,890	8,660	11,000	13,600
3371	14.9	1,020	2,370	3,660	5,760	7,690	9,960
3403	5.19	1,240	2,510	3,580	5,180	6,490	7,980
3404	41.6	3,280	6,850	10,000	14,800	18,900	23,300
3412	24.7	2,430	5,200	7,660	11,400	14,600	18,100
3413	1,690	11,400	14,800	16,700	40,800	71,600	125,000
3425	26.8	3,100	5,640	7,740	10,800	13,400	16,100
3441	33.1	3,030	5,090	6,710	9,010	10,900	12,900

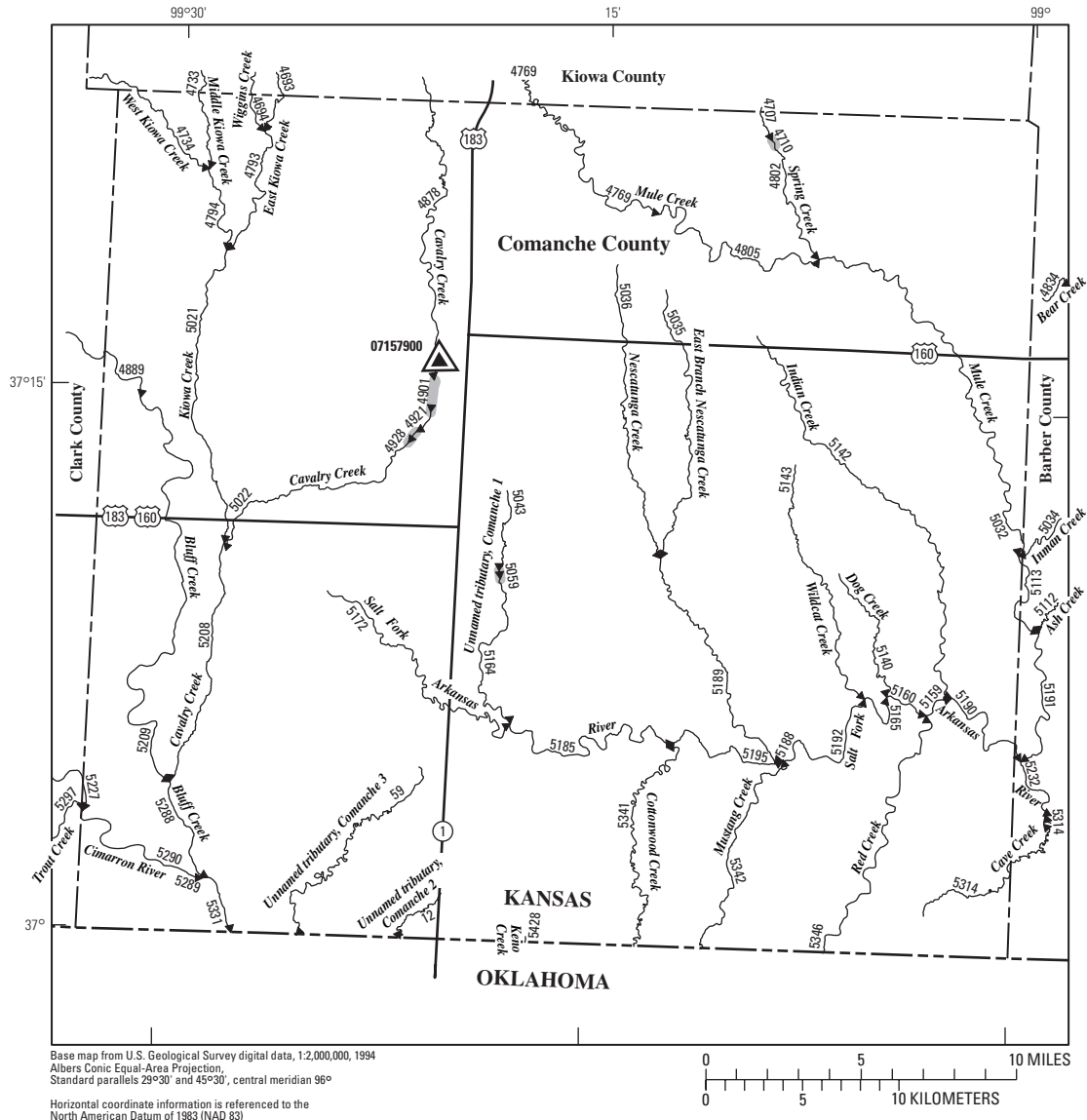
Table 22. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Coffey County.—Continued

[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. 26)	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
		3454	1107020444	CF						Crooked Creek	28.7	0
3458	1107020443	CF				Varvel Creek	3.65	0	0	0	0	1.39
3461	HYDRO	CF				HYDRO	4.45	NA	NA	NA	NA	NA
3468	1107020412	CF				Long Creek	81.9	0	1.38	6.50	22.0	65.3
3469	1107020413	CF				Neosho River	3,040	29.4	72.2	415	1,700	5,610
3487	11070204823	CF	GW			Dinner Creek	11.1	0	0	.38	2.23	8.28
3496	HYDRO	CF				HYDRO	12.5	NA	NA	NA	NA	NA
3500	1107020416	CF				North Big Creek	61.7	0	.39	3.94	15.2	48.6
3548	1107020410	CF				Neosho River	3,130	30.9	77.7	435	1,780	5,810
3549	1107020414	CF				Big Creek	160	.03	2.45	11.8	42.9	136
3550	1107020411	CF				Neosho River	3,290	33.6	87.9	471	1,940	6,170
3554	1107020443	CF				Varvel Creek	13.6	0	0	.60	2.96	10.3
3555	1107020417	CF				South Big Creek	91.3	0	1.38	7.39	26.6	81.4
3561	11070204823	CF				Dinner Creek	23.3	0	0	1.56	6.20	19.6
3568	1107020417	CF				South Big Creek	58.3	0	.74	4.89	17.6	52.9
3569	1107020410	CF				Neosho River	3,360	34.9	92.6	487	2,010	6,340
3575	1107020444	CF				Crooked Creek	38.8	0	.10	2.66	10.3	32.5
3613	1107020445	CF	WO			Twiss Creek	17.3	0	0	1.01	4.38	14.4
3628	1107020410	CF	WO			Neosho River	3,410	35.8	96.0	500	2,060	6,470
3648	1107020446	CF	WO			Spring Creek	15.0	0	0	.70	3.48	12.1
3699	1107020417	CF	WO			South Big Creek	30.5	0	.37	3.15	10.7	30.6
3719	1107020418	CF	WO			Turkey Creek	67.8	0	.91	5.93	22.1	67.5
5421	1107020413	CF				Neosho River	2,960	28.2	71.9	262	755	2,440

Table 22. 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 Coffey 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. 26)	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
3454	20.3	2,650	5,530	8,000	11,700	14,800	18,300
3458	2.34	756	1,530	2,180	3,150	3,940	4,830
3461	NA	NA	NA	NA	NA	NA	NA
3468	49.5	3,390	7,150	10,500	15,600	20,000	24,900
3469	1,720	12,000	15,800	17,800	42,000	72,500	125,000
3487	7.91	1,450	3,000	4,320	6,300	7,940	9,800
3496	NA	NA	NA	NA	NA	NA	NA
3500	39.0	3,210	4,850	6,000	7,500	8,660	9,830
3548	1,780	13,200	17,600	19,700	44,000	74,100	124,000
3549	98.6	5,750	9,550	12,500	16,800	20,200	23,900
3550	1,880	15,400	21,000	23,100	47,800	77,000	124,000
3554	9.55	1,630	3,390	4,890	7,150	9,020	11,100
3555	60.3	5,250	10,400	14,800	21,400	27,000	33,100
3561	16.4	2,220	4,670	6,780	9,980	12,600	15,700
3568	40.1	4,470	8,860	12,600	18,200	22,900	28,000
3569	1,930	16,400	22,600	24,700	49,600	78,400	124,000
3575	26.8	3,440	6,950	9,980	14,500	18,300	22,400
3613	12.9	2,140	4,340	6,190	8,960	11,200	13,800
3628	1,970	17,100	23,700	25,900	50,900	79,400	123,000
3648	11.3	1,980	3,990	5,680	8,210	10,300	12,600
3699	23.1	3,210	6,410	9,140	13,200	16,500	20,200
3719	50.4	4,210	8,500	12,200	17,800	22,600	27,800
5421	1,250	19,000	37,700	54,300	79,500	102,000	127,000



EXPLANATION

- 
5331 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 
07157900 U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 
07157900 U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 
4903 Lake and determination site identification number

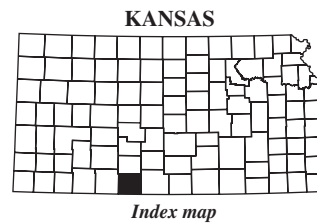


Figure 27. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Comanche County.

Table 23. 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 Comanche 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. 27)	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
12	1105000139	CM				Unnamed tributary, Comanche 2	2.58	0	0	0	0	0
59	1105000124	CM				Unnamed tributary, Comanche 3	34.2	0	.49	.96	1.15	2.03
4693	1104000812	CM	KW			East Kiowa Creek	21.4	0	0	0	0	0
4694	110400081173	CM	KW			Wiggins Creek	13.5	0	0	0	0	0
4707	1106000224	CM	KW			Spring Creek	6.79	0	0	0	.01	.01
4710	HYDRO	CM				HYDRO	7.53	NA	NA	NA	NA	NA
4733	110400081182	CM	KW			Middle Kiowa Creek	42.5	0	0	.81	1.54	3.53
4769	110600027	CM	KW			Mule Creek	62.3	0	.04	.85	2.04	5.33
4793	1104000812	CM				East Kiowa Creek	50.9	0	.47	1.41	2.44	4.88
4794	110400081180	CM				West Kiowa Creek	130	0	1.39	3.68	7.72	16.2
4802	1106000224	CM				Spring Creek	21.2	0	.23	.45	.65	1.04
4805	110600027	CM				Mule Creek	80.6	0	.49	2.03	4.37	9.76
4878	110400083	CM	KW			Cavalry Creek	60.6	.65	1.00	1.50	2.00	2.90
4901	HYDRO	CM				HYDRO	65.3	NA	NA	NA	NA	NA
4921	110400083	CM				Cavalry Creek	68.1	.65	1.21	1.85	2.67	4.17
4928	HYDRO	CM				HYDRO	69.7	NA	NA	NA	NA	NA
5021	1104000812	CM				Kiowa Creek	213	.25	3.04	6.80	13.9	28.6
5022	110400083	CM				Cavalry Creek	98.0	.71	2.10	3.24	5.18	8.77
5035	1106000227	CM				East Branch Nescatunga Creek	22.9	0	0	0	.06	.12
5036	1106000214	CM				Nescatunga Creek	36.2	.44	1.47	1.78	2.03	3.07
5043	11060002503	CM				Unnamed tributary, Comanche 1	19.1	0	.05	.15	.20	.40
5059	HYDRO	CM				HYDRO	19.8	NA	NA	NA	NA	NA
5140	1106000229	CM				Dog Creek	8.73	0	0	0	.01	.02
5142	110600029	CM				Indian Creek	44.2	0	.46	1.52	2.67	5.25
5143	1106000212	CM				Wildcat Creek	22.3	0	0	.15	.32	.77
5159	1106000210	CM				Salt Fork Arkansas River	326	1.63	7.39	18.3	37.2	76.5
5160	1106000211	CM				Salt Fork Arkansas River	272	1.39	6.05	14.2	28.3	57.7
5164	11060002503	CM				Unnamed tributary, Comanche 1	37.2	0	.68	1.18	1.52	2.74
5165	1106000211	CM				Salt Fork Arkansas River	262	1.33	5.84	13.6	27.0	54.9
5172	1106000215	CM				Salt Fork Arkansas River	34.0	0	.01	.14	.23	1.21
5185	1106000215	CM				Salt Fork Arkansas River	93.5	0	1.25	3.06	5.95	12.3
5188	1106000213	CM				Salt Fork Arkansas River	209	1.02	4.52	9.90	19.3	38.9
5189	1106000214	CM				Nescatunga Creek	84.0	.45	2.33	3.96	6.51	11.8
5192	1106000213	CM				Salt Fork Arkansas River	238	1.18	5.27	12.0	23.7	47.9
5195	1106000215	CM				Salt Fork Arkansas River	125	.01	1.72	4.37	8.93	18.7
5208	110400083	CM				Cavalry Creek	336	2.24	6.60	13.4	25.9	51.0
5209	1104000813	CM				Bluff Creek	313	0	1.64	4.62	10.9	24.7
5288	110400082	CM				Bluff Creek	657	3.19	9.48	21.2	43.4	89.9

