2025 STATEWIDE FLOOD PREPAREDNESS MEETING

March 6th, 2025

Illinois Department of Transportation

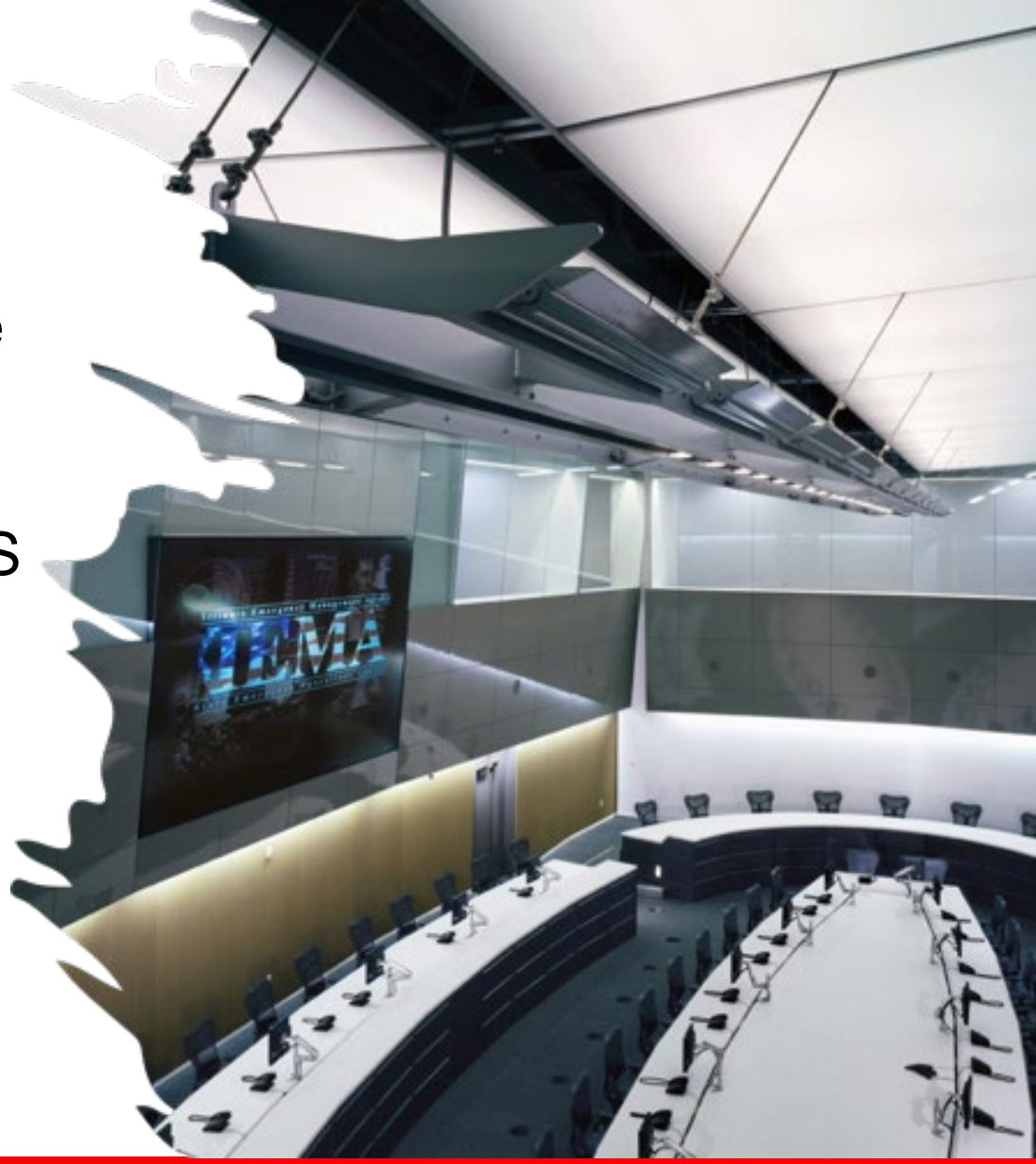
ILLINOIS DEPARTMENT OF NATURAL RESOURCES

Welcome to the Flood Workshop

Please remember to MUTE your line

AGENDA

- Welcome/Opening remarks
- 2025 Flood Outlook: National Weather Service
- US Army Corps of Engineers
- Illinois Department of Natural Resources
- IEMA-OHS Operations – Field Ops, SEOC, GIS
- Illinois Department of Corrections
- Illinois Department of Transportation
- IPWMAN
- IEMA-OHS Recovery Division
- IEMA-OHS Public Information Officer
- Questions & Answers
- Closing Comments



Welcome/Opening Remarks

Clayton Kuetemeyer

Deputy Director of Emergency Management

Flood Outlook

Darrin Hansing

NOAA National Weather Service

2025 Spring Flood Outlook

Illinois Flood Workshop

March 6, 2025

WEATHER-READY NATION

NATIONAL WEATHER SERVICE
OCEANIC AND ATMOSPHERIC ADMINISTRATION

Lincoln, Illinois

Spring Flood Outlook - BLUF

Bottom Line Up Front

Near normal to below normal flood risk

Information based on second issuance of the 2025 Spring Flood Outlook - Feb 27th

Spring Flood Outlook

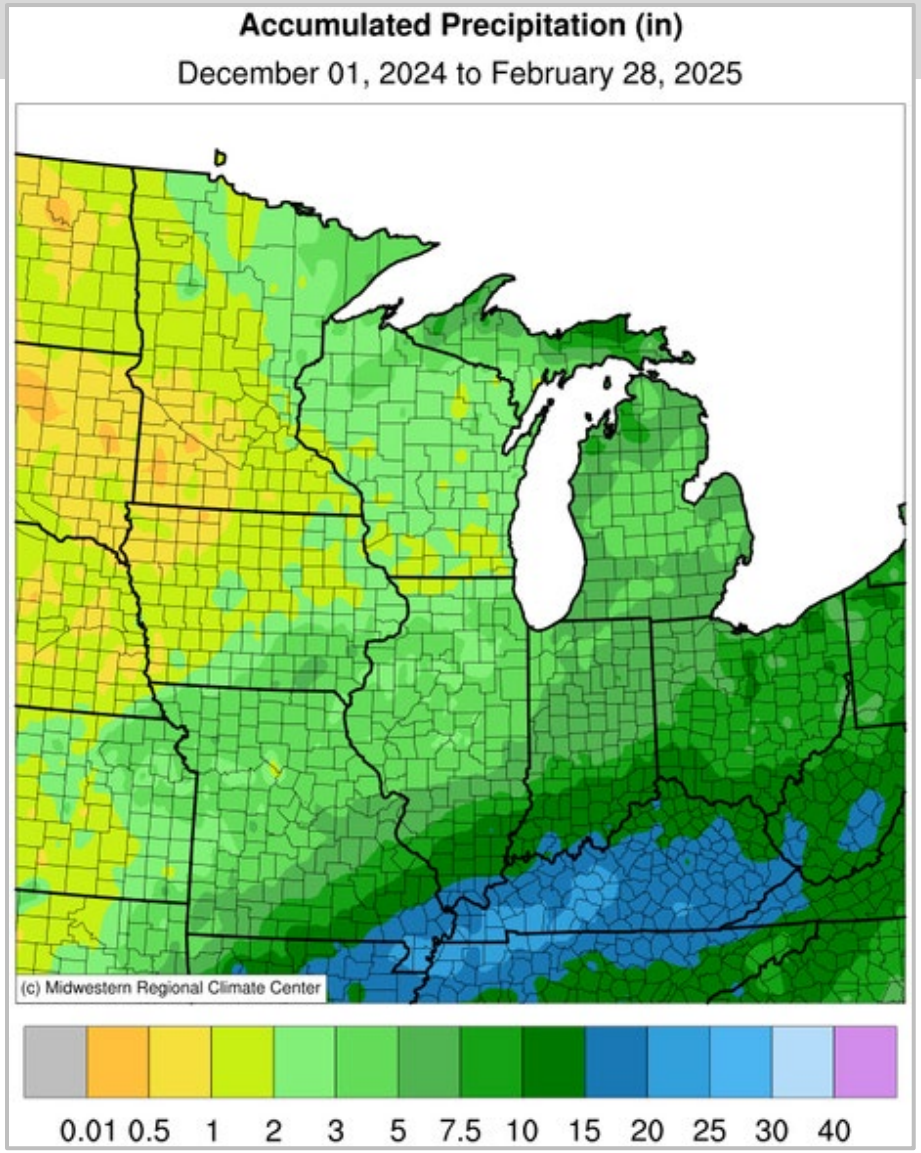


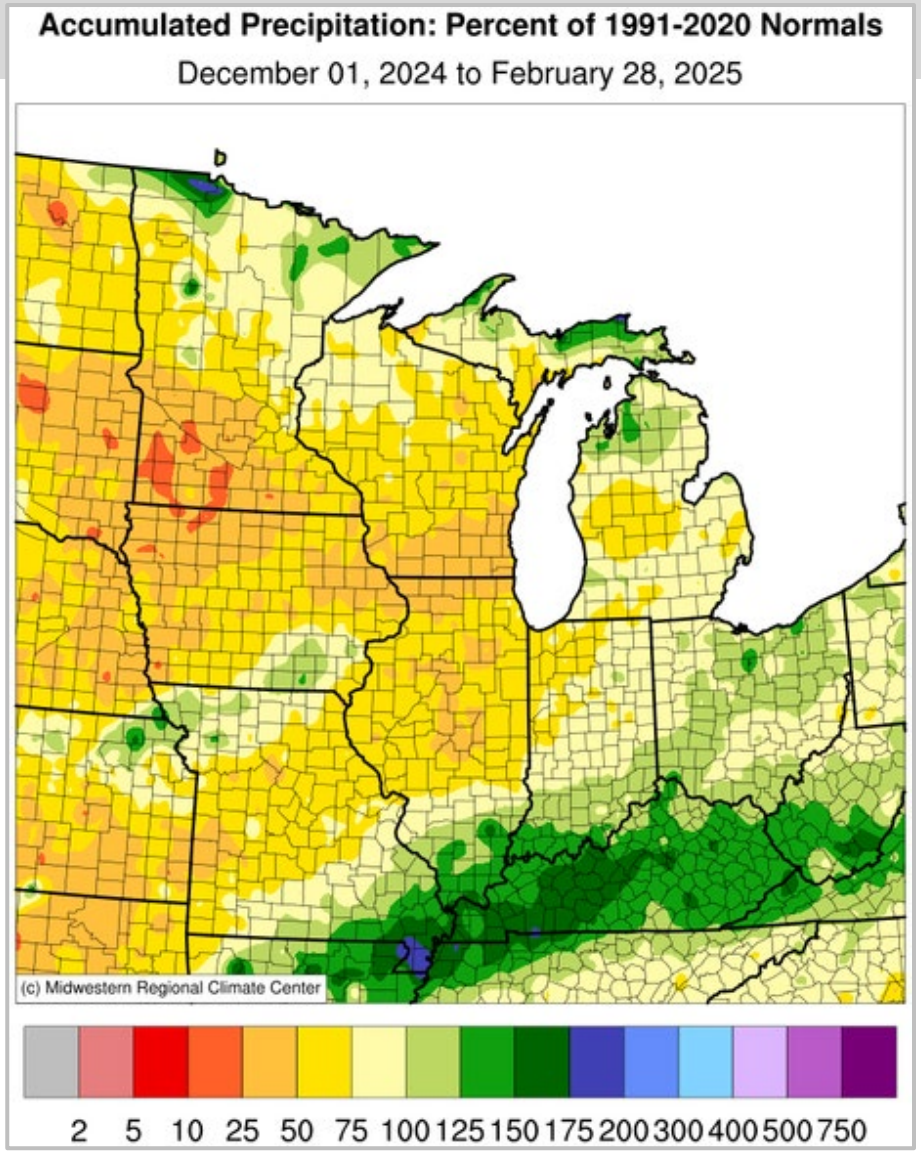
Factors we look at for spring flood potential:

- Recent precipitation in major river basins
- Current snow pack/snow water content information
- Current river streamflow conditions
- Soil temperature/moisture conditions
- Short / Long range temperature & precipitation outlooks

Winter Precipitation Review

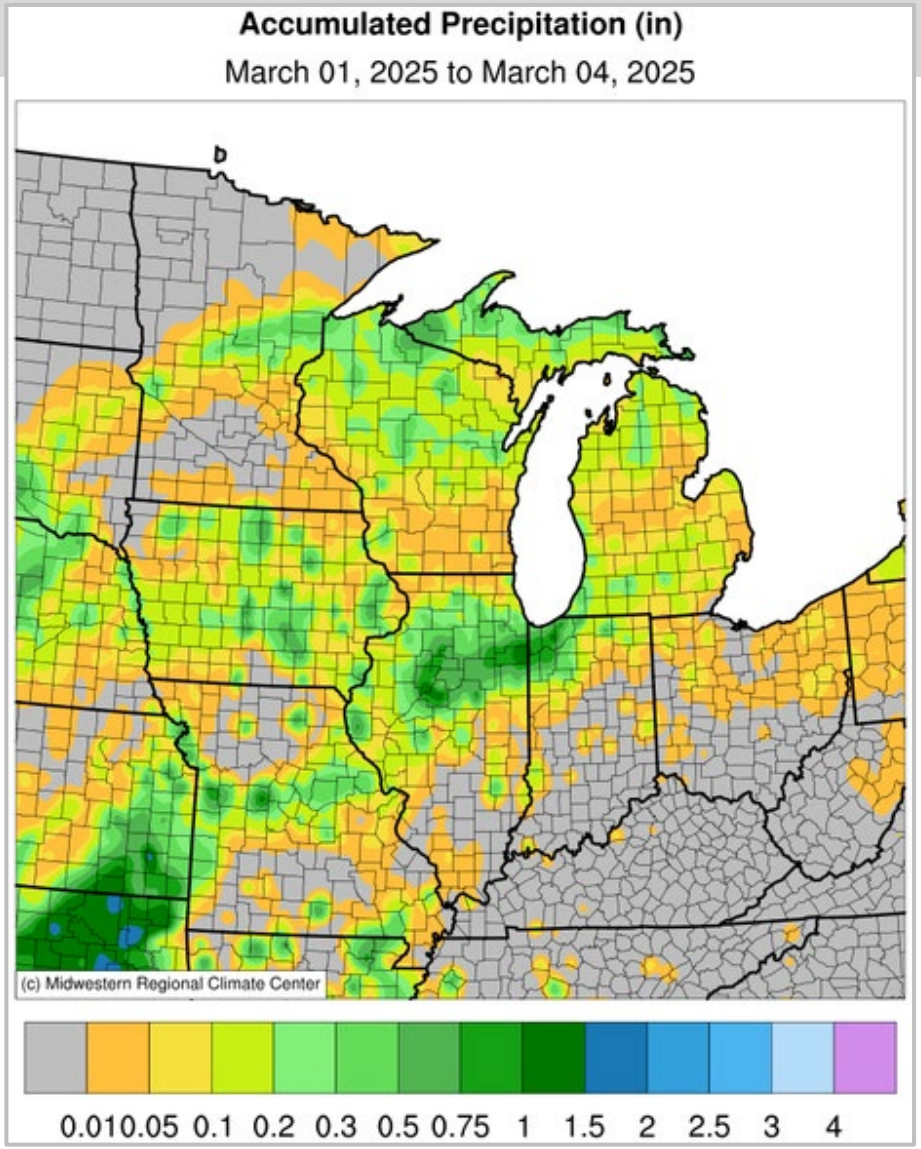
Winter Precipitation: Dec - Feb

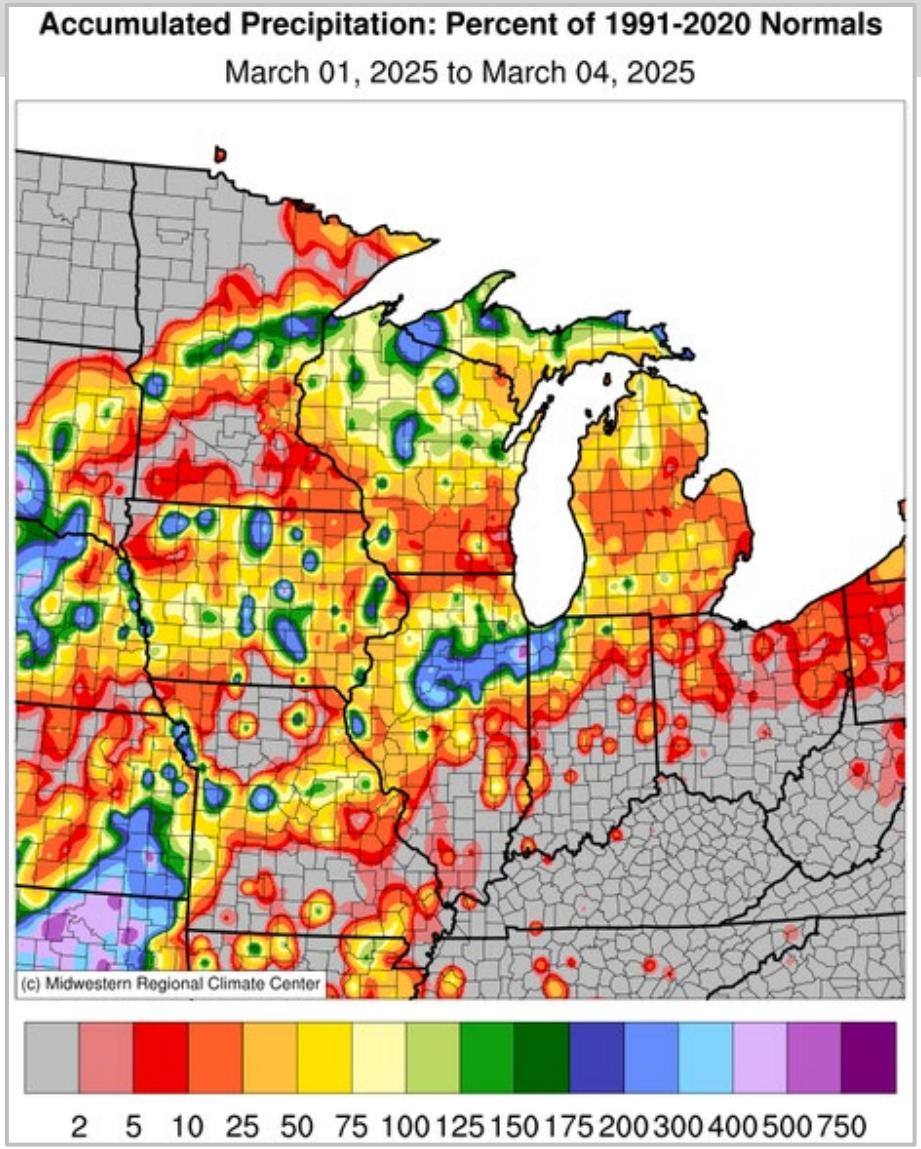




MRCC
Midwestern Regional Climate Center
https://mrcc.purdue.edu/

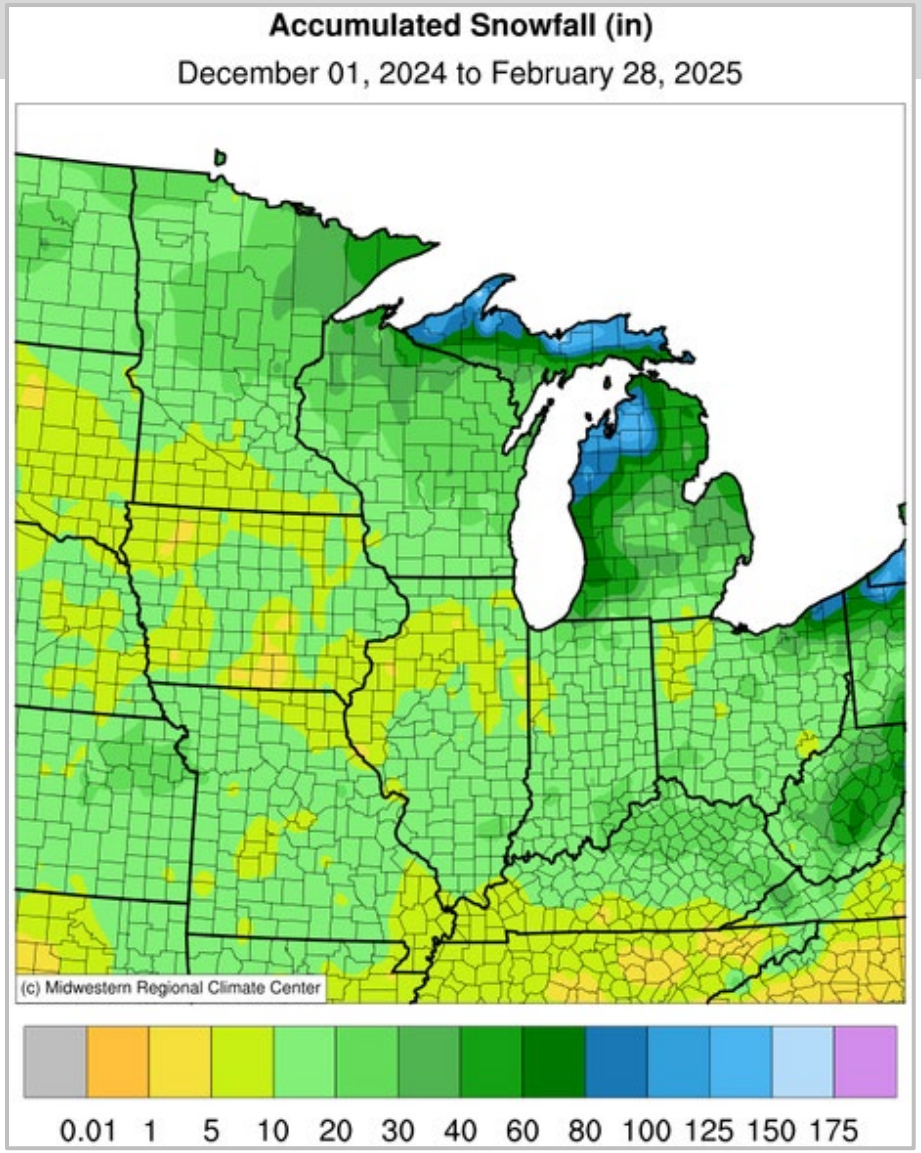
March Precipitation

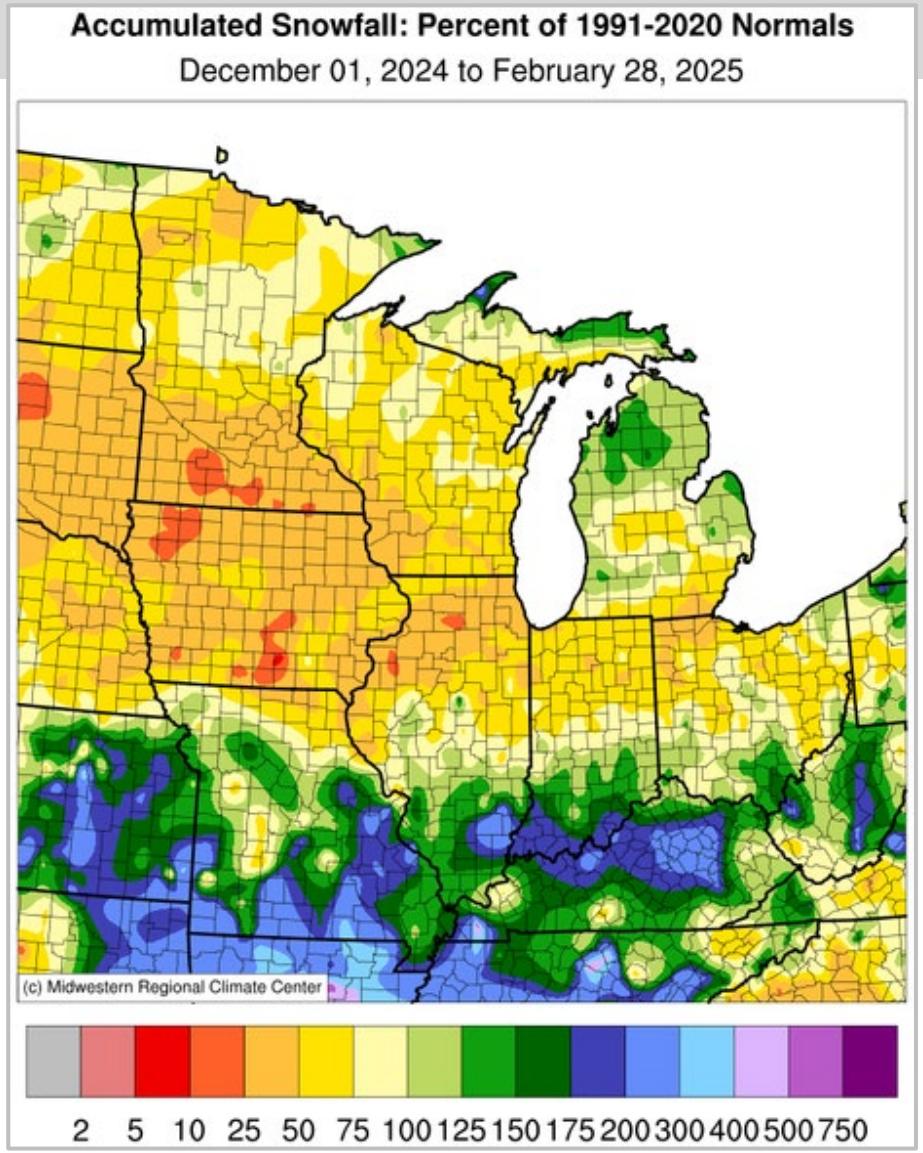




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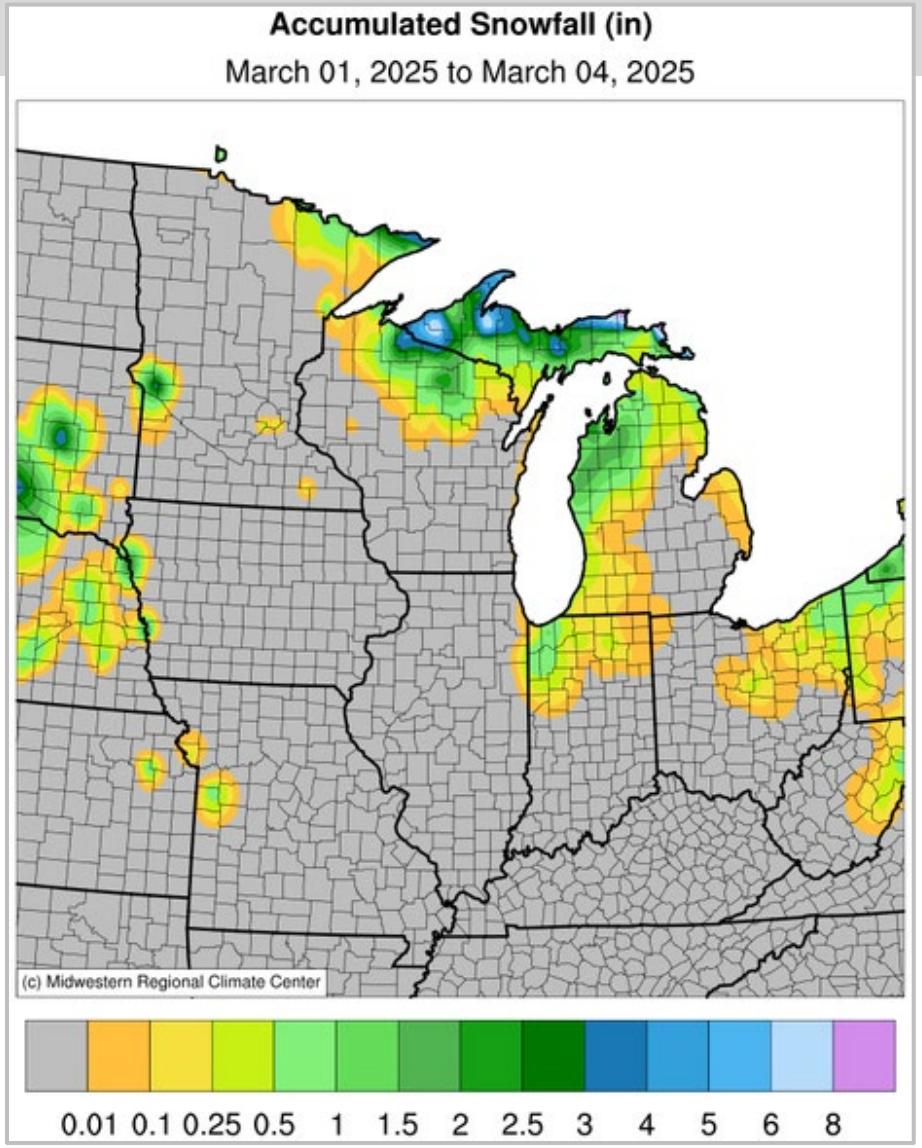
Winter Snowfall: Dec - Feb

