

Flood Survey

June 11th, 2014

Aitkin/Cedarbrook
Minnesota



Amanda Graning
Meteorologist, Senior Forecaster
National Weather Service
Duluth, MN

Brian Pisarek
Emergency Manager/Fire Chief
City of Aitkin, MN

Aitkin, Minnesota



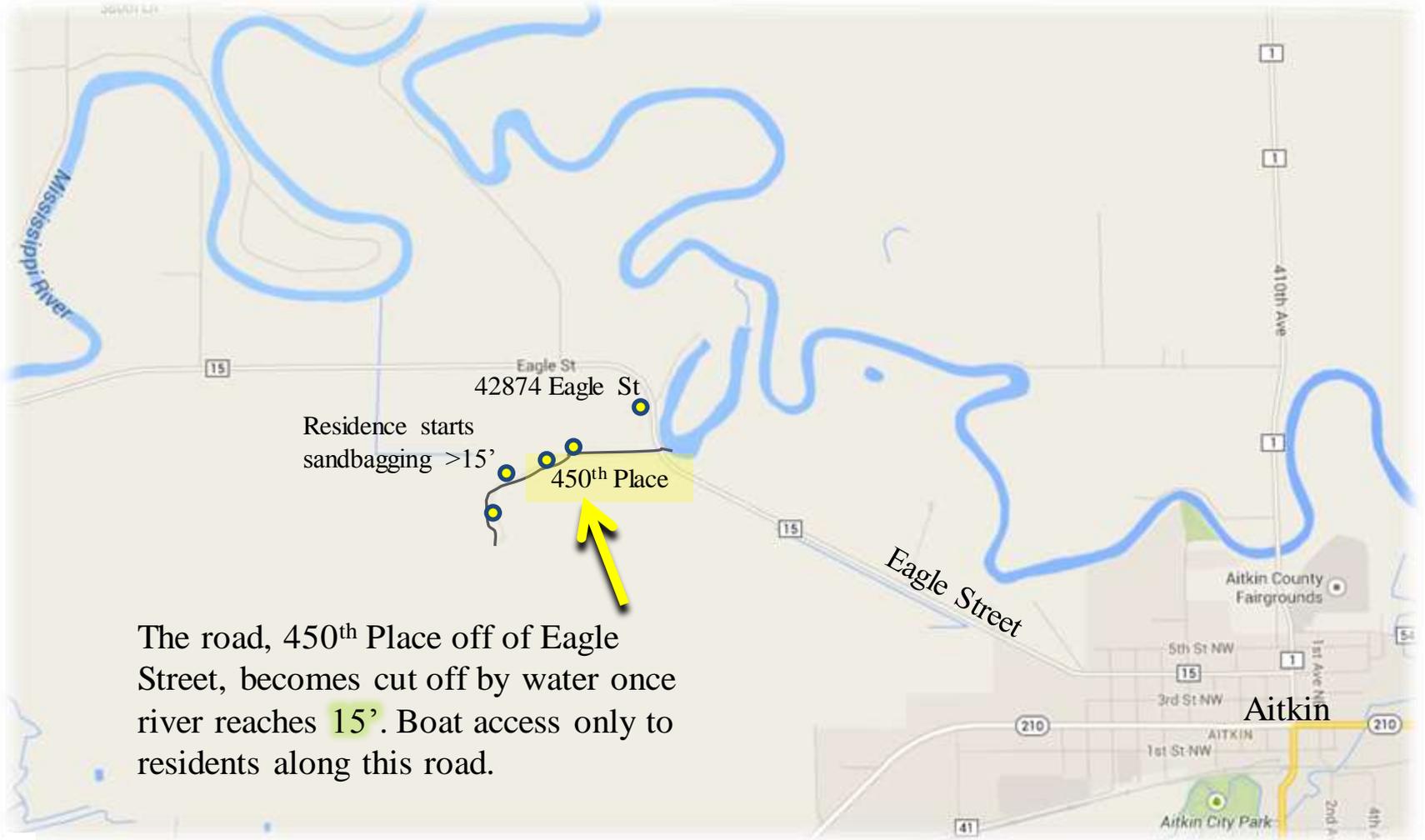
- Historical Crests (as of 2014)
- (1) 22.49 ft on 05/20/1950
 - (2) 19.50 ft on 07/06/1905
 - (3) 19.30 ft on 04/29/1916
 - (4) 18.80 ft on 06/09/1944
 - (5) 18.77 ft on 04/27/1948
 - (6) 18.70 ft on 05/12/1938
 - (7) **18.61 ft on 06/28/2012**
 - (8) 18.20 ft on 06/15/1908
 - (9) 18.13 ft on 08/14/1953
 - (10) 18.00 ft on 04/26/1906
 - (11) 18.00 ft on 06/20/1943

