

Table 2. Results of trend analyses of annual peak flows in Kansas, Oklahoma, and Nebraska, 1958–97

[Shading indicates statistically significant at the 95-percent level (probability value less than or equal to 0.05). mi², square miles; <, less than].

Map index number (fig. 1)	Station number	Station name	Total drainage area (mi ²)	Kendall's tau	Probability value	Increasing (+) or decreasing (-) trend
Kansas						
1	06814000	Turkey Creek near Seneca, KS	276	0.15	0.180	+
4	06845100	Long Branch Draw near Norcatur, KS	31.7	-.22	.049	-
5	06846500	Beaver Creek at Cedar Bluffs, KS	1,618	-.33	.003	-
6	06847600	Prairie Dog Creek tributary at Colby, KS	7.5	.19	.080	+
7	06853800	White Rock Creek near Burr Oak, KS	2.3	-.02	.860	-
8	06860000	Smoky Hill River at Elkader, KS	3,555	-.15	.180	-
9	06861000	Smoky Hill River near Arnold, KS	5,220	-.41	.002	-
10	06863400	Big Creek tributary near Ogallah, KS	4.8	-.03	.790	-
11	06863500	Big Creek near Hays, KS	594	-.31	.005	-
12	06863700	Big Creek tributary near Hays, KS	6.2	-.22	.050	-
13	06864300	Smoky Hill River tributary at Dorrance, KS	5.4	.16	.150	+
14	06867000	Saline River near Russell, KS	1,502	-.23	.042	-
15	06868300	Coon Creek tributary near Luray, KS	6.5	.00	1.000	+
16	06871000	North Fork Solomon River at Glade, KS	849	-.22	.046	-
17	06871500	Bow Creek near Stockton, KS	341	-.16	.150	-
18	06873000	South Fork Solomon River above Webster Reservoir, KS	1,040	-.21	.055	-
19	06873300	Ash Creek tributary near Stockton, KS	.89	-.01	.970	-
22	06878000	Chapman Creek near Chapman, KS	300	-.10	.360	-
24	06884300	Mill Creek tributary near Washington, KS	3.2	.29	.010	+
25	06884400	Little Blue River near Barnes, KS	3,324	.13	.240	+
26	06885500	Black Vermillion River near Frankfort, KS	410	-.10	.360	-
27	06887200	Cedar Creek near Manhattan, KS	13.4	-.03	.810	-
28	06888500	Mill Creek near Paxico, KS	316	.20	.069	+
30	06889500	Soldier Creek near Topeka, KS	290	.25	.024	+
32	06892000	Stranger Creek near Tonganoxie, KS	406	.02	.843	+
33	06911500	Salt Creek near Lyndon, KS	111	.13	.240	+
34	06914000	Pottawatomie Creek near Garnett, KS	334	-.01	.944	-
35	06917000	Little Osage River at Fulton, KS	295	.25	.023	+
36	06917400	Marmaton River tributary near Fort Scott, KS	2.8	.10	.351	+
37	07138600	White Woman Creek tributary near Selkirk, KS	38	-.16	.150	-
38	07139700	Arkansas River tributary near Dodge City, KS	8.7	-.21	.054	-
39	07141200	Pawnee River at Rozel, KS	2,148	-.22	.046	-
42	07143100	Little Cheyenne Creek tributary near Claflin, KS	1.5	-.27	.016	+
44	07144200	Little Arkansas River at Valley Center, KS	1,327	.01	.960	+
46	07145200	South Fork Ninnescah River near Murdock, KS	650	-.12	.290	-