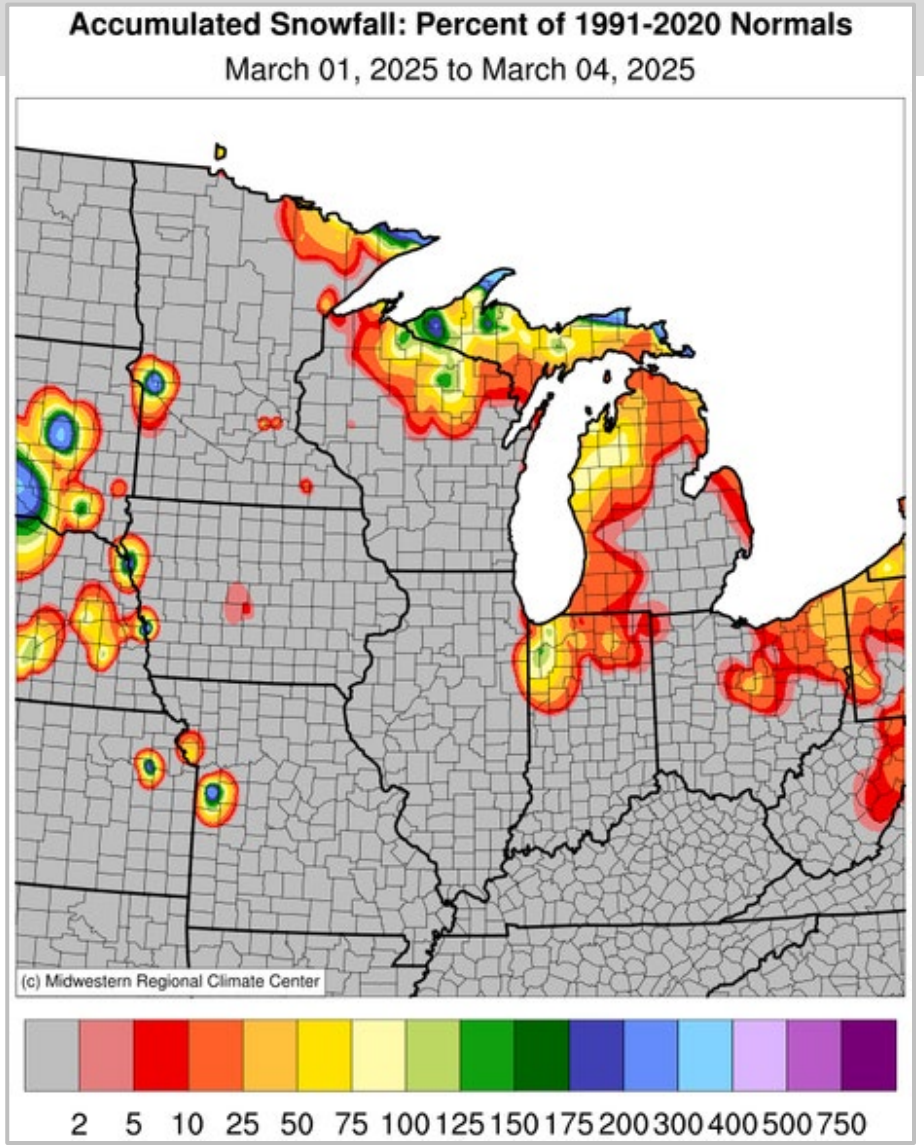




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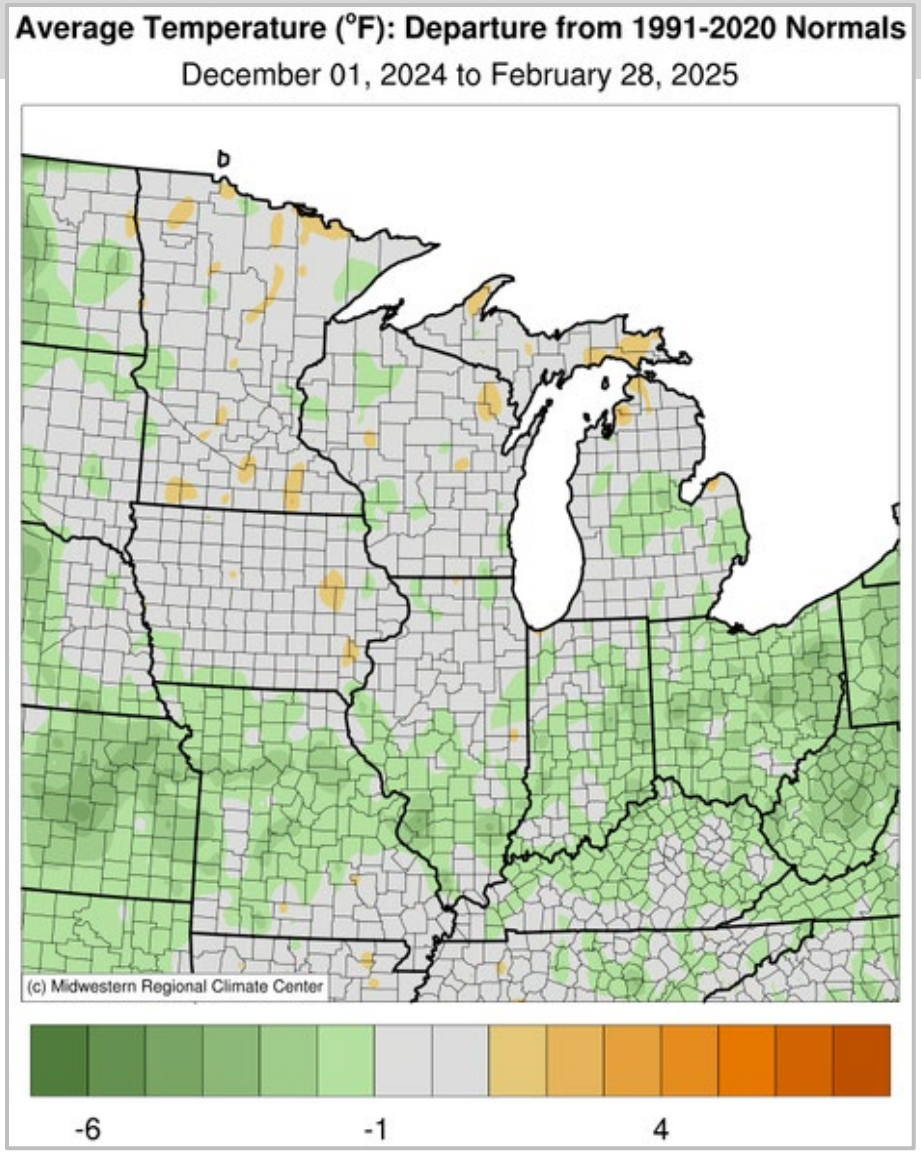
March Snowfall

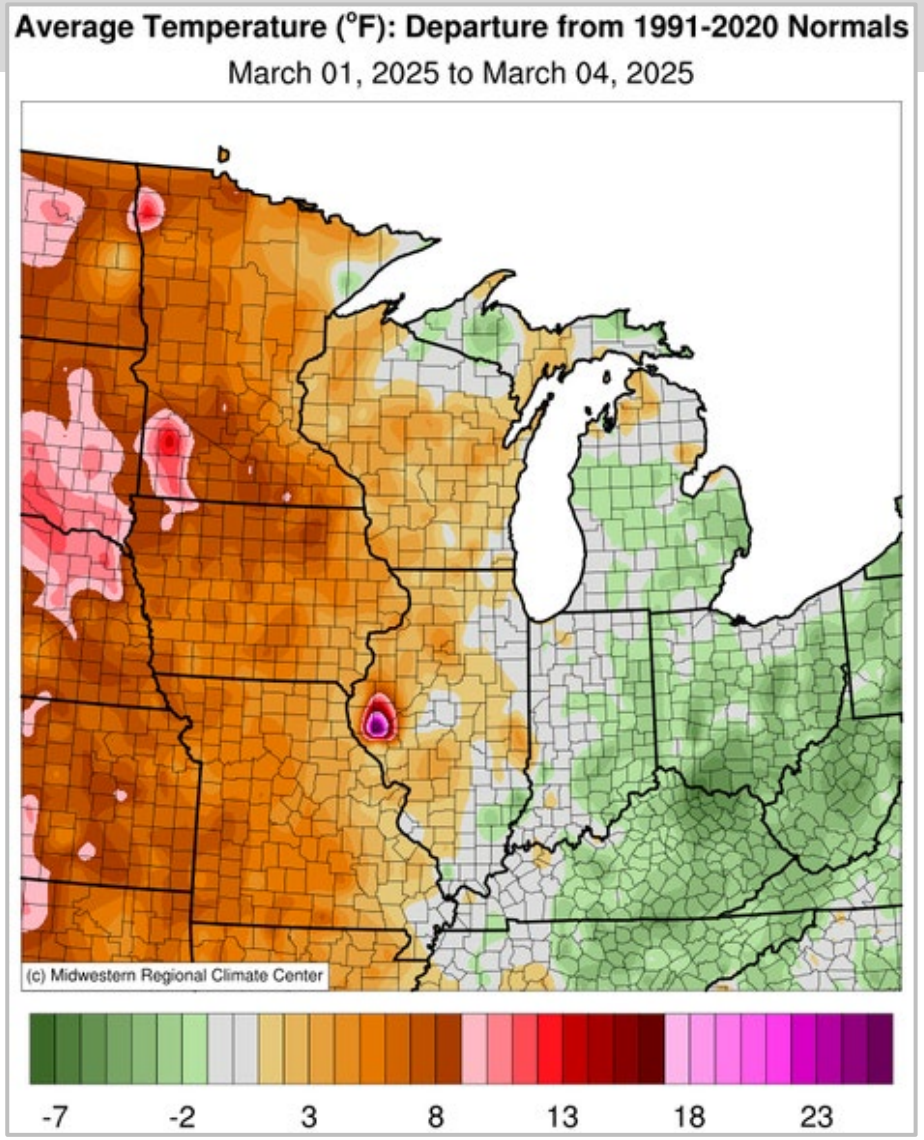




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Temperatures: Winter Season / March

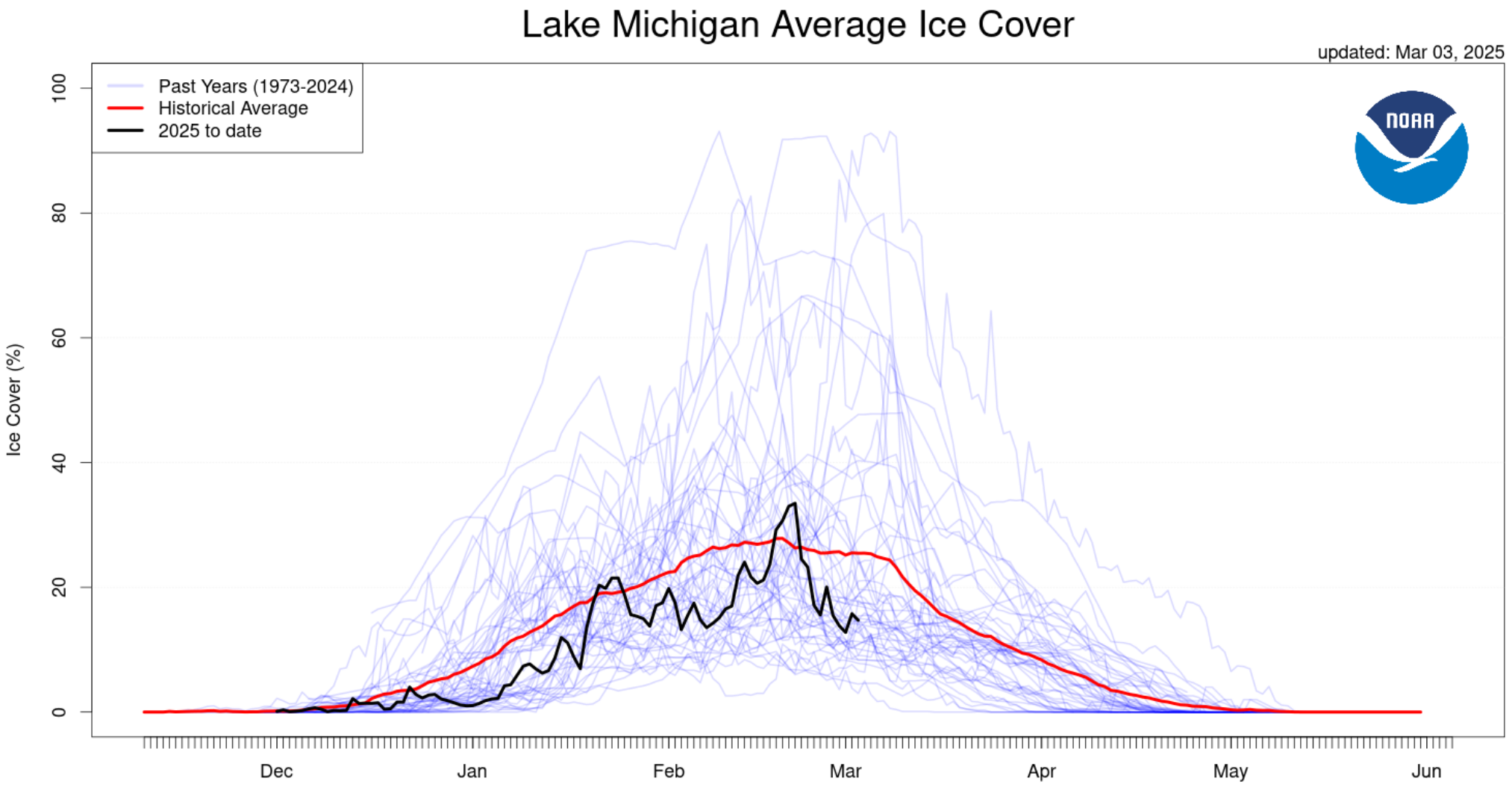




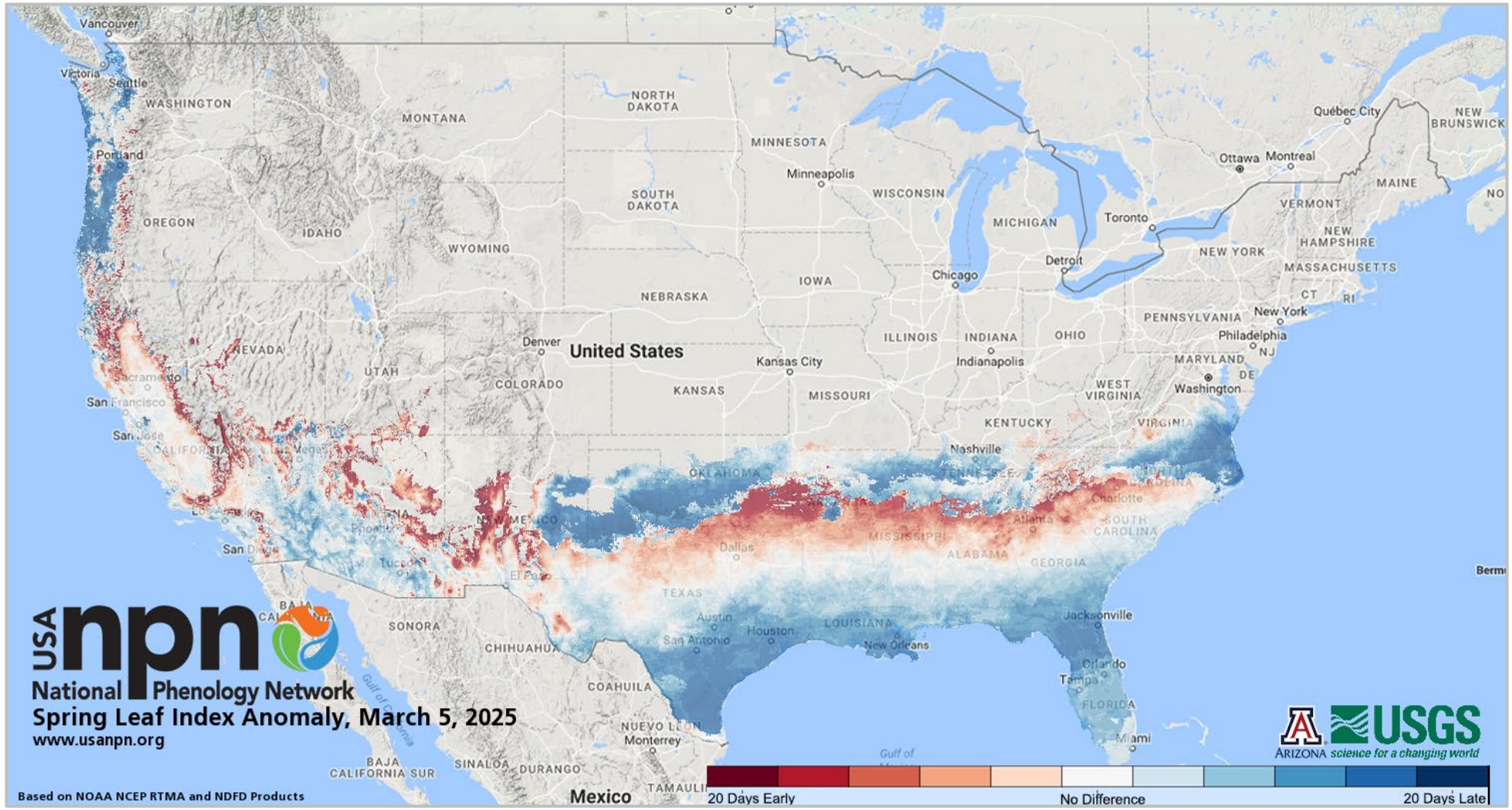
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Very Warm Winter

Lake Michigan: Average Ice Cover



Early Spring Leaf Out



Snowpack / Soil / Streamflow Conditions

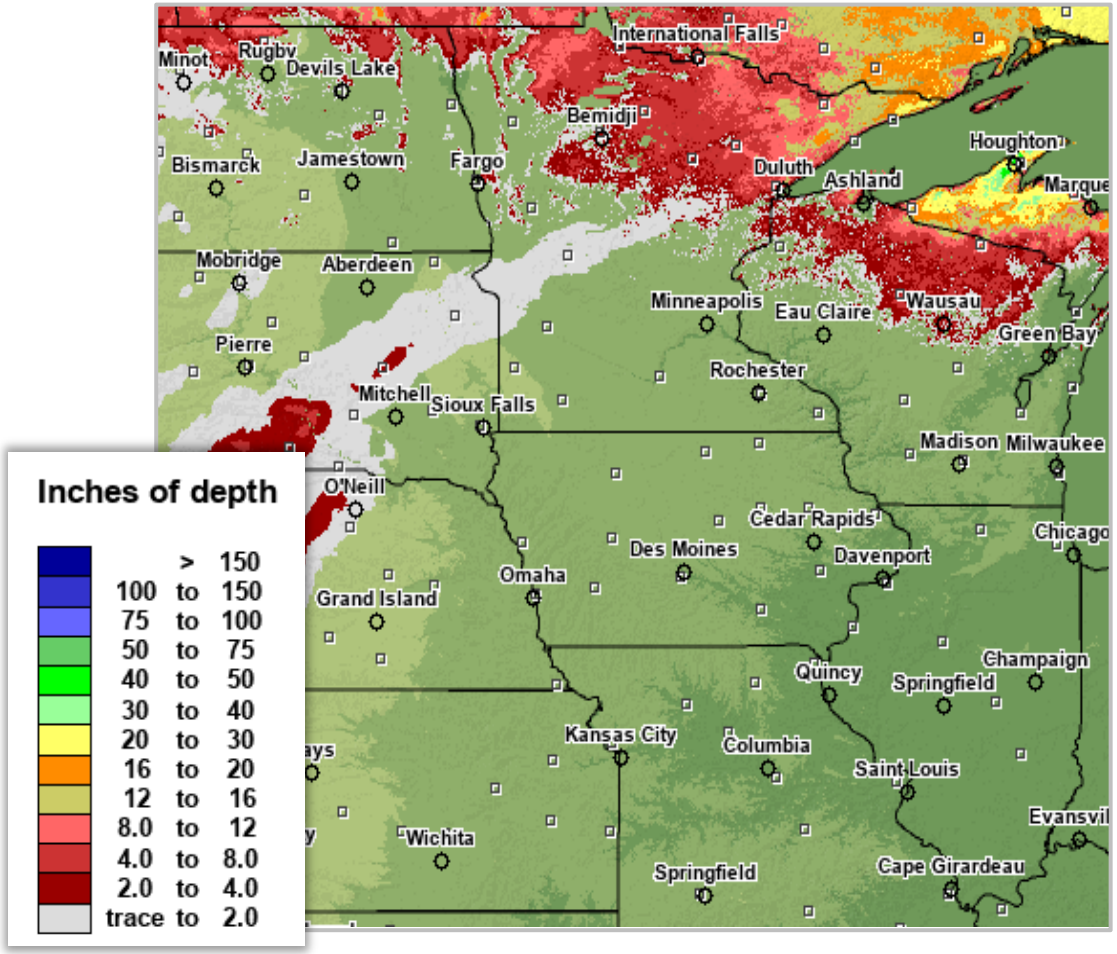
(Additional contributing factors to spring flooding)

Modeled Snow Depth

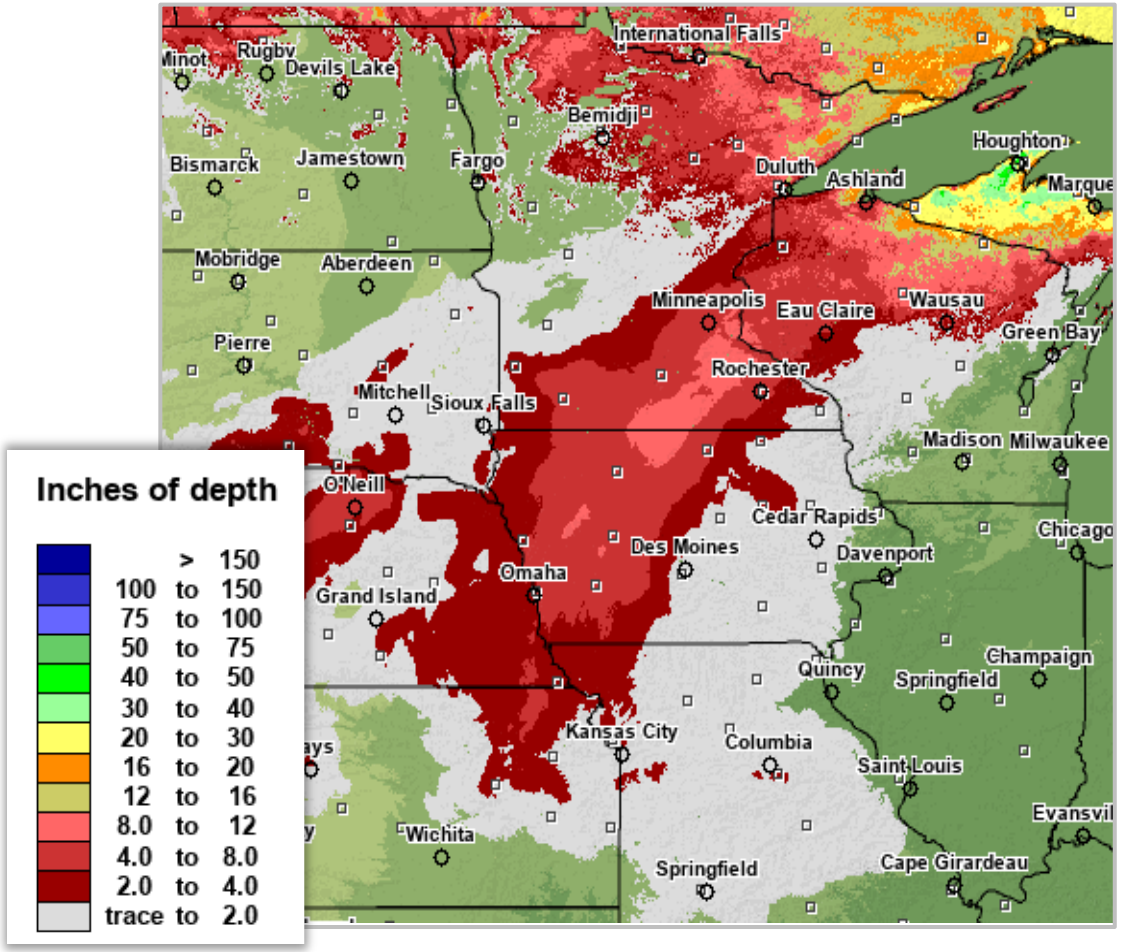
March 4th vs 5th

https://www.nohrsc.noaa.gov/

March 4th



March 5th

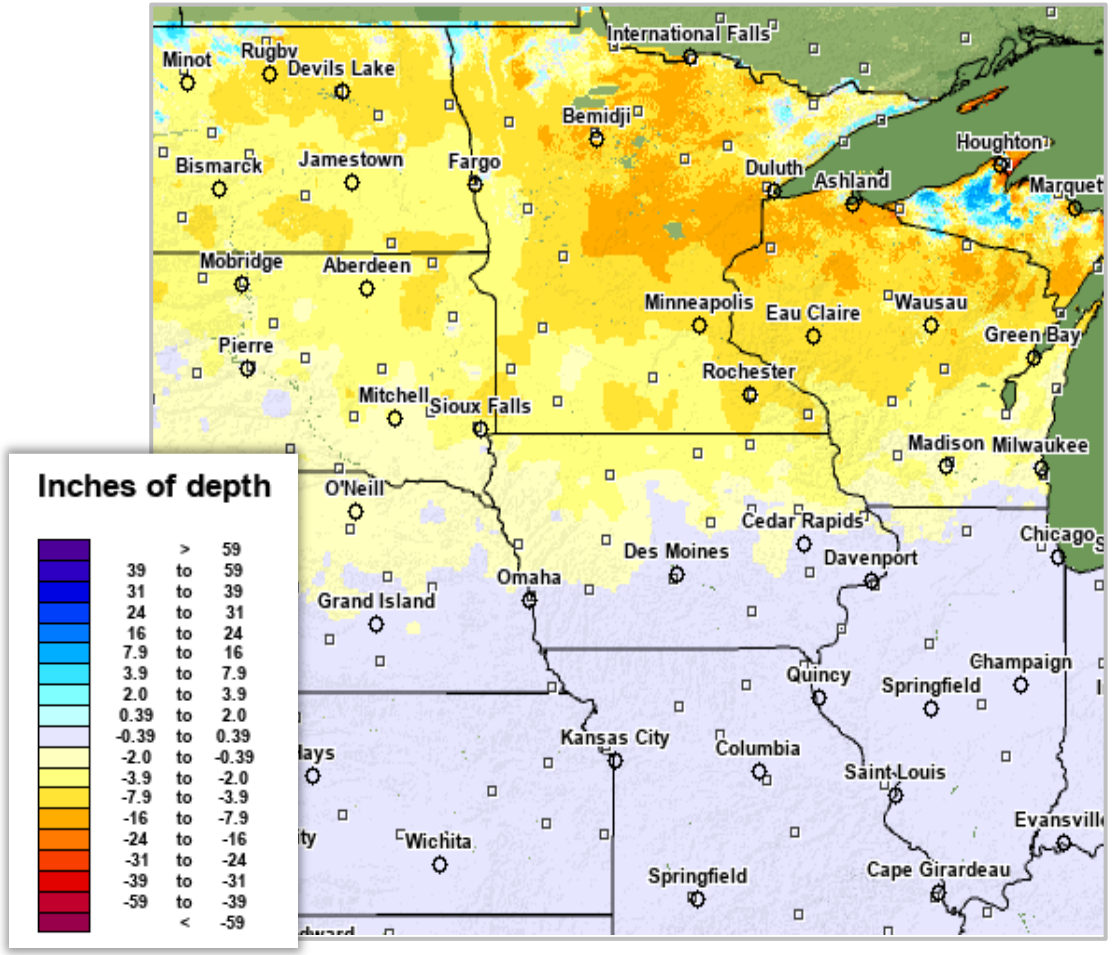


Modeled Snow Depth Compared to Normal

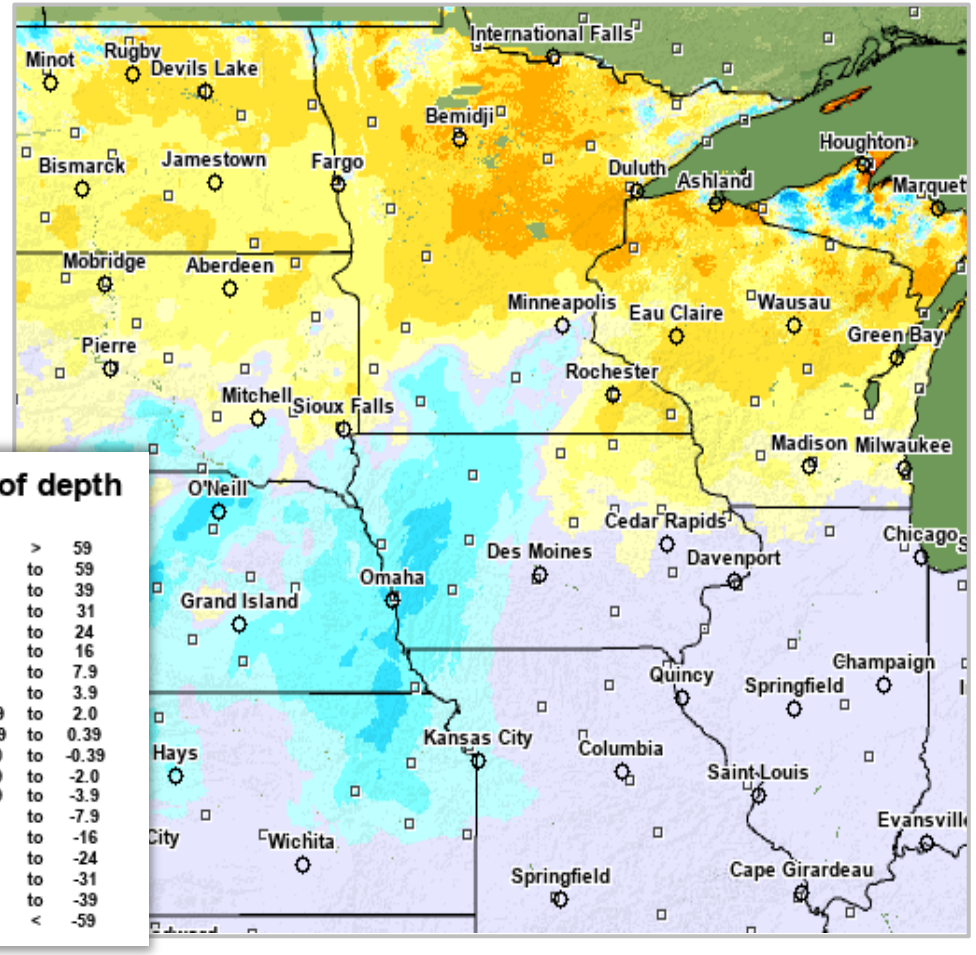
March 4th vs 5th

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March 4th



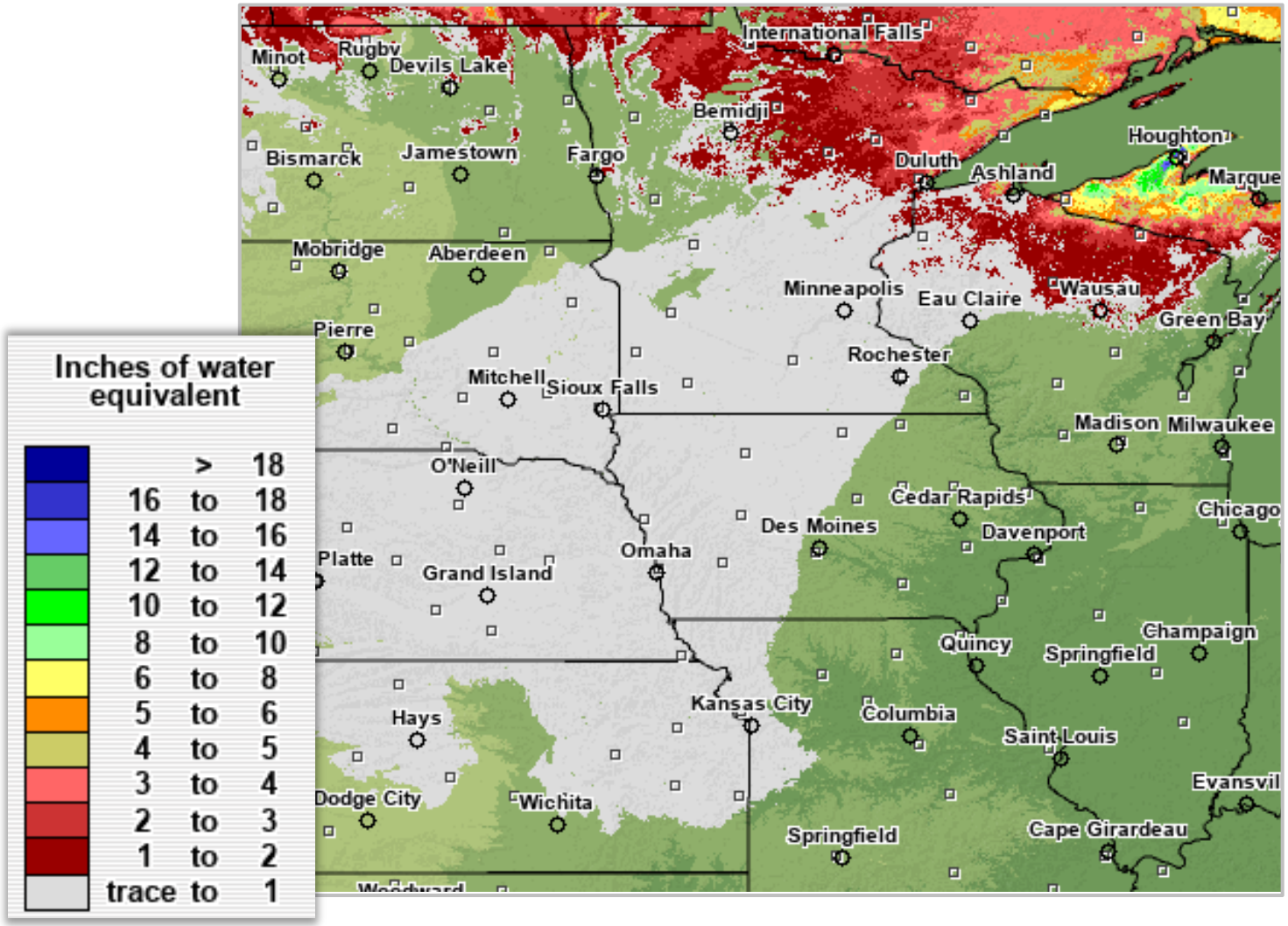
March 5th



Modeled Snow Water Equivalent

March 5th

https://www.nohrsc.noaa.gov/

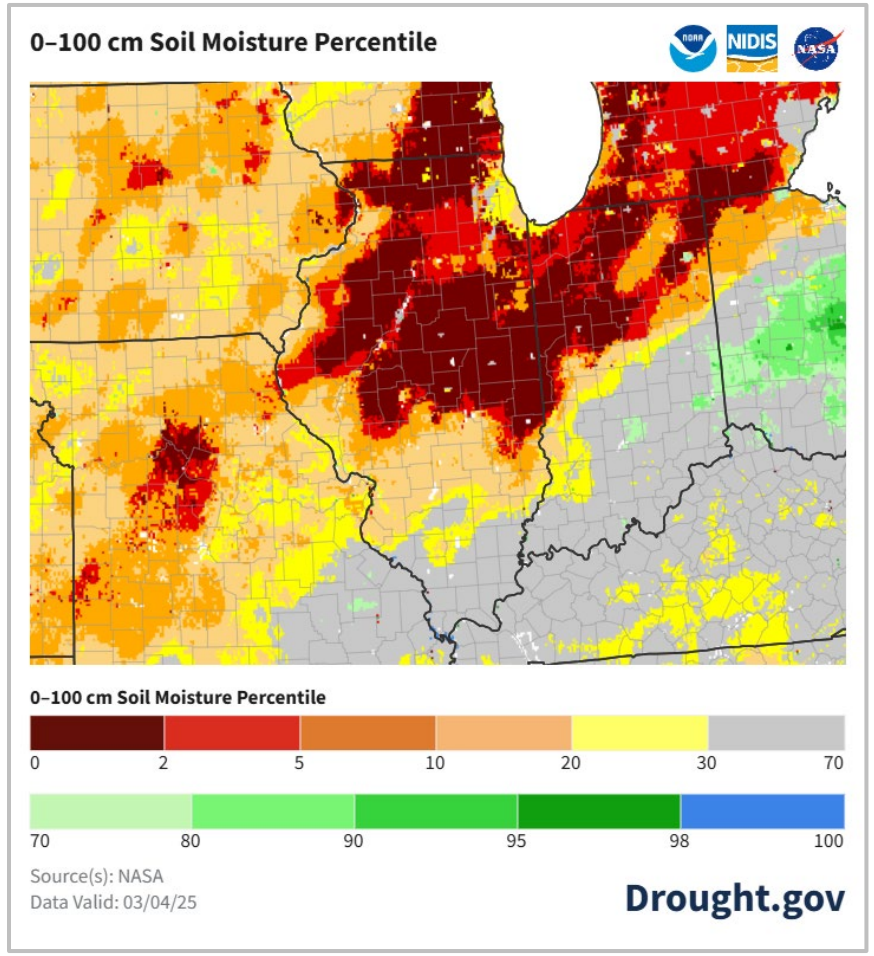


Soil Moisture Conditions

March 5, 2025

https://www.drought.gov/

Deep Layer (down to 39”)

