



# 2025 SAME OMAHA POST **INDUSTRY DAY** AND GOLF OUTING

## 2024 Flood Rehabilitation

Lowell Blankers  
Levee Safety Program Manager  
USACE Omaha District







# 2024 FLOOD REHABILITATION

**Lowell Blankers**  
**Levee Safety**  
**Program Manager**  
**May 30, 2025**



Exit 4 I-29 North Sioux City



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# Presentation Overview

- Flood Event Details
- Damages
- Timelines
- Questions



BNSF Bridge Big Sioux River  
North Sioux City



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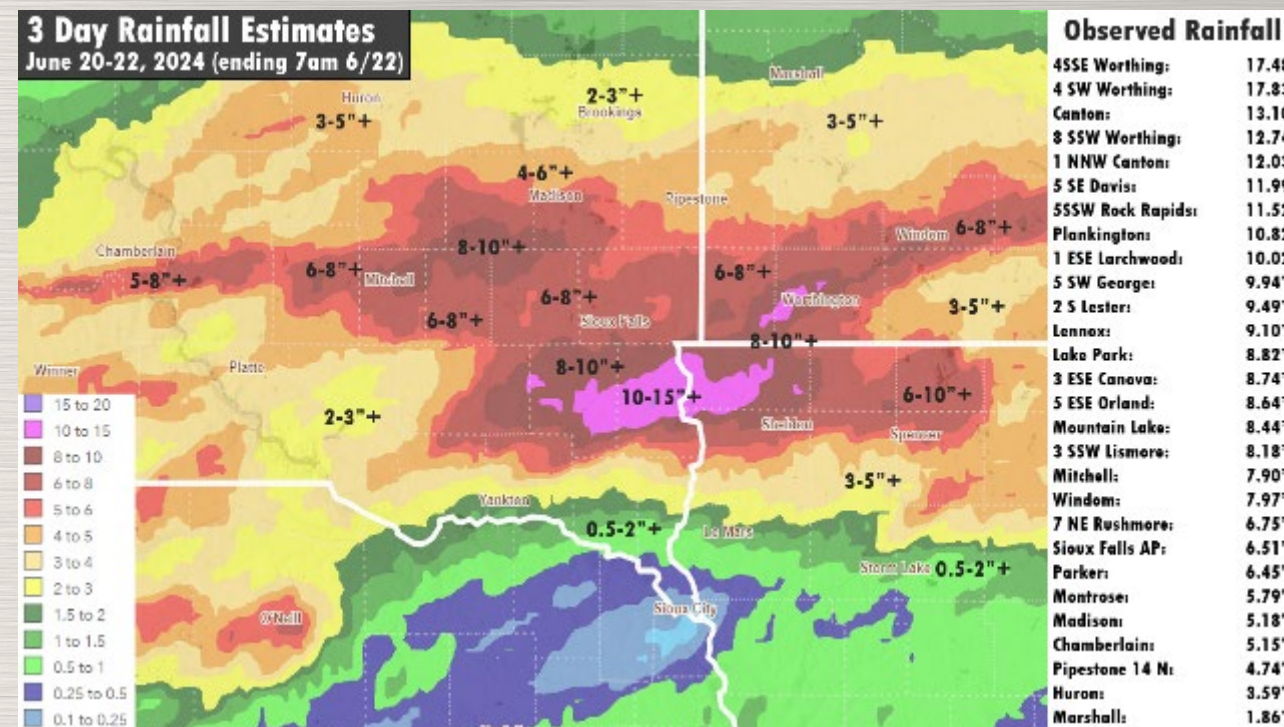
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# 2024 June Flood Event Details

- Heavy rain over SE South Dakota, SW Minnesota, North Central Nebraska and NW Iowa
- 19 June to 22 June multiple storms
- 2 reports of over 17 inches near Worthing, SD



Source: NWS [www.weather.gov/fsd/20240620-22-HeavyRain-Flooding](https://www.weather.gov/fsd/20240620-22-HeavyRain-Flooding)



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# Record Stream Gage

- Preliminary gage recordings showed 25 gages set new record heights.
- Big Sioux River at Sioux City setting a new record at 44.98 ft, an astonishing 7.2 feet above previous record.