Table 23. 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 Comanche 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. 27)	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
12	0	185	498	801	1,290	1,730	2,230
59	2.94	431	1,140	1,850	2,990	4,020	5,180
4693	1.55	617	1,750	2,880	4,770	6,460	8,460
4694	.59	468	1,320	2,160	3,560	4,810	6,290
4707	.01	319	882	1,430	2,340	3,150	4,100
4710	NA	NA	NA	NA	NA	NA	NA
4733	4.18	725	1,870	3,000	4,810	6,450	8,300
4769	6.00	588	1,660	2,770	4,650	6,400	8,440
4793	5.05	726	1,850	2,930	4,660	6,220	7,960
4794	13.1	1,310	3,230	5,070	8,010	10,700	13,600
4802	1.98	622	1,760	2,890	4,780	6,460	8,460
4805	8.86	698	1,900	3,130	5,170	7,060	9,240
4878	3.45	492	1,290	2,050	3,290	4,410	5,680
4901	NA	NA	NA	NA	NA	NA	NA
4921	4.35	538	1,390	2,200	3,520	4,710	6,060
4928	NA	NA	NA	NA	NA	NA	NA
5021	21.4	1,640	3,940	6,150	9,640	12,800	16,300
5022	7.51	762	1,860	2,880	4,490	5,920	7,520
5035	1.61	661	1,860	3,060	5,060	6,840	8,960
5036	3.47	584	1,400	2,160	3,320	4,340	5,450
5043	1.35	597	1,670	2,750	4,530	6,110	7,990
5059	NA	NA	NA	NA	NA	NA	NA
5140	.01	364	1,010	1,660	2,720	3,670	4,780
5142	5.07	838	2,060	3,230	5,060	6,680	8,490
5143	1.94	637	1,800	2,970	4,920	6,660	8,720
5159	49.7	1,660	4,050	6,380	10,100	13,500	17,300
5160	38.7	1,450	3,570	5,630	8,920	11,900	15,300
5164	3.45	570	1,430	2,250	3,540	4,690	5,960
5165	37.0	1,420	3,490	5,510	8,740	11,700	15,000
5172	2.72	392	1,130	1,900	3,210	4,430	5,840
5185	10.4	739	1,950	3,160	5,140	6,950	9,010
5188	27.4	1,190	2,970	4,710	7,490	10,000	12,900
5189	9.55	957	2,270	3,500	5,400	7,070	8,910
5192	32.7	1,330	3,290	5,190	8,240	11,000	14,100
5195	14.8	895	2,340	3,790	6,150	8,310	10,800
5208	34.3	1,870	4,350	6,650	10,200	13,400	17,000
5209	20.6	1,500	3,910	6,330	10,300	14,000	18,300
5288	58.8	2,420	5,750	8,920	14,000	18,600	23,800

Table 23. 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 Comanche County.—Continued

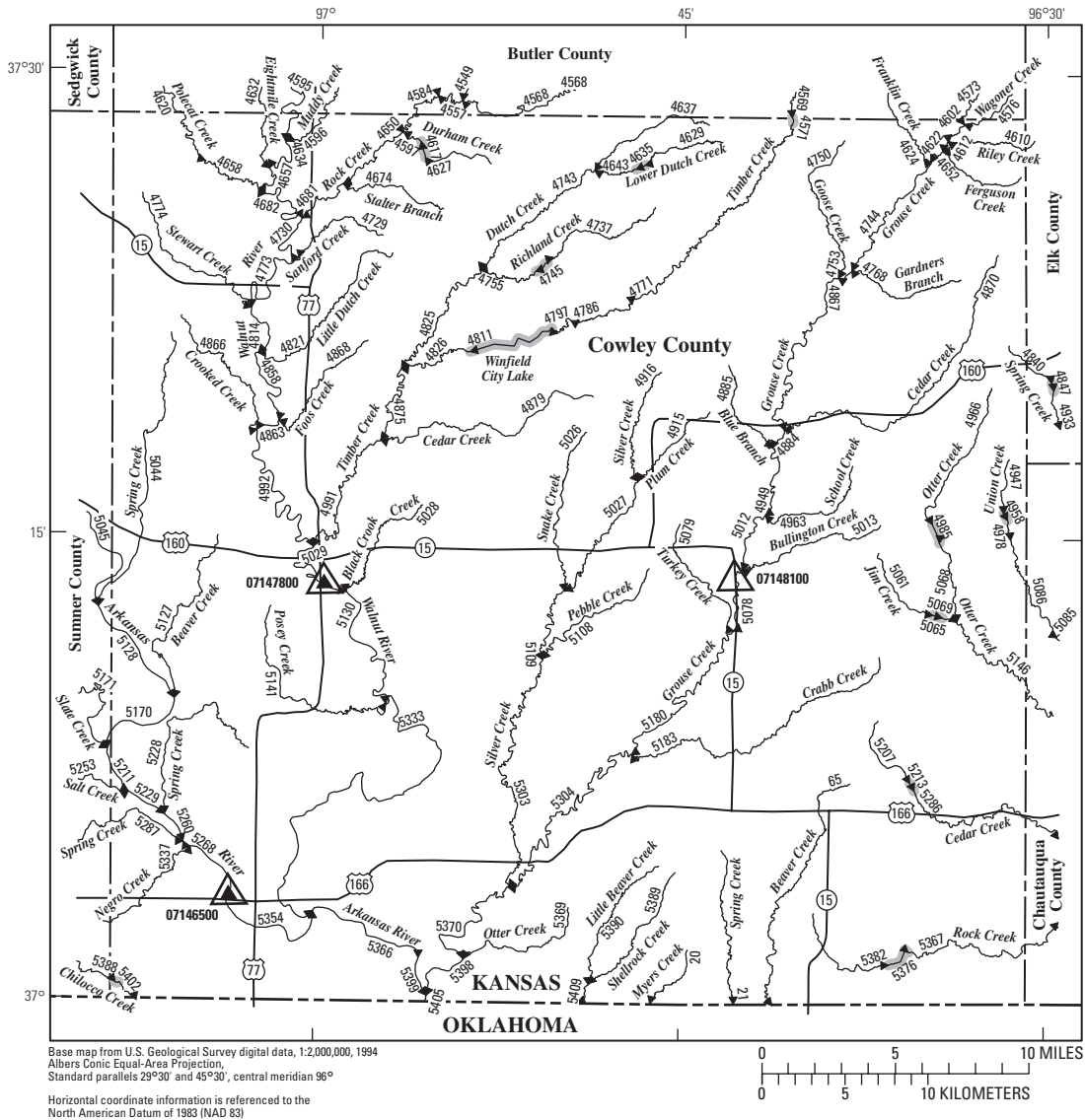
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 27)	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
		5289	110400081	CM						Cimarron River	9,540	19.3
5331	110400081	CM				Cimarron River	10,200	19.2	44.4	109	228	465
5341	1106000230	CM				Cottonwood Creek	26.7	0	.01	.15	.20	.97
5342	1106000231	CM				Mustang Creek	20.6	0	0	.17	.18	.76
5346	1106000216	CM				Red Creek	53.0	0	.31	1.78	3.72	7.78
5428	1105000122	CM				Keno Creek	.25	0	0	0	0	0

Table 23. 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 Comanche 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. 27)	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
5289	239	3,690	9,830	16,100	26,600	36,300	47,900
5331	276	4,220	11,000	17,900	29,300	39,900	52,400
5341	2.34	712	2,020	3,330	5,520	7,480	9,810
5342	1.94	607	1,720	2,830	4,680	6,340	8,300
5346	6.75	925	2,340	3,710	5,900	7,880	10,100
5428	0	47	121	191	301	393	506



EXPLANATION

- ◀ 5388 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- ▲ 07146500 U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- △ 07148100 U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 5402 Lake and determination site identification number

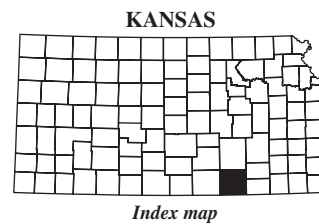


Figure 28. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Cowley County.

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Table 24. 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 Cowley 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. 28)	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
		20	1106000124	CL						Myers Creek	4.02	0
21	1106000121	CL				Spring Creek	10.5	0	0	.82	2.80	8.39
65	110600019	CL				Beaver Creek	30.2	0	.13	2.37	8.04	23.4
4597	1103001823	CL				Durham Creek	9.26	0	0	0	.22	2.78
4610	1106000137	CL	EK			Riley Creek	5.69	0	0	.27	1.13	4.08
4612	1106000116	CL				Grouse Creek	33.4	0	.08	2.57	9.24	27.6
4617	HYDRO	CL				HYDRO	8.46	NA	NA	NA	NA	NA
4622	1106000116	CL				Grouse Creek	42.5	0	.29	3.36	12.0	35.6
4627	1103001823	CL				Durham Creek	7.73	0	0	0	0	1.67
4629	1103001820	CL				Lower Dutch Creek	6.91	0	0	0	0	1.03
4634	110300188	CL				Walnut River	1,420	44.4	75.6	186	608	1,970
4635	HYDRO	CL				HYDRO	7.52	NA	NA	NA	NA	NA
4643	1103001820	CL				Lower Dutch Creek	9.70	0	0	0	.12	2.71
4650	110300186	CL				Rock Creek	121	0	1.31	6.89	24.5	76.6
4652	1106000138	CL				Ferguson Creek	8.72	0	0	.68	2.43	7.47
4657	110300188	CL				Walnut River	1,470	45.9	78.5	194	633	2,040
4658	1103001817	CL				Polecat Creek	42.4	0	0	1.42	5.56	18.4
4674	1103001824	CL				Stalter Branch	8.73	0	0	0	.03	2.31
4681	110300186	CL				Rock Creek	132	0	1.46	7.37	26.1	82.1
4682	110300187	CL				Walnut River	1,510	47.4	81.1	201	656	2,110
4729	1103001829	CL				Sanford Creek	5.53	0	0	0	0	.72
4730	110300185	CL				Walnut River	1,650	51.7	89.0	222	726	2,290
4737	1103001825	CL				Richland Creek	12.4	0	0	0	.73	4.38
4743	110300184	CL				Dutch Creek	33.4	0	0	1.08	4.63	15.9
4744	1106000116	CL				Grouse Creek	65.4	0	.77	5.15	18.1	54.1
4745	HYDRO	CL				HYDRO	13.4	NA	NA	NA	NA	NA
4750	1106000134	CL				Goose Creek	14.8	0	0	1.04	3.67	11.1
4753	1106000116	CL				Grouse Creek	78.8	0	1.04	6.27	22.0	65.8
4755	1103001825	CL				Richland Creek	17.4	0	0	.29	1.87	7.54
4768	1106000139	CL				Gardners Branch	12.6	0	0	1.08	3.81	11.2
4773	110300185	CL				Walnut River	1,660	52.1	89.6	224	732	2,310
4774	1103001828	CL				Stewart Creek	23.1	0	0	.38	2.02	7.82
4786	110300183	CL				Timber Creek	44.2	0	.07	2.48	9.09	28.2
4797	110300183	CL				Timber Creek	47.1	0	.15	2.72	9.82	30.2
4811	HYDRO	CL				HYDRO	54.4	NA	NA	NA	NA	NA
4814	110300185	CL				Walnut River	1,680	52.9	91.1	228	746	2,350
4821	1103001827	CL				Little Dutch Creek	14.3	0	0	.38	1.80	6.58
4825	110300184	CL				Dutch Creek	60.7	0	.11	2.54	9.56	30.9

