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[All locations in South Dakota unless otherwise specified. Relative magnitude of event: 1, extreme; 2, severe; 3, moderate; 4, minor; 5, very minor; ft3/s, cubic feet per second. USGS, U.S. Geological Survey; --, not applicable]

Date of storm	Date of flood	Relative magnitude of event					Primary stream	Secondary stream(s)	Primary town or area	Description of event	Source of information
		1	2	3	4	5					
July 1941	July 1941	--	--	--	X	X	Dry Creek	Various	Sturgis	Some rail and highway damage from heavy rains and high water reported throughout widespread area.	Valley Irrigator (June 12, 1941). Page 1 ; page 2 .
July 1941	July 1941	--	--	--	--	X	--	Crow Creek	--	Area streams were high from widespread, prolonged precipitation.	Valley Irrigator (June 19, 1941). Page 1 ; page 2 .
Aug.1941	Aug. 6, 1941	--	--	X	X	--	Fall River	--	Hot Springs	Peak flow of 4,700 ft ³ /s occurred on August 6, 1941, at station 06402000 (Fall River at Hot Springs).	U.S. Geological Survey (2009) .
1943	June 13, 1943	--	--	--	--	X	Rapid Creek	--	Rapid City	Peak flow of 936 ft ³ /s reported for Rapid Creek for June 13, 1943.	Miller (1986) .
July 12, 1944	July 12, 1944	--	--	--	--	X	Fall River	--	Hot Springs	Article reported 2.34 inches of rain fell on July 12, 1944, in Hot Springs in an hour.	Hot Springs Weekly Star (July 20, 1944).
Apr.–May 1946	May 1–2, 1946	--	--	--	X	X	Bear Butte Creek	--	Sturgis	Nearly 7 inches of rain reported for past 2 days at Deadwood. Several homes along Bear Butte Creek were moved because of flood threat.	Rapid City Journal (May 2, 1946).
Apr.–May 1946	May 1–2, 1946	--	--	--	X	X	Whitewood Creek	Bear Butte Creek	Deadwood	Street damage reported for Deadwood. Additional damage along Bear Butte Creek reported.	Rapid City Journal (May 3, 1946).
Apr.–May 1946	May 1–2, 1946	--	--	--	X	X	Bear Butte Creek	--	Sturgis	Congressional committee ordered review by army engineers of possible flood improvements along Bear Butte Creek; instigated by flooding of recent days.	Rapid City Journal (May 4, 1946).
--	May 24, 1946	--	--	X	X	X	Bear Butte Creek	--	--	Peak flow of 9,800 ft ³ /s occurred on May 24, 1946, at station 06437500 (Bear Butte Creek near Sturgis).	U.S. Geological Survey (2009) .
May 1946	May 1946	--	--	X	--	--	Spearfish Creek	--	Spearfish	May rainfall at Lead (?) broke 41-year record. Spearfish Creek reported to be as high as during flood of 1933, when rail bed in Spearfish Canyon was washed out.	Lead Call (May 31, 1946).
May 1946	May 1946	--	--	--	X	X	Spearfish Creek	--	Spearfish	Damage in Spearfish area reported to be most severe since early 1930s. Army engineers arrived to investigate flood damages.	Queen City Mail (May 4, 1946).
May 1946	--	--	--	--	--	--	--	--	Lead, Deadwood	Precipitation totals for May 1946 of 18.61 inches for Deadwood and 15.31 inches for Lead provided. Indicates that very wet conditions existed in May 1946 for this area.	Driscoll and others (2000).
--	July 18, 1946	--	--	--	--	X	Rapid Creek	--	Rapid City	Peak flow of 1,000 ft ³ /s reported for Rapid Creek for July 18, 1946.	Miller (1986) .
--	1946	--	--	--	--	--	Redwater River and Hay Creek	--	--	Article listed major flood years for Redwater River as 1906, 1922, 1935, 1941, and 1946; and for Hay Creek as 1923, 1926, 1930, 1937, and 1940.	Rapid City Journal (Oct. 22, 1946). Page 1 ; page 2 .
June 20, 1947	June 20, 1947	--	X	X	--	--	Fall River	--	Hot Springs	Fall River reported as highest since 1938.	Edgemont Tribune (June 25, 1947).
June 20, 1947	June 20, 1947	--	X	X	--	--	Fall River	--	--	Peak flow of 8,300 ft ³ /s occurred on June 20, 1947, at station 06402000 (Fall River at Hot Springs). This was the last large peak flow prior to the construction of two flood-control reservoirs within Fall River Basin.	U.S. Geological Survey (2009) .
June 17, 1947	June 17–18, 1947	--	X	X	--	--	Fall River	--	Hot Springs	Flooding along Fall River caused substantial damage in Hot Springs.	National Oceanic and Atmospheric Administration (2008) .
June 20, 1947	June 20, 1947	--	X	X	--	--	Fall River	--	Spearfish	Flash flood occurred in Hot Springs. Wet conditions existed near Deadwood and Spearfish.	Queen City Mail (June 26, 1947).
--	June 24, 1947	--	--	--	--	X	Rapid Creek	--	Rapid City	Peak flow of 1,170 ft ³ /s reported for Rapid Creek for June 24, 1947.	Miller (1986) .
Aug. 15, 1949	Aug. 15, 1949	--	--	--	--	X	Rapid Creek	--	Rapid City	Flash flooding occurred along Rapid Creek.	National Oceanic and Atmospheric Administration (2008) .
--	Aug. 15, 1949	--	--	--	--	X	--	--	Rapid City	Heavy rain reported in western part of Rapid City.	Miller (1986) .