

CASS COUNTY  
GOVERNMENT













**2023**  
**FLOOD FIGHT**

2023 Flood  
Cass County  
Flood Update

April 17, 2023

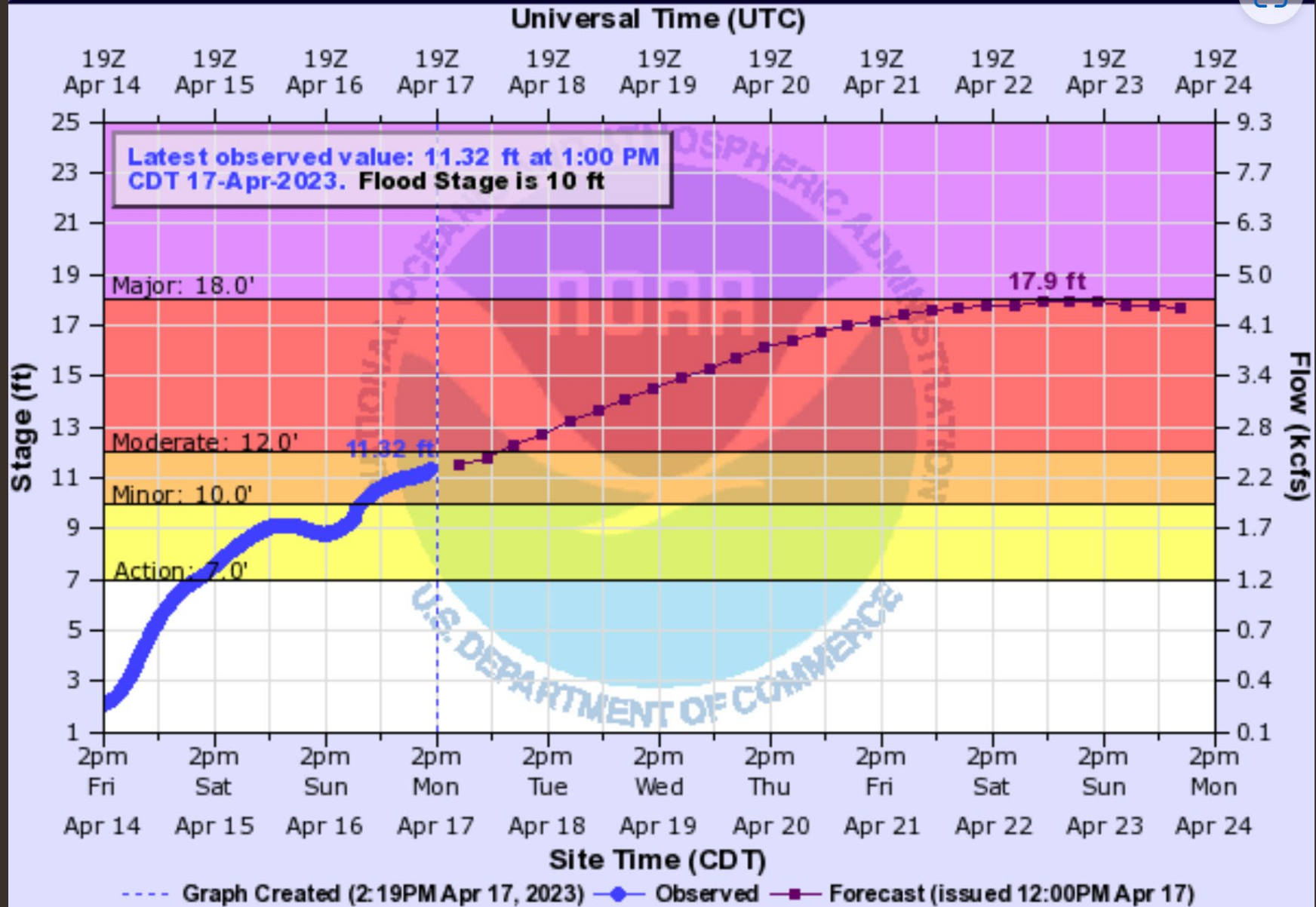
# Weather Forecast

Mon 4/17	Tue 4/18	Wed 4/19	Thu 4/20	Fri 4/21	Sat 4/22	Sun 4/23	Mon 4/24	Tue 4/25	Wed 4/26
50°   28°F	55°   36°F	52°   35°F	44°   29°F	36°   26°F	39°   23°F	46°   26°F	52°   33°F	56°   35°F	58°   38°F
									
Sunny	Mostly Cloudy	AM Showers/Wind	Showers	Snow Showers/Wind	Partly Cloudy	Partly Cloudy	Partly Cloudy	Partly Cloudy	Partly Cloudy
0 in	0.26 in	0.06 in	-- in	-- in	0 in	0 in	0 in	0 in	0.04 in

# 2023 Flood Forecast

RED RIVER MAINSTEM	95%	90%	75%	50%	25%	10%	5%	2009	2011	2019	2022
Wahpeton	11.9	12.1	13.1	14.3	15.3	16.4	16.8				
Hickson	27.5	28.1	30.4	32.6	34.0	35.4	36.3	39.0	37.2	34.3	25.0
Fargo	29.5	30.7	32.7	34.2	36.4	37.8	38.6	40.8	38.8	35.0	26.5
Halstad	32.5	33.7	35.7	38.2	39.5	39.9	40.2				
Grand Forks	41.0	41.8	42.9	44.4	46.5	49.2	50.0				
Wild Rice River											
Abercrombie	15.7	16.1	17.5	19.2	21.8	24.0	25.0	27.8	26.0	22.8	14.4
Sheyenne River											
Valley City	11.6	12.0	12.6	13.3	14.3	18.0	19.5	20.7	20.7	15.2	18.1
Lisbon	12.0	12.6	13.2	13.9	15.2	18.5	20.1				
Kindred	16.8	17.2	18.3	19.6	20.5	21.2	21.2	21.6	21.4	20.8	21.1
West Fargo Diversion	16.5	17.2	17.6	19.3	21.3	21.3	21.3				
Harwood	89.3	90.1	91.1	91.5	91.8	92.1	92.2	91.7	91.8	91.3	89.9
Maple River											
Enderlin	11.4	11.6	12.3	12.9	13.2	13.8	14.2	14.1	13.3	12.3	12.4
Mapleton	21.0	21.6	22.0	22.4	22.8	23.2	23.7	23.3	23.2	22.5	21.7

