

**Table 5.** Results of Kendall's tau trend analysis for mean annual discharges at 29 stream-gaging stations in Kansas, 1958–97

[Shading indicates statistically significant at 95-percent confidence level (probability value less than or equal to 0.05). (ft<sup>3</sup>/s)/yr, cubic feet per second per year; \*, regulated stream-gaging station; <, less than]

Map index number (fig. 6)	Station number	Station name	Kendall's tau	Probability value	Slope [(ft <sup>3</sup> /s)/yr]
1	06814000	Turkey Creek near Seneca	0.02	0.885	0.187
5	06846500	Beaver Creek at Cedar Bluffs	-.37	.001	-.262
7	06853800	White Rock Creek near Burr Oak	.10	.370	.259
11	06863500	Big Creek near Hays	-.24	.033	-.447
14	06867000	Saline River near Russell	-.22	.050	-1.250
16	06871000	North Fork Solomon River at Glade	-.14	.204	-.300
17	06871500	Bow Creek near Stockton	-.06	.625	-.045
18	06873000	South Fork Solomon River above Webster Reservoir	-.26	.021	-.632
21	*06876900	Solomon River at Niles	.05	.666	1.800
22	06878000	Chapman Creek near Chapman	.01	.954	.039
25	06884400	Little Blue River near Barnes	.05	.681	1.870
26	06885500	Black Vermillion River near Frankfort	.04	.718	.410
28	06888500	Mill Creek near Paxico	.39	.735	.504
30	06889500	Soldier Creek near Topeka	.08	.463	1.010
31	*06891000	Kansas River at Lecompton	.04	.735	19.300
32	06892000	Stranger Creek near Tonganoxie	.06	.568	1.040
33	06911500	Salt Creek near Lyndon	.07	.560	.338
34	06914000	Pottawatomie Creek near Garnett	.02	.843	.306
35	06917000	Little Osage River at Fulton	.20	.071	.413
39	07141200	Pawnee River at Rozel	-.21	.053	-.768
39a	*07141300	Arkansas River at Great Bend	-.34	.002	-5.190
44	07144200	Little Arkansas River at Valley Center	-.02	.898	-.684
45	07144300	Arkansas River at Wichita	-.17	.121	-9.550
46	07145200	South Fork Ninnescah River near Murdock	.10	.426	1.100
51	07157500	Crooked Creek near Englewood	-.45	<.001	-.362
53	07167500	Otter Creek at Climax	.03	.807	.131
54	07172000	Caney River near Elgin	.13	.258	3.040
55	07180500	Cedar Creek near Cedar Point	.01	.935	.067
56	*07183500	Neosho River near Parsons	.07	.522	14.500