Aitkin River Stage	Flood Impact
12-14'	Flooding of farmland in Cedarbrook community
>13'	Boat ramp at Aitkin City Park underwater. Few driveways become covered with water in Cedarbrook area.
>15'	Sand bagging begins around a few homes that become surrounded by water in Cedarbrook area, off of eagle Road. The Aitkin city park becomes flooded.
>17'	<ul style="list-style-type: none"> • Water breaches top of levees on north side of Aitkin. • A home near the city park becomes surrounded by water. • Pumping begins at Aitkin Waste water treatment plant (located near city park). • Sandbagging begins at Aitkin City Transformer
~18'	<ul style="list-style-type: none"> • The Aitkin County Fairgrounds Floods • A home and the VFW near Fairground Floods • Water Over Highway 1 • Home on north side of River, off of Highway 1, become surrounded by flood waters. Boat access only to these residents. • Water breaches top of levees on northeast side of Aitkin.
>20'	<ul style="list-style-type: none"> • Widespread flooding within city of Aitkin. Many recently build homes are build to hold back water to 20'. • Portions of Hwy 169 North east of Aitkin become water covered. • Water Breaches flood walls surrounding Aitkin City Transformer • Water Plant Becomes inoperable • Power plant become inoperable
26'	The Canadian National Railroad track becomes impassable

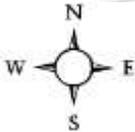
Cedarbrook Community



Cedarbrook Community



The road, 450th Place off of Eagle Street, becomes cut off by water once river reaches 15'. Boat access only to residents along this road.



Cedarbrook Community

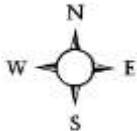


River Stage on date of photo = 12.5'
Flood Stage = 12'

(In 2012, the river reached 18" was
Eagle Street was not flooded. Driveways
along the road were cut off.



Flooding of Farmland along
Eagle Street/County road 15.



County Road 15 (Eagle Street). Looking Southwest over flooded farmland

Cedarbrook Community

Flooding of Farmland along Eagle Street/County Road 15.

Current River Stage = 12.5'
Flood Stage = 12'

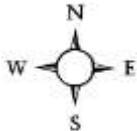


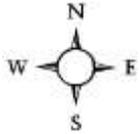
County Road 15 (Eagle Street). Looking South over flooded farmland

Cedarbrook Community

Flooding of Farmland along Eagle Street/County Road 15.

Current River Stage = 12.5'
Flood Stage = 12'





Aitkin, Minnesota

Tour of Past Flooding Around Aitkin

The levees along this portion of the Mississippi that are built to hold back waters to 17'



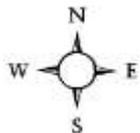
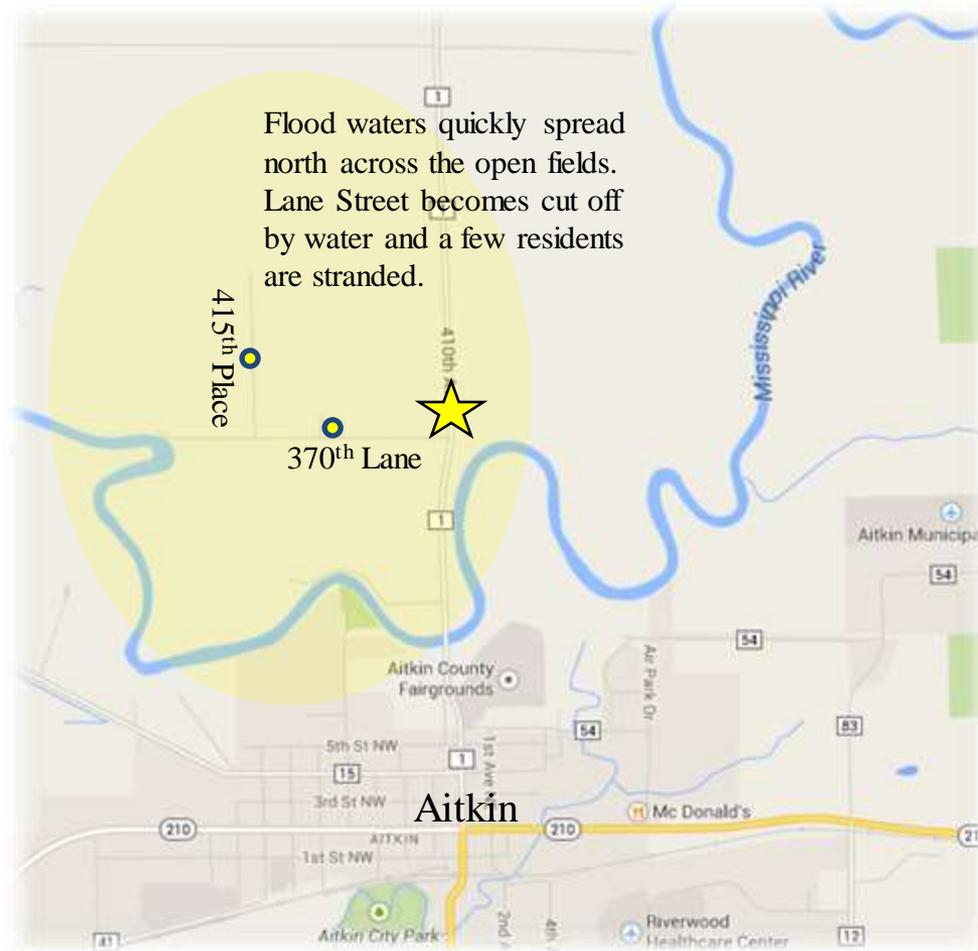
Aitkin River Stage over 17'