# WILD RICE RIVER (ND) NEAR ABERCROMBIE



High Water Point:

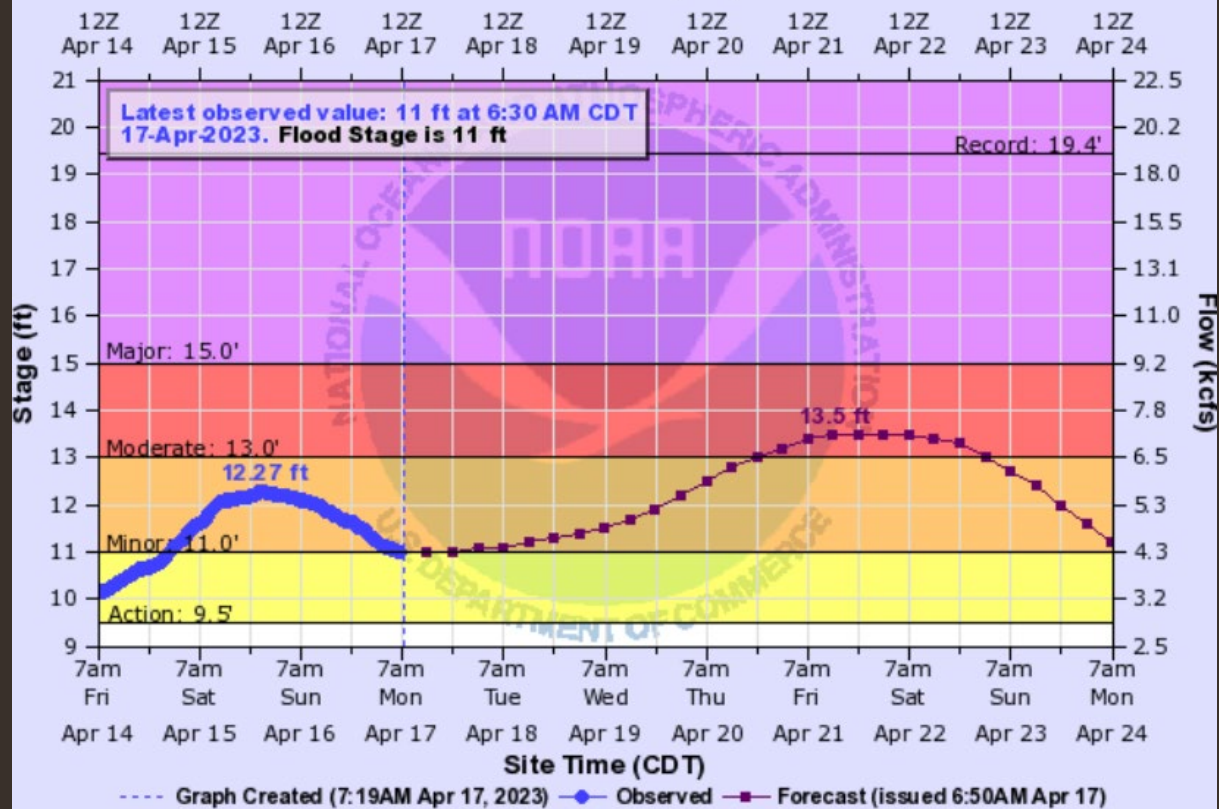
2009 - 27.8'

2011 - 26.0'

2019 - 22.76'