Table 24. 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 Cowley 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. 28)	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
20	2.34	660	1,400	2,040	3,000	3,800	4,700
21	7.05	1,150	2,500	3,670	5,450	6,940	8,640
65	18.4	3,240	6,620	9,530	13,800	17,500	21,500
4597	4.01	1,000	2,210	3,260	4,870	6,210	7,750
4610	3.92	841	1,790	2,600	3,820	4,830	5,980
4612	21.5	3,840	7,750	11,100	16,000	20,300	24,700
4617	NA	NA	NA	NA	NA	NA	NA
4622	27.1	4,400	8,800	12,600	18,100	22,900	27,900
4627	3.13	902	1,980	2,920	4,350	5,540	6,910
4629	2.69	871	1,890	2,780	4,120	5,240	6,520
4634	831	13,900	26,900	33,400	49,300	64,600	81,300
4635	NA	NA	NA	NA	NA	NA	NA
4643	4.13	1,060	2,310	3,410	5,080	6,480	8,080
4650	58.8	5,410	11,100	16,200	23,900	30,500	37,900
4652	6.29	1,070	2,290	3,350	4,950	6,290	7,810
4657	862	14,300	27,900	34,600	50,900	66,700	84,100
4658	16.8	2,190	5,060	7,740	11,900	15,700	19,800
4674	3.62	940	2,080	3,080	4,610	5,900	7,360
4681	62.9	5,600	11,500	16,800	24,800	31,700	39,300
4682	891	14,800	28,700	35,600	52,500	68,800	86,700
4729	2.07	697	1,540	2,280	3,410	4,350	5,430
4730	978	16,100	31,200	38,800	57,100	74,900	94,300
4737	5.48	1,210	2,660	3,940	5,900	7,540	9,410
4743	15.1	3,000	6,370	9,360	13,900	17,800	22,000
4744	40.0	4,980	10,100	14,500	21,000	26,500	32,600
4745	NA	NA	NA	NA	NA	NA	NA
4750	9.31	1,400	3,070	4,530	6,760	8,620	10,800
4753	47.8	5,590	11,200	16,100	23,300	29,400	36,100
4755	7.99	1,450	3,240	4,810	7,230	9,260	11,600
4768	9.00	1,300	2,840	4,170	6,200	7,890	9,830
4773	986	16,200	31,500	39,000	57,500	75,400	95,000
4774	8.37	1,460	3,400	5,160	7,890	10,200	12,900
4786	23.1	3,120	6,690	9,890	14,700	18,900	23,600
4797	24.6	3,170	6,800	10,000	15,000	19,300	23,900
4811	NA	NA	NA	NA	NA	NA	NA
4814	1,000	16,400	31,900	39,600	58,400	76,600	96,500
4821	6.64	1,200	2,710	4,050	6,120	7,870	9,870
4825	26.8	3,860	8,120	11,900	17,600	22,600	28,000

Table 24. 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 Cowley 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. 28)	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
		4826	110300183	CL						Timber Creek	58.9	0
4840	1107010653	CL	EK			Spring Creek	7.00	0	0	.89	2.66	7.33
4858	110300185	CL				Walnut River	1,700	53.5	92.1	230	755	2,370
4863	110300185	CL				Walnut River	1,710	53.9	92.9	232	761	2,390
4866	1103001831	CL				Crooked Creek	11.8	0	0	.25	.90	3.62
4867	1106000116	CL				Grouse Creek	113	0	1.80	9.09	31.3	93.6
4868	1103001826	CL				Foos Creek	11.6	0	0	.40	1.63	5.72
4870	1106000132	CL				Cedar Creek	33.6	0	.19	2.84	9.86	28.8
4875	110300182	CL				Timber Creek	125	0	1.29	6.54	23.0	71.9
4879	1103001819	CL				Cedar Creek	24.7	0	0	1.03	4.02	13.0
4884	1106000116	CL				Grouse Creek	147	0	2.43	11.7	40.3	122
4885	1106000130	CL				Blue Branch	11.3	0	0	.60	2.33	7.59
4915	1106000133	CL				Plum Creek	9.22	0	0	.02	.77	3.98
4916	1106000117	CL				Silver Creek	11.6	0	0	.12	1.10	4.96
4947	1107010641	CL				Union Creek	6.23	0	0	.71	2.13	6.06
4949	1106000116	CL				Grouse Creek	163	0	2.76	13.0	44.5	135
4958	HYDRO	CL				HYDRO	7.65	NA	NA	NA	NA	NA
4963	1106000131	CL				School Creek	9.22	0	0	.66	2.45	7.65
4966	1107010621	CL				Otter Creek	15.1	0	0	1.66	5.41	15.1
4978	1107010641	CL				Union Creek	9.25	0	0	1.11	3.47	9.57
4985	HYDRO	CL				HYDRO	16.6	NA	NA	NA	NA	NA
4991	110300182	CL				Timber Creek	160	0	1.88	8.55	29.5	92.3
4992	110300185	CL				Walnut River	1,740	54.7	94.3	236	774	2,420
5012	1106000116	CL				Grouse Creek	177	0	3.05	14.1	48.5	147
5013	1106000128	CL				Bullington Creek	13.4	0	0	1.03	3.70	11.1
5026	1106000125	CL				Snake Creek	18.6	0	0	.66	2.79	9.49
5027	1106000117	CL				Silver Creek	29.8	0	0	1.46	5.57	17.7
5028	1103001818	CL				Black Crook Creek	21.1	0	0	1.14	3.97	12.1
5029	110300181	CL				Walnut River	1,900	60.0	104	262	860	2,660
5044	1103001334	CL	SU			Spring Creek	27.6	.39	.89	1.97	4.22	10.3
5045	110300132	CL	SU			Arkansas River	40,600	346	521	958	1,870	4,170
5061	1107010649	CL				Jim Creek	10.0	0	0	.94	3.22	9.40
5065	HYDRO	CL				HYDRO	10.8	NA	NA	NA	NA	NA
5068	1107010621	CL				Otter Creek	23.0	0	.20	2.66	8.71	24.0
5069	1107010649	CL				Jim Creek	11.0	0	0	1.10	3.72	10.7
5078	1106000116	CL				Grouse Creek	197	.11	3.43	15.7	53.8	164
5079	1106000127	CL				Turkey Creek	11.3	0	0	.61	2.31	7.48
5108	1106000126	CL				Pebble Creek	15.2	0	0	.50	2.35	8.35

Table 24. 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 Cowley 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. 28)	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
4826	29.8	3,430	7,330	10,800	16,100	20,700	25,700
4840	5.64	934	2,000	2,920	4,300	5,460	6,770
4858	1,010	16,600	32,300	40,000	59,000	77,300	97,400
4863	1,020	16,700	32,500	40,300	59,400	77,900	98,100
4866	4.36	997	2,290	3,440	5,220	6,730	8,470
4867	65.9	6,110	12,400	17,900	26,100	33,100	40,800
4868	5.66	1,060	2,380	3,550	5,360	6,880	8,630
4870	21.8	3,740	7,580	10,900	15,700	19,900	24,300
4875	56.1	5,340	11,000	16,100	23,700	30,400	37,700
4879	11.9	1,720	3,890	5,820	8,820	11,300	14,200
4884	84.3	7,350	14,900	21,300	31,000	39,300	48,300
4885	6.84	1,170	2,560	3,780	5,640	7,190	8,970
4915	4.65	1,030	2,240	3,300	4,920	6,280	7,820
4916	5.58	1,160	2,550	3,770	5,640	7,200	8,990
4947	4.88	875	1,870	2,720	4,010	5,080	6,290
4949	92.6	7,500	15,300	22,100	32,200	40,800	50,300
4958	NA	NA	NA	NA	NA	NA	NA
4963	6.47	1,070	2,320	3,410	5,060	6,430	8,000
4966	11.3	1,460	3,180	4,680	6,960	8,870	11,000
4978	7.28	1,100	2,370	3,460	5,130	6,510	8,090
4985	NA	NA	NA	NA	NA	NA	NA
4991	70.2	5,750	11,900	17,400	25,700	33,000	41,000
4992	1,040	17,000	33,000	40,900	60,300	79,000	99,600
5012	100	7,800	16,000	23,000	33,600	42,700	52,600
5013	9.06	1,330	2,900	4,270	6,360	8,110	10,100
5026	9.05	1,480	3,310	4,930	7,440	9,550	12,000
5027	15.4	2,010	4,510	6,730	10,200	13,100	16,400
5028	10.6	1,540	3,490	5,230	7,920	10,200	12,800
5029	1,140	18,600	36,100	44,800	66,000	86,500	109,000
5044	9.33	1,590	3,730	5,680	8,730	11,300	14,300
5045	1,960	19,700	38,100	42,000	59,200	75,000	92,500
5061	7.43	1,130	2,440	3,590	5,320	6,770	8,430
5065	NA	NA	NA	NA	NA	NA	NA
5068	17.1	1,860	4,090	6,040	9,040	11,500	14,400
5069	8.24	1,190	2,590	3,800	5,650	7,190	8,950
5078	111	8,250	17,000	24,500	35,800	45,500	56,100
5079	6.76	1,160	2,550	3,760	5,610	7,160	8,930
5108	8.03	1,360	3,010	4,460	6,690	8,560	10,700

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

Table 24. 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 Cowley County.—Continued

