Remaining Elements of Moorhead's 2009 Flood Plan (\$16M)

7 Flood Control Lift Station Improvements for High-Risk Service Areas



Requires manual operation using tractors and on-site monitoring





Moorhe ad Inclustrial Park

FC15

FC7

FC16

FC6

FC11

SG Reinertse Elementary Permanent power source meets **FEMA** and **USACE** risk and reliability standards



Minnesota State Bonding Request

CITY OF MOORHEAD & CLAY COUNTY Flood Mitigation \$60.4M REQUEST

HF 2224 SF 2015

To construct the remaining in-town and FM diversion flood mitigation infrastructure in Minnesota, the City of Moorhead and Clay County request funding from the Minnesota Department of Natural Resources (MN DNR) Flood Damage Reduction Program in the amount of \$60.4 million. The funding would first be used to complete the remaining components within the City of Moorhead.

Projects







	\$16M
	\$16M
es	
se	
	\$1.1M
E-4	\$2M
E-5	\$200K
	\$2M
	\$6.5M
	\$16.6M



Flood Risk in the Red River Valley

The Red River is unique due to its low gradient and northward flow. These features also lead to a high flooding risk. Ice melt comes earlier in the southern regions, causing ice jams and other conditions that result in flooding nearly every year. This makes the Red River Valley one of the most flood-prone areas in the U.S.

FM Diversion Project Overview



Water flows downstream (north), passing through the natural riverbed, which is bordered by in-town levees and floodwalls. If the flood level will exceed 37 feet, the MFDA will prepare to operate the FM Area Diversion.



Radial-arm flood gates on the Red River Structure and Wild Rice River Structure are lowered to limit the amount of floodwater that enters the metro area.



A portion of the floodwater moves into the upstream mitigation area, where it is temporarily stored within the southern embankment.



Gates open on the Diversion Inlet Structure, allowing floodwaters to enter the stormwater diversion channel and safely pass around the metro area.



Once the project operations end, the MFDA will remove flood-related debris from the upstream mitigation area.



LARGEST RED RIVER **HISTORICAL CRESTS**

7 of the top 10 flood events occurred within the last 30 years.

* March 28, 2009	40.84 ft.
* April 18, 1997	39.72 ft.
April 7, 1897	39.10 ft.
★ April 9, 2011	38.81 ft.
April 15, 1969	37.34 ft.
* April 5, 2006	37.13 ft.
* March 21, 2010	36.99 ft.
* April 14, 2001	36.69 ft.
April 9, 1989	35.39 ft.
* April 8, 2019	35.03 ft.

City of Moorhead & Buffalo-Red River Watershed District Improvements Progess

	Completed	In-Progr
Property Acquisitions	337	
Private Property Easements	99	
Levees & Floodwalls (miles)	18.8	
Removable Floodwall Closures	5	
Stormwater Pump Stations	24	
Stormwater Gates	83	
Sanitary Sewer Pump Station Improvements	6	





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February 2025



















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