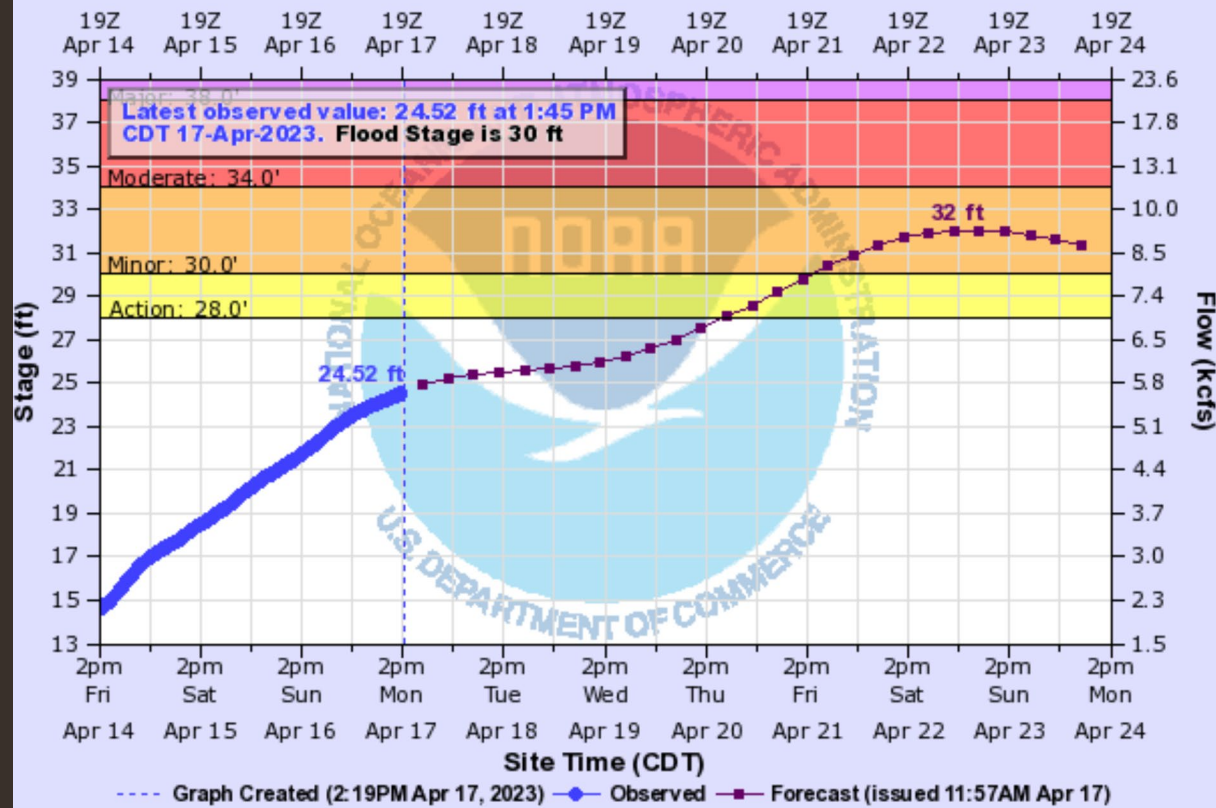
### RED RIVER OF THE NORTH AT WAHPETON

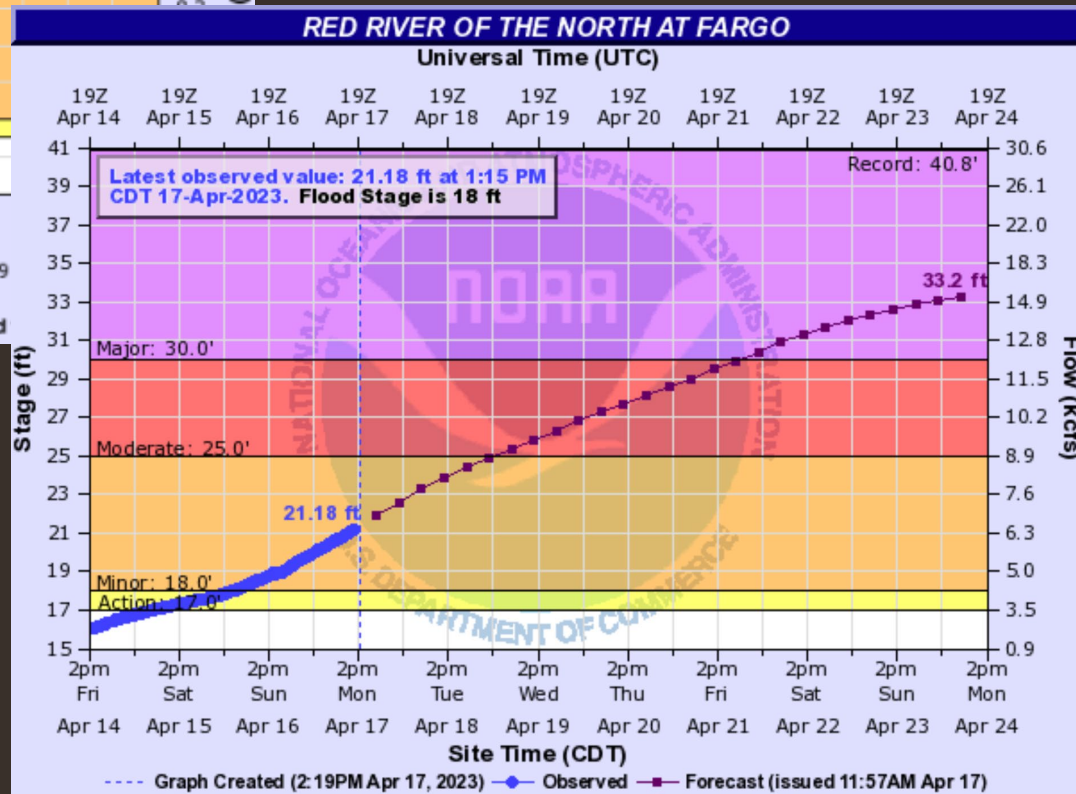
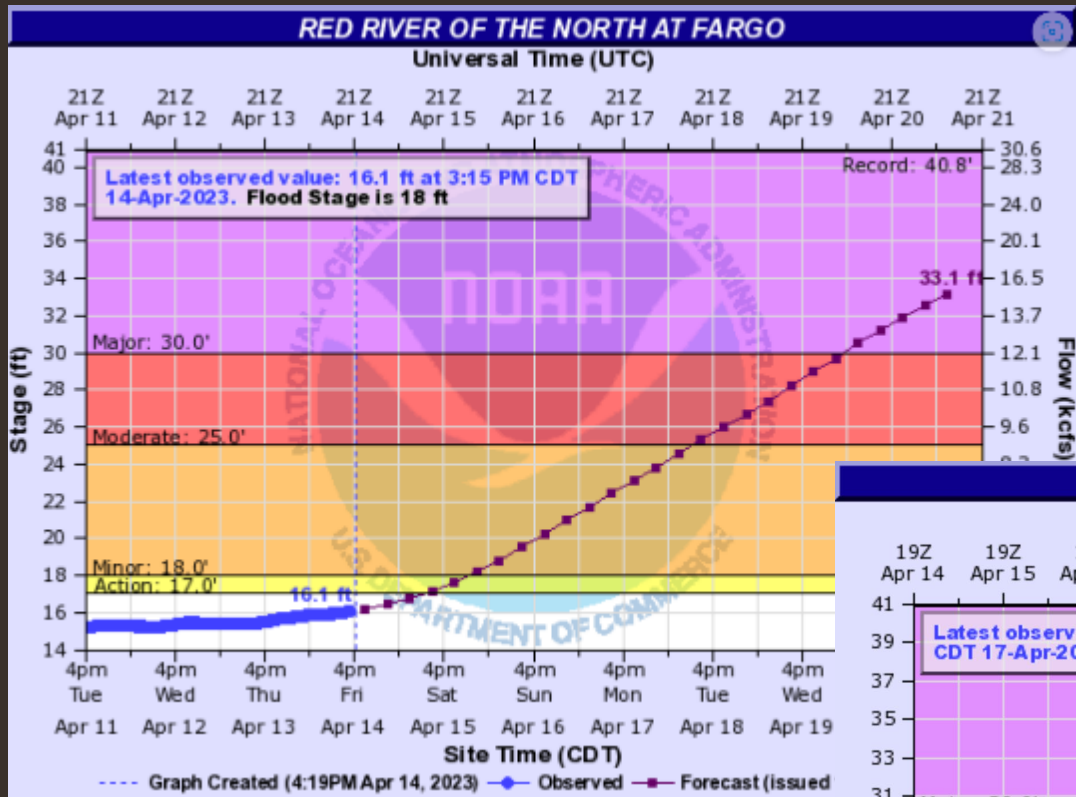
Universal Time (UTC)



### RED RIVER OF THE NORTH AT HICKSON

Universal Time (UTC)