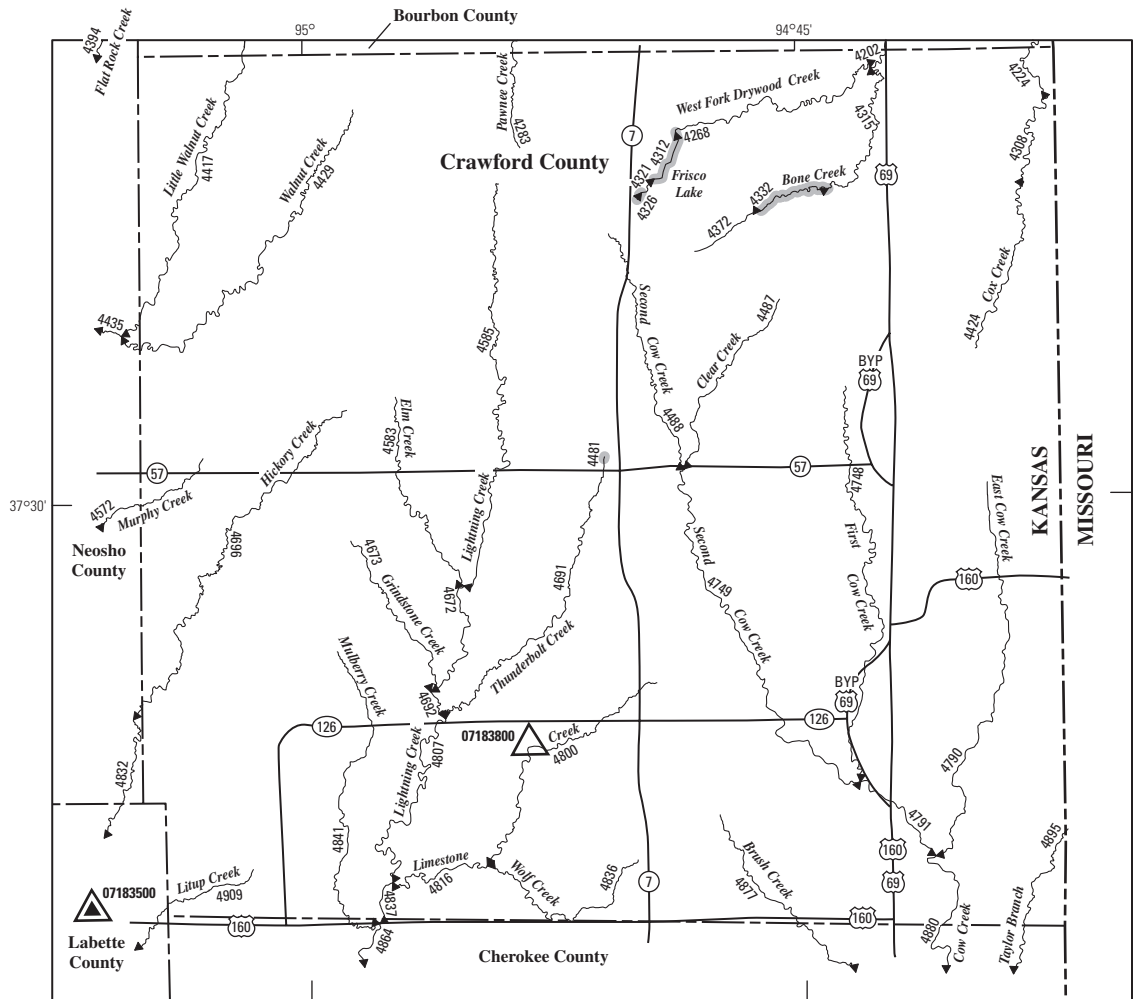
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 28)	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
5109	1106000117	CL				Silver Creek	59.1	0	0.31	3.20	11.4	35.0
5127	1103001333	CL				Beaver Creek	19.7	0	.06	.82	2.14	6.49
5128	110300132	CL	SU			Arkansas River	40,600	348	524	964	1,880	4,190
5130	110300181	CL				Walnut River	1,940	61.2	106	267	877	2,710
5141	1103001837	CL				Posey Creek	22.4	0	0	.91	3.06	9.69
5170	110300131	CL	SU			Arkansas River	40,600	350	526	968	1,890	4,200
5180	1106000116	CL				Grouse Creek	226	.33	4.07	18.2	61.9	189
5183	1106000129	CL				Crabb Creek	38.5	0	.26	3.15	10.9	31.8
5207	1107010630	CL				Cedar Creek	12.0	0	0	1.24	3.94	11.0
5211	110300131	CL	SU			Arkansas River	40,900	368	550	1,020	1,970	4,380
5213	HYDRO	CL				HYDRO	13.4	NA	NA	NA	NA	NA
5228	1103001321	CL				Spring Creek	19.1	.37	.81	1.84	3.96	9.60
5229	110300131	CL				Arkansas River	41,000	369	552	1,020	1,980	4,400
5253	1103001322	CL	SU			Salt Creek	23.1	0	0	1.02	3.16	9.59
5260	110300131	CL				Arkansas River	41,000	370	554	1,020	1,990	4,410
5268	110300131	CL				Arkansas River	41,000	371	555	1,020	1,990	4,420
5287	1103001319	CL	SU			Spring Creek	10.6	0	0	.52	1.45	4.62
5303	1106000117	CL				Silver Creek	101	0	1.22	6.32	21.6	65.1
5304	1106000116	CL				Grouse Creek	284	.73	5.28	23.3	78.5	240
5333	110300181	CL				Walnut River	2,010	63.3	110	276	907	2,800
5337	1103001320	CL	SU			Negro Creek	12.1	0	0	.38	1.36	4.89
5354	110300131	CL				Arkansas River	41,000	373	558	1,030	2,000	4,440
5366	1106000118	CL				Arkansas River	43,000	391	586	1,080	2,100	4,660
5369	1106000120	CL				Otter Creek	13.4	0	0	1.32	4.05	11.2
5370	1106000115	CL				Grouse Creek	396	1.50	7.28	31.0	103	321
5376	HYDRO	CL				HYDRO	28.2	NA	NA	NA	NA	NA
5382	1107010628	CL				Rock Creek	20.4	0	0	1.72	5.92	17.2
5387	1106000119	CL	SU			Chilocco Creek	12.3	0	0	.21	.98	4.12
5388	HYDRO	CL				HYDRO	12.4	NA	NA	NA	NA	NA
5389	1106000122	CL				Shellrock Creek	9.67	0	0	.62	1.98	6.12
5390	1106000111	CL				Little Beaver Creek	12.2	0	0	1.02	3.24	9.37
5398	1106000115	CL				Grouse Creek	415	1.70	7.84	33.2	110	339
5399	1106000114	CL				Arkansas River	43,000	391	586	1,080	2,100	4,660
5402	1106000119	CL				Chilocco Creek	18.9	0	0	.62	2.24	7.59
5405	1106000114	CL				Arkansas River	43,500	395	591	1,090	2,120	4,700
5409	1106000111	CL				Little Beaver Creek	24.6	0	.18	2.13	6.67	18.6

Table 24. 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 Cowley 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. 28)	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
5109	28.5	3,430	7,350	10,900	16,200	20,900	26,000
5127	6.89	1,400	3,200	4,820	7,340	9,470	11,900
5128	1,970	19,700	38,300	42,200	59,500	75,400	93,100
5130	1,170	18,900	36,800	45,700	67,300	88,200	111,000
5141	9.39	1,590	3,610	5,410	8,200	10,600	13,300
5170	1,970	19,800	38,400	42,300	59,700	75,700	93,400
5180	126	8,250	17,100	24,800	36,300	46,300	57,300
5183	23.9	3,500	7,260	10,500	15,400	19,700	24,200
5207	8.48	1,220	2,660	3,930	5,860	7,470	9,310
5211	2,060	20,400	40,000	44,000	62,200	79,000	97,700
5213	NA	NA	NA	NA	NA	NA	NA
5228	8.36	1,460	3,300	4,940	7,460	9,590	12,000
5229	2,070	20,500	40,100	44,100	62,400	79,200	98,000
5253	9.14	1,520	3,510	5,300	8,080	10,400	13,200
5260	2,070	20,500	40,200	44,200	62,600	79,500	98,300
5268	2,080	20,500	40,300	44,300	62,700	79,600	98,500
5287	4.80	1,030	2,290	3,410	5,130	6,580	8,230
5303	49.2	4,240	9,020	13,300	19,900	25,600	31,900
5304	156	8,670	18,000	26,200	38,500	49,200	61,000
5333	1,210	19,600	38,100	47,300	69,600	91,300	115,000
5337	5.33	1,140	2,530	3,760	5,650	7,240	9,060
5354	2,090	20,600	40,500	44,500	63,000	80,000	99,000
5366	2,190	21,600	42,500	46,700	66,100	83,900	104,000
5369	8.76	1,250	2,770	4,110	6,150	7,870	9,830
5370	204	9,980	20,600	29,800	43,800	55,900	69,400
5376	NA	NA	NA	NA	NA	NA	NA
5382	13.5	1,760	3,850	5,670	8,460	10,800	13,500
5387	4.94	1,120	2,510	3,750	5,640	7,230	9,060
5388	NA	NA	NA	NA	NA	NA	NA
5389	5.67	1,080	2,350	3,460	5,140	6,540	8,150
5390	7.77	1,220	2,670	3,950	5,890	7,520	9,380
5398	214	10,000	20,700	30,000	44,100	56,300	69,800
5399	2,190	21,600	42,500	46,700	66,100	84,000	104,000
5402	7.81	1,450	3,270	4,900	7,400	9,510	11,900
5405	2,210	21,800	42,900	47,100	66,700	84,800	105,000
5409	14.7	1,840	4,090	6,070	9,140	11,700	14,700



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

EXPLANATION

- ← 4909 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- ▲ 07183500 U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- △ 07183800 U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 4855 Lake and determination site identification number

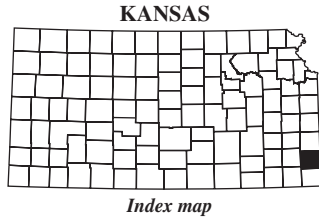


Figure 29. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Crawford County.

Table 25. 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 Crawford County.

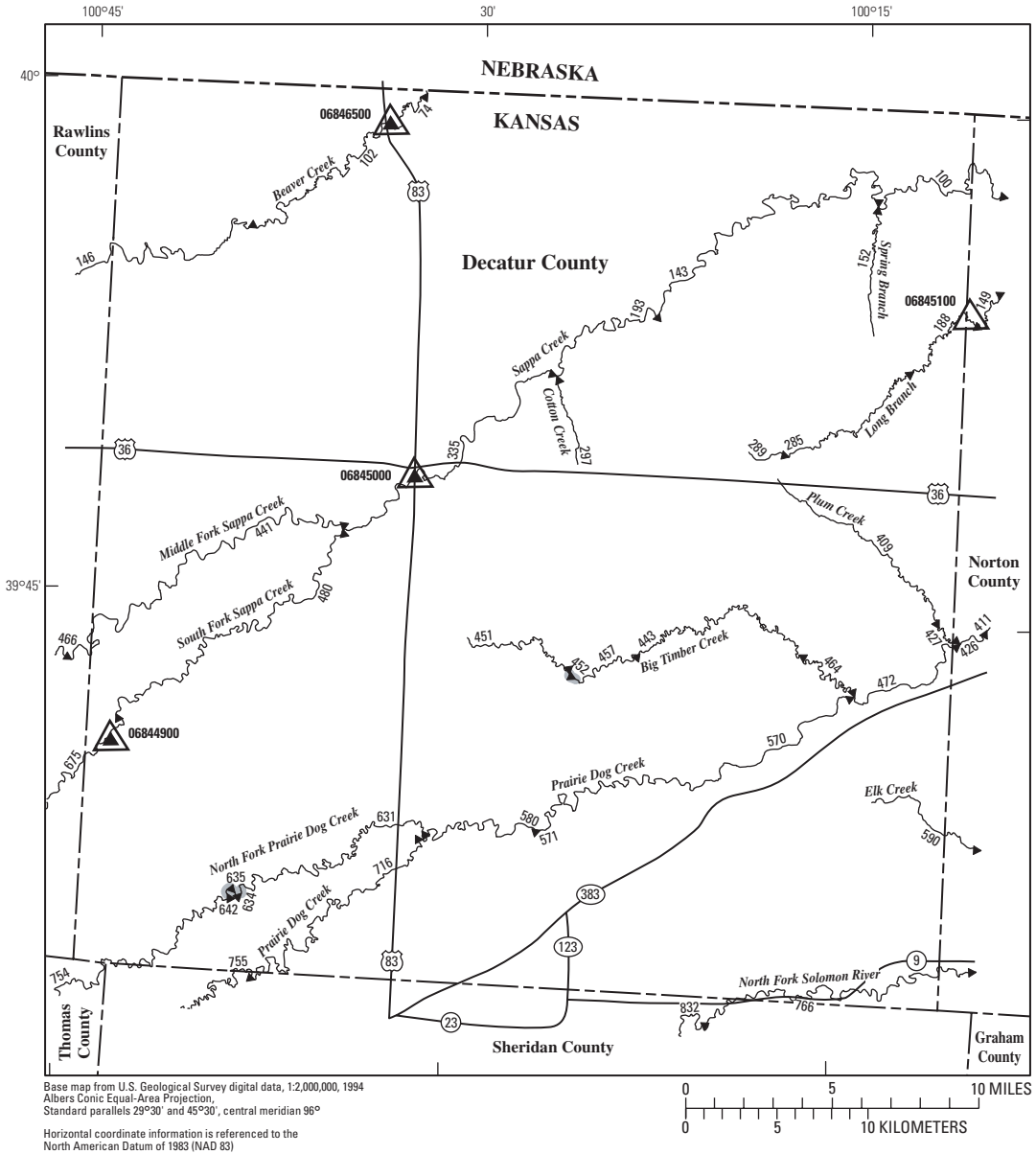
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 29)	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
		4268	10290104323	CR						West Fork Drywood Creek	29.1	0
4308	10290104324	CR				Cox Creek	40.1	0	1.66	7.38	23.9	62.9
4312	HYDRO	CR				HYDRO	7.62	NA	NA	NA	NA	NA
4315	102901049019	CR				Bone Creek	28.0	0	.62	4.36	15.5	42.9
4321	10290104323	CR				West Fork Drywood Creek	4.10	.32	.35	1.19	2.95	6.93
4326	HYDRO	CR				HYDRO	2.57	NA	NA	NA	NA	NA
4332	HYDRO	CR				HYDRO	13.1	NA	NA	NA	NA	NA
4372	102901049019	CR				Bone Creek	7.27	0	0	1.29	4.35	11.7
4424	10290104324	CR				Cox Creek	30.1	0	1.21	5.70	18.5	48.2
4429	1107020513	CR	NO			Walnut Creek	41.6	0	.28	3.69	14.8	46.0
4481	HYDRO	CR				HYDRO	2.90	NA	NA	NA	NA	NA
4487	1107020728	CR				Clear Creek	19.7	.01	.11	2.43	9.10	26.2
4488	1107020716	CR				Second Cow Creek	19.6	.01	.09	2.28	8.56	24.8
4572	1107020541	CR	NO			Murphy Creek	16.4	0	0	1.65	6.39	19.0
4583	1107020543	CR				Elm Creek	16.7	0	.07	1.96	7.08	20.7
4585	110702058	CR				Lightning Creek	40.6	0	.50	4.08	15.5	49.4
4672	110702058	CR				Lightning Creek	61.1	0	.87	5.70	21.8	73.5
4673	1107020542	CR				Grindstone Creek	12.2	0	0	1.51	5.35	15.4
4691	1107020544	CR				Thunderbolt Creek	24.4	0	.15	2.62	9.96	30.3
4692	110702058	CR				Lightning Creek	73.7	0	1.05	6.61	25.5	88.8
4696	1107020510	CR	NO			Hickory Creek	40.3	0	.92	4.99	17.3	48.7
4748	1107020727	CR				First Cow Creek	43.1	.04	.45	3.68	14.2	43.3
4749	1107020716	CR				Second Cow Creek	72.5	.12	1.53	7.98	29.6	88.4
4790	1107020724	CR				East Cow Creek	46.6	.05	.60	4.20	15.9	48.0
4791	1107020716	CR				Cow Creek	122	.54	2.81	12.5	45.6	139
4800	110702057	CR				Limestone Creek	25.6	0	.20	2.70	10.1	30.7
4807	110702058	CR				Lightning Creek	107	0	1.38	8.60	34.1	130
4816	110702057	CR				Limestone Creek	48.0	0	.74	4.98	18.6	59.3
4836	1107020533	CR				Wolf Creek	17.3	0	.21	2.44	8.50	24.1
4909	1107020536	CR	LB			Litup Creek	24.7	0	.30	2.67	9.31	26.6

