

**Table 4.** Results of Kendall's tau trend analysis for moving 30-year periods (except the last column, which is 28 years) for Kansas stream-gaging stations with more than 38 years of record

[Positive (+) indicates increasing trend, negative (-) indicates decreasing trend, zero (0) indicates no significant trend, and --- indicates record for this time period not available or incomplete]

Map index number (fig. 3)	Station number	Station name	Period of record	Years of record	1901-30	1906-35	1911-40	1916-45
1	06814000	Turkey Creek near Seneca	1949-98	50	---	---	---	---
2	06815700	Buttermilk Creek near Willis	1957-97	40	---	---	---	---
3	06844900	South Fork Sappa Creek near Achilles	1960-98	39	---	---	---	---
4	06845100	Long Branch Draw near Norcatgur	1957-98	42	---	---	---	---
5	06846500	Beaver Creek at Cedar Bluffs	1946-98	54	---	---	---	---
6	06847600	Prairie Dog Creek tributary at Colby	1957-97	41	---	---	---	---
7	06853800	White Rock Creek near Burr Oak	1958-98	41	---	---	---	---
8	06860000	Smoky Hill River at Elkader	1938-98	60	---	---	---	---
9	06861000	Smoky Hill River near Arnold	1938-98	52	---	---	---	---
10	06863400	Big Creek tributary near Ogallah	1957-98	42	---	---	---	---
11	06863500	Big Creek near Hays	1947-98	52	---	---	---	---
12	06863700	Big Creek tributary near Hays	1957-98	42	---	---	---	---
13	06864300	Smoky Hill River tributary at Dorrance	1957-98	42	---	---	---	---
14	06867000	Saline River near Russell	1946-98	52	---	---	---	---
15	06868300	Coon Creek tributary near Luray	1957-98	42	---	---	---	---
16	06871000	North Fork Solomon River at Glade	1953-98	46	---	---	---	---
17	06871500	Bow Creek near Stockton	1951-98	48	---	---	---	---
18	06873000	South Fork Solomon River above Webster Reservoir	1908-98	56	---	---	---	---
19	06873300	Ash Creek tributary near Stockton	1957-98	41	---	---	---	---
20	06876700	Salt Creek near Ada	1960-98	39	---	---	---	---
22	06878000	Chapman Creek near Chapman	1951-98	46	---	---	---	---
23	06884200	Mill Creek at Washington	1960-98	39	---	---	---	---
24	06884300	Mill Creek tributary near Washington	1957-98	42	---	---	---	---
25	06884400	Little Blue River near Barnes	1958-98	41	---	---	---	---
26	06885500	Black Vermillion River near Frankfort	1948-98	46	---	---	---	---
27	06887200	Cedar Creek near Manhattan	1957-98	42	---	---	---	---
28	06888500	Mill Creek near Paxico	1954-98	46	---	---	---	---
29	06889200	Soldier Creek near Delia	1959-98	40	---	---	---	---
30	06889500	Soldier Creek near Topeka	1929-98	70	---	---	---	---
32	06892000	Stranger Creek near Tonganoxie	1929-98	70	---	---	---	---
33	06911500	Salt Creek near Lyndon	1940-98	59	---	---	---	---
34	06914000	Pottawatomie Creek near Garnett	1929-98	60	---	---	---	---
35	06917000	Little Osage River at Fulton	1949-98	50	---	---	---	---
36	06917400	Marmaton River tributary near Fort Scott	1957-98	42	---	---	---	---
37	07138600	White Woman Creek tributary near Selkirk	1957-97	40	---	---	---	---