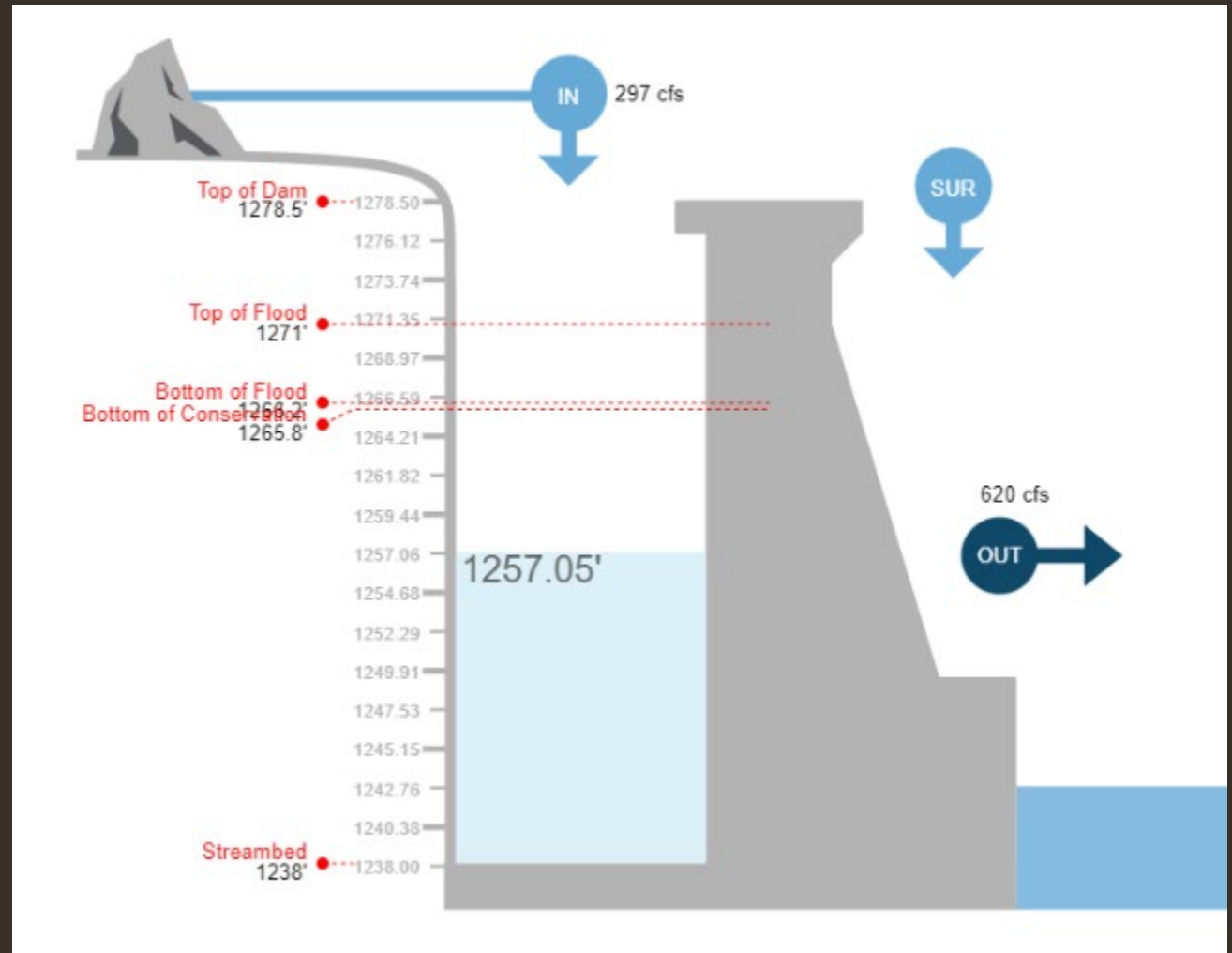
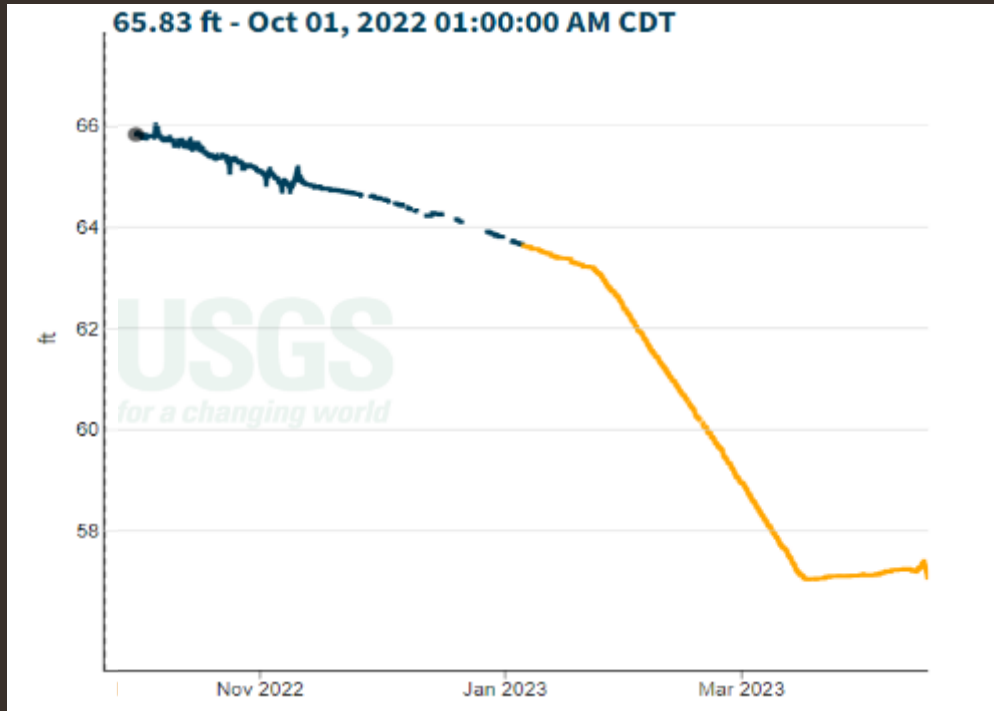
High Water Point:

2009 - 40.8'

2011 - 38.8'