Table 25. 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 Crawford 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. 29)	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
4268	32.5	3,500	6,840	9,630	13,800	17,100	21,000
4308	42.6	4,440	7,850	10,600	14,400	17,500	20,700
4312	NA	NA	NA	NA	NA	NA	NA
4315	30.5	3,480	6,770	9,510	13,600	16,800	20,600
4321	5.11	1,140	2,130	2,930	4,100	5,030	6,080
4326	NA	NA	NA	NA	NA	NA	NA
4332	NA	NA	NA	NA	NA	NA	NA
4372	8.84	1,610	3,040	4,200	5,900	7,260	8,800
4424	33.1	4,650	8,010	10,700	14,300	17,200	20,200
4429	36.3	3,290	6,560	9,380	13,500	17,100	20,900
4481	NA	NA	NA	NA	NA	NA	NA
4487	20.3	2,940	5,630	7,850	11,100	13,800	16,700
4488	19.6	2,900	5,570	7,770	11,000	13,600	16,600
4572	15.5	2,420	4,710	6,610	9,430	11,700	14,300
4583	16.3	2,530	4,910	6,880	9,810	12,200	14,900
4585	37.1	4,310	8,030	11,100	15,700	19,500	23,500
4672	53.6	4,810	9,160	12,900	18,400	23,200	28,500
4673	12.3	2,080	4,020	5,630	8,000	9,920	12,100
4691	23.6	3,270	6,360	8,930	12,800	15,900	19,500
4692	63.6	5,310	10,200	14,300	20,700	26,100	32,200
4696	36.2	3,670	6,910	9,610	13,500	16,700	20,100
4748	35.5	4,040	7,530	10,400	14,600	18,000	21,600
4749	65.2	6,330	11,200	15,200	20,800	25,400	30,300
4790	38.6	4,790	8,670	11,800	16,300	20,000	23,900
4791	102	8,370	14,600	19,600	26,800	32,600	38,800
4800	23.9	3,140	6,540	9,400	13,600	17,200	21,100
4807	90.0	6,430	12,500	17,900	26,300	33,800	42,300
4816	43.4	5,080	9,850	13,900	20,000	25,400	31,200
4836	18.0	2,550	4,960	6,970	9,960	12,400	15,200
4909	21.1	2,920	5,800	8,230	11,800	14,800	18,100



EXPLANATION

- ← 755 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06844900 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06845100 ▽ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 635 Lake and determination site identification number

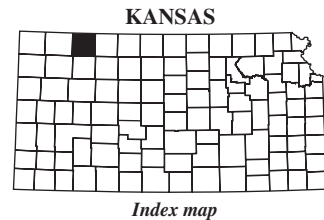


Figure 30. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Decatur County.

Table 26. 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 Decatur 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. 30)	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
		74	102500142	DC						Beaver Creek	1,680	0
100	102500114	DC	NT			Sappa Creek	1,300	0	1.62	5.40	18.2	55.2
102	102500142	DC				Beaver Creek	1,680	0	0	.02	5.65	23.0
143	102500114	DC				Sappa Creek	1,260	0	1.21	4.13	14.8	45.4
146	102500142	DC	RA			Beaver Creek	1,610	0	0	0	4.60	19.9
152	102500119	DC				Spring Branch	19.5	0	0	0	0	.01
188	102500115	DC	NT			Long Branch	60.6	0	0	.01	.03	.09
193	102500114	DC				Sappa Creek	1,200	0	.62	2.35	9.94	31.3
285	102500115	DC				Long Branch	39.2	0	0	0	.01	.04
289	102500115	DC				Long Branch	17.3	0	0	0	0	.01
297	1025001115	DC				Cotton Creek	24.9	0	0	0	0	.02
335	102500114	DC				Sappa Creek	1,140	0	.10	.70	5.40	18.0
409	1025001514	DC				Plum Creek	35.1	0	0	0	0	0
427	1025001514	DC	NT			Plum Creek	36.0	0	0	0	0	0
441	102500101	DC	RA			Middle Fork Sappa Creek	620	0	0	.34	2.74	9.40
443	102500159	DC				Big Timber Creek	83.6	0	0	0	0	.35
451	102500159	DC				Big Timber Creek	37.3	0	0	0	0	0
452	HYDRO	DC				HYDRO	38.6	NA	NA	NA	NA	NA
457	102500159	DC				Big Timber Creek	49.8	0	0	0	0	0
464	102500159	DC				Big Timber Creek	89.5	0	0	0	0	.64
472	102500158	DC	NT			Prairie Dog Creek	515	0	0	1.23	3.75	7.47
480	102500104	DC				South Fork Sappa Creek	461	0	0	0	1.01	4.05
570	1025001510	DC				Prairie Dog Creek	410	0	0	.44	1.87	4.17
571	1025001510	DC				Prairie Dog Creek	346	0	0	0	.63	1.90
580	1025001510	DC				Prairie Dog Creek	346	0	0	0	.63	1.90
590	1026001112	DC	NT			Elk Creek	41.9	0	0	0	0	0
631	1025001511	DC				North Fork Prairie Dog Creek	95.7	0	0	0	0	0
634	HYDRO	DC				HYDRO	58.7	NA	NA	NA	NA	NA
635	HYDRO	DC				HYDRO	58.0	NA	NA	NA	NA	NA
642	1025001511	DC				North Fork Prairie Dog Creek	58.6	0	0	0	0	0
675	102500104	DC	RA			South Fork Sappa Creek	413	0	0	0	.32	2.30
716	1025001512	DC	SD			Prairie Dog Creek	225	0	0	0	0	0
754	1025001511	DC	TH			North Fork Prairie Dog Creek	54.9	0	0	0	0	0
755	1025001512	DC	SD			Prairie Dog Creek	185	0	0	0	0	0
766	1026001113	DC	NT	SD		North Fork Solomon River	335	0	0	.26	1.61	4.92

Table 26. 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 Decatur 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. 30)	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
74	13.6	414	1,060	1,730	2,970	4,200	5,750
100	42.2	971	2,940	5,180	9,320	13,600	18,800
102	13.6	413	1,060	1,730	2,960	4,190	5,740
143	35.4	943	2,870	5,050	9,110	13,300	18,400
146	12.1	422	1,080	1,750	2,950	4,140	5,610
152	.03	429	1,310	2,230	3,790	5,220	6,940
188	2.22	294	693	1,070	1,680	2,230	2,870
193	25.6	890	2,730	4,840	8,760	12,800	17,800
285	.93	316	885	1,480	2,490	3,450	4,570
289	0	378	1,140	1,930	3,280	4,500	5,970
297	.38	496	1,520	2,590	4,420	6,100	8,110
335	16.3	827	2,570	4,570	8,320	12,200	17,000
409	0.59	377	1,150	1,980	3,420	4,800	6,410
427	0.63	365	1,120	1,940	3,350	4,710	6,300
441	11.0	877	2,730	4,820	8,610	12,400	17,000
443	2.64	457	1,420	2,480	4,350	6,160	8,330
451	.50	339	1,060	1,850	3,240	4,570	6,160
452	NA	NA	NA	NA	NA	NA	NA
457	1.08	365	1,150	2,010	3,530	5,000	6,750
464	2.88	455	1,410	2,480	4,350	6,170	8,340
472	7.40	609	1,790	3,080	5,370	7,600	10,300
480	4.92	412	1,400	2,610	4,950	7,450	10,700
570	5.57	573	1,770	3,110	5,520	7,890	10,800
571	4.10	540	1,720	3,050	5,460	7,860	10,800
580	4.10	539	1,710	3,050	5,460	7,850	10,800
590	.79	356	1,110	1,950	3,410	4,820	6,490
631	1.39	392	1,270	2,270	4,070	5,840	7,970
634	NA	NA	NA	NA	NA	NA	NA
635	NA	NA	NA	NA	NA	NA	NA
642	.10	268	910	1,660	3,020	4,370	6,010
675	3.42	342	1,210	2,290	4,430	6,730	9,730
716	2.25	433	1,440	2,620	4,760	6,910	9,560
754	.01	257	877	1,600	2,910	4,220	5,810
755	1.28	385	1,310	2,390	4,380	6,370	8,830
766	6.32	718	2,310	4,120	7,390	10,600	14,600