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## New River Records Set (June 2024)



(HWM) Crest Estimated via High Water Mark Survey

### Vermillion River Basin

W Fork Vermillion near Parker	Observed: 15.51'	Record: 13.1' (March 8, 1993)
Vermillion River at Davis	Observed: 17.90'	Record: 16.4' (March 15, 2010)
Vermillion River at Wakanda	Observed: 18.93'	Record: 18.1' (March 15, 2019)
Vermillion River at Vermillion	Observed: 33.15'	Record: 31.8' (June 23, 1984)

### Big Sioux River Basin

Big Sioux River above Canton	Observed: 1248.35'	Record: 1246.7' (June 16, 2014)
Big Sioux River above Hawarden	Observed: 39.92'	Record: 35.2' (March 15, 2019)
Big Sioux River at Akron	Observed: 27.35'	Record: 25.5' (June 18, 2014)
Big Sioux River near Richland	Observed: 1128.70'	Record: 1125.6' (June 18, 2014)
Big Sioux River at Jefferson	Observed: 44.50'	Record: 40.4' (March 17, 2019)
Big Sioux River at Sioux City	Observed: 44.90'	Record: 37.7' (June 20, 2014)

### Rock River Basin

Rock River at Rock Rapids	Observed: 28.65'	Record: 27.0' (June 17, 2014)
Rock River at Rock Valley	Observed: 27.70'	Record: 22.7' (June 17, 2014)

### Floyd River Basin

Floyd River at Alton	Observed: 26.81'	Record: 22.0' (Sept. 20, 2018)
Floyd River at Struble	Observed: 18.47'	Record: 16.41' (March 14, 2019)
Floyd River at Le Mars	Observed: 27.97'	Record: 26.4' (June 8, 1953)
Floyd River at Merrill	Observed: 20.19'	Record: 20.0' (Sept 18, 1926)
Floyd River at James	Observed: 32.39'	Record: 31.5' (March 15, 2019)

### Little Sioux River Basin

W Fork Little Sioux near Lake Park	Observed: 1400.01'	Record: 1399.4' (June 24, 2018)
Little Sioux River near Milford	Observed: 20.40'	Record: 20.1' (June 25, 2018)
Little Sioux near Spencer/Hwy 18	Observed: 1328.17'	Record: 1326.60' (June 25, 2018)
Little Sioux River at Spencer	Observed: 22.2' (HWM)	Record: 20.2' (June 8, 1953)
Little Sioux River at Linn Grove	Observed: 29.98'	Record: 24.1' (March 16, 2019)
Little Sioux River at Cherokee	Observed: 32.98' (HWM)	Record: 28.4' (March 14, 2019)
Little Sioux River at Correctionville	Observed: 30.92'	Record: 29.3' (June 23, 1891)
Ocheyedan River near Spencer	Observed: 17.20'	Record: 12.9' (June 18, 1953)

### Des Moines River Basin

Des Moines River above Windom	Observed: 25.01'	Record: 24.7' (April 10, 1969)
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Source: NWS [www.weather.gov/fsd/20240620-22-HeavyRain-Flooding](https://www.weather.gov/fsd/20240620-22-HeavyRain-Flooding)

All data preliminary and subject to change after coordination with gauge owner and local officials