- Water flows over levees on north side of town
- Northern side of Aitkin becomes impacted
- Water Treatment Plant Begins pumping
- House near Park is surrounded by water
- Aitkin County Fairgrounds Flooded
- A house and the VFW near Fairground Floods



Aitkin, Minnesota

Flood Impacts When Mississippi at Aitkin Stage is between 17' to 18'

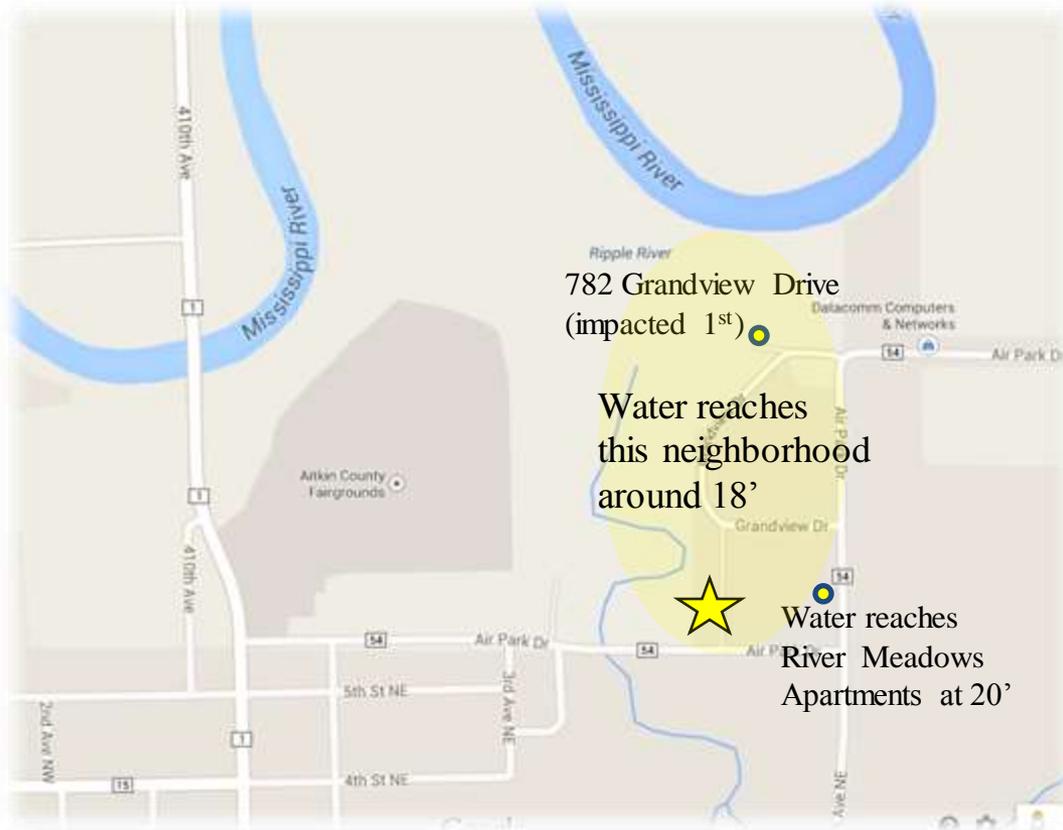


Photos take from Highway 1 looking west towards homes that become cut off by flood waters when river stage is between 17' to 18'.