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Table 27. 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 Dickinson 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. 31)	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
		2017	102600083	DK						Chapman Creek	313	7.70
2019	102600082	DK				Smoky Hill River	19,600	214	414	807	1,430	3,510
2027	102600082	DK	GE			Smoky Hill River	20,000	193	305	608	1,500	3,990
2047	102600086	DK				Smoky Hill River	19,600	190	299	596	1,470	3,940
2049	1026000841	DK				Lone Tree Creek	32.6	0	.88	3.39	8.83	21.9
2061	102600086	DK				Smoky Hill River	19,600	190	300	597	1,470	3,940
2127	102600088	DK				Mud Creek	130	.77	4.12	11.6	28.4	68.2
2130	102600086	DK				Smoky Hill River	19,200	184	290	578	1,430	3,830
2141	102600086	DK				Smoky Hill River	19,600	190	299	595	1,470	3,930
2142	102600086	DK				Smoky Hill River	19,400	186	294	584	1,440	3,870
2144	1026000810	DK	SA			Smoky Hill River	19,100	182	288	573	1,410	3,810
2146	102600089	DK				Smoky Hill River	19,100	182	288	573	1,410	3,810
2148	102600089	DK				Smoky Hill River	19,200	184	290	578	1,430	3,830
2163	1026000825	DK				Holland Creek	103	0	2.12	8.24	23.8	63.6
2175	1026000834	DK				Lyon Creek	171	.92	6.91	16.2	38.6	94.2
2177	1026000831	DK	GE			Lyon Creek	253	2.52	13.4	27.2	56.6	124
2240	10260008638	DK	GE	MR		Unnamed tributary, Dickinson 1	13.8	.01	.03	.86	2.77	8.22
2301	1026000828	DK				Turkey Creek	181	0	2.90	12.4	39.7	116
2319	1026000835	DK				Carry Creek	80.9	.21	2.06	6.82	18.9	49.4
2340	1026000834	DK				West Branch Lyon Creek	152	.73	5.62	13.8	34.0	85.0
2341	1026000831	DK	GE			Lyon Creek	171	.92	6.91	16.2	38.6	94.2
2378	1026000835	DK				Carry Creek	38.2	.05	.39	2.86	8.82	24.5
2381	1026000829	DK				West Branch Turkey Creek	40.3	0	.23	2.67	8.55	24.2
2395	1026000825	DK				Holland Creek	101	0	2.07	8.06	23.3	62.1
2416	1026000831	DK				Lyon Creek	109	.37	3.19	9.01	24.0	63.1
2421	10260008540	DK				Lyon Creek	67.0	.14	1.34	5.14	15.1	41.1
2422	10260008542	DK				Unnamed tributary, Dickinson 5	3.92	0	0	0	0	.84
2423	HYDRO	DK				HYDRO	3.87	NA	NA	NA	NA	NA
2425	10260008542	DK				Unnamed tributary, Dickinson 5	3.72	0	0	0	0	.65
2445	1026000851	DK				Lime Creek	34.8	.04	.28	2.39	7.54	21.6
2446	1026000832	DK				Unnamed tributary, Dickinson 2	10.6	0	.02	.47	1.72	5.68
2449	10260008618	DK				Unnamed tributary, Dickinson 4	3.67	0	0	0	0	.93
2476	1026000849	DK	SA			McAllister Creek	18.4	0	0	1.07	3.43	9.89
2477	1026000834	DK				West Branch Lyon Creek	42.5	.06	.64	3.55	10.7	29.3
2478	10260008515	DK				Unnamed tributary, Dickinson 3	3.63	0	0	0	0	.98
2482	1026000830	DK				Turkey Creek	114	0	1.48	7.38	24.4	71.5
2488	1026000835	DK				Carry Creek	9.64	0	.01	.48	1.73	5.64
2499	1026000830	DK				Turkey Creek	86.7	0	1.01	5.66	18.7	54.6

Table 27. 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 Dickinson 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. 31)	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
2017	93.3	3,630	7,130	10,300	15,300	20,000	25,400
2019	1,410	13,600	32,400	51,800	85,100	118,000	158,000
2027	1,590	12,500	26,100	35,700	51,400	68,700	86,200
2047	1,570	12,400	26,000	35,600	51,000	68,100	85,400
2049	16.0	2,560	5,310	7,690	11,200	14,200	17,400
2061	1,570	12,400	26,000	35,600	51,000	68,200	85,400
2127	45.4	2,570	4,670	6,330	8,710	10,700	12,800
2130	1,530	12,100	25,300	34,700	49,700	66,500	83,400
2141	1,570	12,400	26,000	35,600	51,000	68,100	85,300
2142	1,540	12,200	25,600	35,000	50,200	67,100	84,100
2144	1,510	12,000	25,100	34,400	49,400	66,000	82,900
2146	1,510	12,000	25,100	34,400	49,400	66,000	82,900
2148	1,530	12,100	25,300	34,700	49,700	66,500	83,400
2163	44.0	2,870	6,460	9,780	14,900	19,500	24,600
2175	73.4	4,880	12,000	19,100	31,000	42,300	55,600
2177	98.1	6,220	16,500	27,100	45,700	63,700	85,500
2240	7.27	1,180	2,670	3,990	6,050	7,780	9,780
2301	79.4	2,960	6,550	9,870	15,300	20,200	25,900
2319	37.9	3,260	7,520	11,500	18,000	23,800	30,500
2340	66.4	4,850	11,500	18,100	28,900	39,100	51,000
2341	73.4	4,880	12,000	19,100	31,000	42,300	55,600
2378	19.4	2,320	5,300	8,050	12,400	16,200	20,400
2381	18.7	1,900	4,420	6,780	10,500	13,800	17,500
2395	43.0	2,920	6,540	9,870	15,000	19,600	24,700
2416	49.8	3,930	9,130	14,100	22,200	29,600	38,200
2421	32.6	3,120	7,090	10,800	16,700	21,900	27,900
2422	1.79	614	1,330	1,940	2,870	3,640	4,520
2423	NA	NA	NA	NA	NA	NA	NA
2425	1.65	596	1,280	1,880	2,780	3,520	4,370
2445	18.1	2,660	5,770	8,560	12,800	16,500	20,600
2446	5.41	984	2,230	3,340	5,050	6,490	8,160
2449	1.79	605	1,300	1,890	2,790	3,540	4,380
2476	8.30	1,180	2,790	4,260	6,550	8,510	10,800
2477	22.6	2,460	5,570	8,440	12,900	16,900	21,300
2478	1.74	557	1,220	1,790	2,660	3,380	4,200
2482	51.5	2,370	5,030	7,420	11,200	14,600	18,400
2488	5.27	961	2,160	3,210	4,840	6,210	7,780
2499	40.1	2,570	5,150	7,340	10,700	13,500	16,700

Table 27. 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 Dickinson County.—Continued

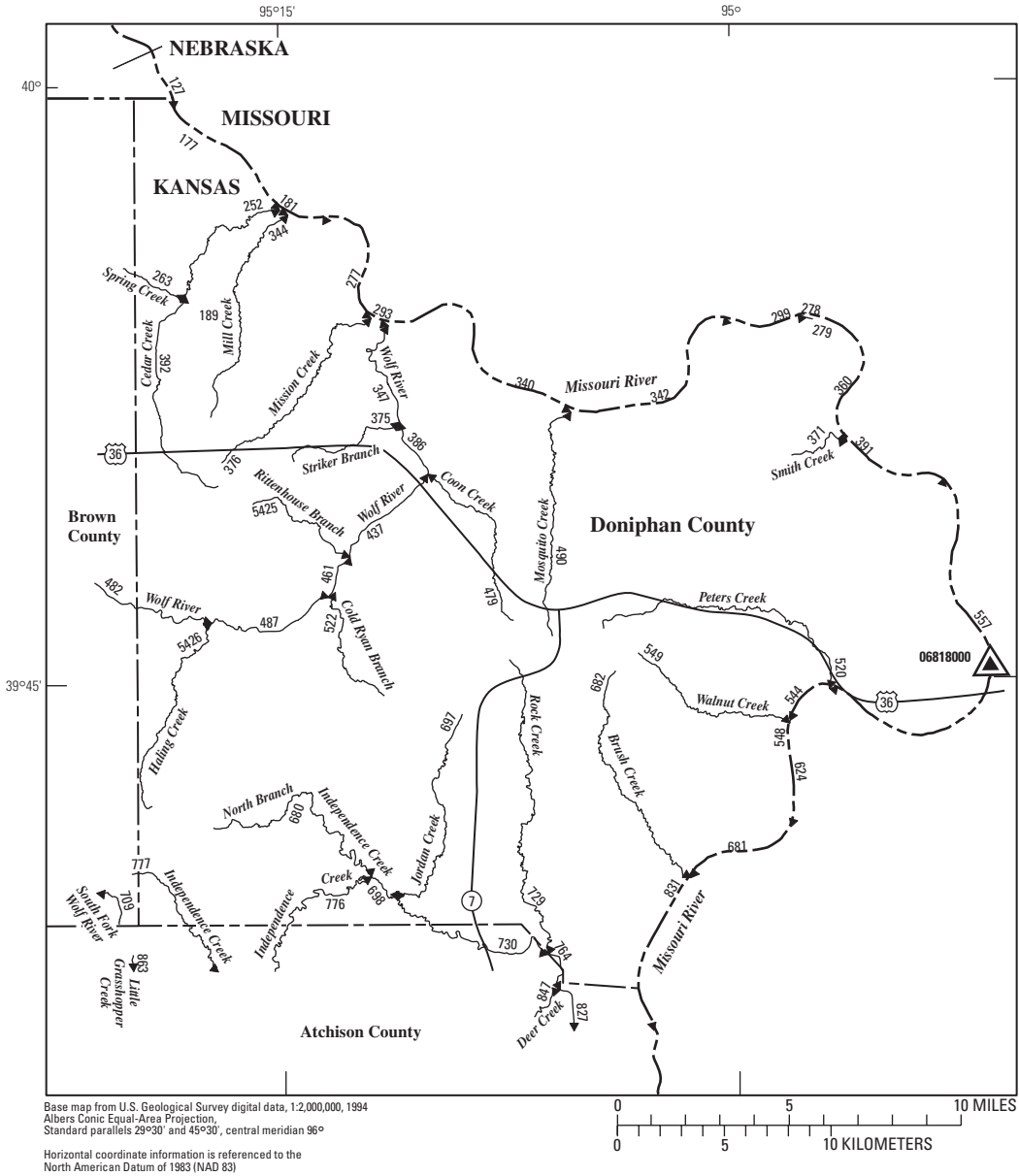
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 31)	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
		2506	1026000829	DK						West Branch Turkey Creek	27.2	0
2557	10260008540	DK				Lyon Creek	62.6	.12	1.18	4.77	14.1	38.6
2603	1026000834	DK				West Branch Lyon Creek	19.8	.01	.06	1.37	4.55	13.2
2608	HYDRO	DK				HYDRO	49.1	NA	NA	NA	NA	NA
2617	1026000851	DK	MR			Lime Creek	29.4	.03	.12	1.88	6.10	17.8
2624	1026000829	DK				West Branch Turkey Creek	14.1	0	0	1.08	3.18	8.78
2625	HYDRO	DK				HYDRO	2.09	NA	NA	NA	NA	NA
2650	1026000850	DK				East Turkey Creek	39.2	0	.04	2.34	8.14	24.2
2662	HYDRO	DK				HYDRO	25.4	NA	NA	NA	NA	NA
2663	1026000830	DK				Turkey Creek	46.2	0	.39	3.26	10.5	29.5
2669	1026000848	DK	MN	SA		Hobbs Creek	30.3	0	.43	2.58	7.09	18.2
2678	1026000830	DK	MN			Turkey Creek	13.2	0	0	1.13	3.20	8.64
2683	1026000827	DK	MN			East Holland Creek	20.5	0	.23	2.00	5.50	14.1
2687	1026000826	DK	MN			West Holland Creek	32.3	0	.49	2.89	8.14	21.0
2694	1026000858	DK	MN			Middle Branch Turkey Creek	15.4	0	0	.86	3.02	9.15
2749	1026000850	DK	MN			East Turkey Creek	23.7	0	0	1.24	4.61	14.3
2770	10260008540	DK	MN			Lyon Creek	43.3	.06	.38	2.85	9.00	25.7

Table 27. 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 Dickinson 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. 31)	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
2506	13.0	1,570	3,680	5,590	8,590	11,100	14,100
2557	30.6	3,050	6,920	10,500	16,200	21,300	27,100
2603	11.0	1,490	3,400	5,100	7,740	9,970	12,600
2608	NA	NA	NA	NA	NA	NA	NA
2617	15.3	2,010	4,540	6,810	10,400	13,400	16,800
2624	7.21	1,080	2,500	3,770	5,740	7,410	9,340
2625	NA	NA	NA	NA	NA	NA	NA
2650	19.3	2,350	5,300	8,010	12,200	15,900	20,000
2662	NA	NA	NA	NA	NA	NA	NA
2663	22.3	1,200	2,220	3,000	4,080	4,940	5,850
2669	13.7	1,730	3,940	5,970	9,090	11,800	14,800
2678	7.00	969	2,190	3,270	4,930	6,320	7,920
2683	10.7	1,340	3,130	4,740	7,270	9,410	11,900
2687	15.5	1,900	4,280	6,460	9,800	12,700	15,900
2694	7.84	1,050	2,360	3,520	5,300	6,780	8,500
2749	12.1	1,570	3,600	5,420	8,240	10,600	13,400
2770	21.2	3,120	6,800	10,100	15,300	19,800	24,700



EXPLANATION

- ← 863 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06818000 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06818000 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 776 Lake and determination site identification number

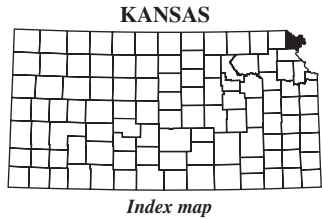


Figure 32. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Doniphan County.