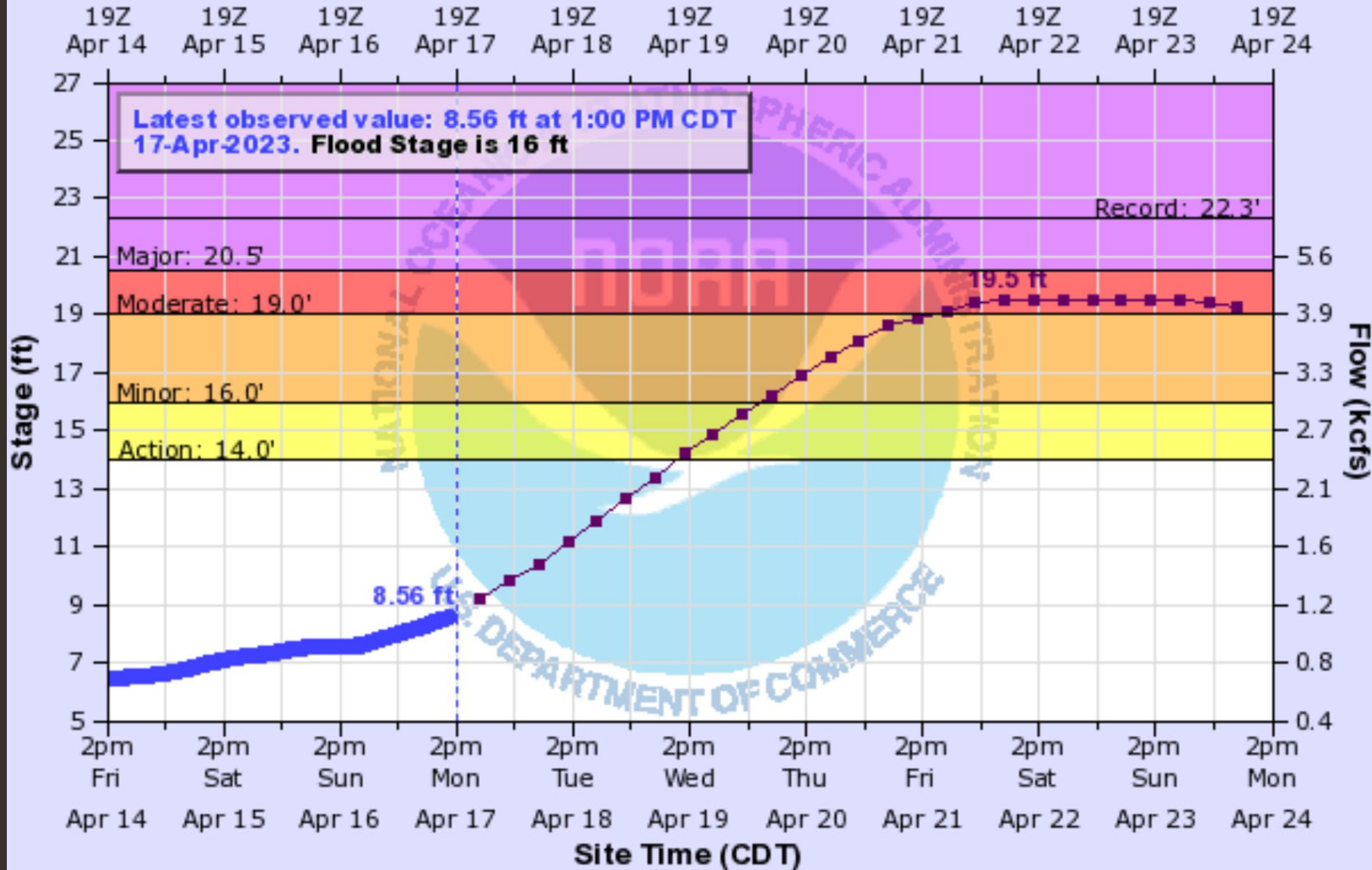
2019 - 34.7'

# Flood Forecast – Sheyenne River Bald Hill Dam



# SHEYENNE RIVER NEAR KINDRED

Universal Time (UTC)



Latest observed value: 8.56 ft at 1:00 PM CDT 17-Apr-2023. Flood Stage is 16 ft

High Water Point:

2009 – 21.6'

2011 – 21.4'

2019 – 20.8'

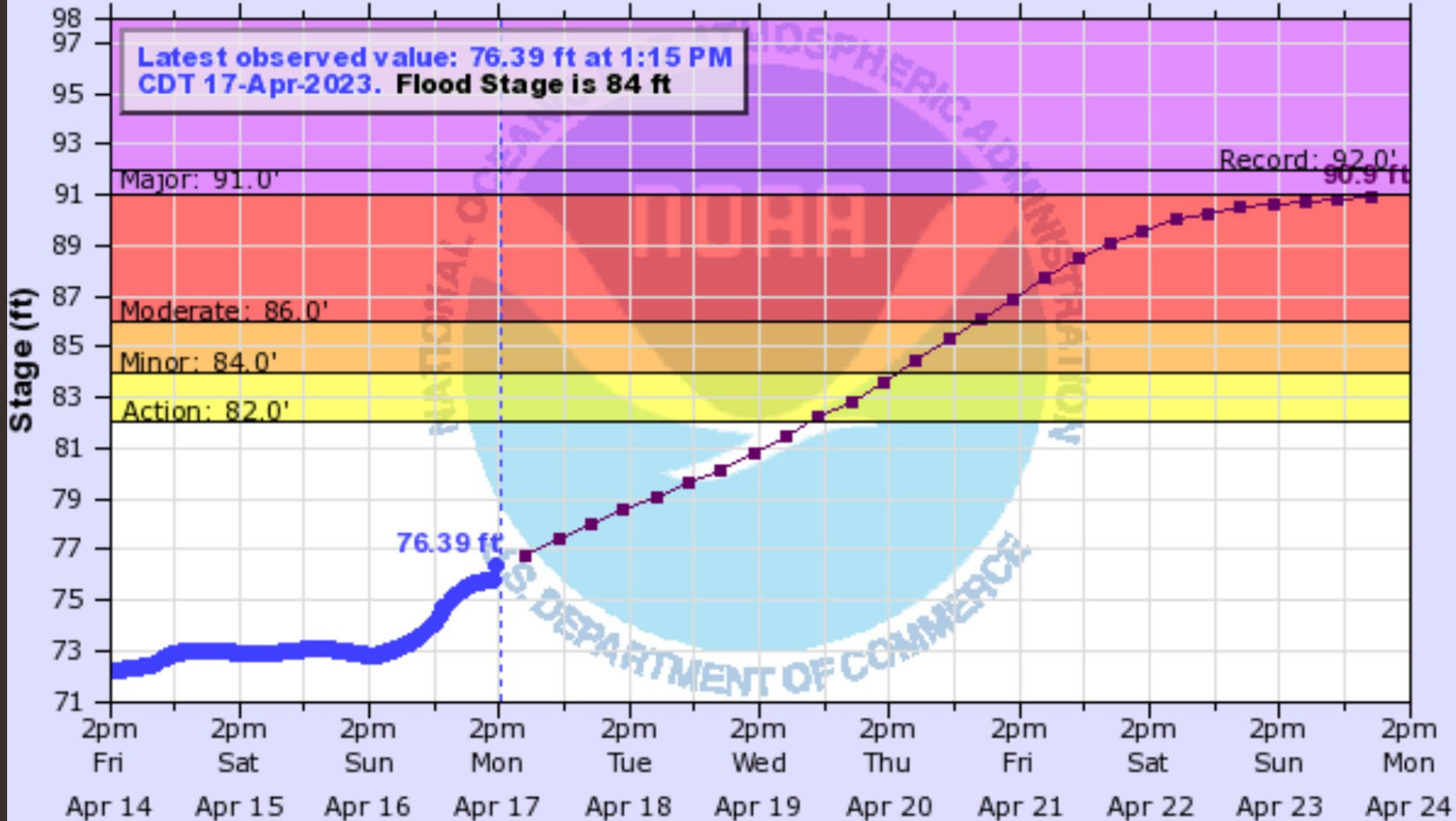
2022 – 21.1'