# Overview of Damages

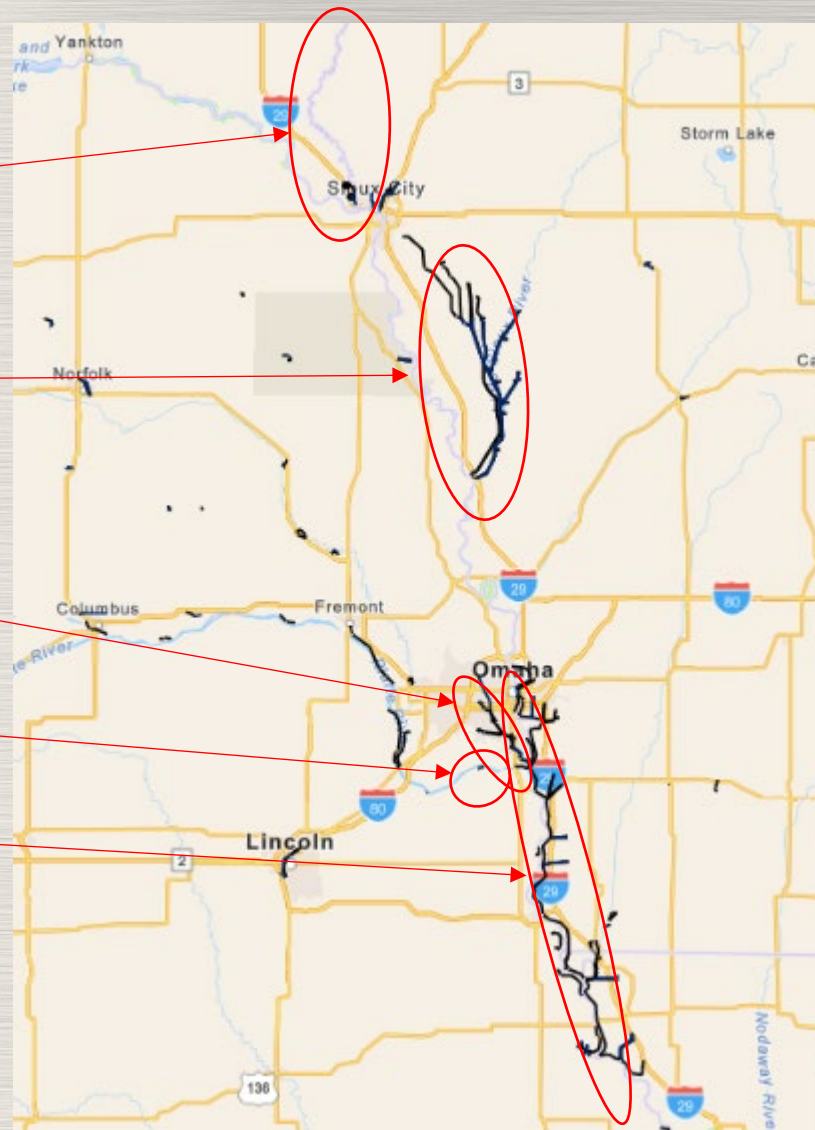
Big Sioux River Basin

Little Sioux River Basin

Papio Creek Levee Systems

Platte River

Missouri River Levee Systems



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# Big Sioux River Basin

- Hawarden – Dry Creek  
Right Bank and Left Bank
  - Erosion of rip rap at grade control structure
  - Shoaling



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# Big Sioux River Basin

- Union County and North Sioux City Big Sioux River LB
- Sioux City – Big Sioux River RB
  - Erosion at drainage structures and along channel