Table 3.  
record

Map index number (fig. 3)	1921-50	1926-55	1931-60	1936-65	1941-70	1946-75	1951-80	1956-85	1961-90	1966-95	1971-98	Full record
1	---	---	---	---	---	---	---	0	(+)	(+)	0	(+)
2	---	---	---	---	---	---	---	---	(-)	0	---	(-)
3	---	---	---	---	---	---	---	---	0	0	0	0
4	---	---	---	---	---	---	---	---	(-)	0	0	(-)
5	---	---	---	---	---	0	0	(-)	(-)	0	0	---
6	---	---	---	---	---	---	---	---	0	0	---	0
7	---	---	---	---	---	---	---	---	0	0	0	0
8	---	---	---	---	0	0	0	(-)	(-)	0	0	(-)
9	---	---	---	---	---	---	(-)	(-)	(-)	(-)	0	(-)
10	---	---	---	---	---	---	---	---	0	0	0	0
11	---	---	---	---	---	---	(-)	(-)	(-)	0	0	(-)
12	---	---	---	---	---	---	---	---	0	0	0	0
13	---	---	---	---	---	---	---	---	0	0	0	0
14	---	---	---	---	---	---	0	(-)	(-)	0	0	(-)
15	---	---	---	---	---	---	---	---	0	0	0	0
16	---	---	---	---	---	---	---	(-)	(-)	0	0	(-)
17	---	---	---	---	---	---	---	0	0	0	0	(-)
18	---	---	---	---	---	(-)	0	(-)	(-)	0	0	(-)
19	---	---	---	---	---	---	---	---	0	0	(+)	0
20	---	---	---	---	---	---	---	---	0	0	0	0
22	---	---	---	---	---	---	---	0	0	0	0	0
23	---	---	---	---	---	---	---	---	0	0	0	0
24	---	---	---	---	---	---	---	---	(+)	(+)	0	(+)
25	---	---	---	---	---	---	---	---	0	0	0	0
26	---	---	---	---	---	---	0	0	0	0	0	0
27	---	---	---	---	---	---	---	---	0	0	0	0
28	---	---	---	---	---	---	---	0	0	0	0	(+)
29	---	---	---	---	---	---	---	---	0	0	0	(+)
30	---	---	0	0	0	0	(+)	(+)	(+)	0	0	(+)
32	---	---	0	0	0	0	0	0	0	0	0	0
33	---	---	---	---	0	0	0	(+)	0	0	0	0
34	---	---	---	---	0	0	(+)	0	0	0	0	0
35	---	---	---	---	---	---	0	0	0	(+)	(+)	0
36	---	---	---	---	---	---	---	---	0	0	0	0
37	---	---	---	---	---	---	---	---	0	0	---	0

**Table 4.** Results of Kendall's tau trend analysis for moving 30-year periods (except the last column, which is 28 years) for Kansas stream-gaging stations with more than 38 years of record—Continued

Map index number (fig. 3)	Station number	Station name	Period of record	Years of record	1901–30	1906–35	1911–40	1916–45
38	07139700	Arkansas River tributary near Dodge City	1957–98	40	---	---	---	---
39	07141200	Pawnee River at Rozel	1925–98	74	---	---	---	---
40	07141900	Walnut Creek at Albert	1959–98	40	---	---	---	---
41	07142300	Rattlesnake Creek near Macksville	1960–98	39	---	---	---	---
42	07143100	Little Cheyenne Creek tributary near Claflin	1957–98	42	---	---	---	---
43	07143300	Cow Creek near Lyons	1929–98	54	---	---	---	---
44	07144200	Little Arkansas River at Valley Center	1916–98	81	---	---	---	---
45	07144300	Arkansas River at Wichita	1898–1998	101	0	0	0	0
46	07145200	South Fork Ninnescah River near Murdock	1951–98	48	---	---	---	---
47	07145700	Slate Creek at Wellington	1960–98	39	---	---	---	---
48	07149000	Medicine Lodge River near Kiowa	1938–98	54	---	---	---	---
49	07151500	Chikaskia River near Corbin	1923–98	40	---	---	---	---
50	07156700	Cimarron River tributary near Satanta	1957–97	41	---	---	---	---
51	07157500	Crooked Creek near Englewood	1943–98	56	---	---	---	---
52	07166200	Sandy Creek near Yates Center	1957–98	42	---	---	---	---
53	07167500	Otter Creek at Climax	1947–98	51	---	---	---	---
54	07172000	Caney River near Elgin	1939–98	60	---	---	---	---
55	07180500	Cedar Creek near Cedar Point	1939–98	60	---	---	---	---
57	07184000	Lightning Creek near McCune	1938–98	48	---	---	---	---

MapIndex1 number1 (fig. 3)	1921-50	1926-55	1931-60	1936-65	1941-70	1946-75	1951-80	1956-85	1961-90	1966-95	1971-981	Full1 record1
38	---	---	---	---	---	---	---	---	0	(-)	0	0
39	---	(+)	0	0	0	0	0	(-)	0	0	0	(-)
40	---	---	---	---	---	---	---	---	(-)	(-)	0	(-)
41	---	---	---	---	---	---	---	---	0	0	0	0
42	---	---	---	---	---	---	---	---	(-)	(-)	0	(-)
43	---	---	---	---	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	(+)
45	(+)	0	(+)	0	0	0	0	0	0	0	0	(+)
46	---	---	---	---	---	---	---	(+)	0	0	0	0
47	---	---	---	---	---	---	---	---	0	0	0	0
48	---	---	---	---	(-)	0	0	0	0	0	0	(-)
49	---	---	---	---	---	---	0	0	0	0	0	0
50	---	---	---	---	---	---	---	---	(-)	0	(-)	(-)
51	---	---	---	---	---	(-)	(-)	(-)	(-)	(-)	(-)	(-)
52	---	---	---	---	---	---	---	---	0	0	0	0
53	---	---	---	---	---	---	(+)	0	0	0	0	0
54	---	---	---	---	0	0	0	0	0	0	0	0
55	---	---	---	---	0	0	0	0	0	0	0	0
57	---	---	---	---	0	0	0	0	0	(+)	0	0