# SHEYENNE RIVER AT HARWOOD

Universal Time (UTC)

19Z Apr 14 19Z Apr 15 19Z Apr 16 19Z Apr 17 19Z Apr 18 19Z Apr 19 19Z Apr 20 19Z Apr 21 19Z Apr 22 19Z Apr 23 19Z Apr 24



----- Graph Created (2:19PM Apr 17, 2023) ● Observed ■ Forecast (issued 10:49AM Apr 17)

High Water Point:

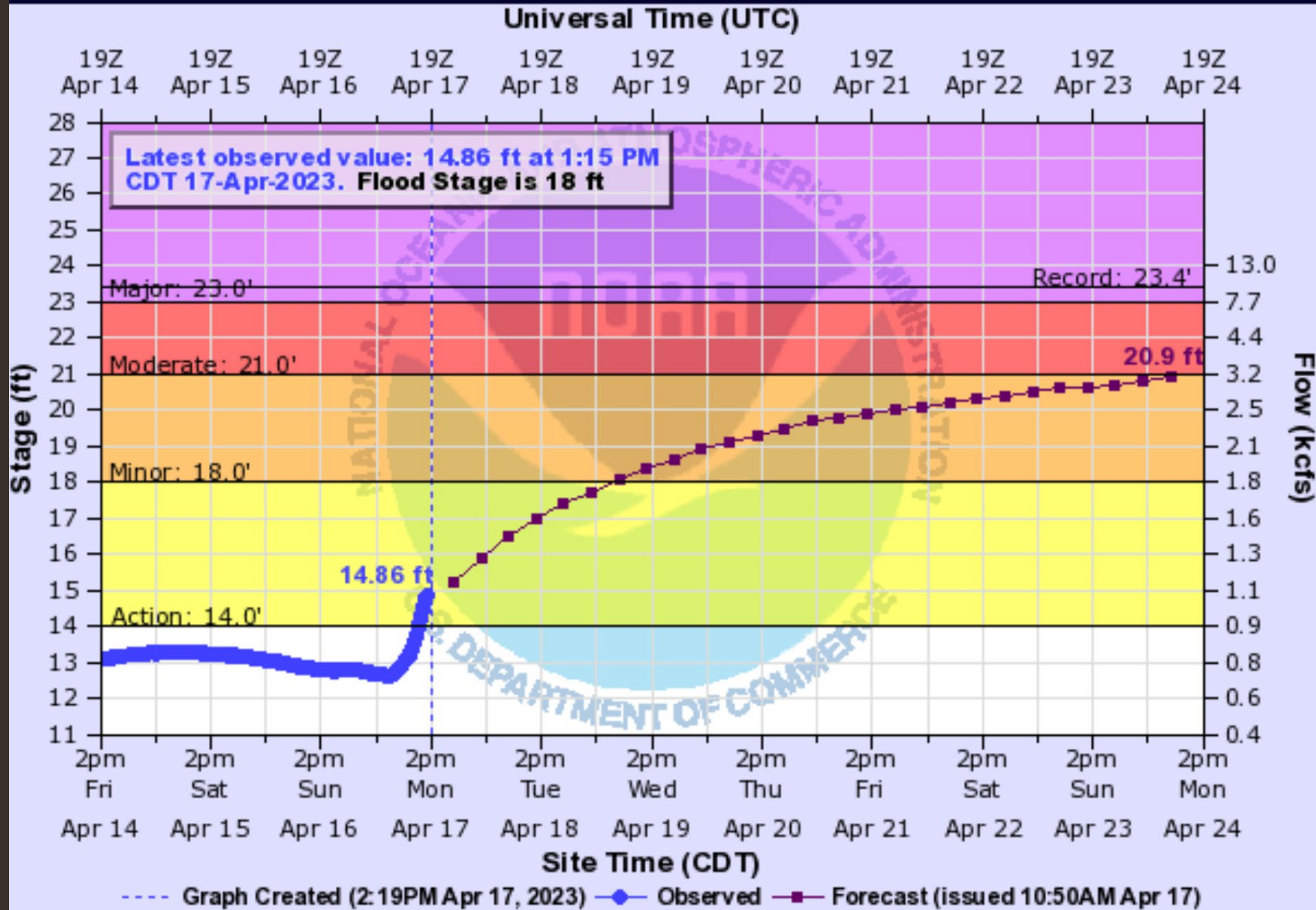
2009 – 91.7'

2011 – 91.8'

2019 – 91.3'

2022 – 89.9'

# MAPLE RIVER (ND) NEAR MAPLETON (SOUTH OF I-94)



**High Water Point:**

2009 – 23.3'