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# Little Sioux River Basin

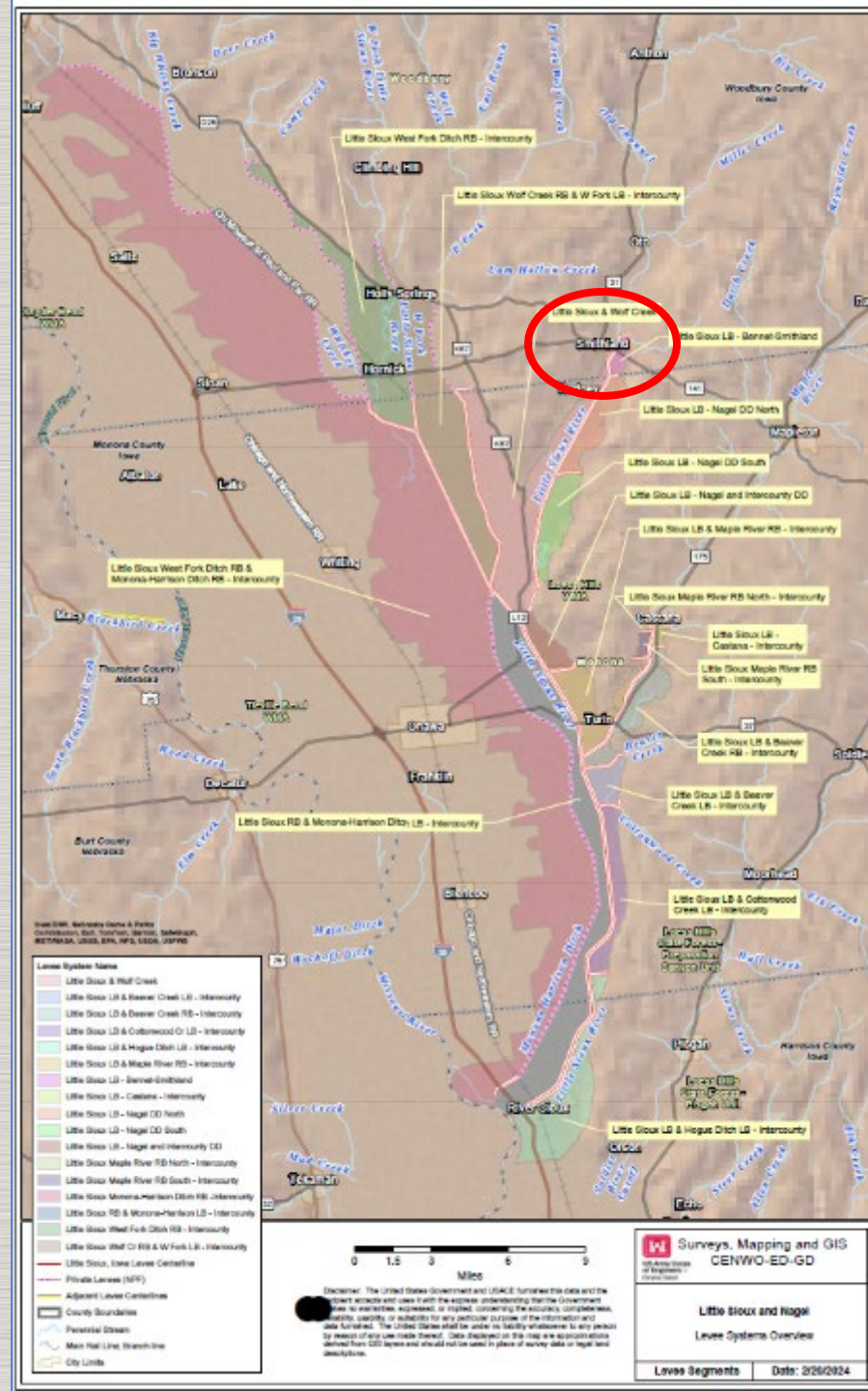
- 16 Levee Systems along the Little Sioux, Maple River and Tributaries.
- 138 Miles of Levees within the Project
- Significant lengths of overtopping during the flood
- 1 Levee breach



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# Little Sioux River Basin

- The Little Sioux River near Smithland, IA – June 25<sup>th</sup>
- Overtopping Hwy 141
- Overtopping Right Bank Levee
- Heavy flooding in the 11.5 miles or area on landside of the levee



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# Little Sioux River Basin

- Levee Breach on left bank of Little Sioux
- 320 ft of breach width, depths up to 60 ft



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# Little Sioux River Basin

- Erosion damages at multiple locations along the levees



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# Missouri River Levee Systems

Systems around Council Bluffs, IA

- L-627 MO River LB & Indian Creek RB
- L-624 MO River & Indian LB & Mosquito Creek RB
- L-624-627-611-614 - Mosquito Cr & Upper Pony Cr



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# Missouri River Levee Systems

- L-611-614-MoRiv LB & Upr  
Pony Crk Ditch LB & L1BLB



Seepage Boils



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# Missouri River Levee Systems

- R-616-613 - MO Riv RB & Papillion Cr LB
- R-613 - Platte LB & Papillion RB & MO River RB



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# Missouri River Levee Systems

- Lake Waconda - Missouri River RB (NF)
  - Underseepage Concerns



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# Missouri River Levee Systems

- L-575 and L-550
  - Underseepage Concerns
  - Riverside Scour
  - Loss of sod cover



