

Table S1. Trend detection for the flood variables through Mann-Kendall test in different time periods.

Time period	Flood peak		3-day AMAX flow	
	statistic	p-value	statistic	p-value
1883 - 1922	0.83	0.41	0.44	0.66
1884 - 1923	1.08	0.28	0.54	0.59
1885 - 1924	1.06	0.29	0.44	0.66
1886 - 1925	1.27	0.20	0.79	0.43
1887 - 1926	1.43	0.15	0.93	0.35
1888 - 1927	1.74	0.08	1.24	0.22
1889 - 1928	1.88	0.06	1.26	0.21
1890 - 1929	1.57	0.12	1.37	0.17
1891 - 1930	1.71	0.09	0.93	0.35
1892 - 1931	1.01	0.31	0.68	0.50
1893 - 1932	1.08	0.28	0.31	0.75
1894 - 1933	1.41	0.16	0.90	0.37
1895 - 1934	0.55	0.58	0.97	0.33
1896 - 1935	0.73	0.46	0.99	0.32
1897 - 1936	0.69	0.49	0.99	0.32
1898 - 1937	1.06	0.29	1.32	0.19
1899 - 1938	0.50	0.62	0.57	0.57
1900 - 1939	0.57	0.57	0.50	0.62
1901 - 1940	1.22	0.22	1.11	0.27
1902 - 1941	1.04	0.30	0.66	0.51
1903 - 1942	0.57	0.57	0.06	0.95
1904 - 1943	1.08	0.28	0.52	0.60
1905 - 1944	1.01	0.31	0.57	0.57
1906 - 1945	0.64	0.52	0.01	0.99
1907 - 1946	0.36	0.72	-0.08	0.93
1908 - 1947	0.45	0.65	0.52	0.60
1909 - 1948	0.29	0.77	0.08	0.93
1910 - 1949	-0.08	0.93	-0.31	0.75
1911 - 1950	-0.41	0.68	-0.15	0.88
1912 - 1951	0.03	0.97	-0.27	0.79
1913 - 1952	0.29	0.77	-0.34	0.74
1914 - 1953	-0.01	0.99	-0.92	0.36
1915 - 1954	-0.59	0.55	-0.73	0.46
1916 - 1955	0.10	0.92	-0.27	0.79
1917 - 1956	0.22	0.82	-0.22	0.82
1918 - 1957	0.24	0.81	-0.52	0.60
1919 - 1958	0.36	0.72	-0.48	0.63
1920 - 1959	0.59	0.55	-0.27	0.79
1921 - 1960	0.36	0.72	-0.20	0.84

1922 - 1961	0.41	0.68	-0.34	0.74
1923 - 1962	0.03	0.97	-0.80	0.42
1924 - 1963	-0.43	0.67	-1.25	0.21
1925 - 1964	-0.55	0.58	-1.20	0.23
1926 - 1965	-0.57	0.57	-1.06	0.29
1927 - 1966	-0.45	0.65	-0.97	0.33
1928 - 1967	-0.38	0.70	-0.76	0.45
1929 - 1968	0.43	0.67	0.03	0.97
1930 - 1969	0.24	0.81	0.45	0.65
1931 - 1970	0.29	0.77	0.00	1.00
1932 - 1971	0.08	0.93	-0.16	0.87
1933 - 1972	-0.06	0.95	-0.42	0.67
1934 - 1973	0.13	0.90	-0.47	0.64
1935 - 1974	-0.03	0.97	-0.47	0.64
1936 - 1975	0.00	1.00	-0.37	0.71
1937 - 1976	-0.01	0.99	-0.23	0.82
1938 - 1977	0.34	0.74	0.01	0.99
1939 - 1978	0.03	0.97	-0.43	0.67
1940 - 1979	0.20	0.84	0.06	0.95
1941 - 1980	0.80	0.42	0.06	0.95
1942 - 1981	0.85	0.40	-0.01	0.99
1943 - 1982	0.57	0.57	-0.12	0.91
1944 - 1983	1.11	0.27	-0.16	0.87
1945 - 1984	0.43	0.67	-0.70	0.48
1946 - 1985	-0.13	0.90	-0.77	0.44
1947 - 1986	-0.13	0.90	-0.54	0.59
1948 - 1987	0.13	0.90	-0.26	0.80
1949 - 1988	0.10	0.92	-0.26	0.80
1950 - 1989	-0.45	0.65	-0.54	0.59
1951 - 1990	-0.08	0.93	-0.23	0.82
1952 - 1991	-0.24	0.81	-0.47	0.64
1953 - 1992	-0.41	0.68	-0.49	0.62
1954 - 1993	-0.45	0.65	-0.91	0.36
1955 - 1994	-0.52	0.60	-0.16	0.87
1956 - 1995	0.08	0.93	0.12	0.91
1957 - 1996	-0.17	0.86	-0.41	0.68
1958 - 1997	-0.64	0.52	-1.01	0.31
1959 - 1998	-0.87	0.38	-1.48	0.14
1960 - 1999	-0.62	0.54	-1.18	0.24
1961 - 2000	-0.71	0.48	-0.36	0.72
1962 - 2001	0.08	0.93	0.28	0.78
1963 - 2002	0.29	0.77	0.63	0.53
1964 - 2003	0.45	0.65	1.13	0.26
1965 - 2004	0.31	0.75	0.91	0.36

1966 - 2005	-0.55	0.58	0.19	0.85
1967 - 2006	-0.99	0.32	-0.10	0.92
1968 - 2007	-0.94	0.35	-0.10	0.92
1969 - 2008	-0.24	0.81	0.59	0.55
1970 - 2009	0.15	0.88	0.94	0.35
1971 - 2010	-0.13	0.90	0.55	0.58
1972 - 2011	-0.08	0.93	0.59	0.55
1973 - 2012	-0.29	0.77	1.04	0.30
1974 - 2013	-0.20	0.84	0.90	0.37
1975 - 2014	0.48	0.63	1.81	0.07
1976 - 2015	0.66	0.51	1.60	0.11
1977 - 2016	0.13	0.90	1.20	0.23
1978 - 2017	-0.13	0.90	0.76	0.45
1979 - 2018	-0.13	0.90	0.62	0.54
1980 - 2019	-0.45	0.65	0.36	0.72