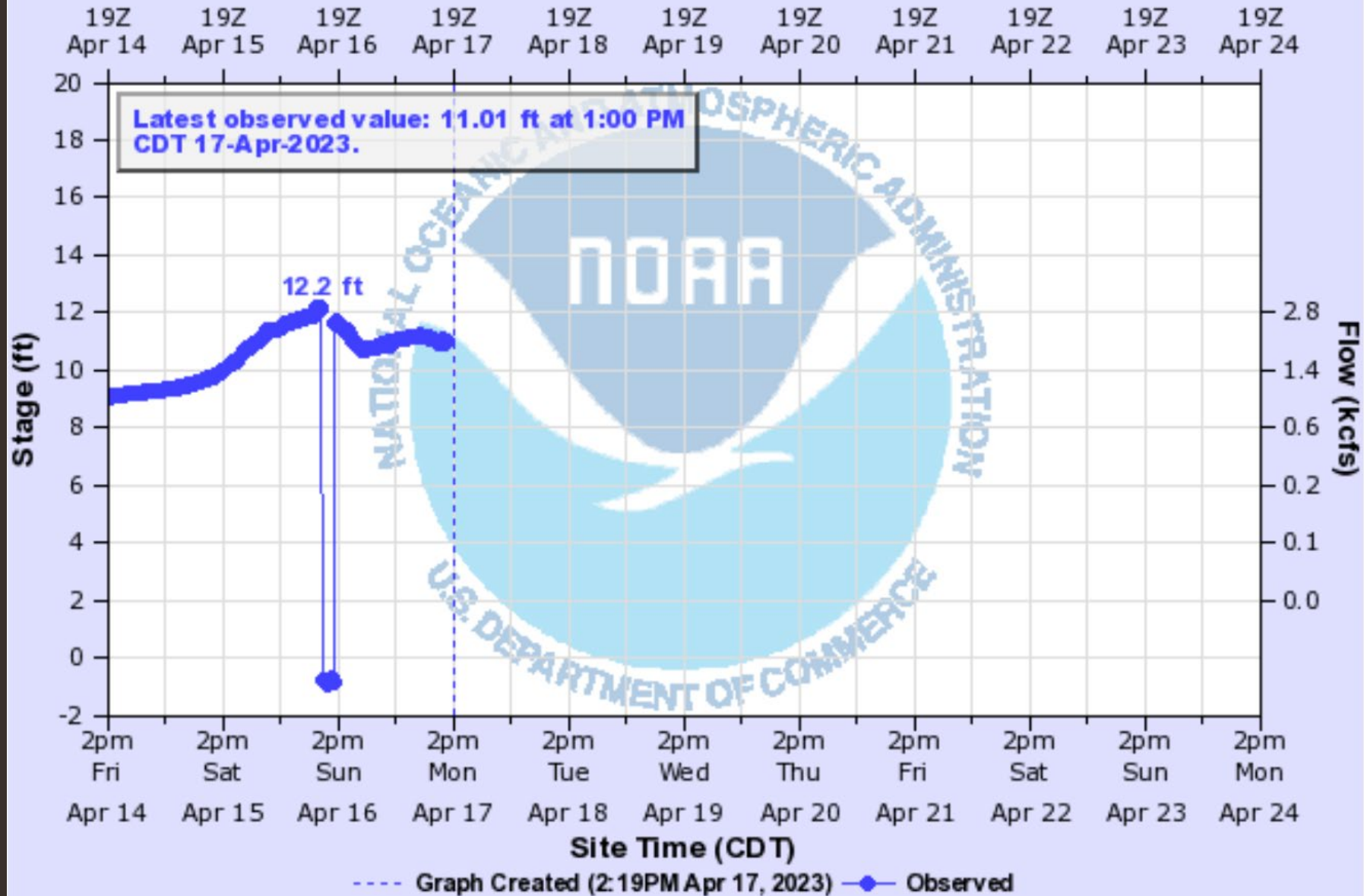
2011 – 23.2'

2019 – 22.5'

2022 – 21.7'

# RUSH RIVER AT AMENIA

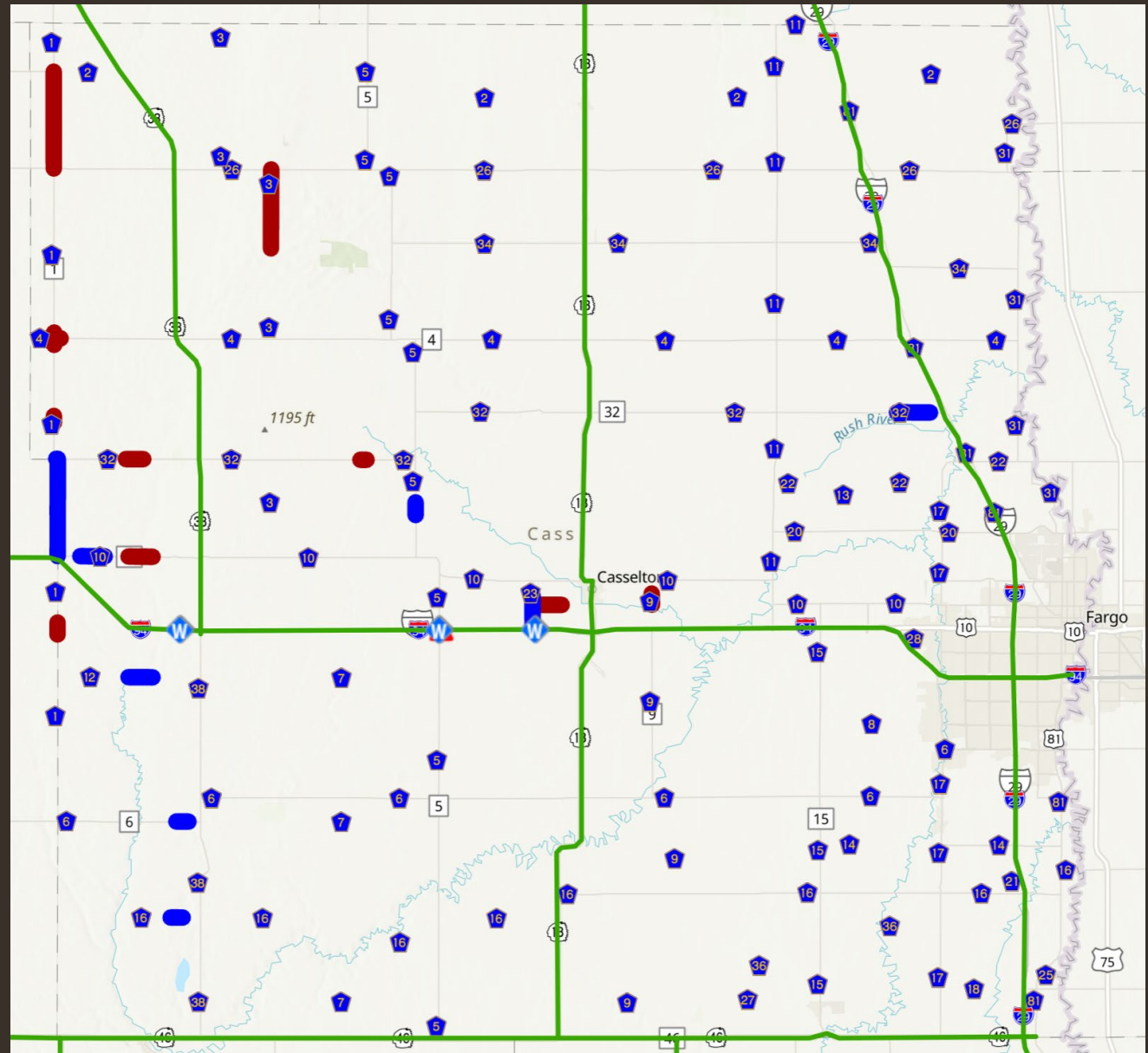
Universal Time (UTC)