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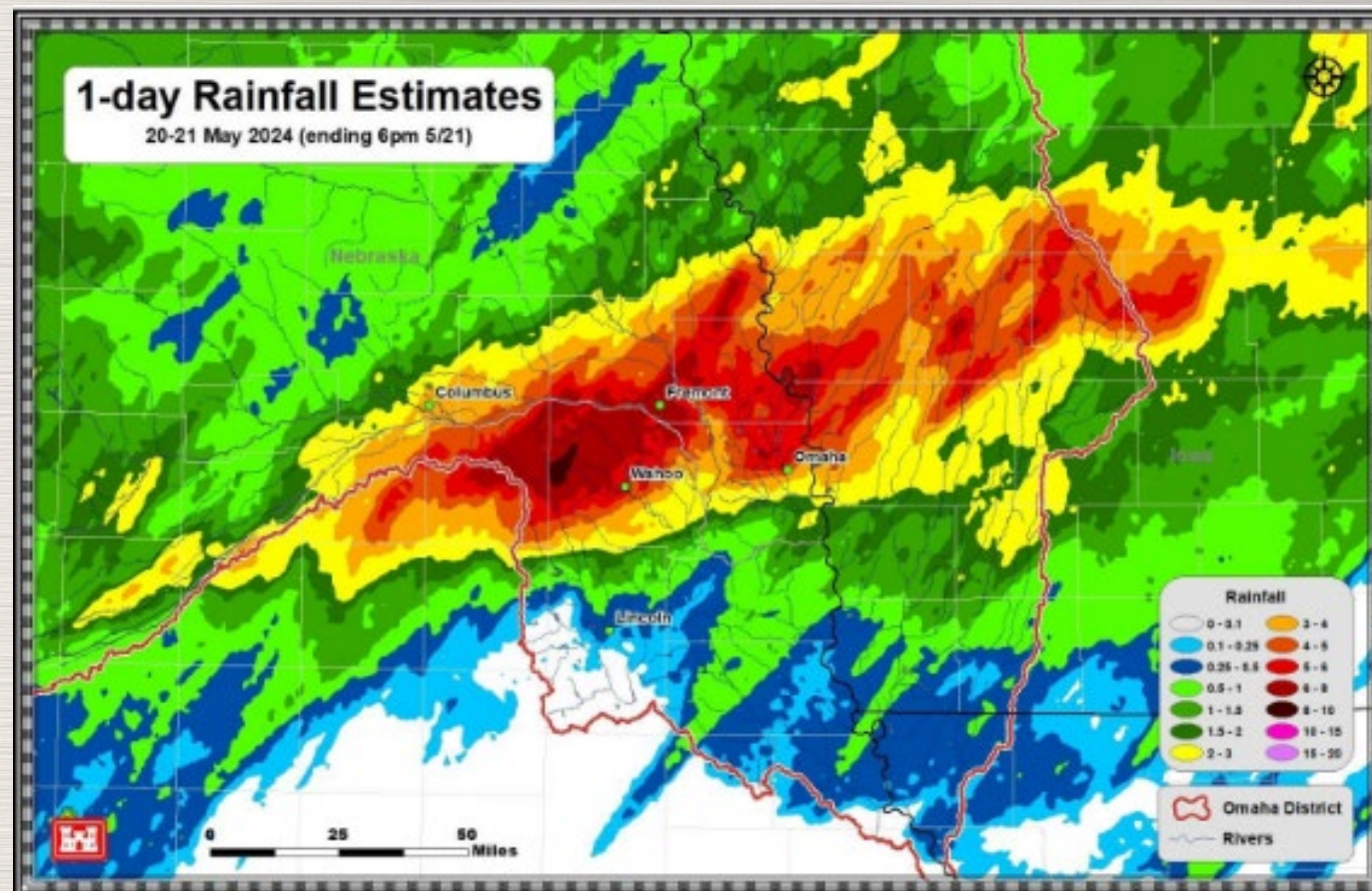
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# Papillion Creek and Platte River

- May 20, 2024 flood event



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# Papio Creek Levee Systems

- Typical Damages
  - Erosion
  - Sloughing



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# Cedar Creek (Omaha F&W Platte RB)

- Typical Damages
  - Erosion



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# 2019 Flood Rehab Section 120

- R-548 Missouri River Right Bank
  - Drainage structure inspections
  - Relief Well
- L-594-601 Missouri River Left Bank
  - Permanent Repairs



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# Timelines

WE ARE HERE

Damage  
Survey  
Report (DSR)

Project  
Information  
Report (PIR)

Engineering  
& Design  
Phase

Construction  
Contract  
Award

Construction  
Completion

- 3 Projects in E&D
- Most 2024 projects waiting on funds to move into E&D.
- Projects ready to move to contract advertisement waiting funds.



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# Engineering and Design Support

- AE support will be needed like efforts after the 2019 flood.



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# Contract Strategy

- Cost-Reimbursable Contracts will not be used for the repairs
- Fixed Firm Price Contracts
  - Prequalified Sources List Notice in SAM W9128F25R0041
  - Open for up to 3 years, but deadline for submittals under the first review panel is June 9<sup>th</sup> at 1700 CDT



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# Question?



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