Aitkin, Minnesota

Flood Impacts When Mississippi at Aitkin Stage is between 17' to 18'



The levees on Northeast and Northwest sides of town hold back water to 18'

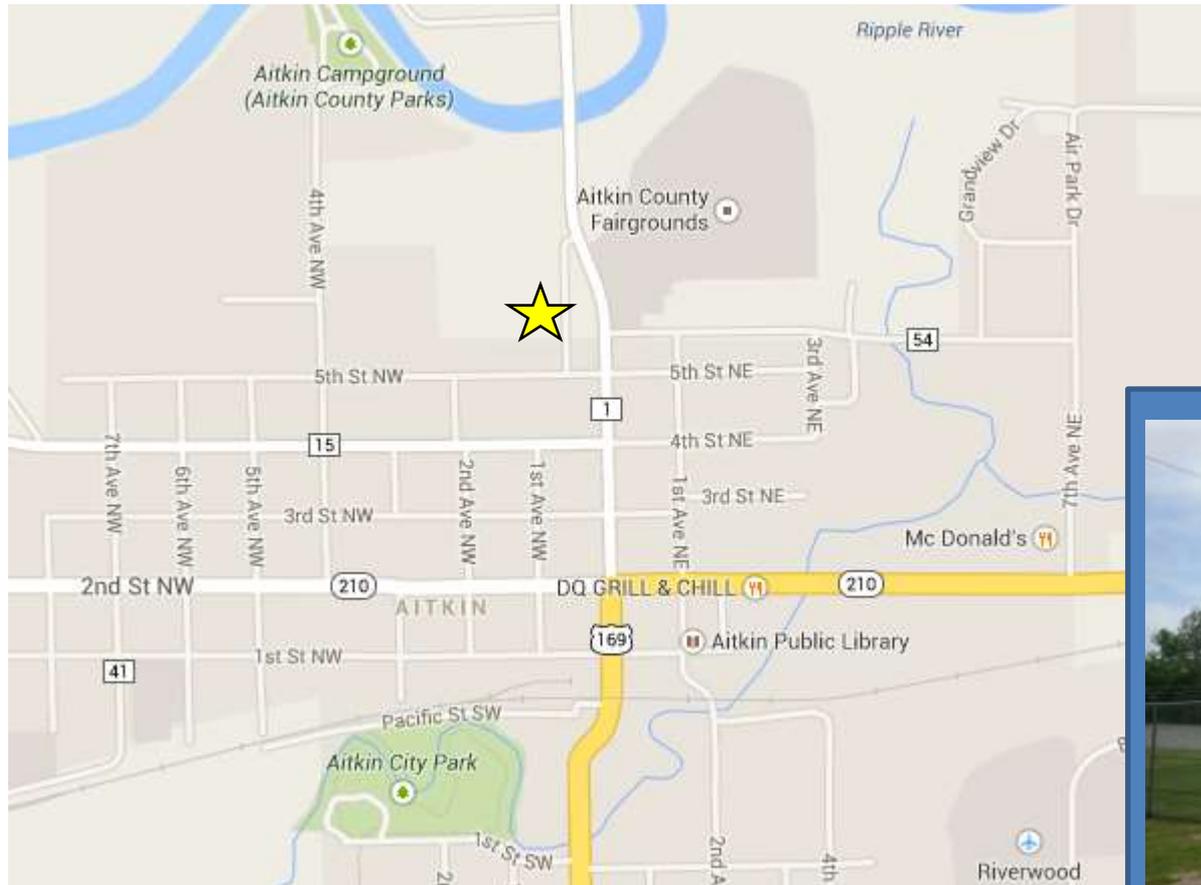


★ On Air Park Drive Looking north along driveway. House on Right. 18' Levee on left.



Aitkin, Minnesota

Flood Impacts When Mississippi at Aitkin Stage is between 17' to 18'



Flood waters reach the Aitkin substation and Sandbagging begins. A flood wall holds back waters to 21'



Substation for city of Aitkin with flood wall.



Aitkin, Minnesota



On county road 24 looking East down the diversion channel