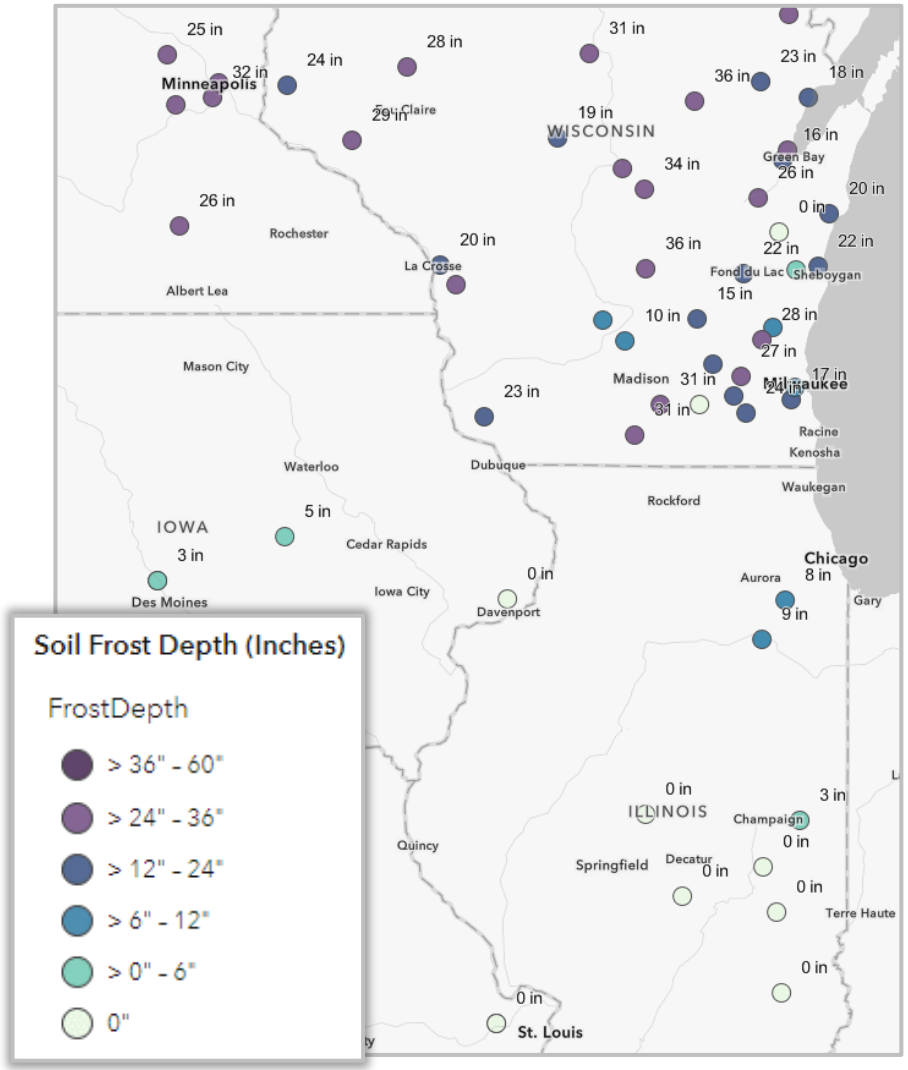


Soil Moisture

- Deep layer moisture deficits across northern three-quarters of Illinois
- Near normal across the remainder of the state

Frost Depth

March 4, 2025

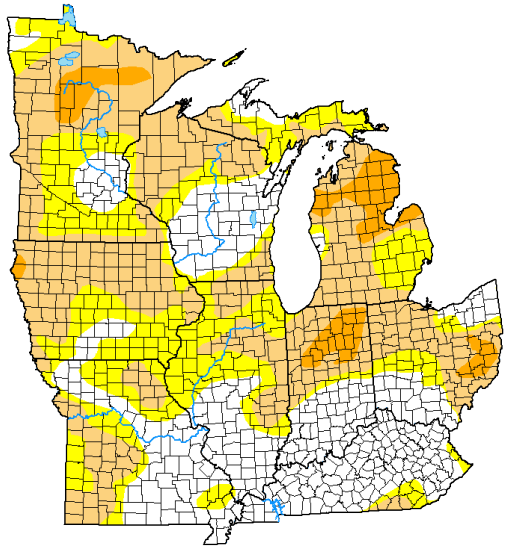


Frost Conditions

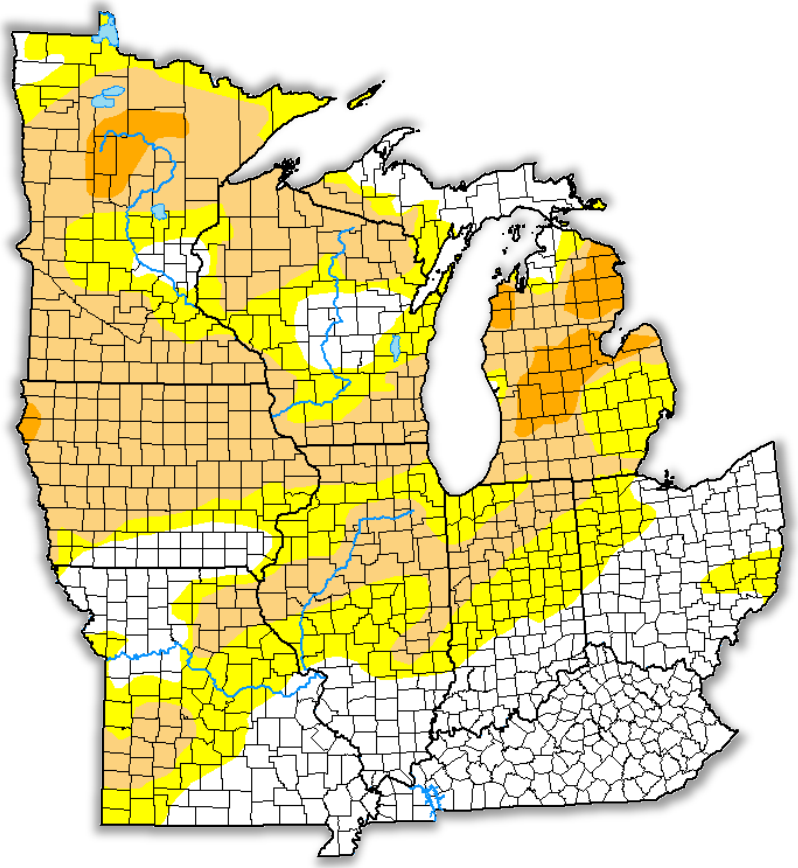
- Northern Illinois
  - Thawing frost in the top few inches
  - Depths of 6” - 9”
- Central and southern Illinois
  - No frost observed
- Upper Miss. Basin: Above normal frost
  - As much as 2’ - 3’ in depth
  - Thawing should continue over the coming week

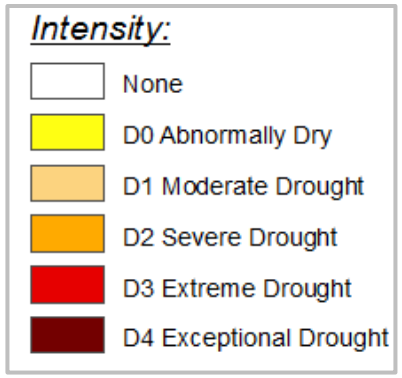
Drought Monitor

December 5, 2024



February 27, 2025

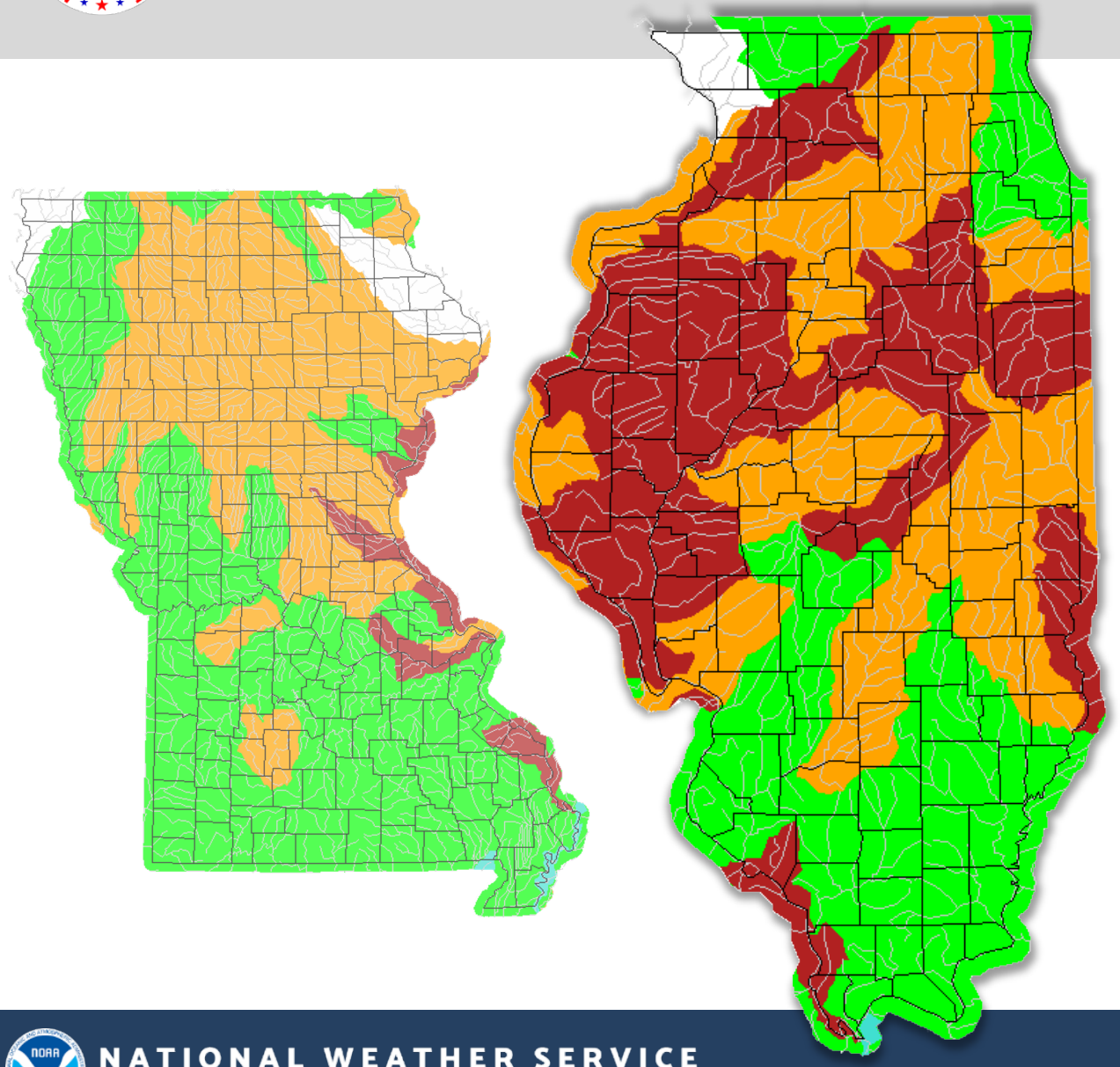




- **Drought conditions have changed little overall through the winter season.**
- **Latest Illinois Drought Conditions**
  - D0 (Abnormally Dry): 39%
  - D1 (Moderate Drought): 38%
- **Moderate drought continues across much of the Upper Miss. Basin**

USGS Streamflows - 7-day Average

https://waterwatch.usgs.gov/



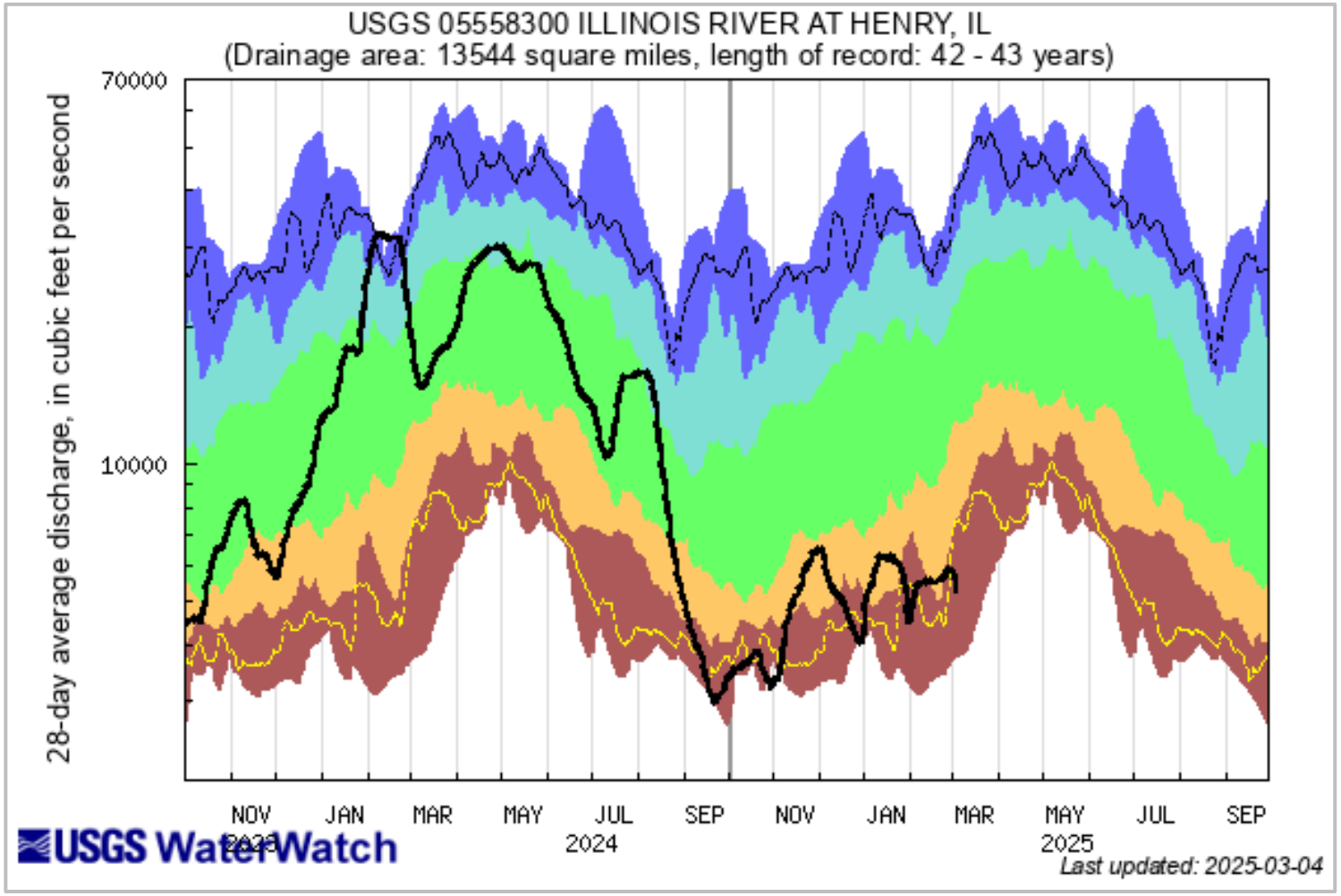
Illinois Streamflow Conditions

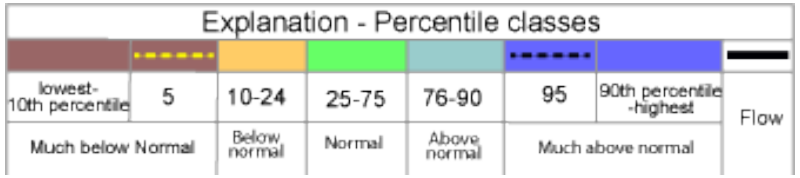
- Below normal to much below normal across much of central and northern Illinois
- Near normal across southern sections of the state

Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		

USGS Streamflows - Mississippi River

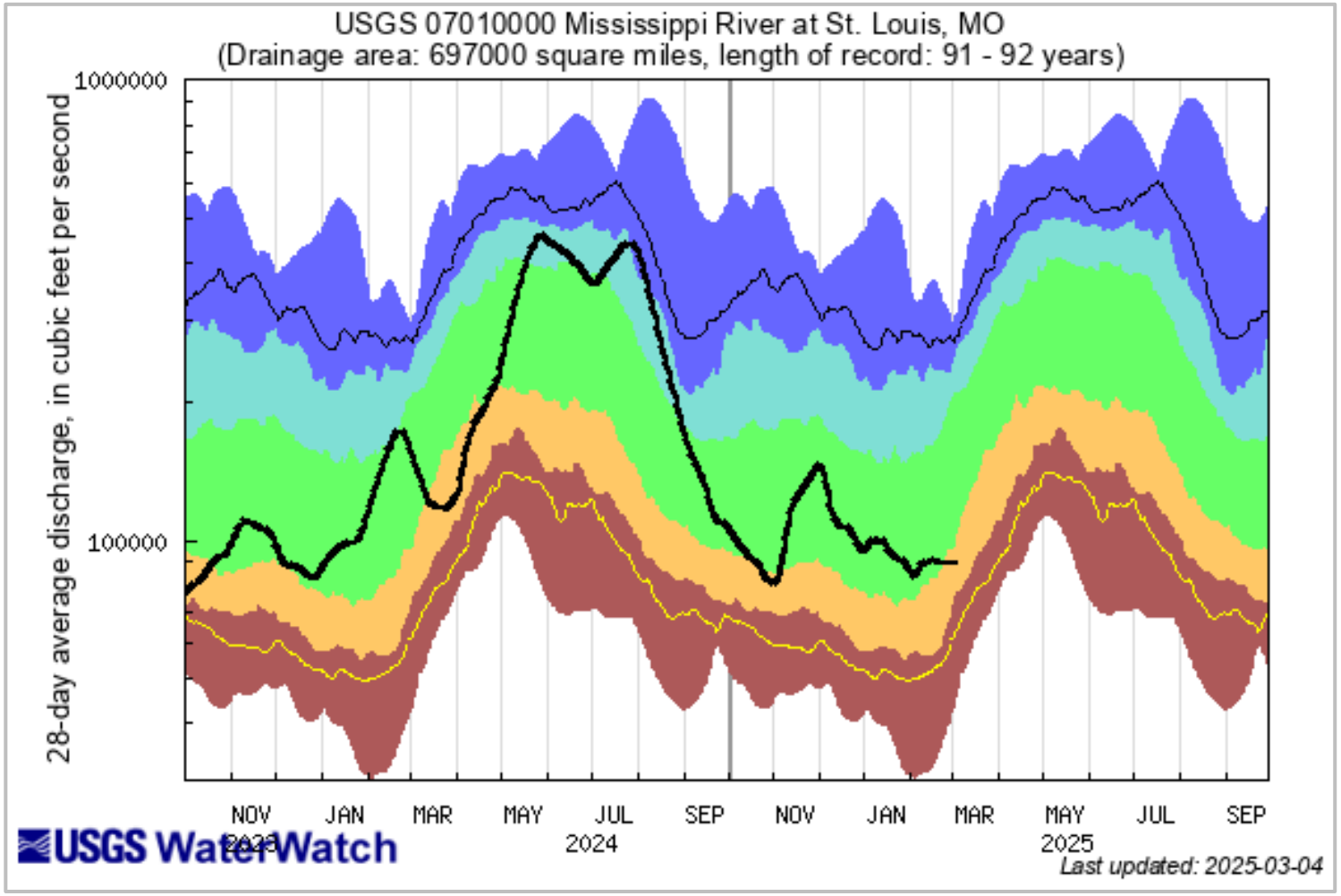
Illinois River at Henry, IL

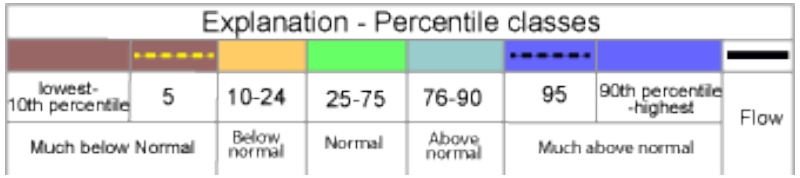




USGS Streamflows - Mississippi River

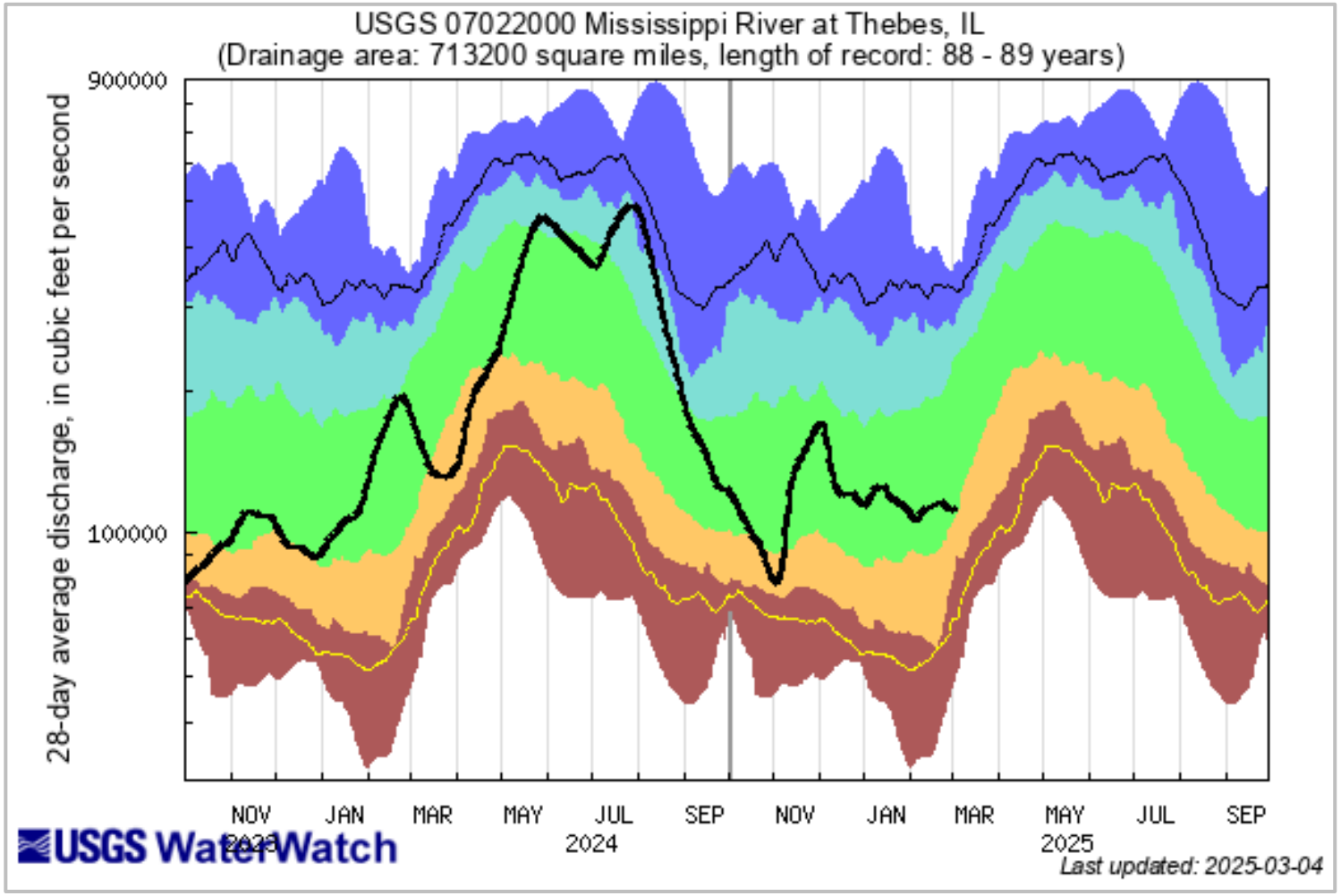
Mississippi River at St. Louis, MO

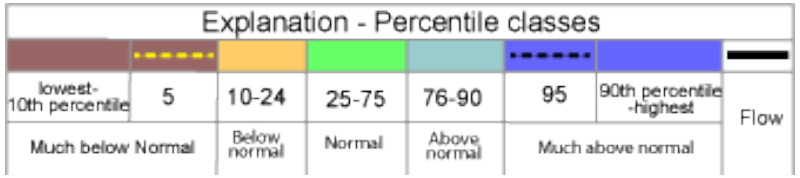




USGS Streamflows - Mississippi River

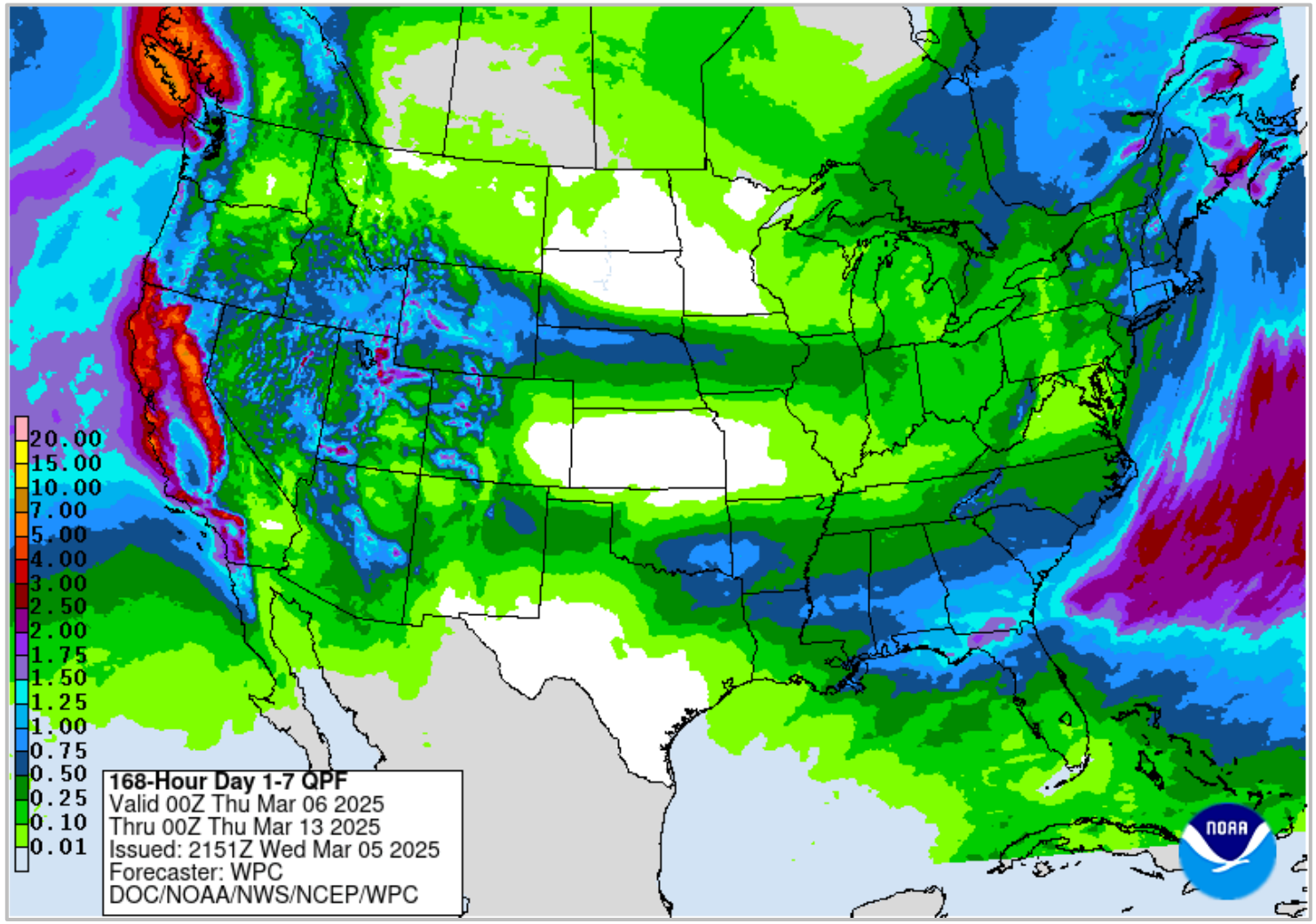
Mississippi River at Thebes, IL





Temperature / Precipitation Outlooks

7-Day Precipitation Forecast

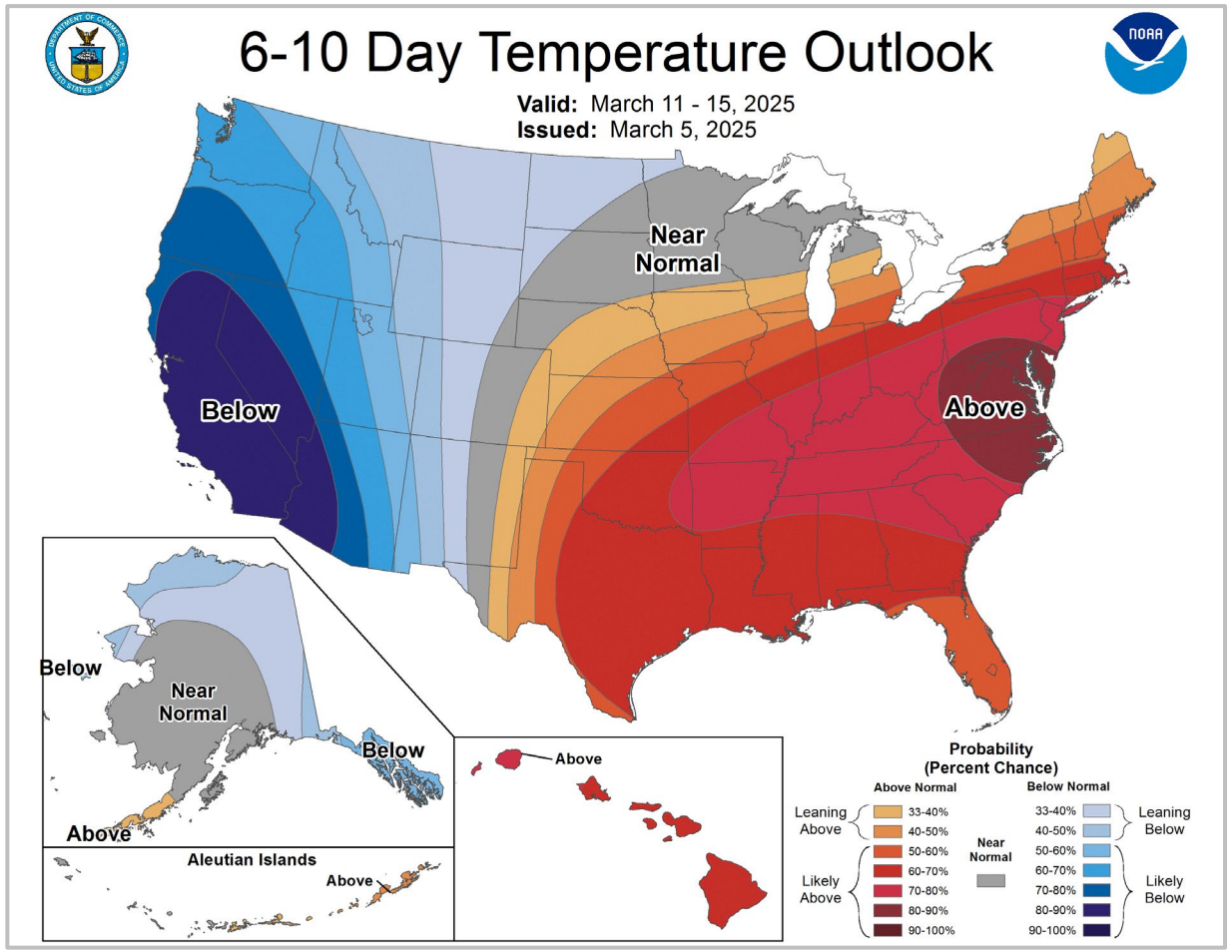


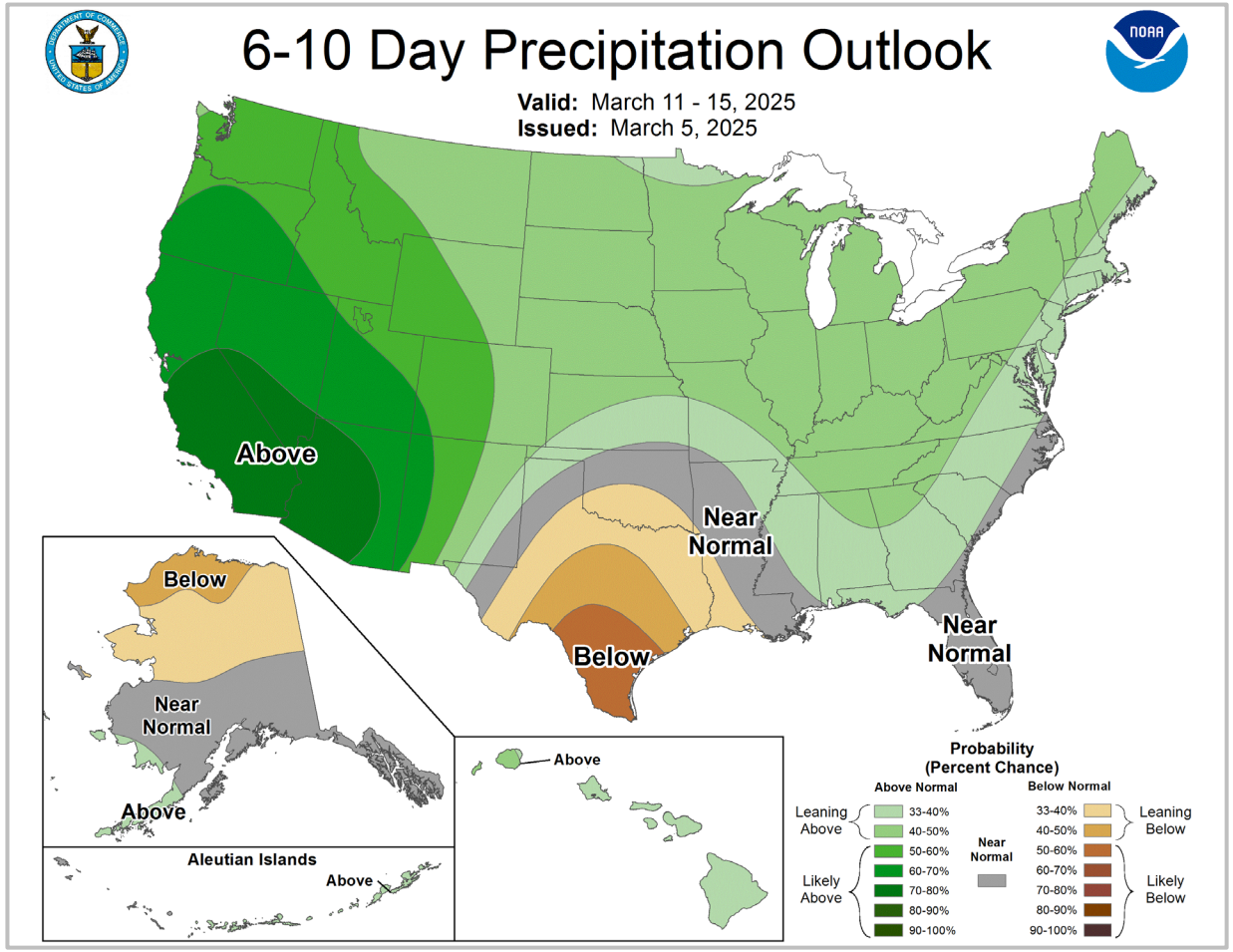
- **Forecast precipitation through Wednesday night**
  - Fairly quiet period until the end of next week

6-10 Day Outlook

Valid: Mar 11 – 15

https://www.cpc.ncep.noaa.gov/

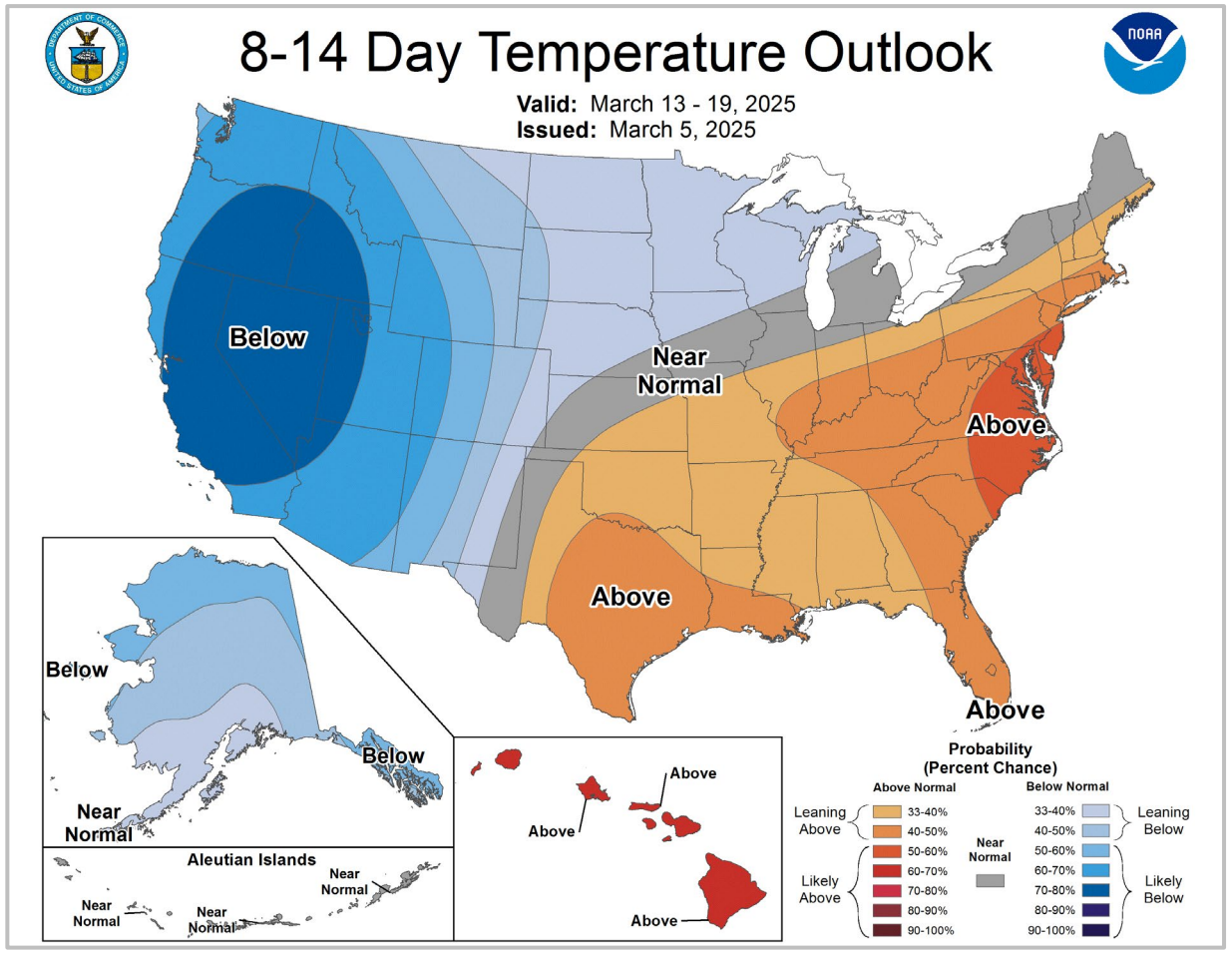


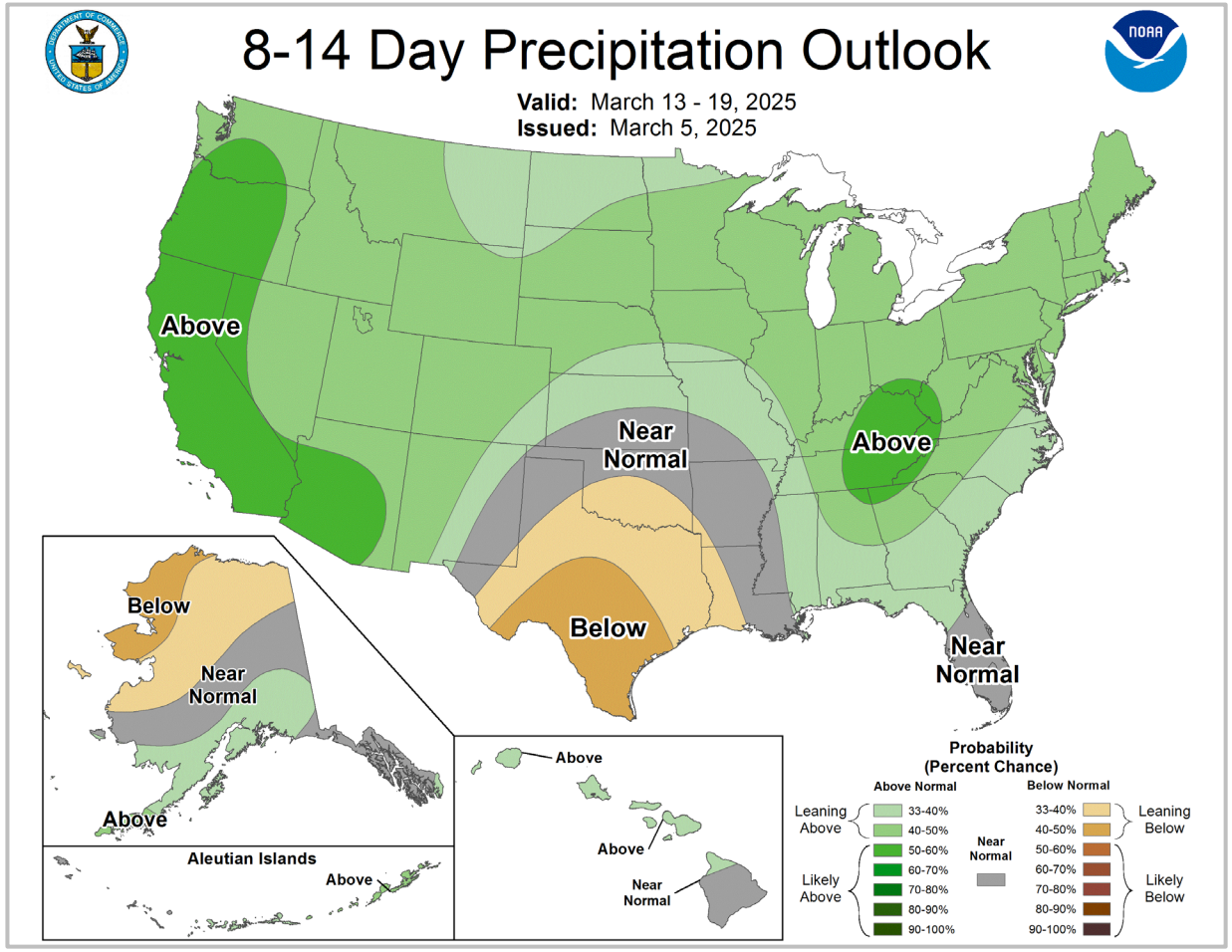


8-14 Day Outlook

Valid: Mar 13 – 19

https://www.cpc.ncep.noaa.gov/

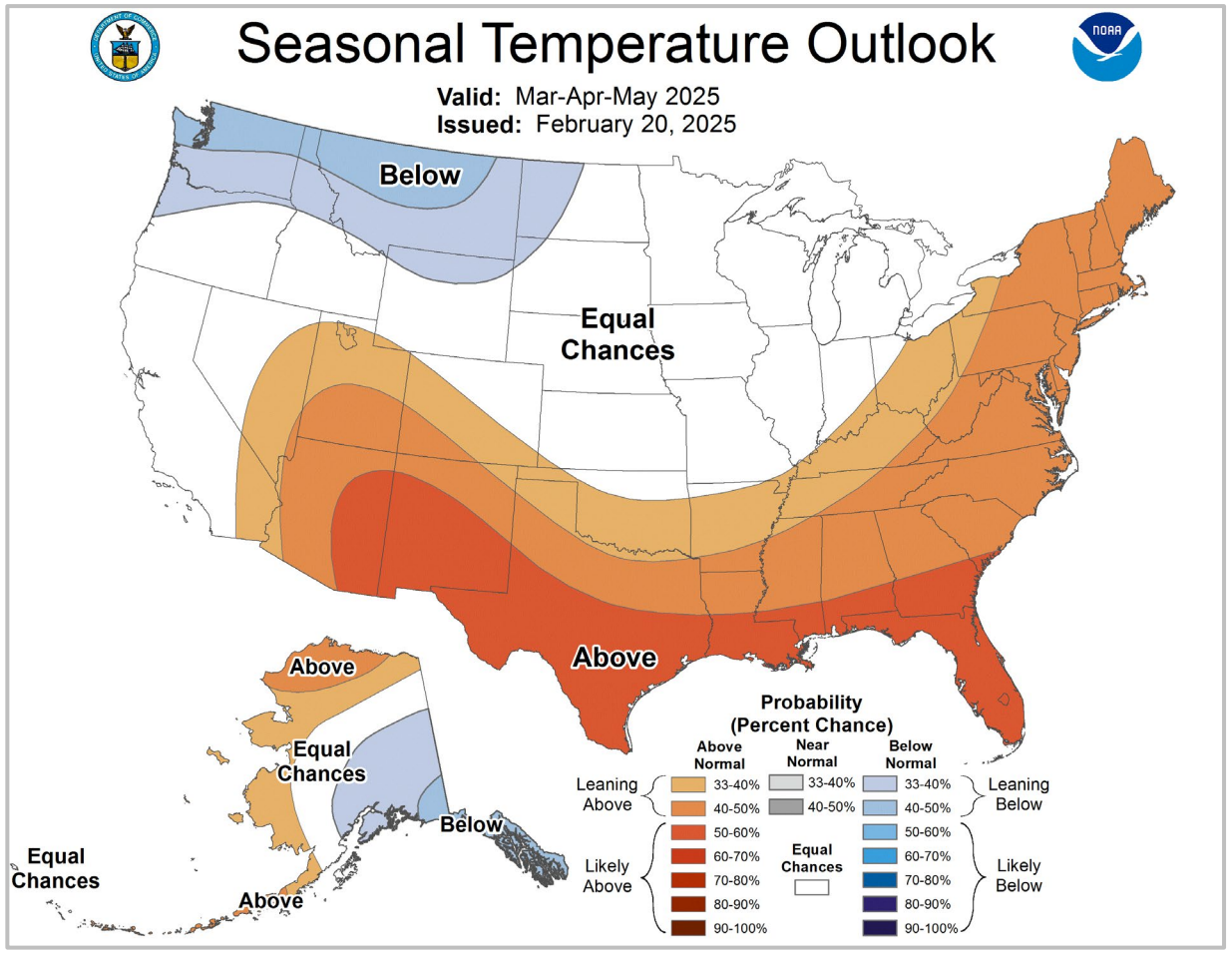


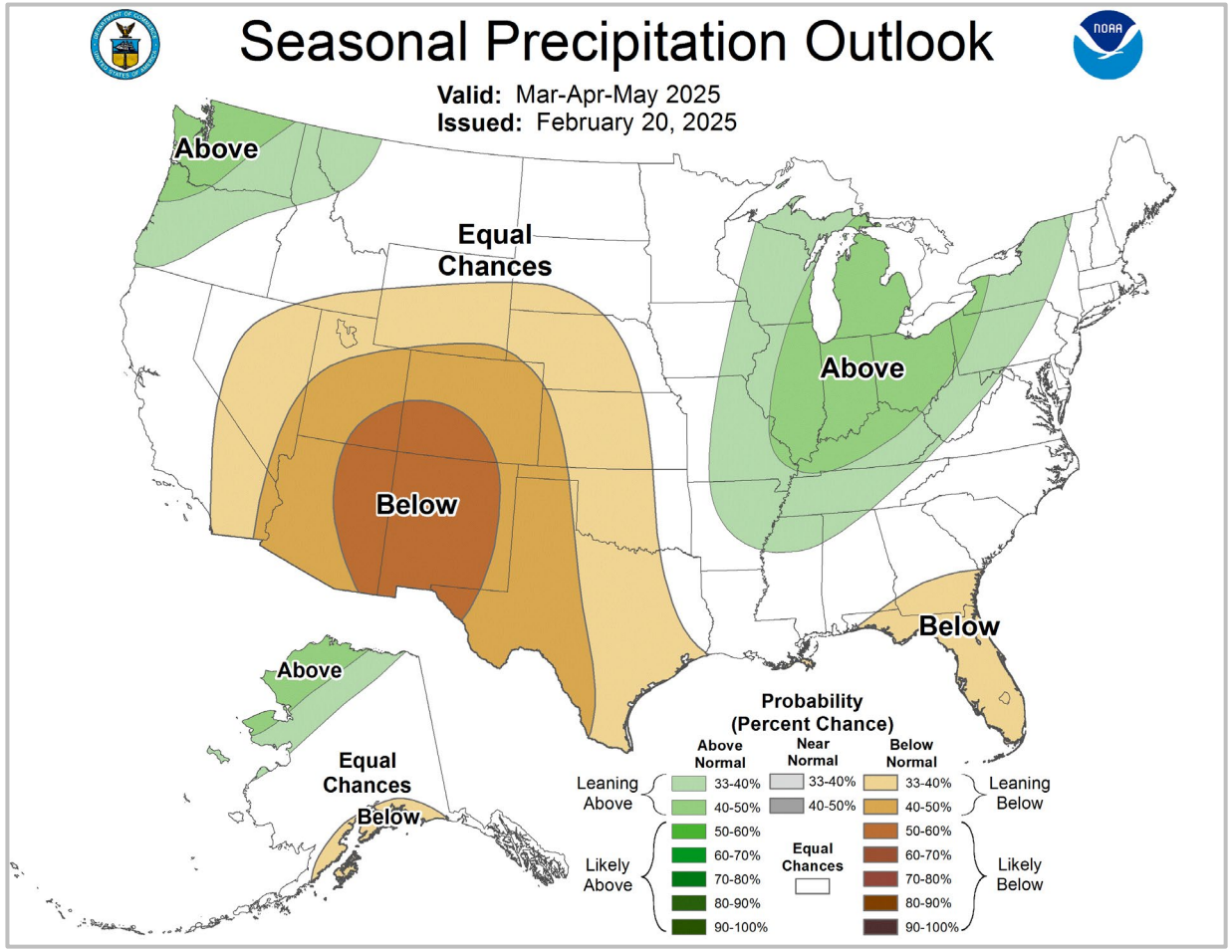


Seasonal Outlook

Valid: Mar / Apr / May

https://www.cpc.ncep.noaa.gov/





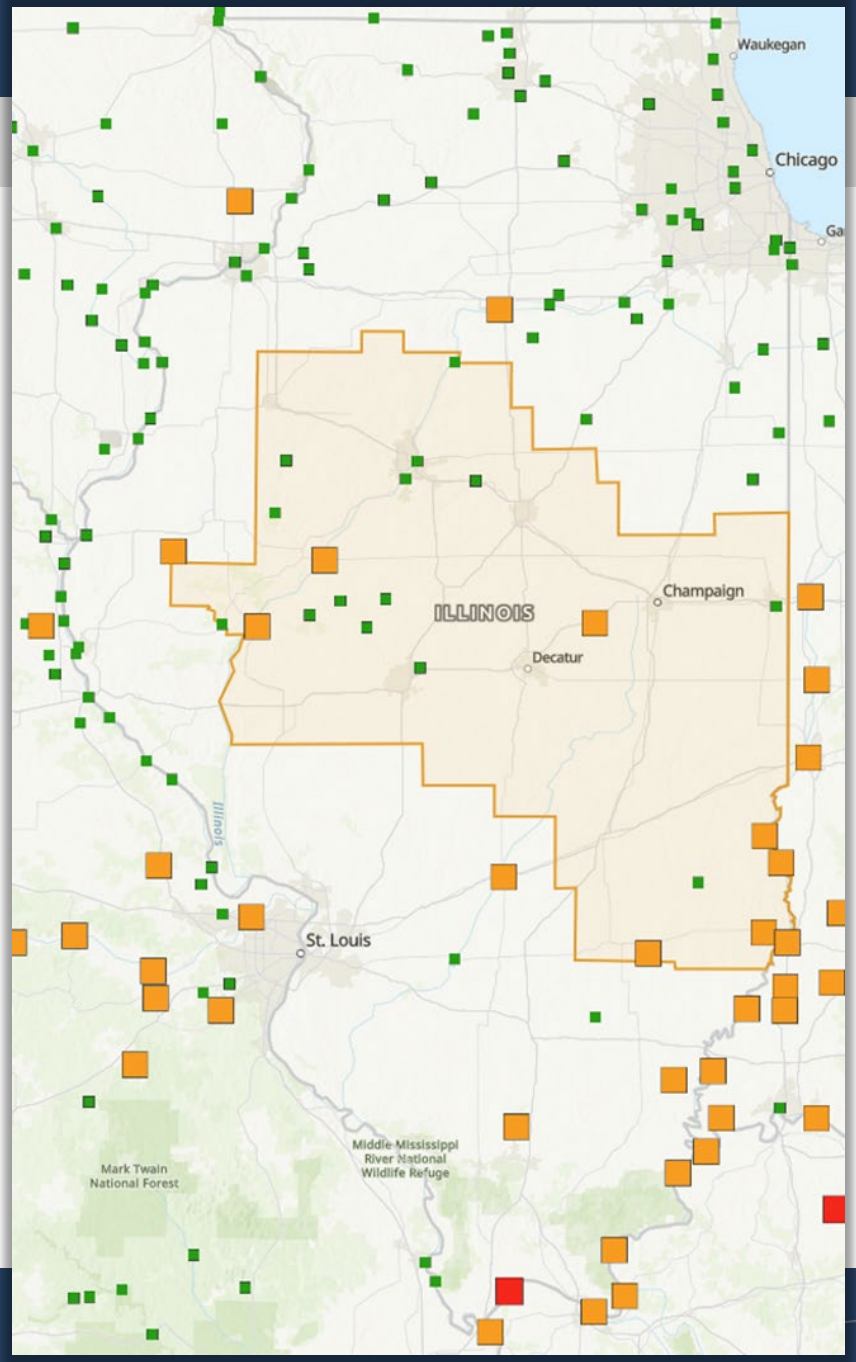
Flood Outlook Probabilities

Spring Flood Outlook

Greater than 50% Likelihood

- Greater than 50% likelihood
- Flood potential will be driven by springtime rains

> 50% Major Flooding
> 50% Moderate Flooding
> 50% Minor Flooding
< 50% Chance of Flooding

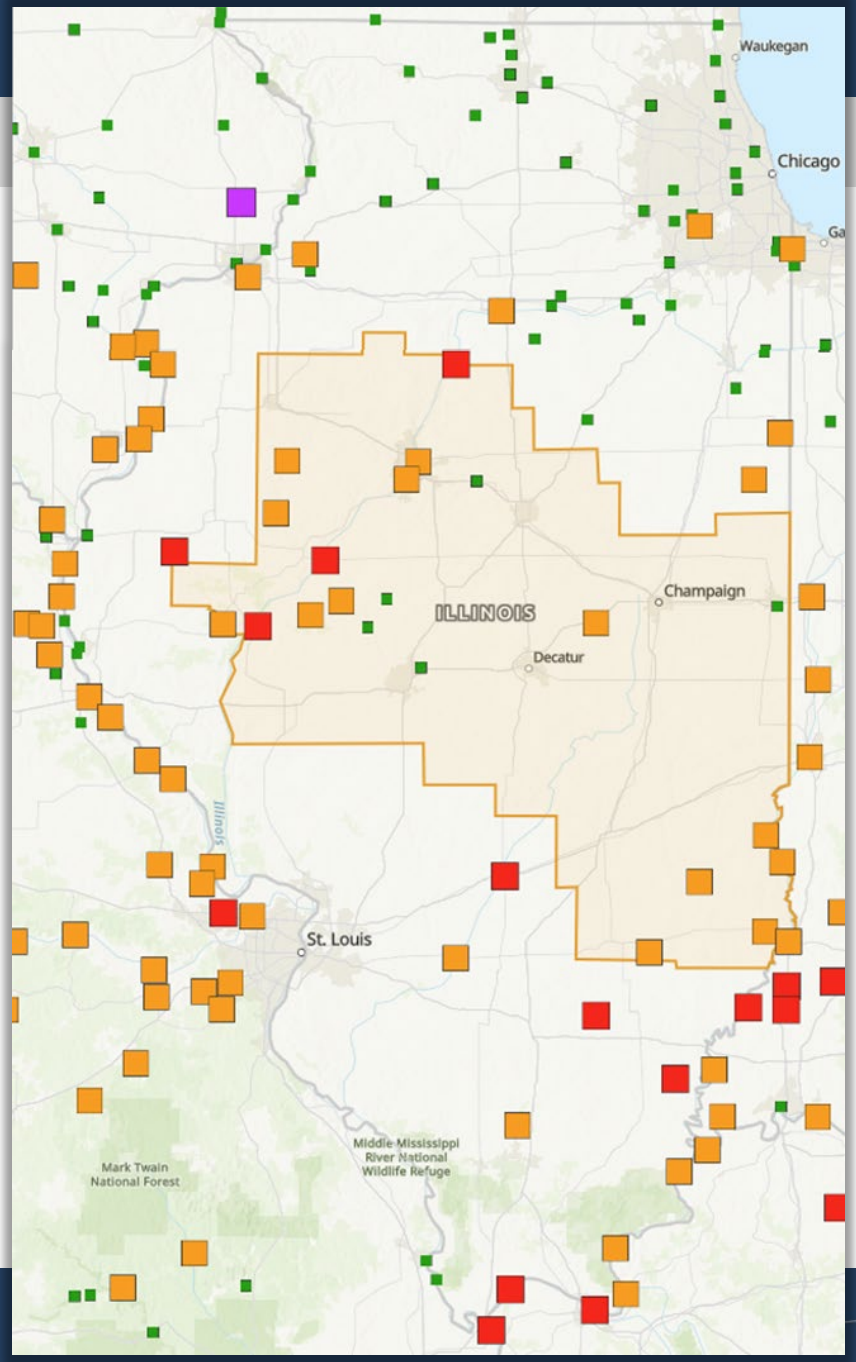


Spring Flood Outlook

Greater than 25% Likelihood

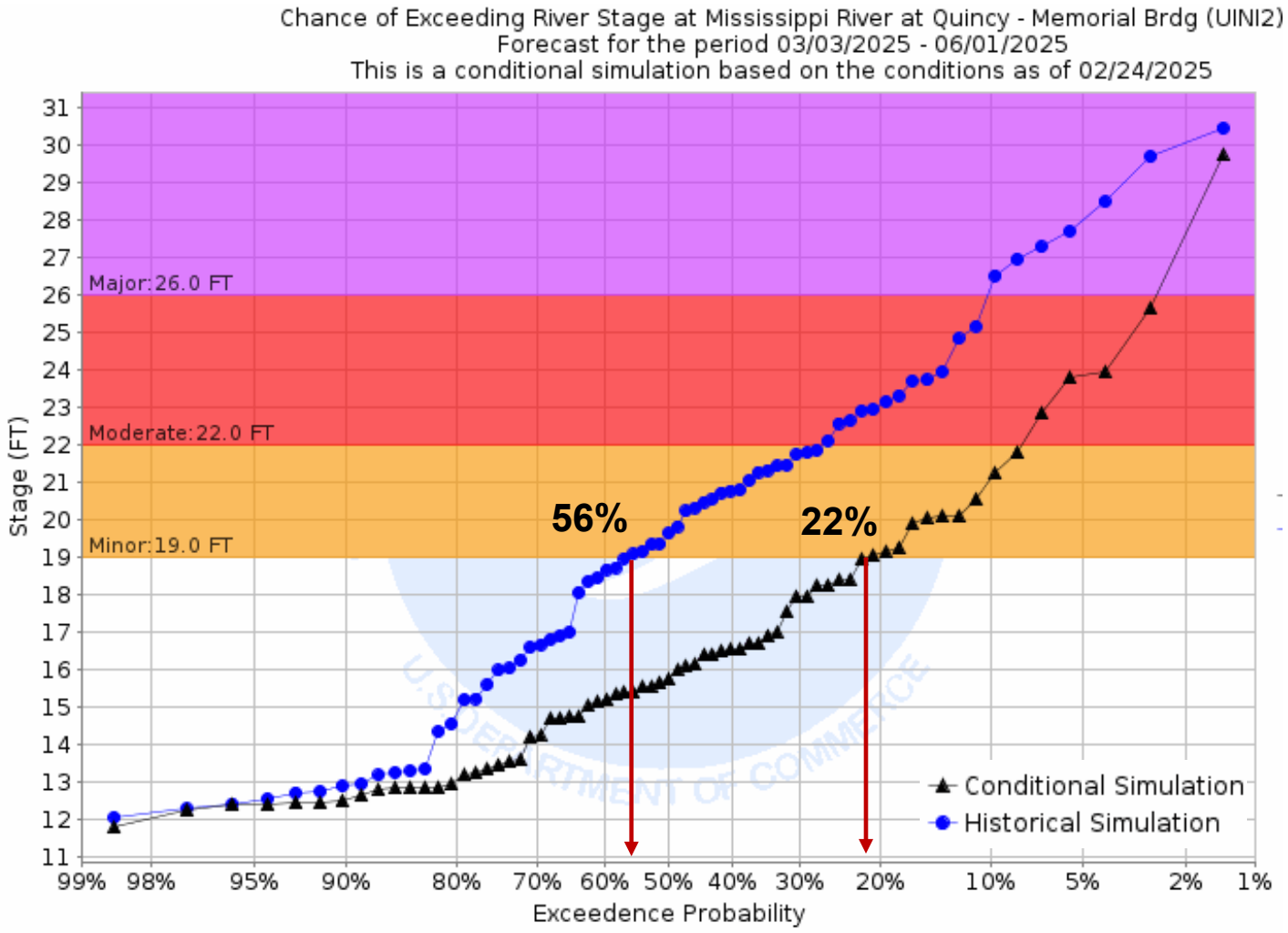
- Greater than 25% likelihood

> 25% Major Flooding
> 25% Moderate Flooding
> 25% Minor Flooding
< 25% Chance of Flooding



Spring Flood Outlook

Mississippi River at Quincy, IL



Conditional Simulation (CS)

- Chances of the river exceeding the given levels based on the current conditions and latest probabilistic river forecast.