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Kansas—Continued						
51	07157500	Crooked Creek near Englewood, KS	1,157	-0.48	<0.001	-
52	07166200	Sandy Creek near Yates Center, KS	6.8	-.02	.840	-
53	07167500	Otter Creek at Climax, KS	129	-.05	.641	-
54	07172000	Caney River near Elgin, KS	445	.01	.926	+
55	07180500	Cedar Creek near Cedar Point, KS	110	-.09	.400	-
Oklahoma						
58	07152000	Chikaskia River near Blackwell, OK	1,859	.02	.870	+
59	07154500	Cimarron River near Kenton, OK	1,106	-.19	.087	-
60	07158000	Cimarron River near Waynoka, OK	13,334	-.31	.005	-
61	07188000	Spring River near Quapaw, OK	2,510	.16	.140	+
62	07189000	Elk River near Tiff City, MO	872	.13	.240	+
63	07191000	Big Cabin Creek near Big Cabin, OK	450	.06	.620	+
64	07195500	Illinois River near Watts, OK	635	.06	.600	+
65	07196500	Illinois River near Tahlequah, OK	959	.11	.330	+
66	07197000	Baron Fork at Eldon, OK	307	.14	.230	+
67	07300500	Salt Fork Red River at Mangum, OK	1,566	-.20	.073	-
68	07311500	Deep Red Creek near Randlett, OK	617	.29	.012	+
69	07332500	Blue River near Blue, OK	476	.16	.160	+
Nebraska						
70	06463500	Long Pine Creek near Riverview, NE	458	-.06	.620	-
71	06465000	Niobrara River near Spencer, NE	11,070	-.26	.019	-
72	06601000	Omaha Creek at Homer, NE	174	-.15	.180	-
73	06775500	Middle Loup River at Dunning, NE	1,830	.00	1.000	-
74	06784000	South Loup River at St. Michael, NE	2,320	-.14	.220	-
75	06785000	Middle Loup River at St. Paul, NE	8,075	.07	.520	+
76	06786000	North Loup River at Taylor, NE	2,350	.12	.260	+
77	06790500	North Loup River near St. Paul, NE	4,302	.03	.790	+
78	06793000	Loup River near Genoa, NE	14,320	.04	.750	+
79	06794000	Beaver Creek at Genoa, NE	677	-.04	.740	-
80	06795500	Shell Creek near Columbus, NE	294	.08	.500	+
81	06797500	Elkhorn River at Ewing, NE	1,400	.13	.250	+
82	06799000	Elkhorn River at Norfolk, NE	2,790	.12	.270	+
83	06799500	Logan Creek near Uehling, NE	1,015	.06	.610	+
84	06800000	Maple Creek near Nickerson, NE	450	.16	.120	+
85	06800500	Elkhorn River at Waterloo, NE	6,900	.09	.440	+
86	06803000	Salt Creek at Roca, NE	167	-.03	.820	-
87	06803500	Salt Creek at Lincoln, NE	685	.04	.730	+

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88	06803555	Salt Creek at Greenwood, NE	1,050	.07	.520	+
89	06804000	Wahoo Creek at Ithaca, NE	273	-.08	.470	-
Nebraska—Continued						
90	06806500	Weeping Water Creek at Union, NE	241	0.10	0.360	+
91	06811500	Little Nemaha River at Auburn, NE	792	.01	.950	+
92	06814500	North Fork Big Nemaha River at Humboldt, NE	548	-.12	.270	-
93	06815000	Big Nemaha River at Falls City, NE	1,339	-.01	.940	-
94	06821500	Arikaree River at Haigler, NE	1,700	-.45	<.001	-
95	06823000	North Fork Republican River at Colorado-Nebraska State line	2,370	-.43	<.001	-
96	06823500	Buffalo Creek near Haigler, NE	172	-.42	<.001	-
97	06824000	Rock Creek at Parks, NE	24	-.11	.340	-
98	06828500	Republican River at Statton, NE	8,200	-.41	<.001	-
99	06836500	Driftwood Creek near McCook, NE	361	-.37	.001	-
100	06847500	Beaver Creek near Beaver City, NE	2,080	-.30	.007	-
101	06880800	West Fork Big Blue River near Dorchester, NE	1,192	.16	.140	+
102	06881000	Big Blue River near Crete, NE	2,710	.10	.370	+
103	06882000	Big Blue River at Barneston, NE	4,447	.28	.810	+
104	06883000	Little Blue River near Deweese, NE	979	-.20	.410	-
105	06884000	Little Blue River near Fairbury, NE	2,350	.01	.410	+
Summary of significant trends			Increasing trends	5 percent		
			Decreasing trends	20 percent		
			No trend	75 percent		