2019 High  
Water Point:  
10.9 ft

# Cass County Road Closures or Water Over the Road

-  Road Closed/Water Over Road
-  Local Traffic Only/Speed Reduced
-  Water Over Road



# Sandbag Cass Operations

Sandbag Cass: Goal of  
200,000 sandbags

- i. 200,100 total sandbags
- ii. 80,000 total sandbags sent to  
Fargo

## Volunteers

- i. 2000 Total Volunteers
- ii. 4500 Total Volunteer hours



# Cass County Flood Strategy

- ◆ **No Change based on current NWS Forecast**
- ◆ Red River: temporary levees build to 38' plus freeboard if predicted crest indicates a flood over 36'
- ◆ Sheyenne River:
  - ◆ Harwood gage planning for of 91.5'-92.0'
  - ◆ Kindred 20.5'-21.2'
- ◆ Maple River: south of Mapleton 22.4'-23.2'.
- ◆ Rush River: expect near record flooding
- ◆ Overland Flooding: Prepare for unusual conditions as Ditches & Culverts packed with snow



# 2023 FLOOD FIGHT

CASS COUNTY  
GOVERNMENT



Cass County Departments are currently preparing for flood conditions in Cass County. Residents and property owners are advised to take all necessary precautions to prevent loss of property and serious injury due to rising flood waters. This page will be continuously updated with information about current conditions and Cass County operational status. If you need immediate assistance with flood fighting efforts, please call the Cass County Government Flood Hotline.

Cass County Government Flood Hotline: (701) 241-8000

[Volunteers Needed: Sign up here to fill sandbags](#)

Sandbag Cass Volunteer Info >

Flood Risk Maps and Tools >

Sandbag Request Info v

Sandbag operations start on April 11<sup>th</sup>

[Click here to request sandbags](#)

Sandbag Costs and Sand Distribution:

1. Sandbags are only sold in bundles of 1,000 for \$100, which includes sand delivery. Bundles will not be broken up into smaller quantities.
2. Residents will need to pick up the sandbag bundles at the Cass County Highway Department; 10 cubic yards of sand will be delivered (this will fill 1,000 bags).
3. If residents have bags from previous years, then they may order sand at no charge.
4. A new form is required for each order even if a resident has previously ordered sand/bags.
5. All requests must be made through the link above.

## Sandbag Deployment

- ◇ Filled Sandbags: Prioritize delivering filled sandbags
  - ❖ Homes impacted by our levee construction will get 2000-3000.
  - ❖ For homes in rural subdivisions and rural residents, we will try to deliver 1000 bags per home (based on flood needs and sandbag availability).
  - ❖ Available for emergency delivery.
- ◇ Go online to order Sandbags
- ◇ Empty Sandbag Distribution
  - ◇ 19,000 empty sandbags/loads of sand
- ◇ Filled Sandbag Delivery
  - ◇ 4/13/23 - 8500 filled sandbags delivered
  - ◇ 4/14/23 - 8500 filled sandbags delivered
  - ◇ 4/17/23 - 8000 filled sandbags scheduled
  - ◇ Over the weekend 2000 sandbags went out on emergency runs near Davenport and Grandin

# Rapid Deployable Flood Barriers



We plan to deploy temporary levee construction on Chrisan Blvd and 76<sup>th</sup> Ave/Forrest River Road if the Red River will crest above 35 feet.

- Pre-construction meeting completed on 4/13/2023
  - Install Culvert Closures around 4/24/2023
  - Install Trapbags around 4/24/2023
-



# Cass County South Levees: 25<sup>th</sup> St, 88<sup>th</sup> Ave, and Cass 81

Only needed for  
a flood over 35 ft



# Public Meetings

- ◆ ON HOLD - Meeting for residents south of Fargo along the Cass 81 corridor at Bennett Elementary, may reschedule for early next week
- ◆ Meetings have been completed in Kindred and Harwood
- ◆ Once the river levels start to rise, we will provide video updates on our website and Facebook



<https://www.casscountynd.gov>

# Cass County Contingency Plans: Tactical Operations Center



- ◆ Tactical Operations Center:
  - ◆ Prepared to activated around 32'-34' on the Red River at Fargo
  - ◆ Monday - 4/24/23
  - ◆ Flood Hotline currently transferred to the Highway Department from 8am-5pm
  - ◆ After hour calls will be transferred to on-call staff

**Hotline: 701-241-8000**



Airboat and Rescue Response Teams should be prepared to be on call and ready after April 17<sup>th</sup>



Be Prepared and be  
Flood Safe!

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[www.casscountynynd.gov](http://www.casscountynynd.gov)

Hotline: 701-241-8000