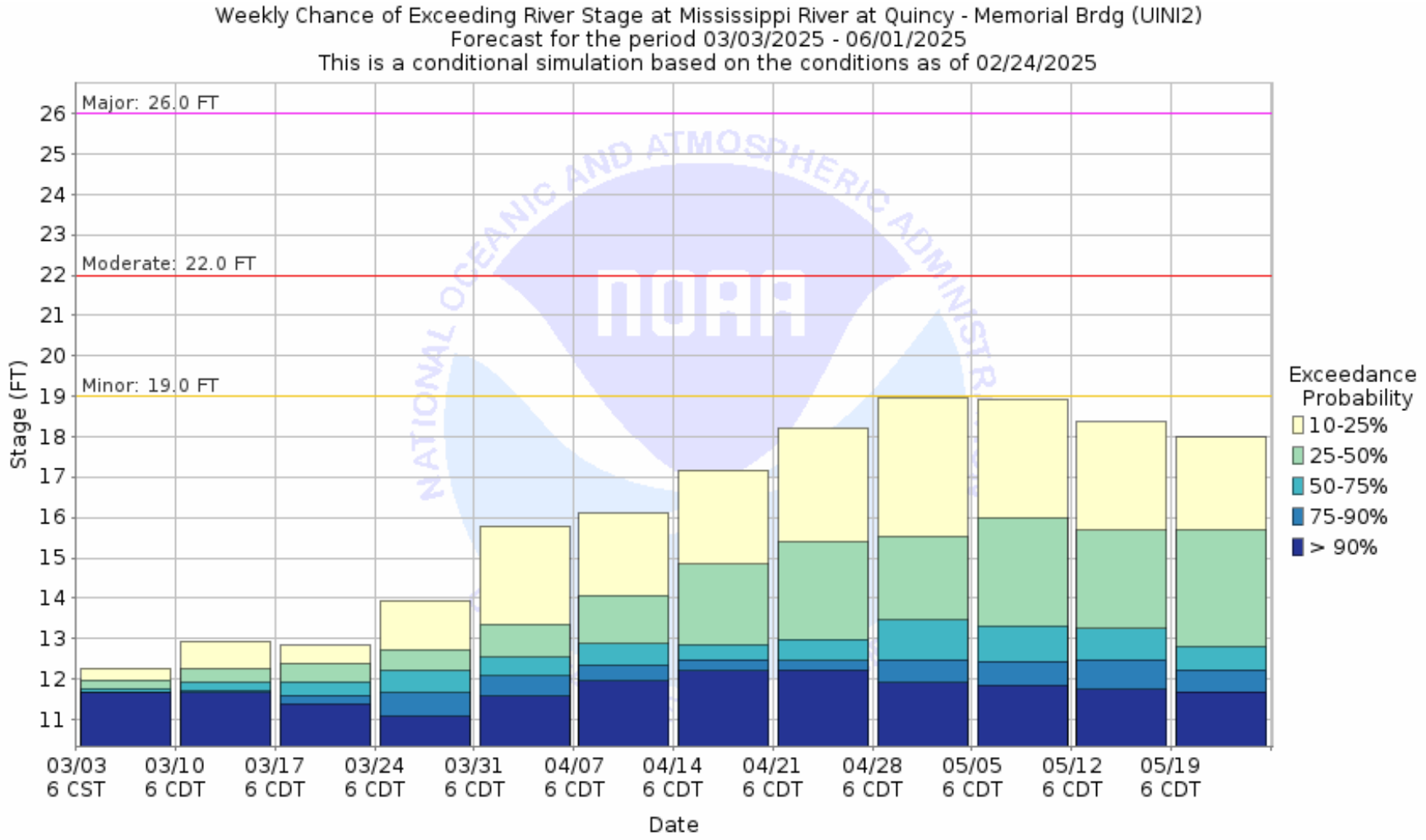
Historical Simulation (HS)

- Chances of the river exceeding the given levels historically (or on average).

A shift of the CS line (black) to the right/below of the HS line (blue) indicates a lower risk for flooding

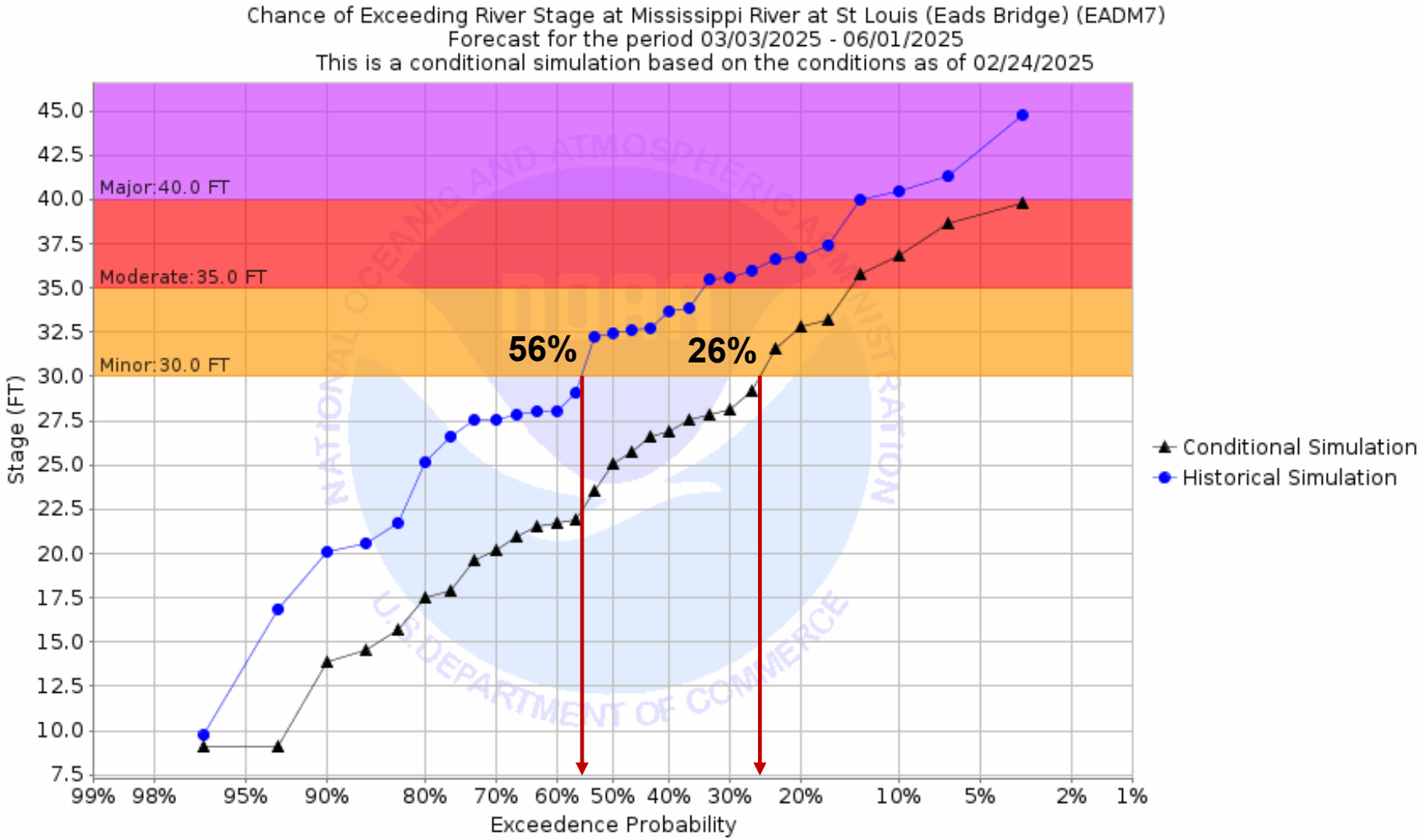
Spring Flood Outlook

Mississippi River at Quincy, IL



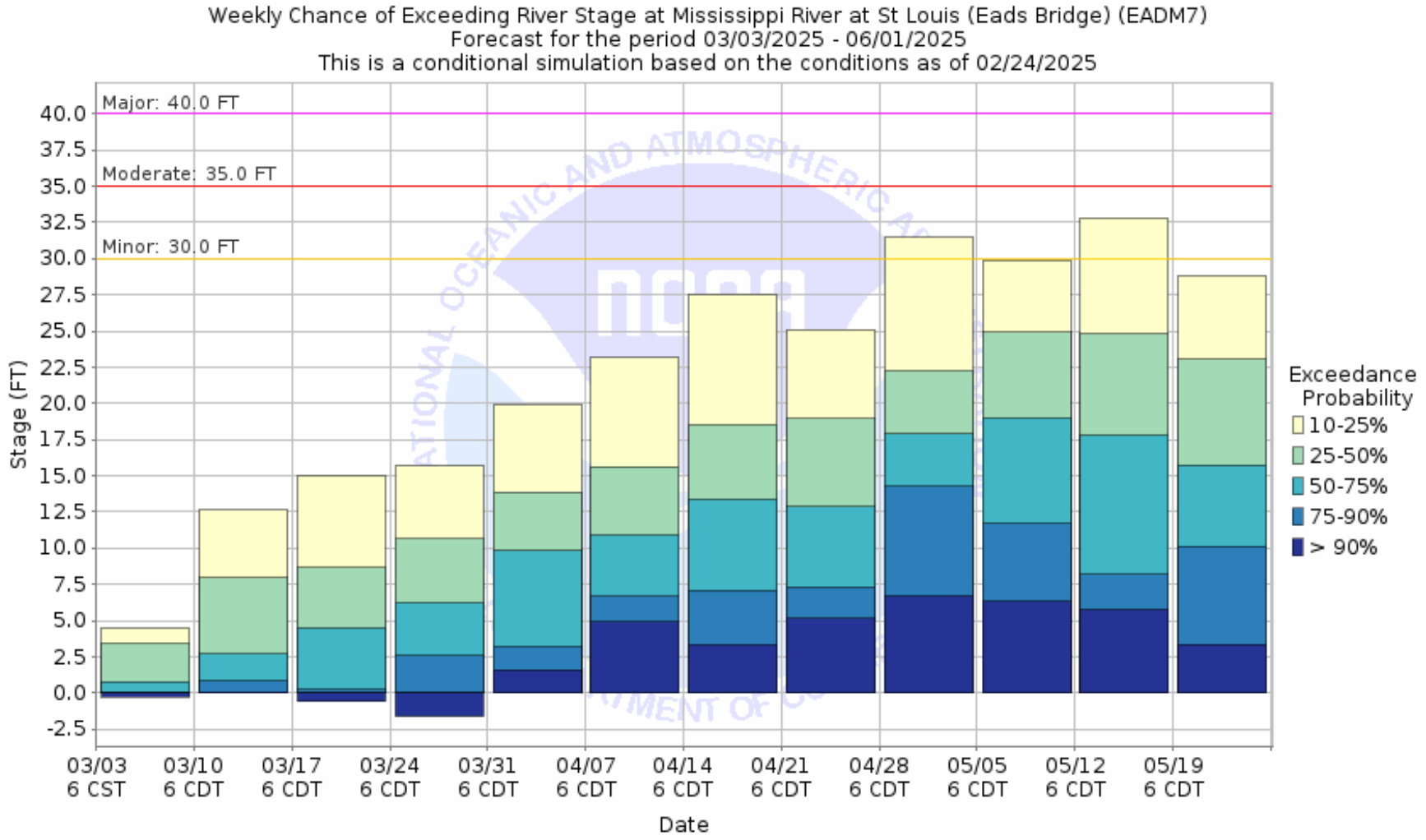
Spring Flood Outlook

Mississippi River at St. Louis, MO



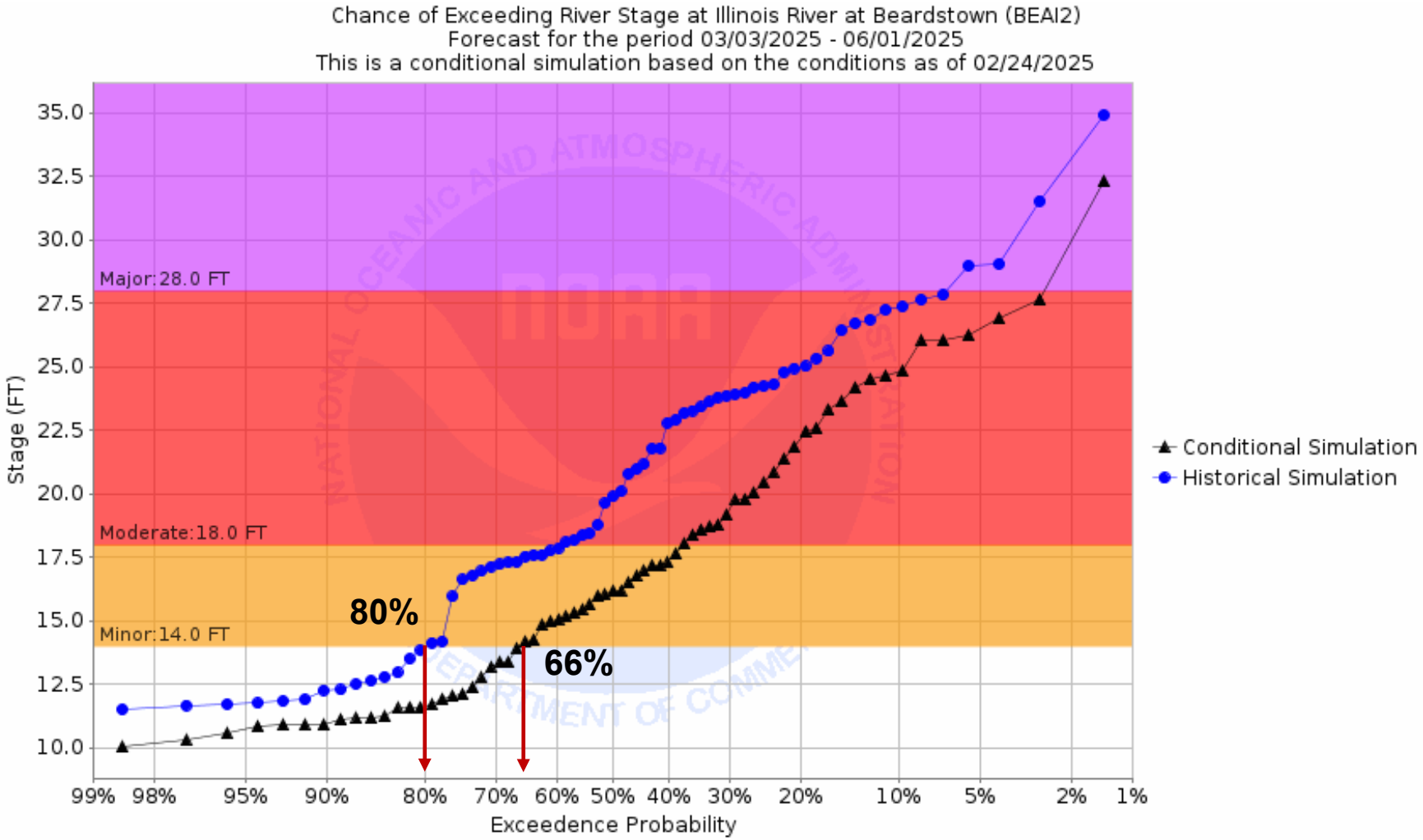
Spring Flood Outlook

Mississippi River at St. Louis, MO



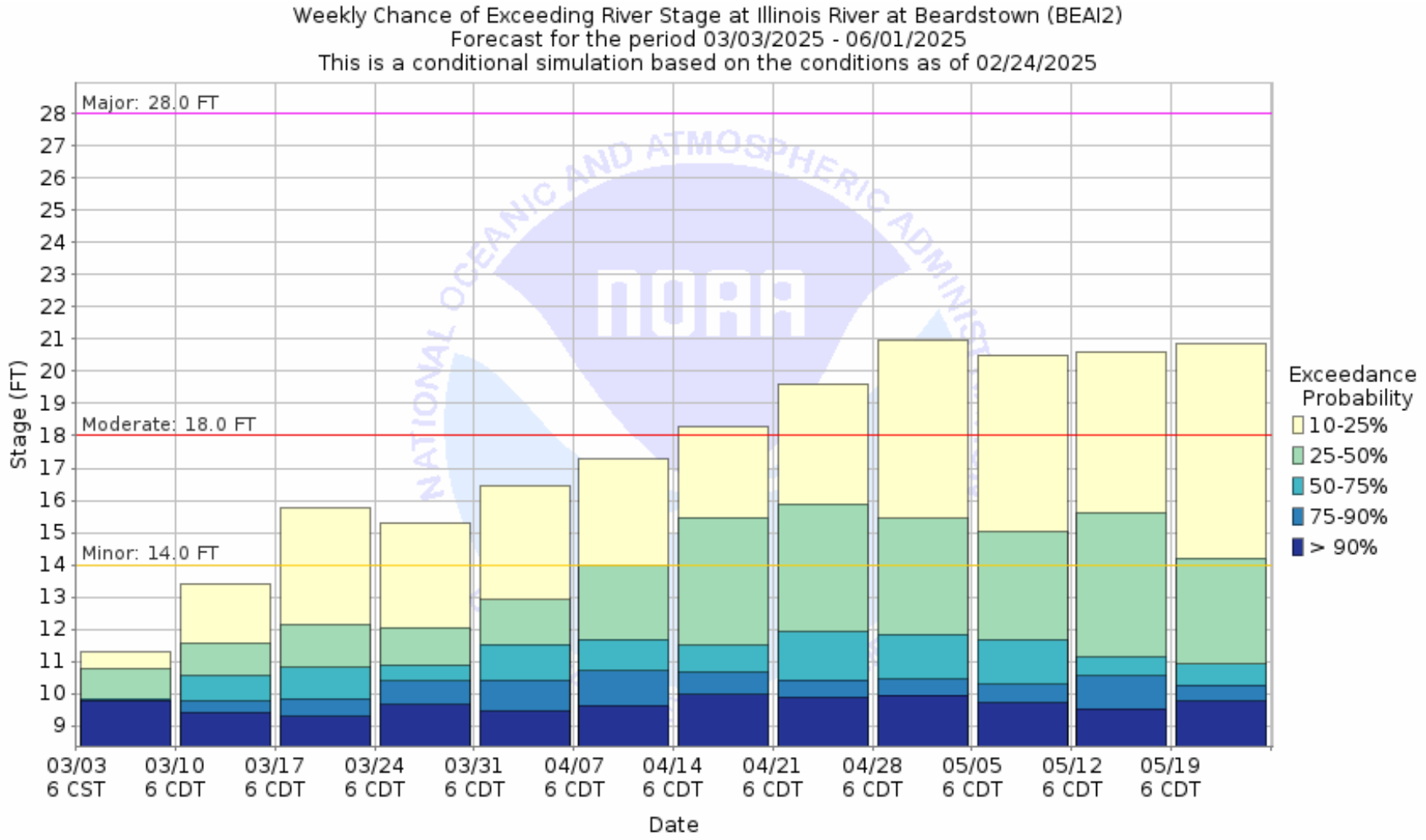
Spring Flood Outlook

Illinois River at Beardstown, IL



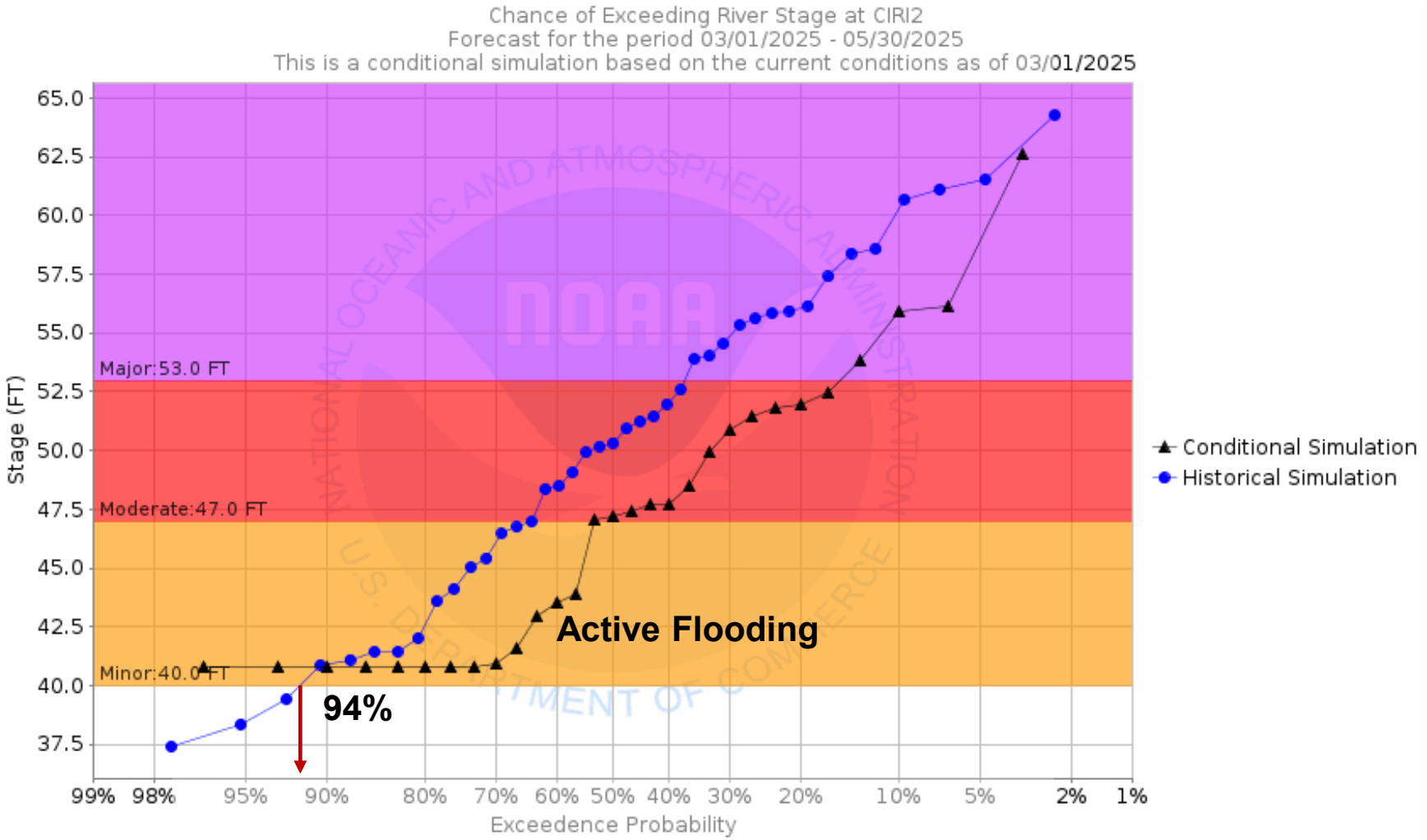
Spring Flood Outlook

Illinois River at Beardstown, IL



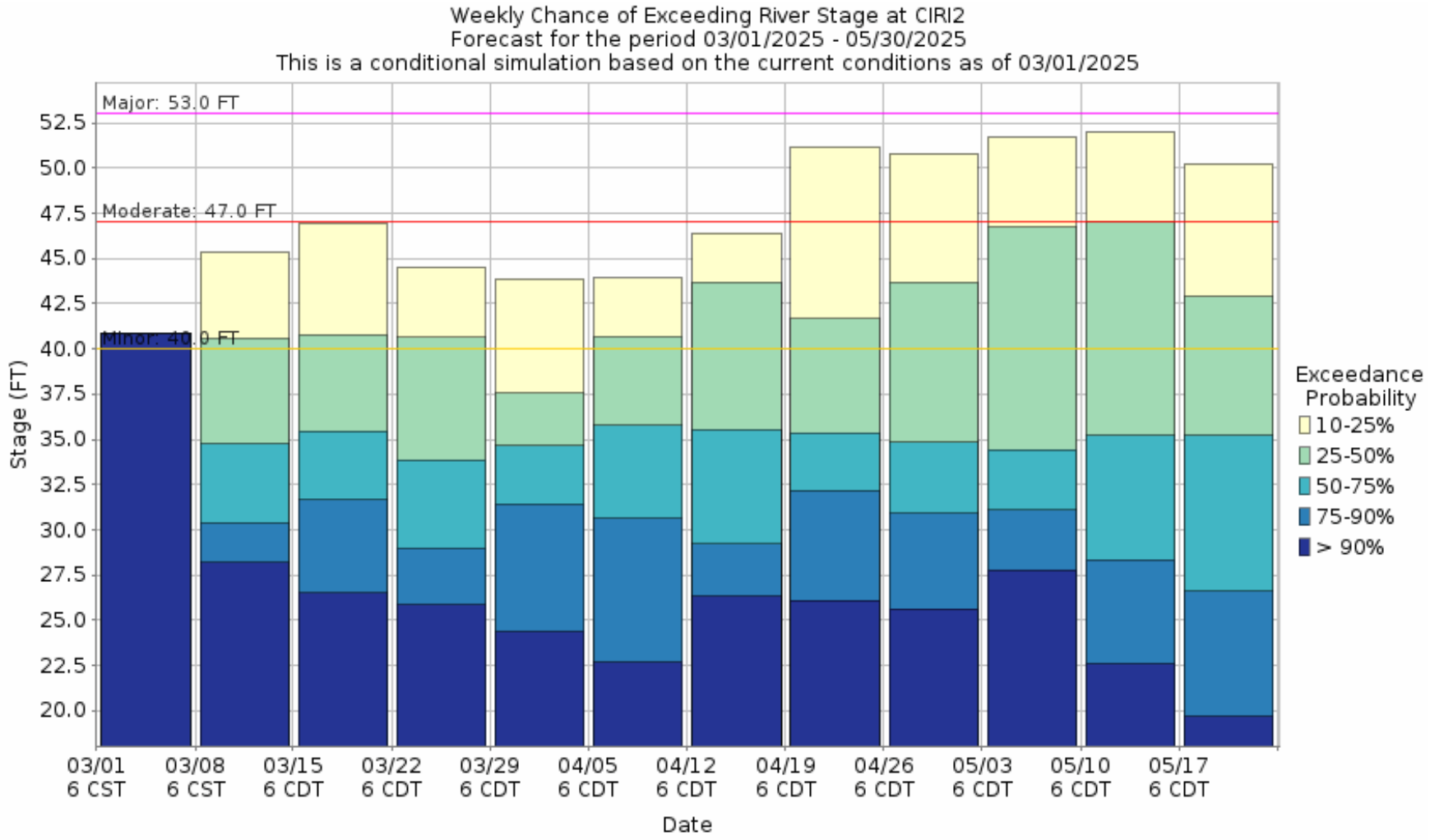
Spring Flood Outlook

Ohio River at Cairo, IL



Spring Flood Outlook

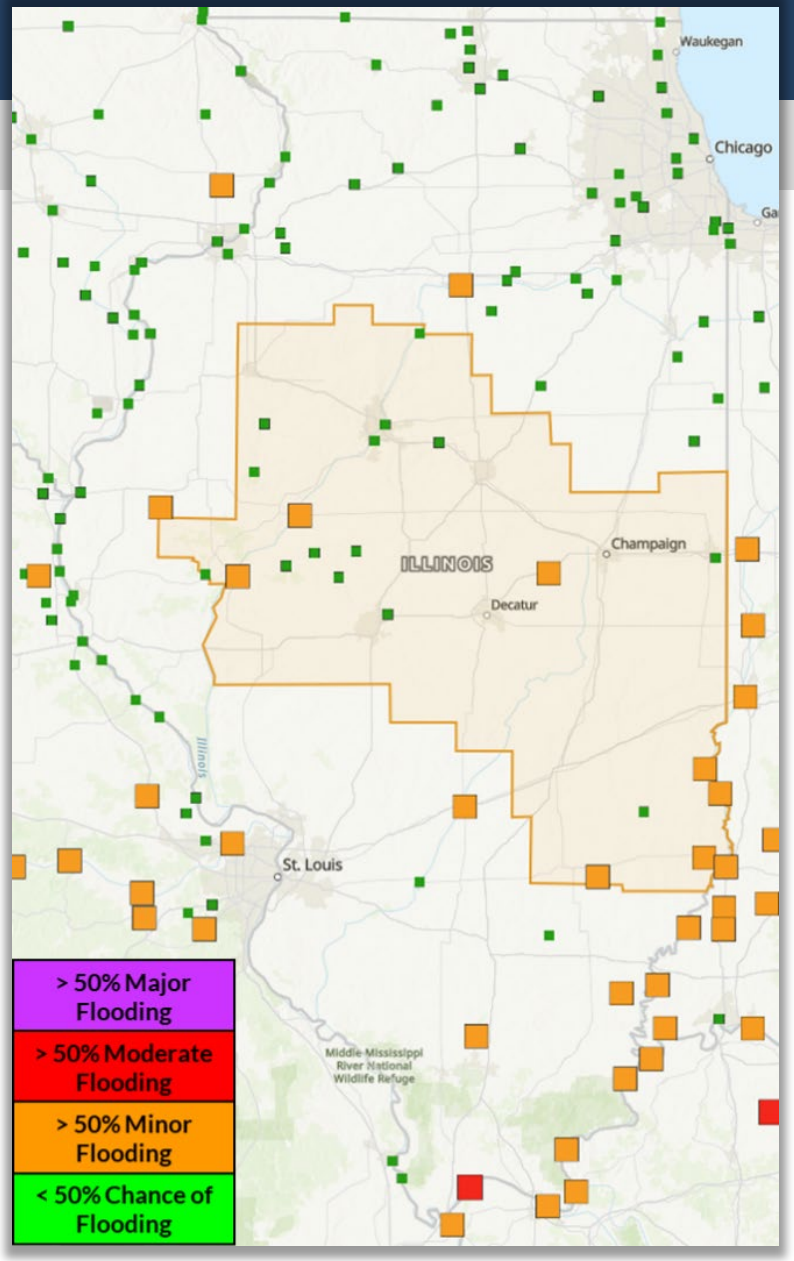
Ohio River at Cairo, IL



Spring Flood Outlook

Key Messages

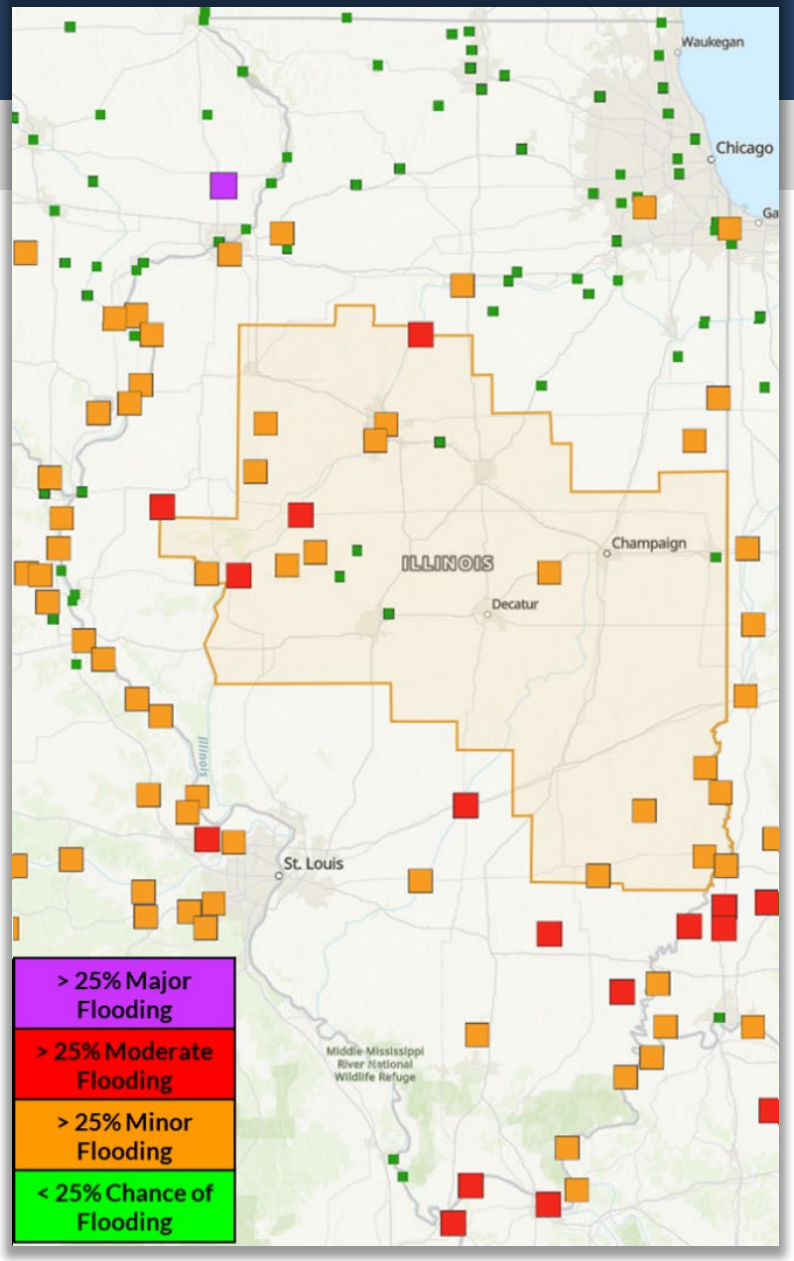
- Overall normal to below normal probabilities for spring flooding
  - Mississippi River - Well below normal likelihood
  - Illinois River - Below normal likelihood
  - Lower Ohio River - Near normal to above normal likelihood
  - Local tributaries - Near normal to below normal
- Little in the way of contributing factors toward flood potential
- Springtime rains will be the driver of flooding
  - A very wet spring could cause more widespread flooding
    - Minor flooding most likely with isolated moderate