Table 28. 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 Doniphan 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. 32)	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
		127	1024000519	DP						Missouri River	418,000	22,800
177	1024000521	DP				Missouri River	418,000	22,800	34,000	42,000	55,700	72,000
181	102400052	DP				Missouri River	418,000	22,800	34,000	42,100	55,800	72,000
189	102400052	DP				Missouri River	418,000	22,800	34,000	42,100	55,800	72,100
252	1024000551	DP				Cedar Creek	34.8	.13	2.35	7.45	18.8	43.7
277	102400052	DP				Missouri River	418,000	22,900	34,100	42,200	56,000	72,300
278	1024001119	DP				Missouri River	420,000	23,600	34,500	43,200	57,500	74,900
279	1024001119	DP				Missouri River	420,000	23,600	34,500	43,200	57,500	74,900
293	102400052	DP				Missouri River	418,000	22,900	34,100	42,200	56,000	72,400
299	1024001119	DP				Missouri River	419,000	23,000	34,100	42,400	56,200	72,800
340	102400051	DP				Missouri River	418,000	23,000	34,100	42,300	56,200	72,700
342	102400051	DP				Missouri River	418,000	23,000	34,100	42,400	56,200	72,800
344	1024000552	DP				Mill Creek	13.0	.04	1.54	4.12	9.20	19.5
347	1024000553	DP				Wolf River	263	2.10	9.37	37.6	112	308
360	1024001119	DP				Missouri River	420,000	23,600	34,500	43,300	57,500	74,900
371	1024001128	DP				Smith Creek	11.7	.06	1.98	5.20	11.2	22.5
375	1024000572	DP				Striker Branch	6.59	.25	1.15	2.48	4.93	9.97
376	10240005339	DP				Mission Creek	11.6	.05	1.49	3.90	8.60	18.0
386	1024000553	DP				Wolf River	251	1.92	8.81	35.4	106	291
391	1024001119	DP				Missouri River	420,000	23,600	34,500	43,300	57,600	74,900
392	1024000551	DP				Cedar Creek	18.4	0	1.44	4.27	10.3	23.1
437	1024000553	DP				Wolf River	233	1.64	7.89	31.7	95.7	264
461	1024000553	DP				Wolf River	218	1.42	7.22	29.1	88.5	245
479	1024000571	DP				Coon Creek	15.0	.02	1.71	4.88	11.3	24.3
487	1024000553	DP				Wolf River	200	1.17	6.49	26.4	80.6	223
490	1024000573	DP				Mosquito Creek	17.3	.07	2.44	7.09	16.2	33.7
520	1024001127	DP				Peters Creek	32.2	.10	2.89	9.37	23.2	51.6
522	1024000570	DP				Cold Ryan Branch	15.1	0	1.13	3.52	8.59	19.6
544	1024001115	DP				Missouri River	420,000	23,600	34,500	43,300	57,600	75,000
548	1024001113	DP				Missouri River	420,000	23,600	34,500	43,300	57,600	75,000
549	1024001125	DP				Walnut Creek	13.3	0	1.64	4.83	11.2	23.7
557	1024001115	DP				Missouri River	420,000	23,600	34,500	43,300	57,600	75,000
624	1024001113	DP				Missouri River	420,000	23,600	34,500	43,300	57,600	75,000
680	1024001129	DP				North Branch Independence Creek	21.7	0	1.61	5.45	13.9	31.9
681	1024001113	DP				Missouri River	420,000	23,600	34,500	43,300	57,600	75,000
682	1024001126	DP				Brush Creek	18.9	0	1.90	6.03	14.7	32.2
697	1024001130	DP				Jordan Creek	17.2	0	1.43	4.64	11.5	25.9
698	1024001122	DP				Independence Creek	55.1	0	2.86	10.9	30.7	75.8

Table 28. 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 Doniphan 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. 32)	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
127	46,400	103,000	139,000	166,000	191,000	226,000	255,000
177	46,400	103,000	139,000	166,000	191,000	226,000	255,000
181	46,500	103,000	140,000	166,000	192,000	227,000	256,000
189	46,500	103,000	140,000	166,000	192,000	227,000	256,000
252	27.4	2,900	5,680	8,010	11,400	14,200	17,200
277	46,600	103,000	140,000	167,000	192,000	227,000	256,000
278	48,000	109,000	147,000	174,000	199,000	233,000	261,000
279	48,000	109,000	147,000	174,000	199,000	233,000	261,000
293	46,600	103,000	140,000	167,000	192,000	227,000	256,000
299	46,900	104,000	141,000	168,000	193,000	228,000	257,000
340	46,800	104,000	141,000	168,000	193,000	228,000	257,000
342	46,900	104,000	141,000	168,000	193,000	228,000	257,000
344	11.9	1,390	2,980	4,360	6,460	8,200	10,200
347	179	7,780	14,800	20,900	29,700	37,300	45,500
360	48,100	109,000	147,000	174,000	199,000	233,000	261,000
371	12.5	1,310	2,800	4,090	6,040	7,670	9,520
375	6.30	959	2,020	2,920	4,290	5,420	6,700
376	11.0	1,310	2,810	4,100	6,050	7,670	9,530
386	171	7,860	14,900	21,000	29,800	37,300	45,500
391	48,100	109,000	147,000	174,000	199,000	233,000	261,000
392	15.1	1,720	3,710	5,440	8,070	10,300	12,800
437	157	7,660	14,600	20,500	29,200	36,500	44,500
461	147	7,520	14,300	20,100	28,700	35,900	43,700
479	14.6	1,570	3,360	4,890	7,230	9,160	11,400
487	136	7,230	13,800	19,500	27,800	34,800	42,400
490	18.7	1,700	3,630	5,310	7,860	9,980	12,400
520	29.7	3,800	7,010	9,620	13,300	16,300	19,400
522	13.0	1,590	3,380	4,920	7,270	9,220	11,400
544	48,100	109,000	147,000	174,000	199,000	233,000	261,000
548	48,100	109,000	147,000	174,000	199,000	233,000	261,000
549	13.8	1,450	3,090	4,500	6,660	8,440	10,500
557	48,100	109,000	147,000	174,000	199,000	233,000	261,000
624	48,100	109,000	147,000	174,000	199,000	233,000	261,000
680	19.8	1,950	4,190	6,130	9,090	11,600	14,400
681	48,100	109,000	147,000	174,000	199,000	233,000	261,000
682	18.9	1,800	3,860	5,650	8,360	10,600	13,200
697	16.1	1,720	3,670	5,350	7,910	10,000	12,500
698	46.2	4,210	8,060	11,300	16,000	19,800	24,000

Table 28. 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 Doniphan County.—Continued

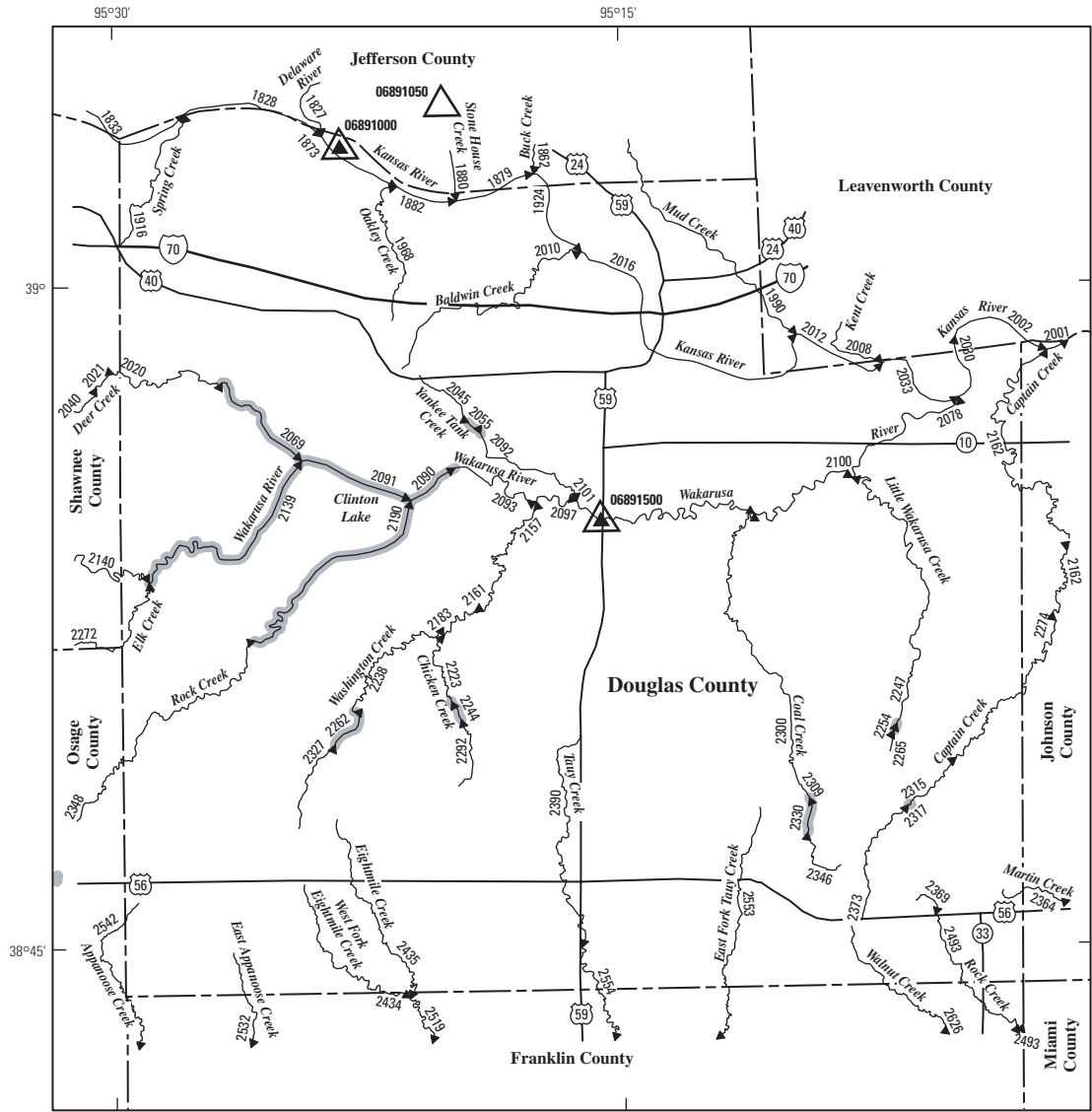
[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi², square miles; ft³/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

Determination site identification number (fig. 32)	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
		729	1024001121	DP						Rock Creek	23.1	0
5425	1024000569	DP				Rittenhouse Branch	8.66	.05	1.03	2.64	5.71	12.2
5426	1024000568	DP				Haling Creek	21.1	0	1.01	3.99	10.8	26.2

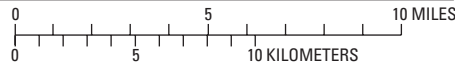
Table 28. Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Doniphan County.—Continued

[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. 32)	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
729	22.6	2,040	4,380	6,410	9,510	12,100	15,000
5425	7.92	1,130	2,390	3,470	5,100	6,450	7,990
5426	17.5	1,900	4,100	6,000	8,900	11,300	14,100



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

- ← 2532 **Location of streamflow-statistics determination site (small triangle) and associated identification number**—small triangle points in downstream direction
- 06891050 ▲ **U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration**
- 06891500 △ **U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values**
- 2330 **Lake and determination site identification number**

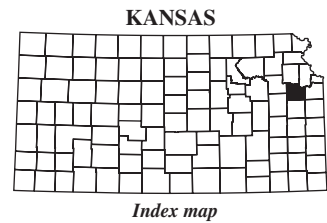


Figure 33. Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Douglas County.

