

## **Water Rights Program Dam File Documentation**

NAME OF DAM: Platte  
HAZARD CLASS: 3 (low)  
DATE: 3/17/2020  
RE: Dam Breach

NID #: SD00010  
OWNER: City of Platte  
COUNTY: Charles Mix

### COMMENTS:

As part of a heavy precipitation event on saturated ground that occurred September 11-12, 2019, Platte Dam was overtopped at breached on September 12, 2019. Water Rights staff visited the dam on September 17, 2019 to verify the breach. The dam is tied to Water Right No. 1957-3 as a water source for irrigation of the Lake Platte Golf Club and Vested Water Right No. 729-3 held by SD Game, Fish, and Parks for the impoundment of water by the dam. The City of Platte has expressed the intent to reconstruct the dam. Included below is storm event, stream gage, and site visit information.

Whitney Kilts  
Natural Resources Engineer

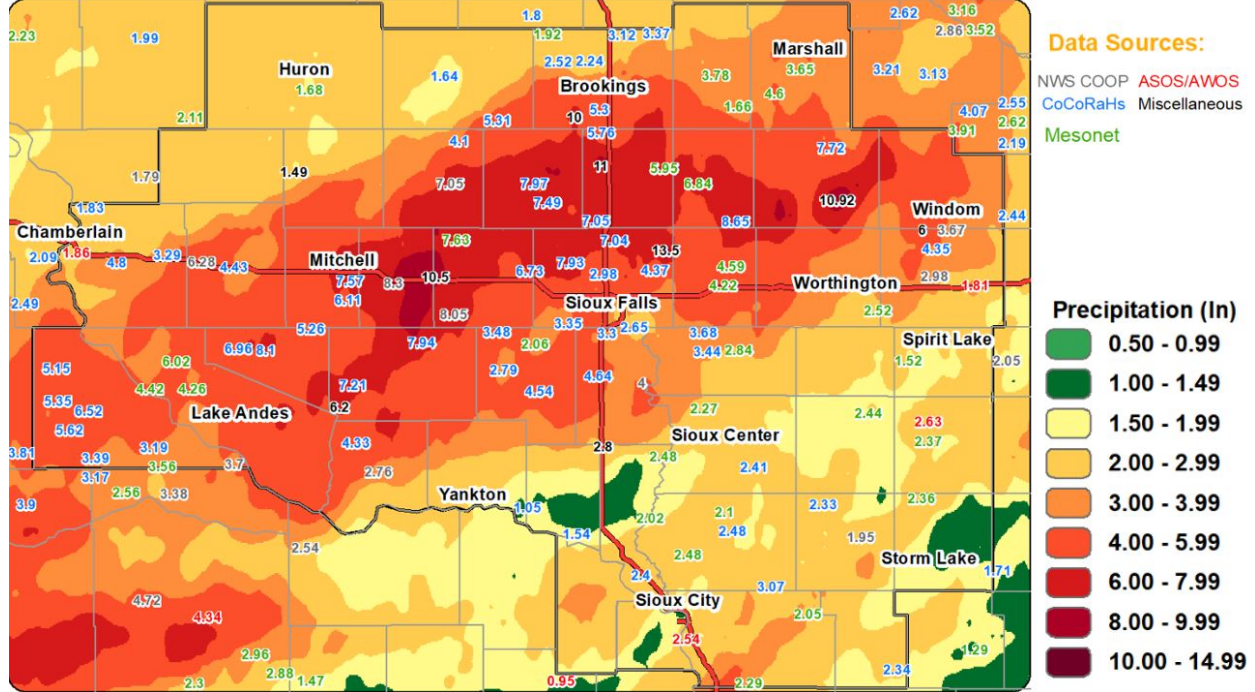
From NWS (<https://www.weather.gov/fsd/20190911-Flooding>)

### **Heavy Rainfall and Flooding September 11-12, 2019**

Slow moving, repeat thunderstorms produced widespread heavy rainfall across portions of southeast South Dakota into southwest Minnesota the evening of Wednesday, September 11th into the early morning hours of Thursday, September 12th. Rainfall amounts across a large area ranged from 3 to 8 inches. Looking at the 48 hour rainfall totals from late Tuesday September 10th through the morning of Thursday, September 12th, a band of extreme rainfall fell from Mitchell, SD to Madison, SD to Slayton, MN, where 6 to 12 inches accumulated.

This rainfall resulted in significant flash flooding, requiring evacuations in some communities and many water rescues. As the water moved into the river system, major to record flooding occurred at numerous locations. Many structures were inundated with water. In addition, damage to area roads was significant and widespread. Of note, Interstate 90 from Sioux Falls to Mitchell, SD was closed for an extended period due to flooding.