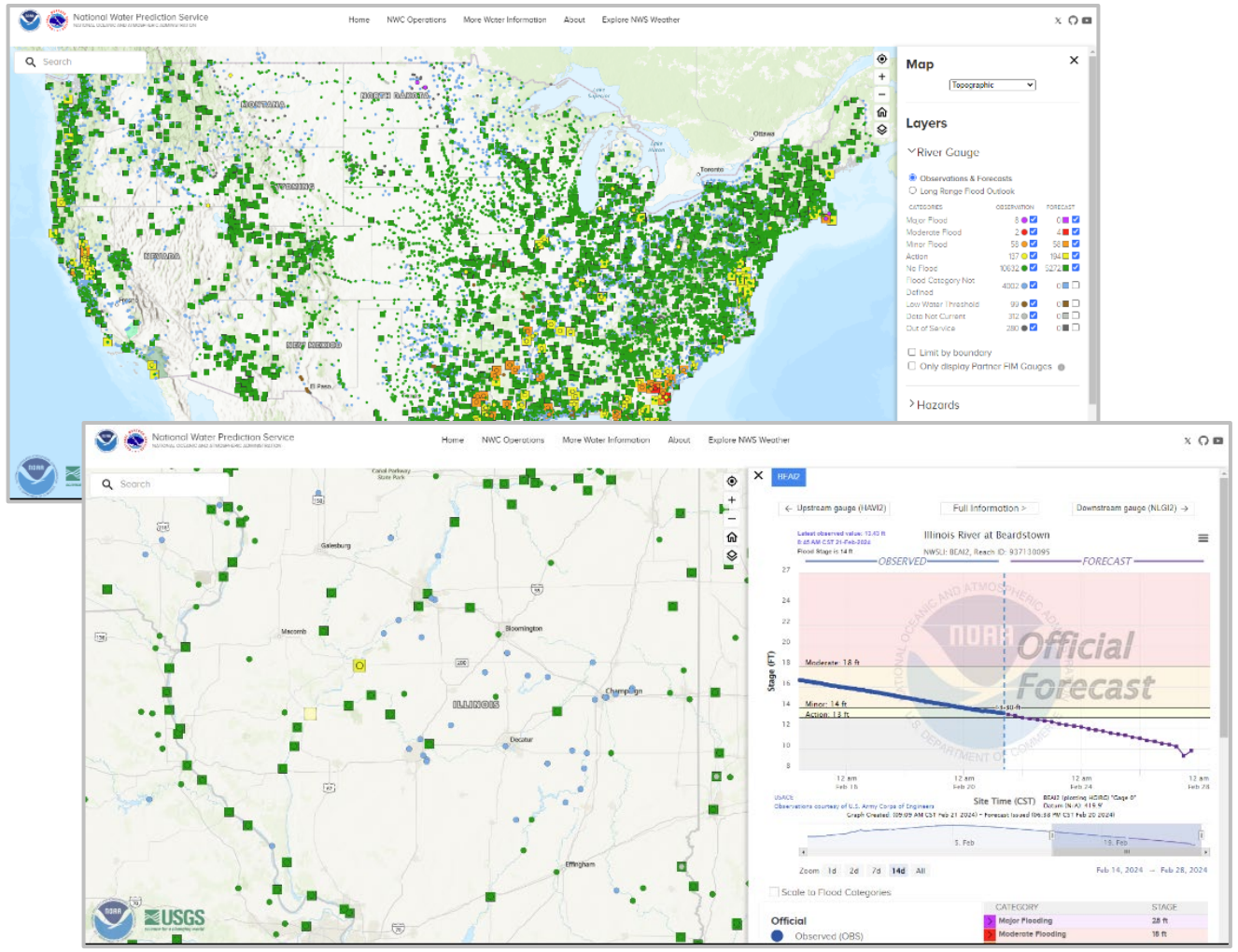
Spring Flood Outlook

Key Messages

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National Water Prediction Service (NWPS)

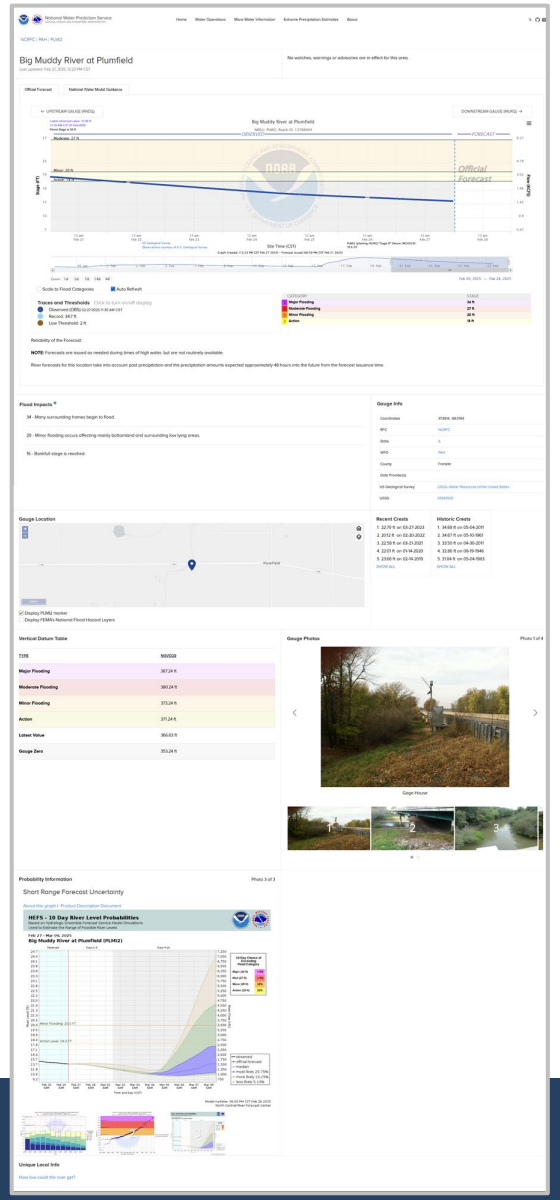


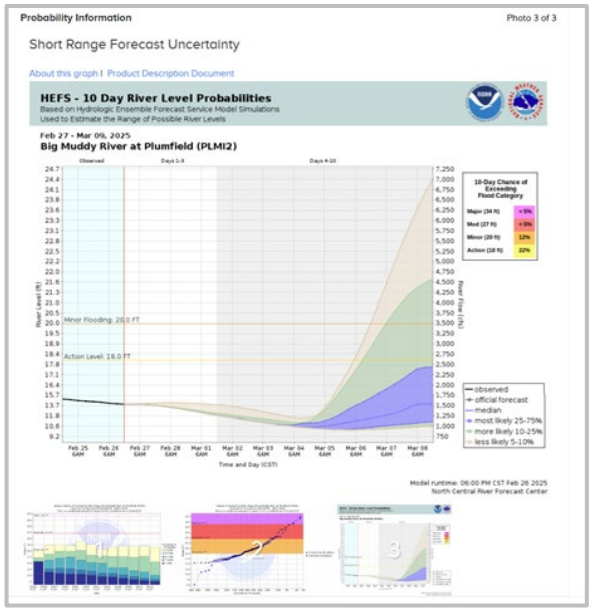
National Water Prediction Service

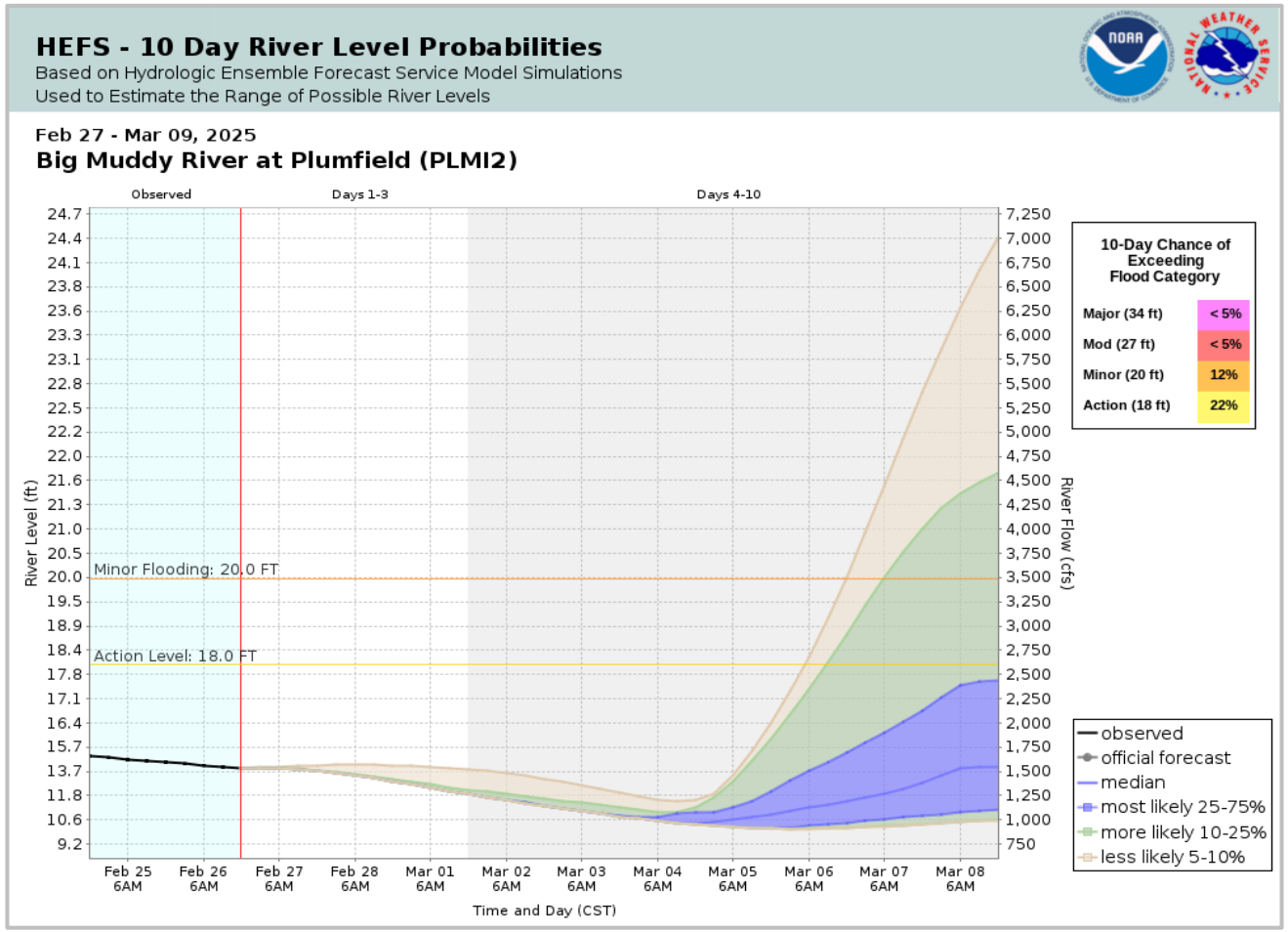
- **Website**
  - https://water.noaa.gov
- **User's Guide**
  - https://www.weather.gov/media/owp/operations/nwps_user_guide.pdf

Hydrologic Ensemble Forecast Service (HEFS)

Provides short-range river forecast uncertainty



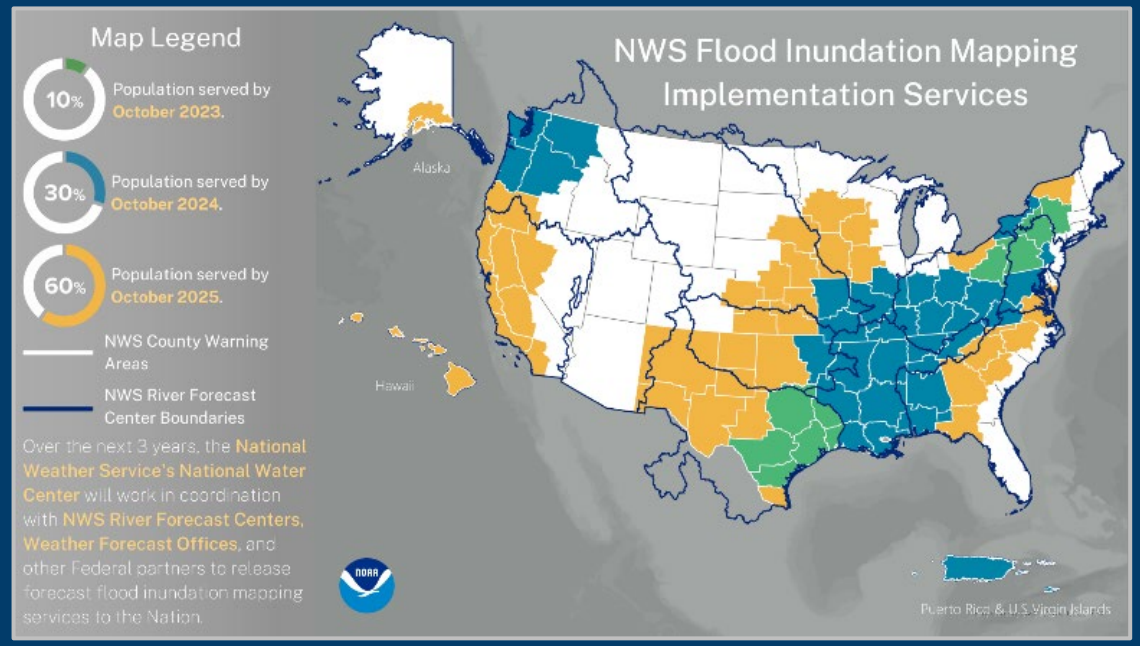




Lincoln, Illinois

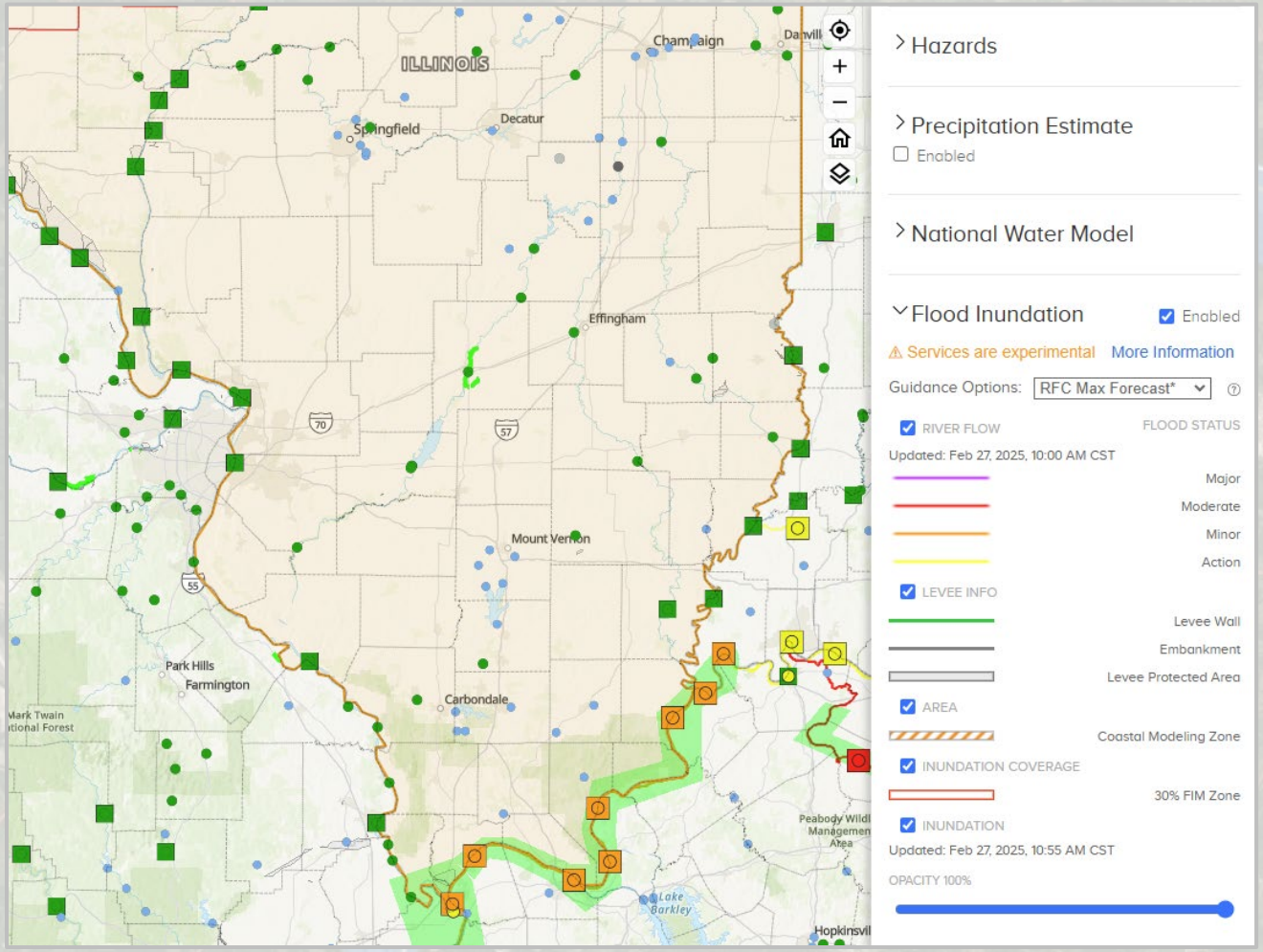
National Water Prediction Service

- **Flood Inundation Mapping** is now available on NWPS as an experimental service

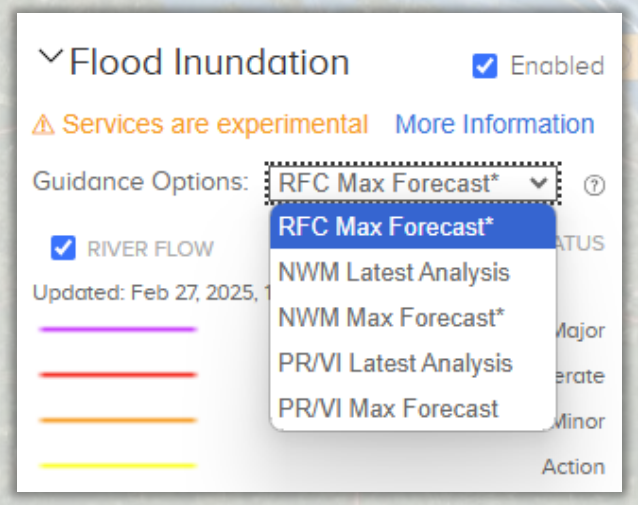




National Water Prediction Service (NWPS)



- **Flood Inundation Mapping now available (Experimental)**
- **Contact your local NWS Service Hydrologist for additional information**



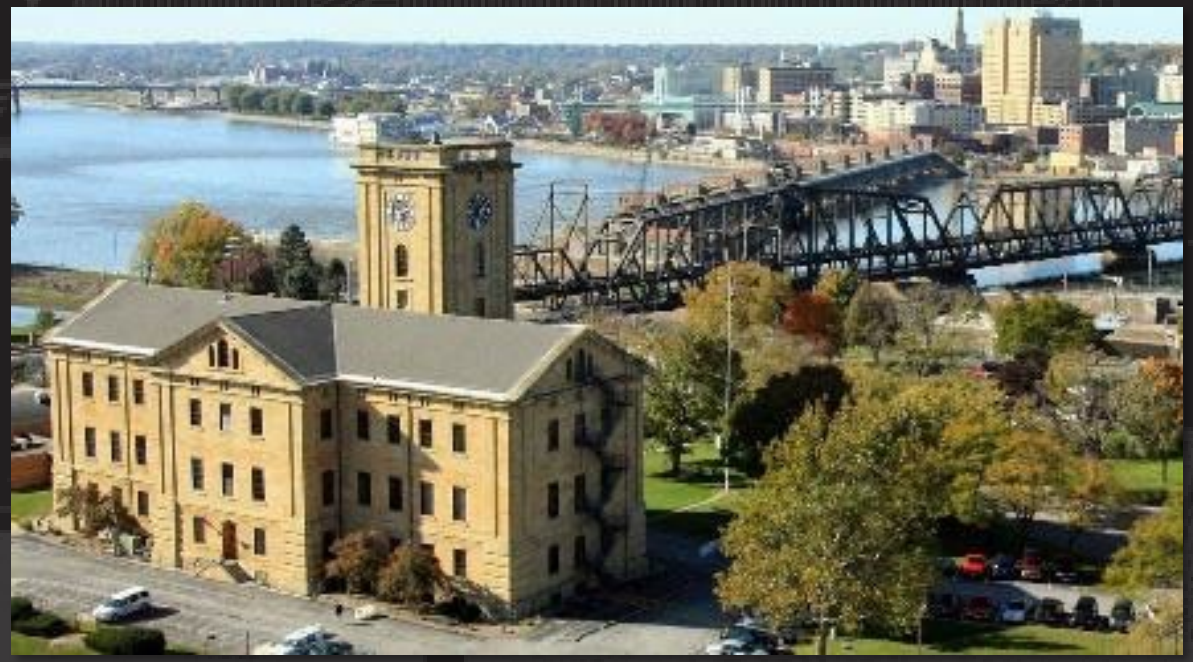
Questions?

Darrin.Hansing@noaa.gov

U.S. ARMY CORPS OF ENGINEERS ROCK ISLAND DISTRICT

Public Law 84-99 Authorities

Presented by:
Beth Crutcher
Program Analyst
Rock Island District







U.S. ARMY

US Army Corps of Engineers®

GETTING PREPARED FOR FLOOD SEASON





National Weather Service
Quad Cities, IA/IL
Thursday, February 15, 2024

2024 Spring Flood Outlook

Near to Below Normal Risk for River Flooding

- The spring flood risk is below normal for the Mississippi River, and near to below normal for local tributary rivers across the NWS Quad Cities Hydrologic Service Area
- Majority of threats including soil moisture, snowpack and frost depth are at a decreased threat
- *Flood risk this spring will be tied mainly to spring precipitation, which is at a neutral threat at this time*

Spring Flood Threat Checklist (as of February 14th, 2024)

Threat for Flooding	Impact to Potential Spring Flooding	Link to Image of Information
River Levels	**Neutral to** Decreased Threat	USGS WaterWatch
Soil Moisture	Decreased Threat	CPC Soil Moisture
Snowpack/Liquid Content in the Snowpack	**Mississippi River**: Decreased Threat **IA/IL/MO local rivers**: Decreased Threat	Snow/Liquid Equivalent Analysis
Rate of Snowmelt	**Mississippi River**: Decreased Threat **IA/IL/MO local rivers**: Decreased Threat	24, 48, & 72 hr Snowmelt
Frost Depth	Decreased Threat	Frost Depth Map
Spring Precipitation	**Neutral Threat**	FEB-APR Outlook





PL 84-99 – FLOOD RESPONSE

When USACE Assists

When rivers forecasted to be at or are above local flood stage

When local resources are fully employed

Once Commander declares an emergency

USACE Provides

Emergency Technical & Direct assistance in response to flood

Assistance supplements State and local actions & capabilities

Provided upon request for assistance by States

- USACE assistance is to **save lives** and **protect improved properties** (critical public facilities / services, residential / commercial development) during or following a flood
- **Supplemental to State and Local Flood Fight Efforts**
- Partnerships are key to successful response and recovery operations

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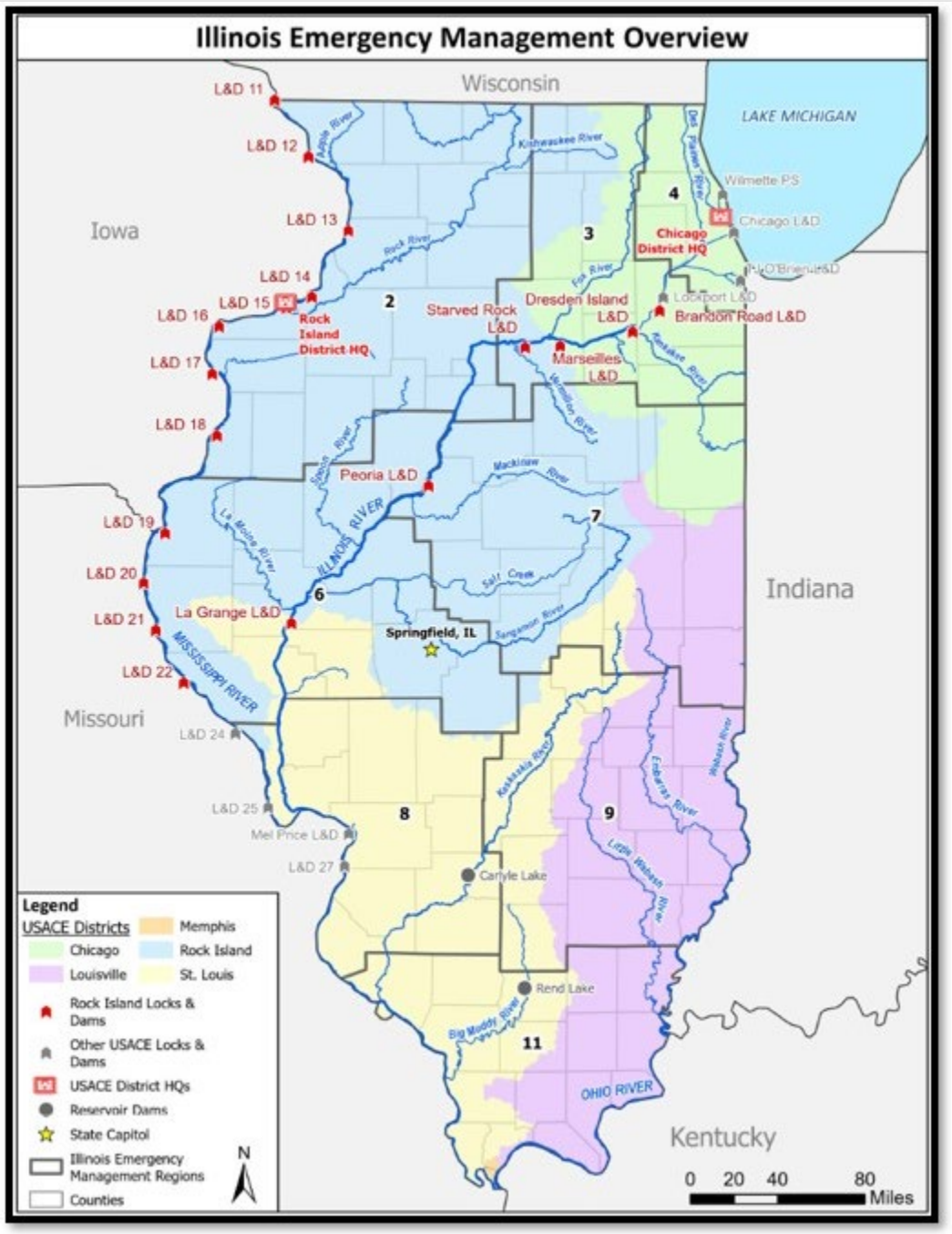


Mississippi Valley Division
Rock Island District
Sarah Jones
Chief, Emergency Management Division
Sarah.B.Jones@usace.army.mil
309-794-5206

Mississippi Valley Division
St. Louis District
John Osterhage
Chief, Emergency Management
John.L.Osterhage@usace.army.mil
314-331-8569



Mississippi Valley Division
Memphis District
Kandita (Kandi) Waller
Chief, Emergency Management
Kandita.H.Waller@usace.army.mil
901-544-3591