Table 29. 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 Douglas 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. 33)	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
		1827	102701031	DG	JF					Delaware River	1,170	23.4
1828	102701021	DG	JF			Kansas River	55,900	1,030	1,720	3,200	7,480	16,800
1833	102701021	DG	JF	SN		Kansas River	55,900	1,020	1,710	3,190	7,450	16,800
1873	1027010423	DG				Kansas River	57,100	1,140	1,900	3,580	8,350	19,000
1879	1027010423	DG	JF			Kansas River	57,100	1,140	1,910	3,590	8,390	19,100
1880	1027010457	DG	JF			Stone House Creek	19.9	0	1.09	4.70	13.4	32.8
1882	1027010423	DG				Kansas River	57,100	1,140	1,900	3,590	8,370	19,000
1916	10270102105	DG	JF	SN		Spring Creek	17.1	0	.74	3.88	11.3	27.8
1924	1027010421	DG	JF			Kansas River	57,100	1,150	1,910	3,600	8,410	19,100
1968	1027010456	DG				Oakley Creek	13.8	0	.54	3.26	9.71	24.2
1990	1027010420	DG	JF	LV		Mud Creek	48.8	0	1.99	9.09	28.4	74.4
2010	1027010469	DG				Baldwin Creek	16.4	0	.50	3.15	9.61	24.7
2012	1027010419	DG	LV			Kansas River	57,200	1,150	1,920	3,630	8,500	19,300
2016	1027010421	DG	LV			Kansas River	57,200	1,150	1,920	3,610	8,450	19,200
2020	10270104701	DG	SN			Deer Creek	26.0	0	.49	3.35	10.7	29.0
2030	1027010419	DG	LV			Kansas River	57,800	1,200	2,010	3,800	9,020	20,400
2033	1027010419	DG	LV			Kansas River	57,200	1,150	1,930	3,630	8,510	19,300
2045	1027010470	DG				Yankee Tank Creek	5.04	0	.09	1.06	2.80	7.09
2055	HYDRO	DG				HYDRO	6.52	NA	NA	NA	NA	NA
2069	HYDRO	DG				HYDRO	38.5	NA	NA	NA	NA	NA
2078	1027010424	DG				Wakarusa River	522	7.17	16.6	34.0	272	919
2090	HYDRO	DG				HYDRO	365	NA	NA	NA	NA	NA
2091	HYDRO	DG				HYDRO	321	NA	NA	NA	NA	NA
2092	1027010470	DG				Yankee Tank Creek	14.1	0	.32	2.40	7.28	19.0
2093	1027010425	DG				Wakarusa River	367	4.58	11.4	23.7	213	730
2097	1027010424	DG				Wakarusa River	418	5.21	13.0	27.0	242	832
2100	1027010424	DG				Wakarusa River	489	6.46	15.4	31.7	266	908
2101	1027010424	DG				Wakarusa River	449	5.60	14.0	29.0	260	893
2139	HYDRO	DG				HYDRO	276	NA	NA	NA	NA	NA
2140	1027010430	DG	SN			Wakarusa River	240	.54	4.46	19.9	68.1	209
2157	1027010436	DG				Washington Creek	50.0	0	1.61	7.27	22.6	60.4
2161	1027010436	DG				Washington Creek	40.4	0	1.17	5.66	17.7	47.3
2162	1027010472	DG	JO	LV		Captain Creek	44.0	0	.76	4.76	16.5	47.4
2183	1027010436	DG				Washington Creek	39.5	0	1.13	5.52	17.2	46.2
2190	HYDRO	DG				HYDRO	41.6	NA	NA	NA	NA	NA
2223	1027010479	DG				Chicken Creek	15.3	0	.43	2.63	7.69	19.7
2238	1027010436	DG				Washington Creek	21.5	0	.48	3.02	9.28	24.6
2244	HYDRO	DG				HYDRO	12.1	NA	NA	NA	NA	NA

Table 29. 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 Douglas 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. 33)	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
1827	155	915	1,640	2,240	2,830	3,900	4,740
1828	6,770	39,200	71,200	98,600	128,000	179,000	222,000
1833	6,750	39,100	71,000	98,300	128,000	178,000	221,000
1873	7,550	44,600	80,000	109,000	138,000	190,000	231,000
1879	7,570	44,800	80,300	109,000	138,000	190,000	231,000
1880	21.0	1,720	3,720	5,470	8,160	10,500	13,100
1882	7,560	44,700	80,100	109,000	138,000	190,000	231,000
1916	17.7	1,820	3,830	5,550	8,160	10,300	12,800
1924	7,590	44,900	80,400	109,000	138,000	190,000	231,000
1968	15.6	1,760	3,600	5,160	7,510	9,430	11,600
1990	46.9	5,290	9,680	13,300	18,400	22,600	27,000
2010	16.8	1,950	4,000	5,740	8,360	10,500	13,000
2012	7,650	45,300	81,100	110,000	139,000	191,000	232,000
2016	7,620	45,000	80,700	110,000	139,000	191,000	232,000
2020	20.8	2,260	4,830	7,050	10,400	13,200	16,500
2030	8,030	47,500	84,800	114,000	143,000	195,000	236,000
2033	7,660	45,300	81,200	110,000	139,000	191,000	232,000
2045	5.22	963	1,940	2,750	3,970	4,960	6,080
2055	NA	NA	NA	NA	NA	NA	NA
2069	NA	NA	NA	NA	NA	NA	NA
2078	275	3,640	5,700	6,680	8,380	10,400	12,200
2090	NA	NA	NA	NA	NA	NA	NA
2091	NA	NA	NA	NA	NA	NA	NA
2092	13.5	1,750	3,600	5,170	7,530	9,480	11,700
2093	216	2,930	4,570	5,350	6,700	8,320	9,730
2097	246	3,330	5,200	6,090	7,630	9,480	11,100
2100	270	3,610	5,650	6,620	8,300	10,300	12,100
2101	265	3,580	5,590	6,540	8,200	10,200	11,900
2139	NA	NA	NA	NA	NA	NA	NA
2140	139	8,860	17,200	24,400	35,000	44,200	54,200
2157	40.4	4,360	8,380	11,700	16,600	20,700	25,100
2161	32.4	4,660	8,730	12,100	16,900	20,900	25,100
2162	34.7	3,900	7,670	10,900	15,600	19,500	23,800
2183	31.7	4,600	8,640	12,000	16,700	20,700	24,800
2190	NA	NA	NA	NA	NA	NA	NA
2223	13.8	1,700	3,570	5,180	7,600	9,600	11,900
2238	17.7	2,050	4,350	6,330	9,340	11,800	14,700
2244	NA	NA	NA	NA	NA	NA	NA

Table 29. 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 Douglas 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. 33)	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
		2247	1027010471	DG						Little Wakarusa Creek	26.1	0
2254	HYDRO	DG				HYDRO	3.48	NA	NA	NA	NA	NA
2262	HYDRO	DG				HYDRO	13.7	NA	NA	NA	NA	NA
2265	1027010471	DG				Little Wakarusa Creek	3.00	.21	.32	.85	1.70	3.98
2272	1027010468	DG	OS	SN		Elk Creek	21.5	0	.01	2.02	7.00	20.3
2274	1027010472	DG	JO			Captain Creek	24.5	0	.46	3.12	10.1	27.7
2292	1027010479	DG				Chicken Creek	10.2	0	.09	1.45	4.25	11.3
2300	1027010480	DG				Coal Creek	32.6	0	1.31	5.76	17.2	44.3
2309	1027010480	DG				Coal Creek	5.43	0	.41	1.59	3.84	8.86
2315	1027010472	DG				Captain Creek	10.7	0	.34	1.98	5.57	14.1
2317	HYDRO	DG				HYDRO	6.29	NA	NA	NA	NA	NA
2327	1027010436	DG				Washington Creek	10.2	0	0	1.22	3.80	10.5
2330	HYDRO	DG				HYDRO	4.91	NA	NA	NA	NA	NA
2346	1027010480	DG				Coal Creek	3.40	.08	.30	.94	1.99	4.69
2348	1027010435	DG	OS			Rock Creek	28.4	0	.54	3.45	10.9	29.8
2364	1029010299	DG	JO			Martin Creek	16.0	0	0	1.56	5.59	16.4
2369	1029010227	DG				Rock Creek	3.42	0	0	.39	.92	2.87
2373	1027010472	DG				Captain Creek	6.12	0	.16	1.15	3.01	7.63
2390	1029010111	DG				Tauy Creek	32.9	0	.98	4.74	14.6	38.7
2434	1029010188	DG	FR			West Fork Eightmile Creek	10.7	0	0	.98	3.60	10.8
2435	1029010113	DG	FR			Eightmile Creek	15.8	0	.21	2.03	6.23	16.8
2493	1029010227	DG	FR	MI		Rock Creek	21.4	0	.01	2.16	7.89	23.2
2532	1029010189	DG	FR			East Appanoose Creek	14.8	0	0	1.74	5.94	16.8
2542	1029010116	DG	FR	OS		Appanoose Creek	41.3	0	.44	3.82	13.4	39.0
2553	1029010185	DG	FR			East Fork Tauy Creek	37.1	0	.76	4.43	14.6	40.9
2554	1029010111	DG	FR			Tauy Creek	48.2	0	1.44	6.49	20.3	55.0
2626	1029010190	DG	FR			Walnut Creek	39.0	0	.21	3.19	12.1	37.2

Table 29. 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 Douglas 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. 33)	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
2247	21.5	2,500	5,210	7,530	11,000	13,900	17,300
2254	NA	NA	NA	NA	NA	NA	NA
2262	NA	NA	NA	NA	NA	NA	NA
2265	3.02	710	1,420	2,000	2,860	3,570	4,360
2272	15.8	1,960	4,210	6,150	9,110	11,600	14,400
2274	20.5	2,430	5,050	7,290	10,700	13,500	16,600
2292	8.60	1,340	2,790	4,030	5,890	7,430	9,180
2300	29.4	3,640	6,930	9,660	13,600	16,800	20,300
2309	5.98	996	2,010	2,860	4,130	5,170	6,340
2315	10.2	1,500	3,060	4,380	6,360	7,990	9,830
2317	NA	NA	NA	NA	NA	NA	NA
2327	8.31	1,330	2,770	4,000	5,860	7,390	9,140
2330	NA	NA	NA	NA	NA	NA	NA
2346	3.47	760	1,520	2,150	3,090	3,850	4,710
2348	21.6	2,340	5,020	7,360	10,900	13,900	17,300
2364	13.2	1,940	3,970	5,690	8,280	10,400	12,800
2369	2.82	779	1,550	2,190	3,140	3,910	4,780
2373	5.81	1,070	2,170	3,100	4,470	5,590	6,860
2390	27.0	3,620	6,960	9,760	13,800	17,200	20,700
2434	8.74	1,370	2,860	4,130	6,050	7,630	9,420
2435	12.7	1,730	3,630	5,260	7,730	9,780	12,100
2493	18.0	2,290	4,730	6,800	9,920	12,500	15,400
2532	12.6	1,630	3,440	5,000	7,350	9,300	11,500
2542	28.9	3,380	7,000	10,200	14,900	19,000	23,400
2553	29.6	3,580	7,020	9,950	14,200	17,800	21,600
2554	38.0	3,090	6,280	9,060	13,200	16,700	20,500
2626	29.2	3,580	7,220	10,400	15,000	19,000	23,300