# 48 Hour Precipitation Totals



From NWS Storm Events Database  
<https://www.ncdc.noaa.gov/stormevents/eventdetails.jsp?id=856733>

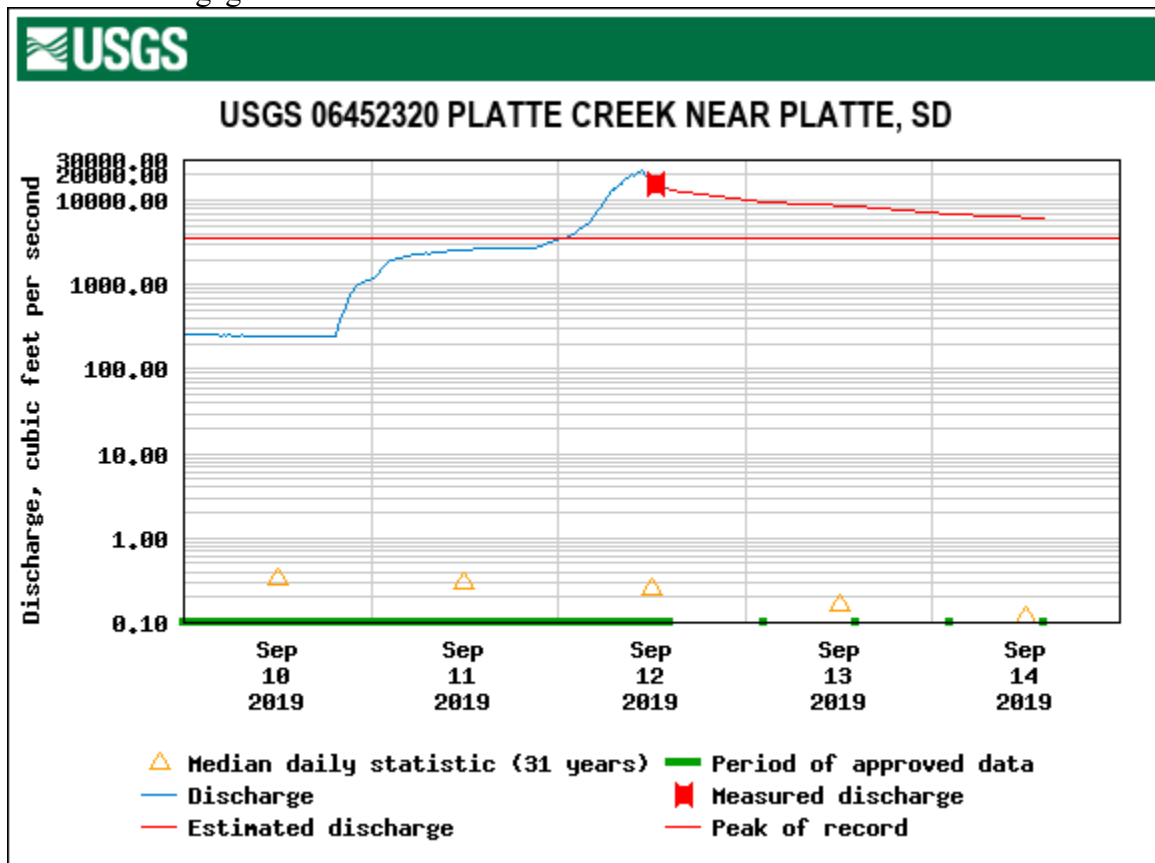
## Storm Events Database

### Event Details:

Event	Flood
-- Flood Cause	Heavy Rain
State	SOUTH DAKOTA
County/Area	CHARLES MIX
WFO	FSD
Report Source	River/Stream Gage
NCEI Data Source	CSV
Begin Date	2019-09-12 01:00 CST-6
Begin Location	7NNE PLATTE MUNI ARPT
Begin Lat/Lon	43.5/-98.78
End Date	2019-09-15 14:00 CST-6
End Location	9S ACADEMY
End Lat/Lon	43.32/-99.05

Deaths Direct/Indirect	0/0 (fatality details below, when available...)
Injuries Direct/Indirect	0/0
Property Damage	100.00K
Crop Damage	0.00K
Episode Narrative	Spurred by a period of excessive precipitation that saw from 5 to 10 inches of rainfall between September 10-12, smaller tributaries saw surges to major to record flooding.
Event Narrative	Platte Creek near Platte (gage site PCPS2) responded sharply to 5 to 9 inches of rainfall between September 10-12 (6.31 inches near Academy and 6.29 inches at Platte) to reach the highest crest on record at 9.15 feet above flood stage on September 12. Innumerable county and township roads were inundated, with significant flooding of South Dakota Highway 1804. Platte Creek Road was washed out at the Lake Platte spillway starting around 0800CST on September 12.

USGS Stream gage data



Select Water Rights drone pictures from September 17, 2019