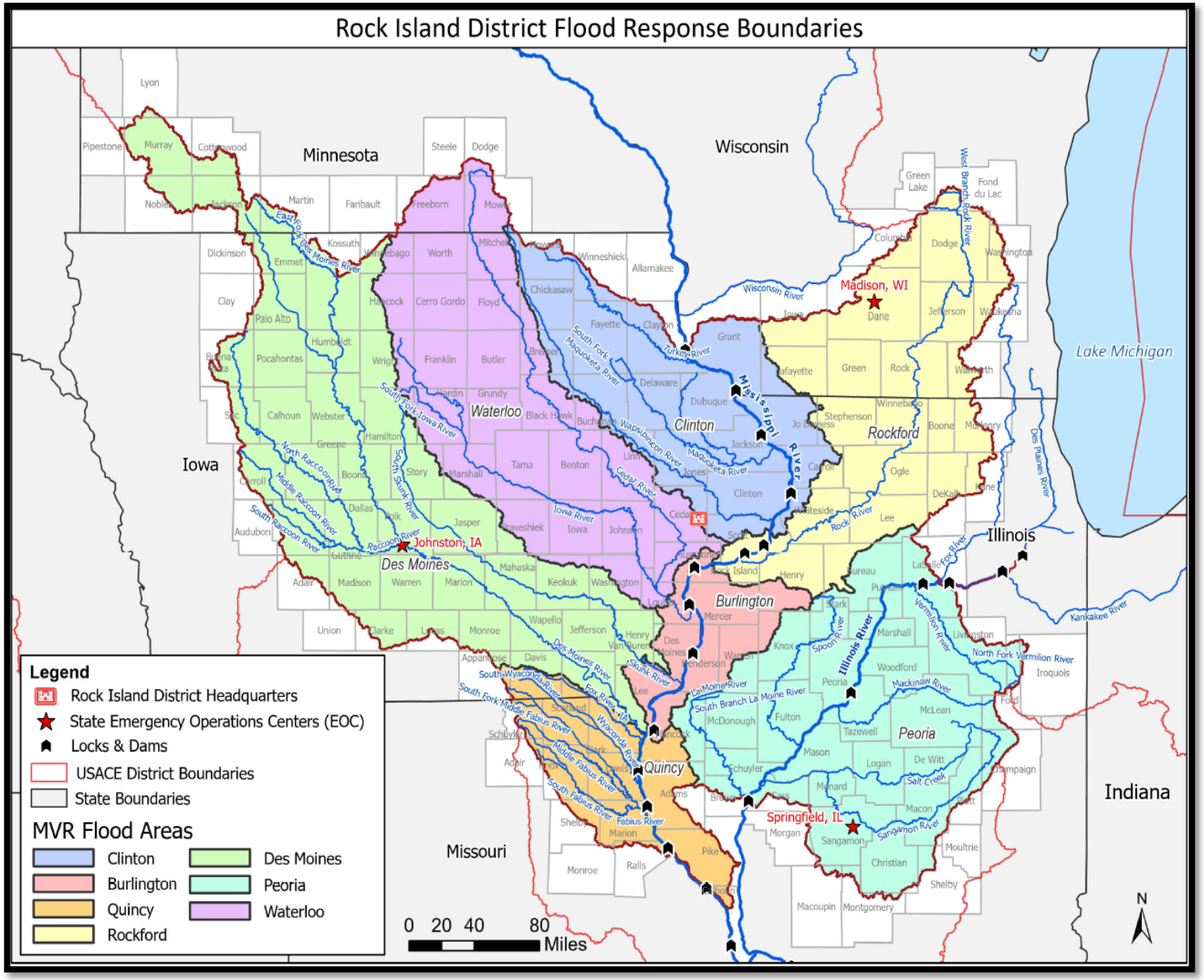


Great Lakes & Ohio River Division
Chicago District
Robert Paluch
Chief, Readiness Section
Robert.G.Paluch@usace.army.mil
312-846-5475



Great Lakes & Ohio River Division
Louisville District
George Minges
Chief, Emergency Operations
and Security Branch
George.C.Minges@usace.army.mil
502-315-6920

ROCK ISLAND DISTRICT BOUNDARIES



FLOOD RESPONSE PROCEDURES

U.S. ARMY

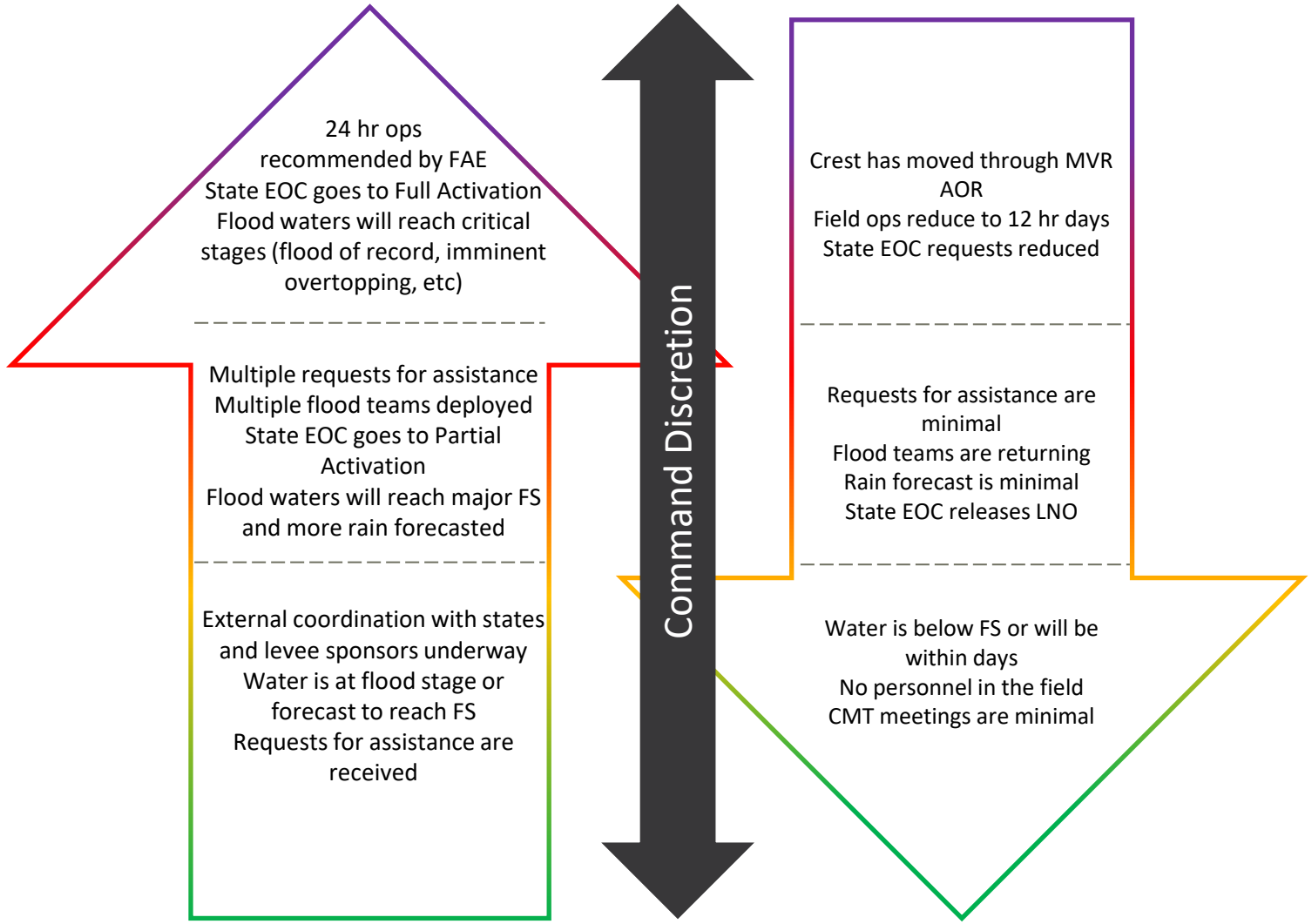
What triggers a change to the EOC activation levels?

1 FULL
- EOC operational 24/7
- Full EOC augmentation
- 24/7 field operations

2 PARTIAL
- EOC operational 10+ hours a day
- Partial EOC augmentation
- Field operations 10+ hours a day

3 MONITOR
- EOC extended operations
- CMT briefings initiated
- Intermittent field site visits

4 NORMAL
- EOC normal business hours
- On call after hours



**MVR EOC activation level may be increased/decreased prior to State activation level changes.

ACTIVATION TRIGGERS BY FLOOD AREA

U.S. ARMY

	3 MONITOR EOC extended operations CMT briefings initiated Intermittent field site visits	Est. Pax	2 PARTIAL EOC operational 10+ hours a day Partial EOC augmentation Field operations 10+ hours a day	Est. Pax
Burlington	Mississippi River at Muscatine Gage at 18' (Moderate FS) and rising Iowa River at Wapello Gage at 25' (Moderate FS) and rising	0-4	Mississippi River at Muscatine Gage at 20' (Major FS) and rising Iowa River at Wapello Gage at 27.5' (Major FS) and rising	2-12
Clinton	Mississippi River at Dubuque (RR Bridge), Bellevue, and Fulton Gages at 18' (Moderate FS) and rising Mississippi River at Camanche Gage (Clinton) at 18.5' (Moderate FS) and rising	2-5	Mississippi River at Dubuque at 21.5’ (Major FS) and rising Mississippi River at Bellevue and Fulton at 20.0’ (Major FS) and rising Mississippi River at Camanche Gage (Clinton) at 20.5’ (Major FS) and rising	10-20
Des Moines	Gages reach flood stage U/S of Des Moines and Saylorville Lake is projected to hit elevation 880	4-8	All gages U/S and downstream of Des Moines reach (or are projected to) major flood stage. Saylorville is projected to overtop the spillway (890) and Red Rock is projected to overtop the full flood control pool (780)	12-20
Peoria	Any gage forecast to reach moderate flood stage, and/or Heavy rainfall event forecast over the Illinois River Basin and gages are at or forecast to reach minor flood stage	6-12	Any gage forecast to reach major flood stage	12-24
Quincy	Mississippi River at Gregory Landing-18' (Moderate FS) and rising Mississippi River at Quincy, IL Gage-22’ (Moderate FS) and rising	4-12	Mississippi River at Gregory Landing-20' (Moderate FS) and rising Mississippi River at Quincy, IL Gage-25’ (Major FS) and rising	10-30
Rockford	Mississippi River at Rock Island Gage at 16' (Moderate FS) and rising Rock River at Moline Gage at 13' (Moderate FS) and rising Rock River gage at Joslin at 15’ and rising	5-8	Mississippi River at Rock Island Gage at 18' (Major FS) and rising Rock River at Moline Gage at 14' (Major FS) and rising Rock River gage at Joslin at 17’ and rising	8-15
Waterloo	Any Iowa or Cedar River gage in moderate flood stage.	4-10	Any Iowa or Cedar River gage projected to reach or in major flood stage and rising.	8-20

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REQUESTING USACE ASSISTANCE



Local EM → County EM → State EM → USACE

TECHNICAL ASSISTANCE

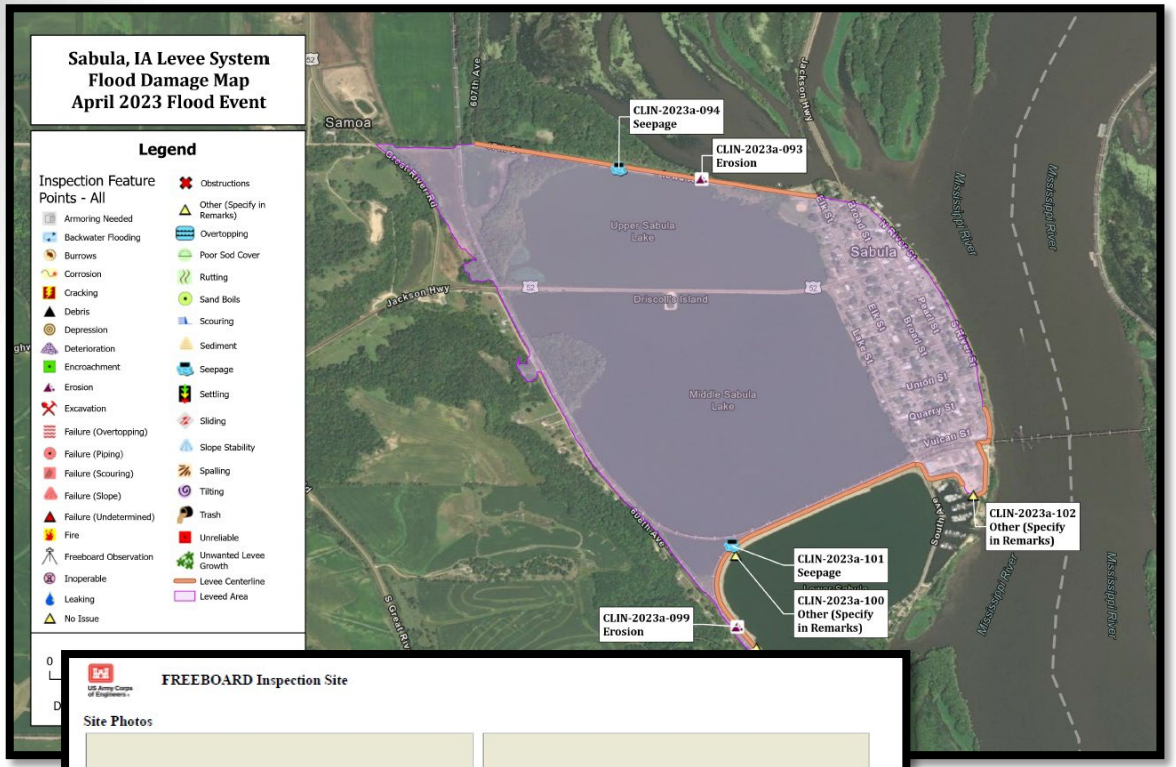
- Roving USACE 2-person trained flood fight teams provide technical expertise to address a particular situation.
- 100% federally funded.
- Advisement role only Corps does NOT tell sponsors how to attack a problem, you may take the advice or not. Costs are bourn by the implementing entity.
- The decision to evacuate an areas that may be inundated is by the local authorized official.

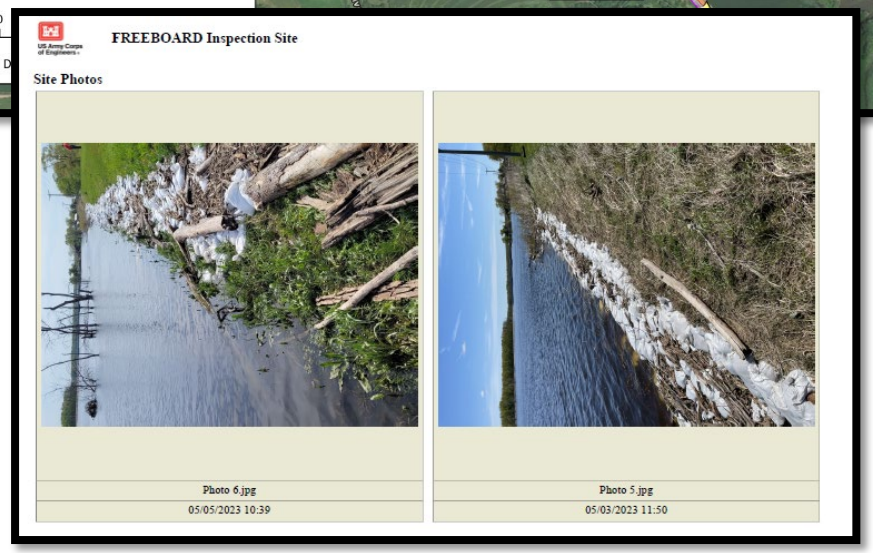






TECHNICAL ASSISTANCE – DATA COLLECTION





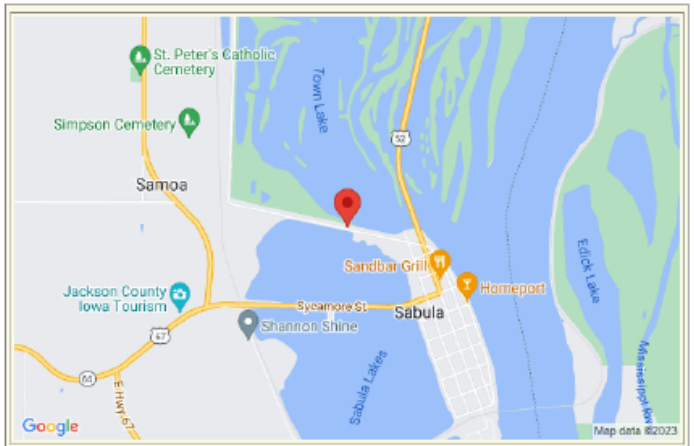
FREEBOARD Inspection Site

Site Photos

Photo 6.jpg	Photo 5.jpg
05/05/2023 10:39	05/03/2023 11:50

FREEBOARD Inspection Site

Site Id	CLIN-2023a-093
Feature	Levee Slope Only (R/S)
Deficiency	Erosion
Inspection Date	05/01/2023 15:28
Priority Level	Medium
Latitude	42.075189
Longitude	-90.18146
Inspector	



Remarks	High winds and long fetch have caused slope erosion. The sponsor and volunteers have been placing sand bags on the riverside slope to provide erosion protection against waves. 5/3: water has fallen to below about the bottom row of sandbags. No new erosion. 5-5 no updates, no new erosion

Monitoring Updates

Date	Remarks
05/15/2023 10:09	Last Inspection 12-15-2021. Observation 2020-0020 (a) noted previously overgrown grass was now properly maintained by the sponsor. Observation 2022-0022 (A) noted small animal burrow activity had been repaired from the previous inspection. Observation (2020-0023 (M) noted weed growth in the riprap that should be sprayed.
05/02/2023 21:06	PL84-99

Engineering Recommendations

Date	Remarks
05/02/2023 21:04	Once flood waters recede, determine extents of erosion damage.

If you don't document it, it didn't happen

DIRECT ASSISTANCE

U.S. ARMY

Issuance of supplies, loan of equipment

- Hand receipt required - signed by state and local entity.
- Entity agrees to return in good condition, replace in kind or pay the cost for USACE to replace.
- Local responder must pick up supplies and equipment.
- Provision of supplies and equipment is authorized only in actual flood emergencies for public infrastructure.
- Commander may waive reimbursement of supplies if there is a Presidential Disaster Declaration.



Contingency Contracting

- Last ditch effort will be to execute a contract under “urgent and compelling” conditions.
- Only after the local and state support has been exhausted or is not available.
- Execution is not immediate
  - Location/access, Design, Real Estate, Engage Partners
- Flood response assistance is intended to be a temporary measure.
- Removal or upgrade of all emergency measures is a local responsibility.



SUPPLY AND MATERIEL OPTIONS

U.S. ARMY



Godwin Pumps

- New Field Service Technology
- Sizes offered are 4”,6”,8”,12”, and 18”
- All accessories included:
  - Suction hose – 10’ section (x3)
  - Discharge hose – 50’ section (x3)
  - 45° or 90° elbows and screens (1 each)



Large Sandbags

- Dimension – 3’x3’x3’ when filled
- Air-liftable for strategic placement
  - 20’ wire sling with shackle included



Crisafulli Pumps

- PTO driven (drive equipment not provided by USACE)
- Sizes offered are 12” and 16”
- Discharge hose included: 50’ section (x3)



Inflatable Pipe Plugs

- **NEW PRODUCT** with 2 available options
  - 48” dia. air inflatable
  - 54” dia. water/air inflatable
- Conforms to most pipe or culvert shapes for superior leak protection



Gabion Baskets

- Set-up dimensions – 15’x3’x4’ per section
- Can be linked and stacked together quickly for increased flood protection when needed
- **Manufacturer representative available for on-site installation support**

Polyethylene Sheeting

- Dimensions per roll 100’x20’x6mm thick
- Used to wrap Gabion baskets or sandbags to decrease through seepage of flood barrier



Typical Sandbags

- Shipped in 4’x4’x4’ wooden crates
- 12,500 sandbags per crate
- 48 hr. max CONUS shipping time from date of request

AUTOMATIC SANDBAGGING MACHINE





End loader filling the Automatic Sandbagging Machine for the team of six that was able to fill and tie over 1,000 sandbags per hour in Quincy, IL during the 2019 flood event.

Self-contained
- Self Powered or Shore Powered

Fills
- 25-30 sandbags per minute
- 1,500 sandbags per hour, continuously

USACE
- Deploys
- Maintains unit during use.

Requester provides:
- Location
- Labor
  - Sandbag Filler,
  - Front End Operator,
  - Sandbag tyers / stackers
- Sand
- Fuel
- Sandbags

U.S. ARMY

PL 84-99 REHABILITATION ASSISTANCE

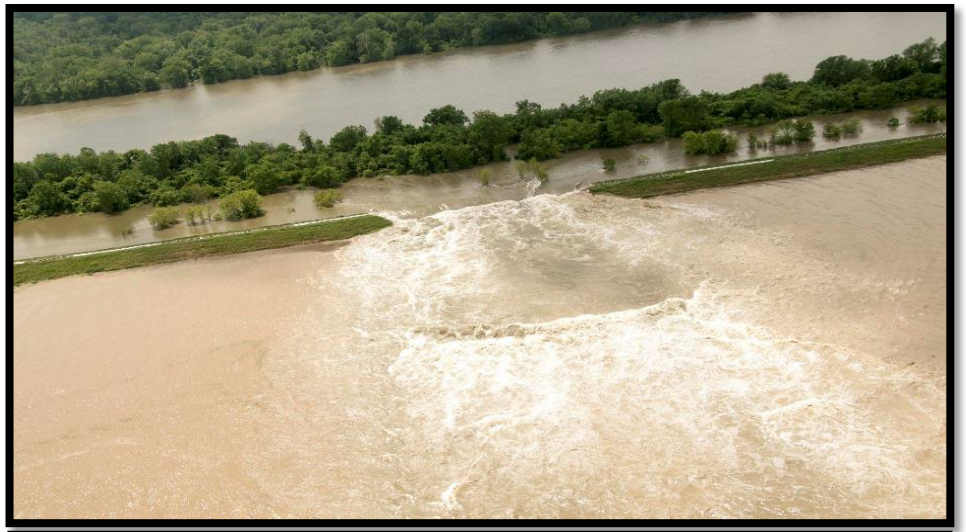
66

- Similar to an insurance policy
- Federal and Non-Federal constructed levees are eligible
- Requires a Sponsor (a taxing entity – a levee district) that operates and maintains the levee/channel/dam in accordance with the inspection checklist and 10 CFR 208.10
- USACE performs inspections and provides line-item ratings that determine if the levee system maintains eligibility for rehabilitation
- If flood risk management system is damaged during a flood event, an eligible sponsor can request assistance
- USACE designs repairs and issues contracts
  - Federal levee system repairs are 100% federal cost
  - Non-Federal levee system repairs are cost-shared 80/20, with 20% sponsor cost can be cash or work-in-kind (cost estimated using what it would cost the government to do)



TYPES OF PL 84-99 ELIGIBLE DAMAGES

- Breaches
  - Intentional breaches IF coordinated in advance the Corps
- Slides
- Wave wash
- Culvert damage
- Gate damage
- Pump station damage
- Some underseepage damages
- Sod cover









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PL 84-99 INELIGIBLE DAMAGES

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- Debris removal
- Flood fight and temporary barrier (pushup) removal – damage caused by push-up
- Intentional breach repair if not pre-coordinated with the Corps
- Issues considered normal part of operation and maintenance
- Backlogged maintenance

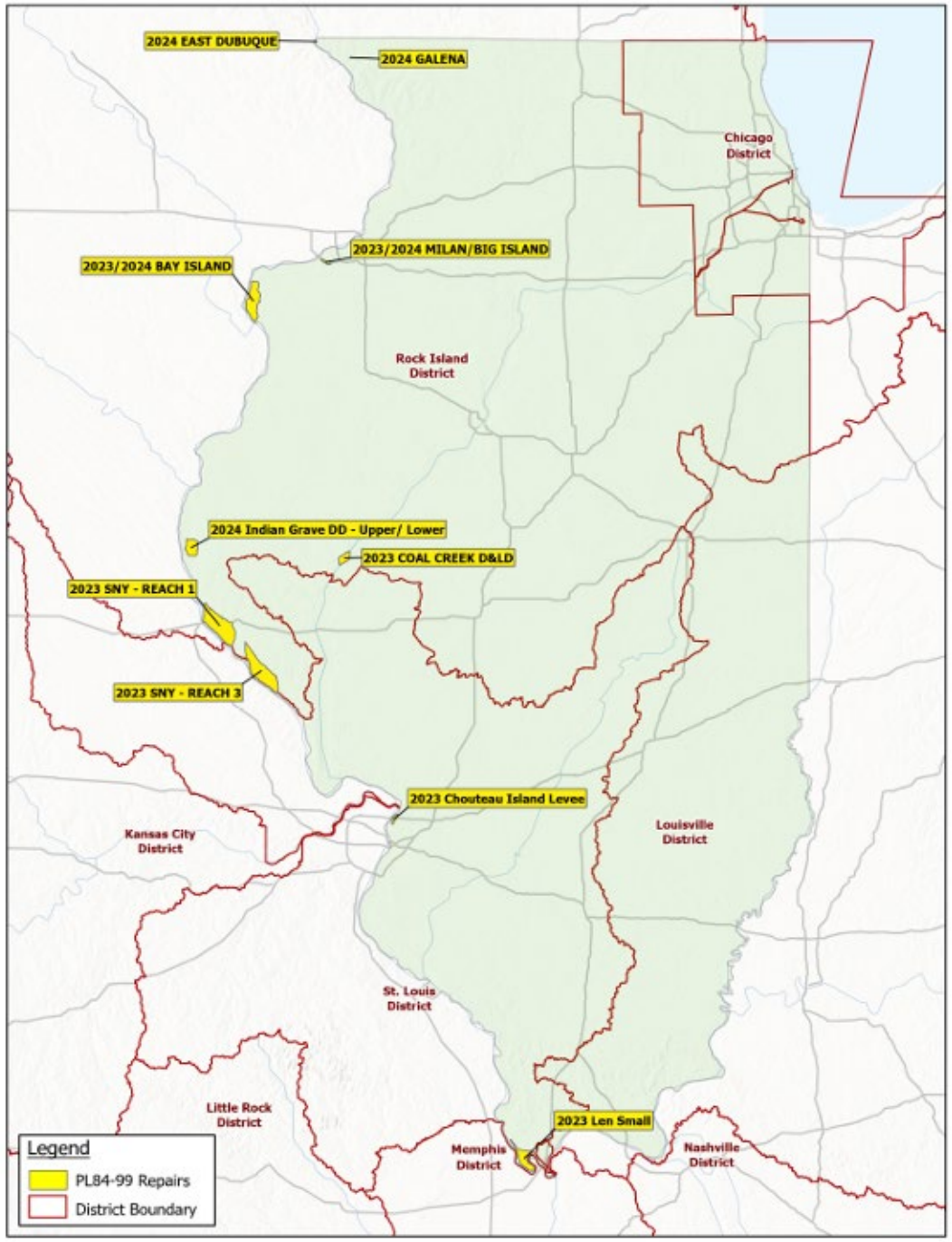






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STATE OF ILLINOIS PL 84-99 LEVEE REPAIR STATUS



Rock Island District:
Project Information Report Phase: 3
Design Phase: 2
Construction Phase 3

St. Louis District:
In Design: 2

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WATER ASSISTANCE – CONTAMINATED WATER SOURCE

Eligibility Criteria:

Requires written request from Governor or authorized representative

1. Max contaminant level or treatment technique under Safe Water Drinking Act exceeded
2. Water supply identified as source of illness by public health official
3. Emergency occurred causing contaminant to enter water source, endangering health, or equipment needed to remove contaminants has been made inoperable (example flooding, chemical spill)
4. Contaminant presence is indicated by other available information.

Type of Assistance

1. Purchase of water
2. Transport of water to local water points of distribution
3. Delivery of bulk or bottled water
4. Temporary connections of new supply to existing distribution system
5. Installation of temporary filtration
6. Use of reverse osmosis purification units (ROPU)

Limitations:

1. USACE assistance is limited to 30 days, or until FEMA assistance is provided (whichever happens first)
2. Multiple water sources with some contaminated and conservation measures in place can supply enough water = ineligible
3. Loss of water supply
4. Water is not furnished for businesses (does not prohibit furnishing water for drinking by employees/customers)

Scope of Approval

1. Temporary in Nature – for human consumption only
2. Supplemental to State and Local efforts
3. Available to localities whose, public or private owned water and/or distribution system services a community
4. 100% Federally Funded



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FLOOD FIGHT RESOURCES ONLINE

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About | Business With Us | Missions | Locations | Careers | Media | Library | Contact | Search Rock

US Army Corps of Engineers Rock Island District Website

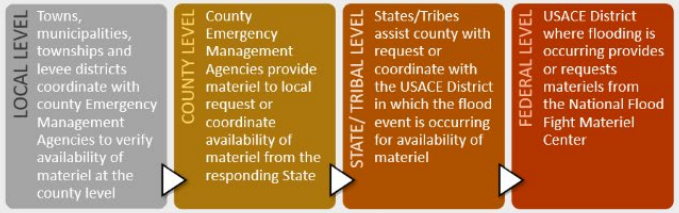
/ Missions / Emergency Management / NFFMC / Supplies

Available Flood Fight Supplies and Equipment

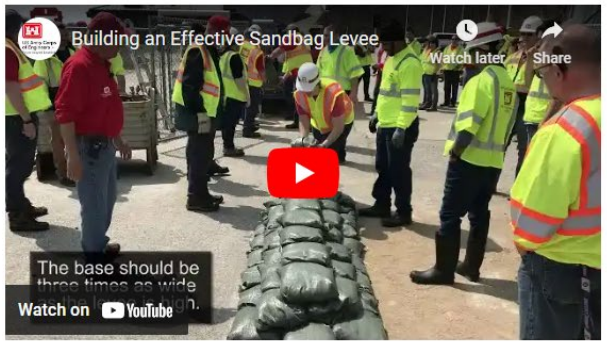
The National Flood Fight Materiel Center (NFFMC) at the Rock Island District can supplement USACE District's flood fight materiel, provide cost-effective surge and replenishment support, and reestablish USACE District stocks during recovery operations.

The NFFMC maintains a baseline inventories and Indefinite Delivery / Indefinite Quantity (IDIQ) type contracts with capabilities to provide flood fight materials to USACE districts throughout the continental United States. Outside the continental United States is on a case-by-case basis.

State, local, and Tribal governments can borrow flood fight supplies and equipment and receive onsite technical advice. The diagram below shows the process for obtaining supplies, equipment, or technical advice. *NOTE: Tribal governments can request directly from the USACE District the flooding is occurring.*



According to Regulation ER 500-1-1 4.3.e.(1), "Loaned supplies and equipment should be returned in the same condition as it was when lent, replaced in kind, or reimbursement made to USACE. District commanders may waive loan replacement requirements for expendable supplies when a presidential disaster declaration under authority of the Stafford Act has been made. Reimbursement is required for all other situations."





Available Supplies

Click on an item below for more information.

Collapse All Expand All

- Typical Sandbags
- Large Sandbags (with or without slings)
- Gabion Basket Type Temporary Flood Barriers
- Polyethylene Plastic Sheeting

Available Equipment

Click on an item below for more information.

Collapse All Expand All

- Pumps
- Culvert Bladders
- Sandbag Filling Machines

https://www.mvr.usace.army.mil/Missions/Emergency-Management/NFFMC/Supplies/

ROCK ISLAND DISTRICT POINTS OF CONTACT



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MAJ Matthew Fletcher
Deputy District Commander
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Brad Houzenga
Deputy District Engineer and Chief,
Programs and Project Management
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309-794-5260



Sarah Jones
Chief, Emergency Management Division
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309-794-5206



Cory Haberman
National Flood Material Center PM
Cory.J.Haberman@usace.army.mil
309-794-5325

STATEWIDE FLOOD WORKSHOP





MARCH 6, 2025

Erin Conley, CFM
Statewide NFIP Coordinator

Office of Water Resources

Illinois Emergency Management Agency and Office of Homeland Security

AGENDA



Mississippi River May 2023

OWR Flood Preparedness

OWR Flood Response

OWR Post-Flood Response

Illinois is a VERY Wet State

Illinois has the NATION'S largest inland system of floodplains

Floods happen EVERY YEAR in Illinois



E. Dubuque, May 2023



Floods are BY FAR the most common and most costly disaster in IL

IDNR – OFFICE OF WATER RESOURCES

Divisions

- Capital Programs
  - Engineering Studies
  - Design/Construction
  - Technical Services
  - Operations
- Resource Management
  - Regulatory Programs
  - Dam Safety Program
  - Lake MI Program
  - Statewide Programs
- Coastal Management
  - Technical Assistance to communities
  - Federal funding to local organizations

Offices

Springfield
One Natural Resources Way
217-524-1458

Bartlett
2050 West Stearns Rd.
847-608-3116

Chicago
160 N. LaSalle St., Ste S-703
312-793-3123

https://dnr.illinois.gov/waterresources.html

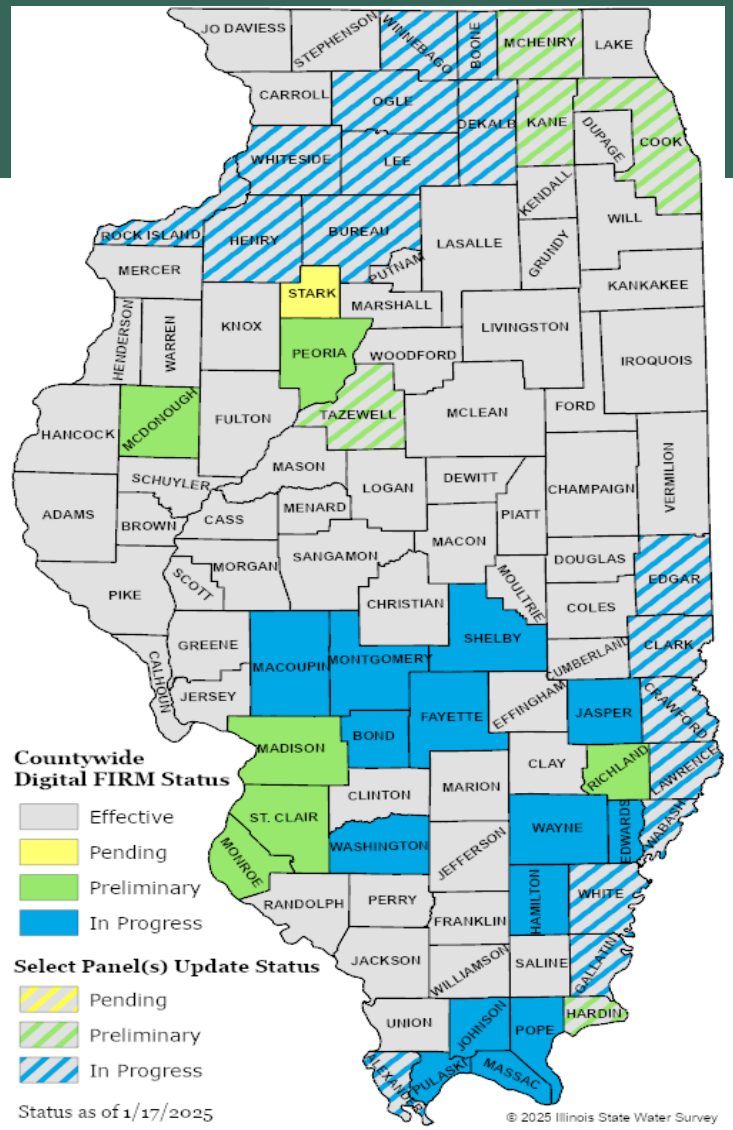
OWR Flood Preparedness

AGENDA



Mississippi River May 2023

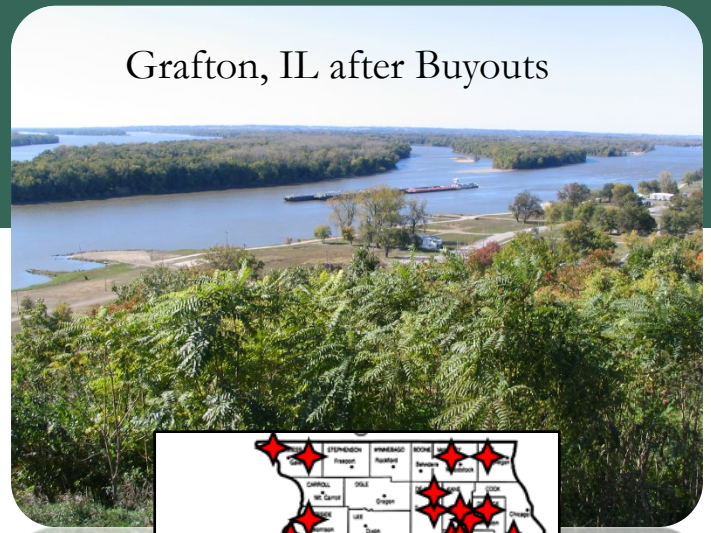
- NFIP Program
- OWR Mitigation Program
- Regulations and Permitting
- Dam Safety Program
- Planning Assistance
- Engineering Studies

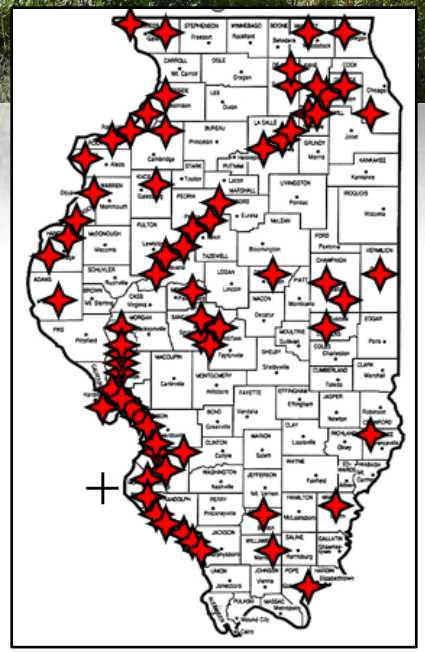


NFIP PROGRAM

- NFIP is a federal program that combines regulations, mapping, flood studies, and flood insurance to prevent future flooding and provide insurance to mitigate existing flood risk.
- Floodplain maps and Flood Insurance Studies help define the risk
- 896 IL Communities participate in the NFIP having adopted floodplain management regulations

Coordinated Hazard Assessment and Mapping Program (illinois.edu)





Almost 5,000 buyouts in IL

1

Community Mitigation

- Planning and Zoning
- Floodplain Management
- Minimize Development in High Risk Areas
- Provide Outreach and Education

2

OWR Funding

- Available through state legislature
- Grant program for floodplain buyouts
- Can be used as matching for IEMA/FEMA buyouts

3

Ineligible Funding

- Purchase Flood Insurance
- Elevate Home
- Raise Mechanical/ Electrical Elements
- Relocate Home
- Overhead sewers

Mitigation Objectives

- Statewide Flood Damage Reduction
- Preserve floodplain as open space in perpetuity
- Reduce risk to emergency responders
- Leverage Federal Flood Mitigation Dollars
- Support NFIP Communities/ Community Flood Mitigation Plans



REGULATIONS AND PERMITTING SECTION

- Downstate Regulatory Program
- Northeastern IL Regulatory Program

- Part 3700 Rules - Construction in Floodways of Rivers, Lakes and Streams
- Part 3704 Rules - Regulation of Public Waters
- Part 3708 Rules – Floodway Construction in Northeastern IL
- >1,000 floodway construction permits reviewed per year.
- ***New State Rule* Part 3710** - Floodplain Development Requirements for State Owned Properties



https://dnr.illinois.gov/waterresources/permitprograms.html

DAM SAFETY PROGRAM



300 Dam Visits

Review 15 Emergency Action Plans

Planning:

- Design = up to 36" Rain in 24 Hours
- Action occurs at Predefined Levels

Permits Needed:

- Construction, operation and maintenance of new and modification of existing dams
- Removing dams
- Transfer of ownership of dams

Part 3702 Rules – Construction and Maintenance of Dams

https://dnr.illinois.gov/waterresources/damsafetyprogram.html

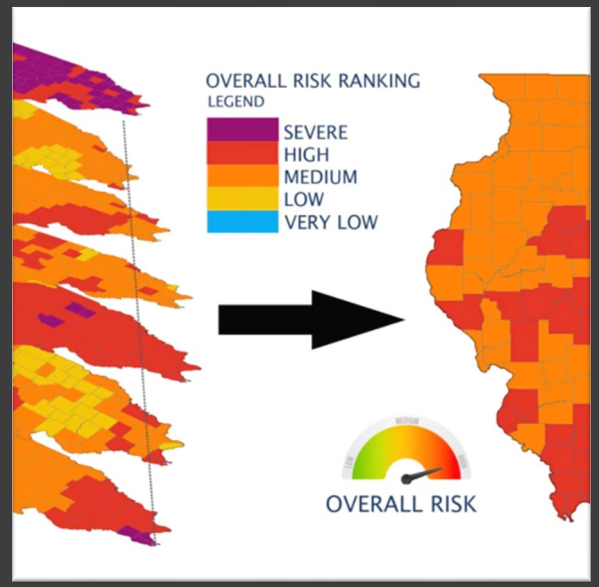


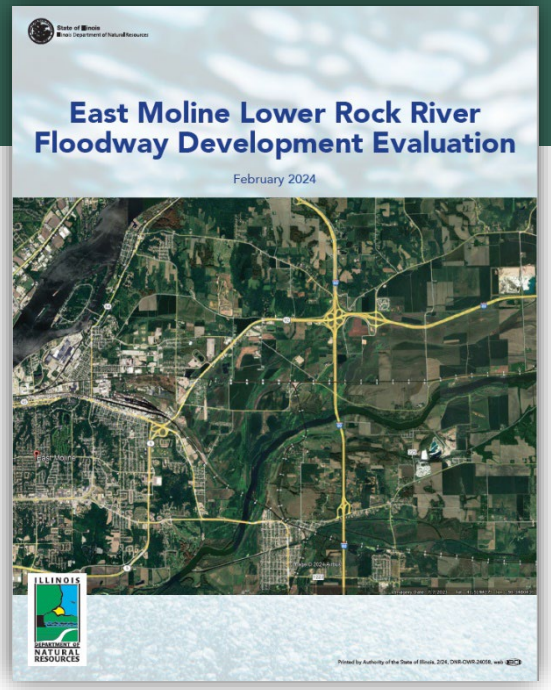


PLANNING ASSISTANCE

COUNTY AND STATE HAZARD PLANNING

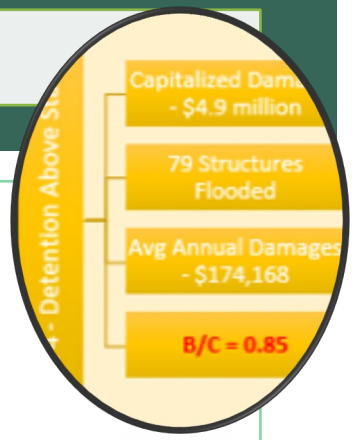
STATE WATER PLAN





ENGINEERING STUDIES PROGRAM

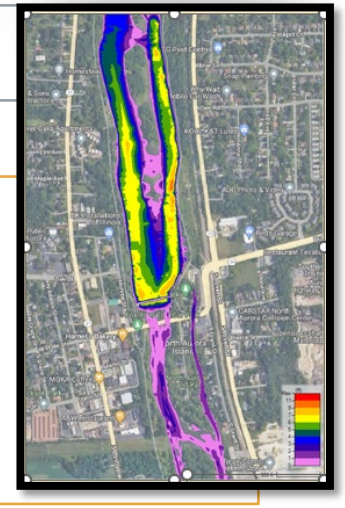
Flood Risk Assessments



Flood Damage Reduction Studies

- Analyze alternatives
- Generate cost estimates
- Provide guidance

Hydrology and Hydraulic Modeling



Local Technical Assistance

- Flood Damage Reduction
- Stream Restoration (Dam Removal, Erosion Mitigation)
- Water Supply Evaluations

OWR Flood Response

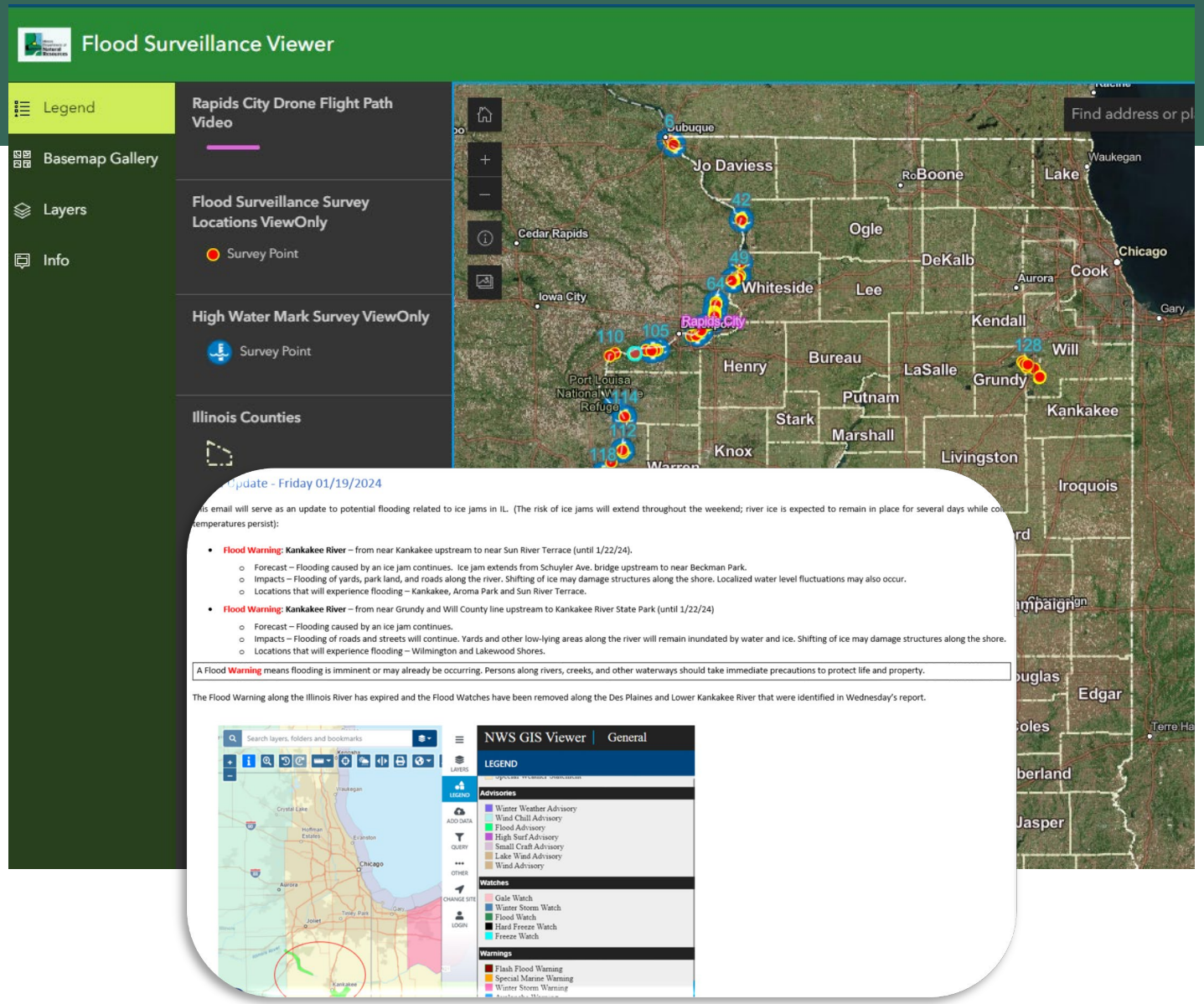
AGENDA



Mississippi River May 2023

- Flood Surveillance Program
  - Flood Reconnaissance
  - Inundation Mapping
  - SAFR Website
  - Elevation Finder
- GIS Mapping

FLOOD SURVEILLANCE



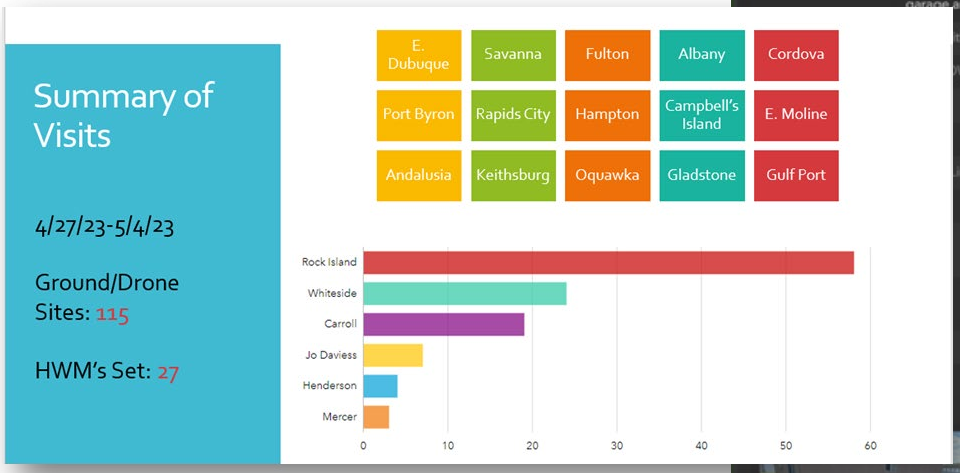
- Flood Reconnaissance
- Send Flood Reports (Alerts) to Agency and Community Leaders
- Flood Inundation Mapping
- Structures at Flood Risk (SAFR) Website
- Public Education and Outreach

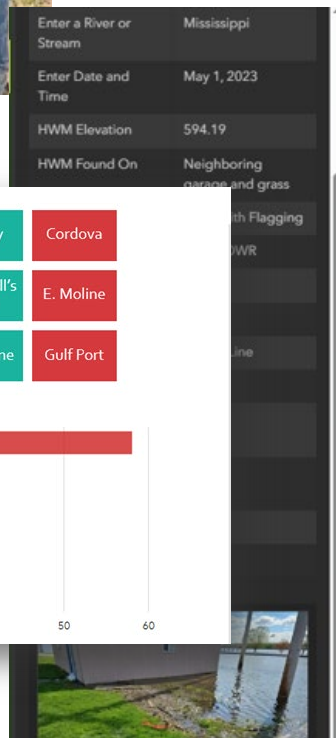
FLOOD RECONNAISSANCE

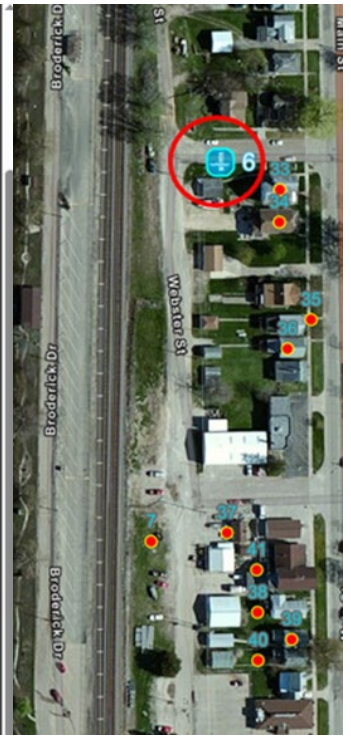
- Document Record Flood Events (Photos, Elevations, Drones)
- Set High Water Marks (HWM)
- Calibration of Models and Maps
- Summarize Flood Event Impacts
- Communicate Impacts to IEMA/USACE
- Coordinate HWM and Impacts with NWS



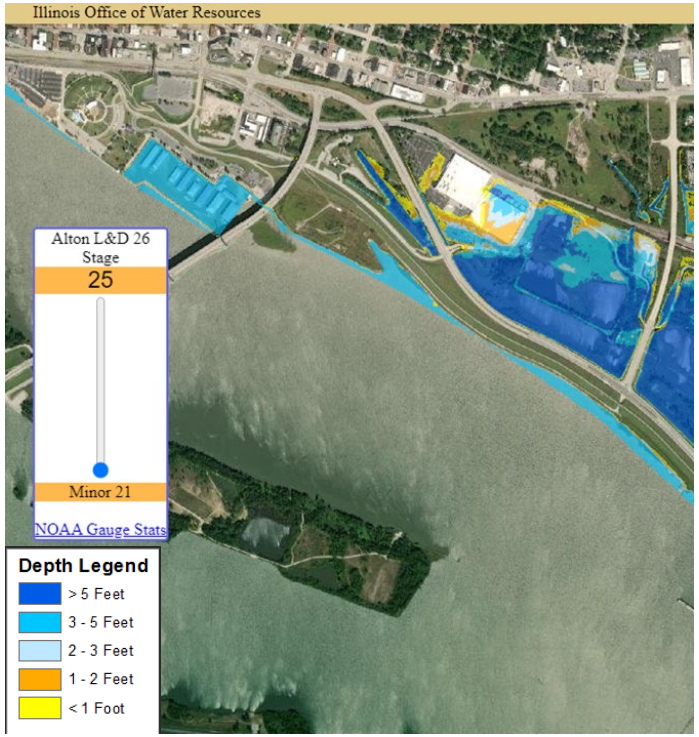


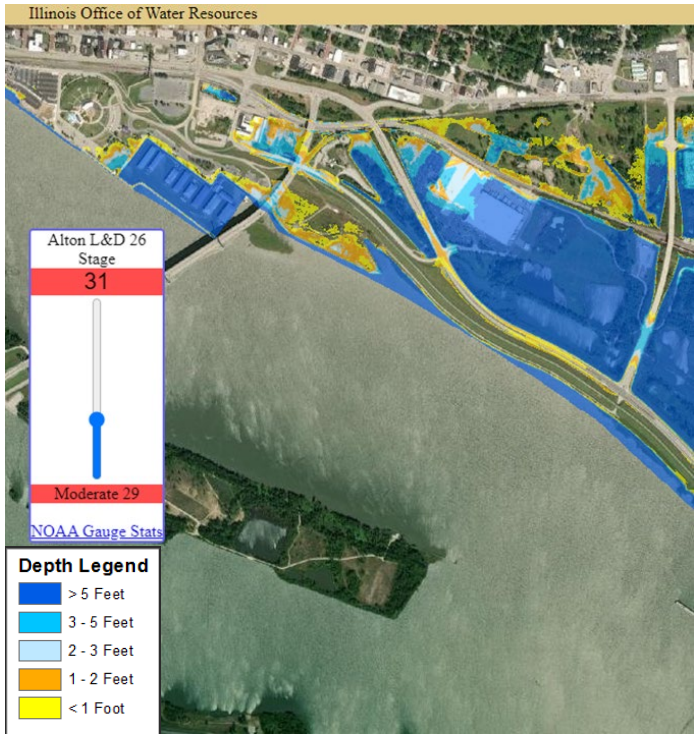


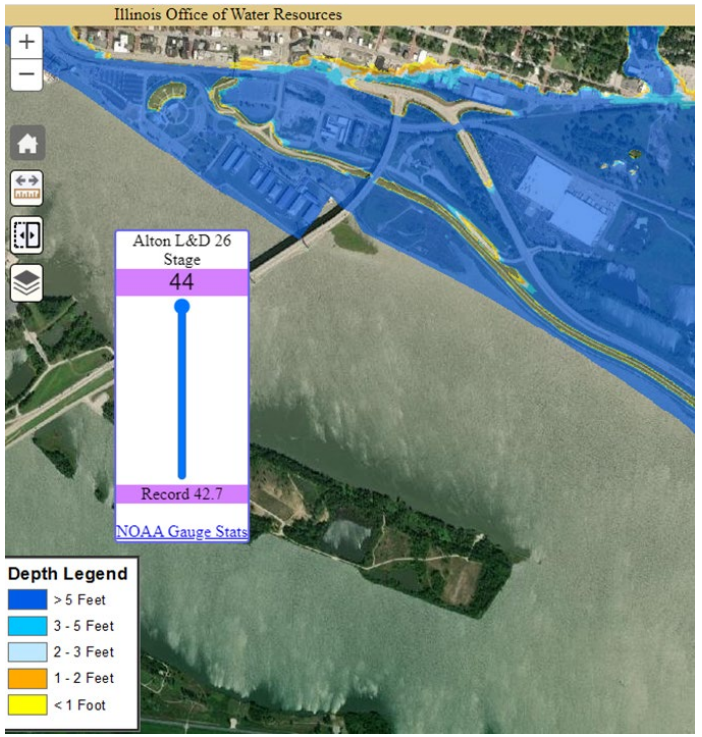




DYNAMIC INUNDATION MAPPING TOOL

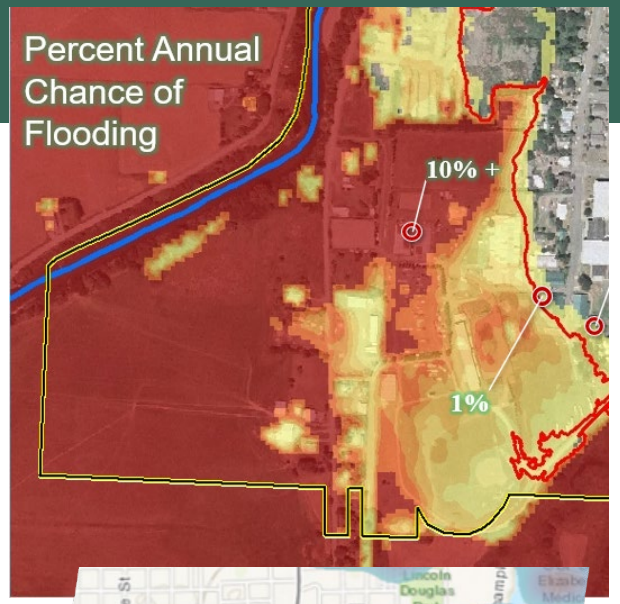


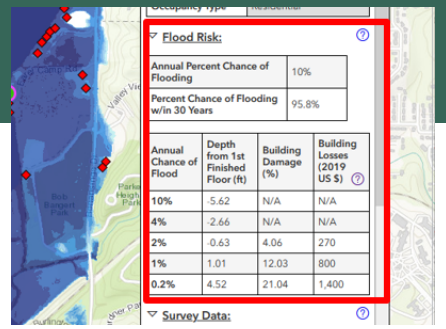


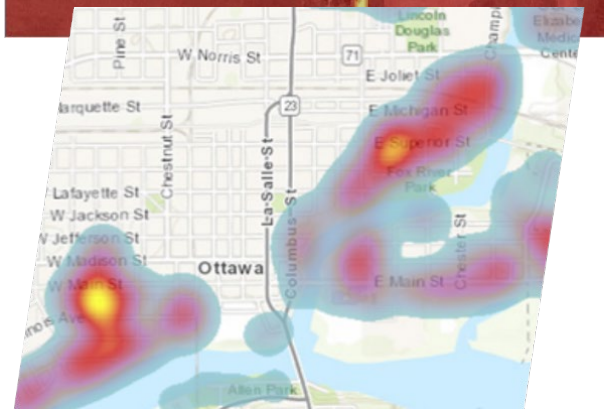


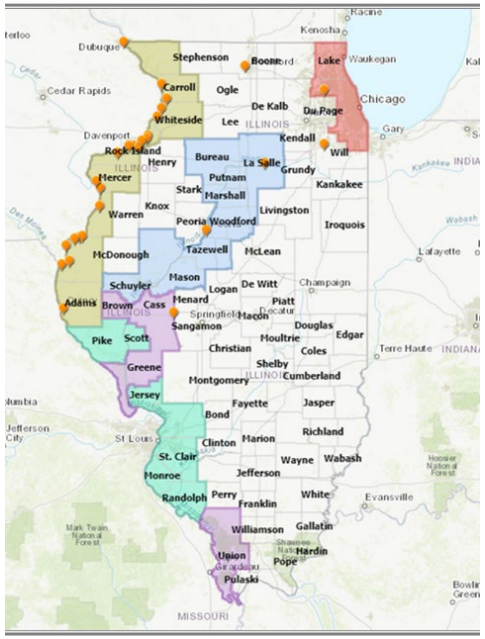
https://maps.dnr.illinois.gov/INUND/inund.html

SAFR WEBSITE





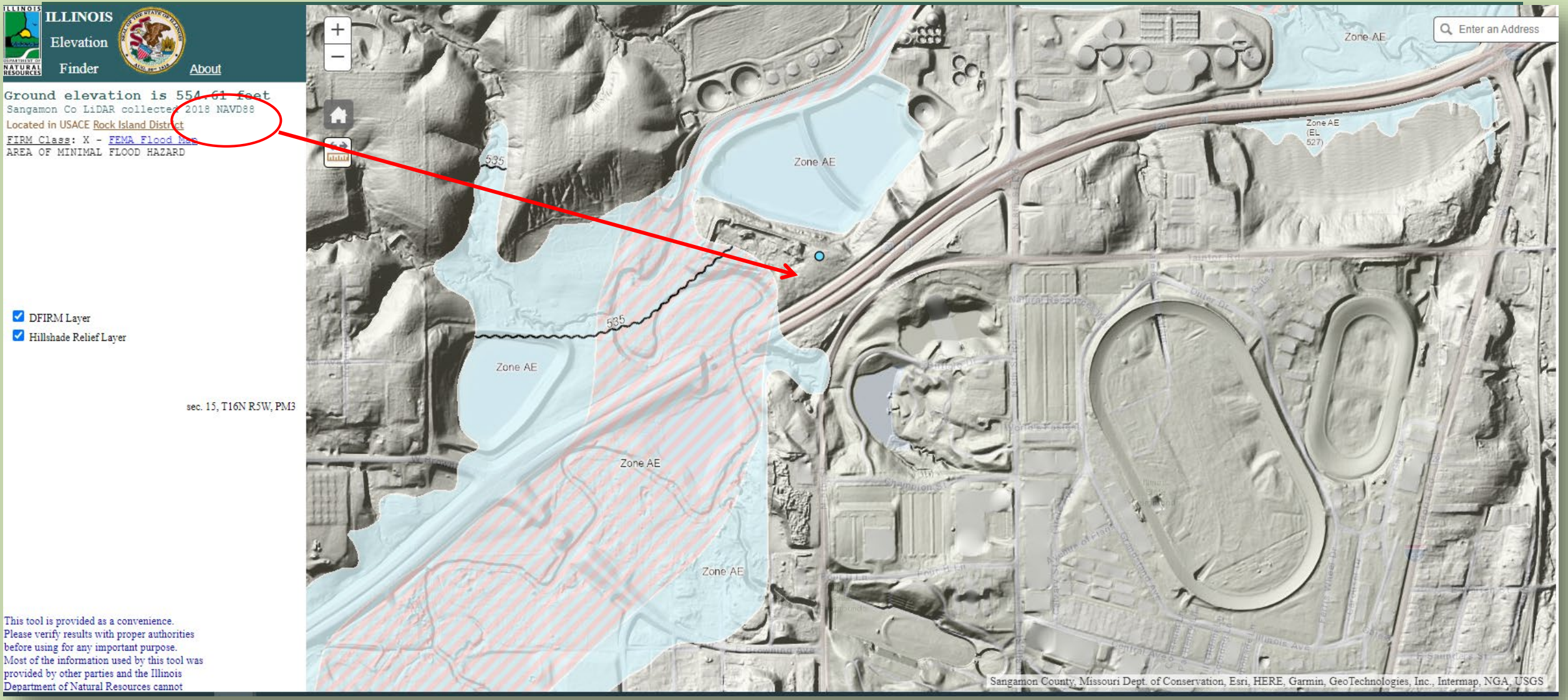




- Economic Losses
- Mapping Results
  - % Annual Chance of Flooding
  - % Chance of Flooding over a 30-year period
  - Inundation Maps
- Reports
  - Individual or community wide
- Downloadable Data

Rivers: MS, IL, Rock, Des Plaines, Middle Fork

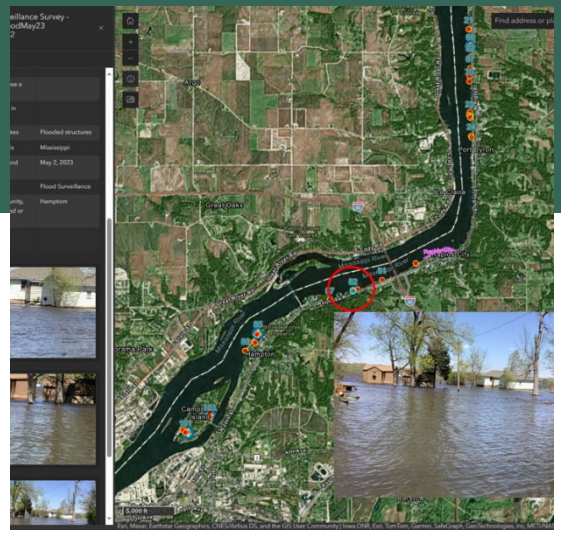
OWR Elevation Finder Tool

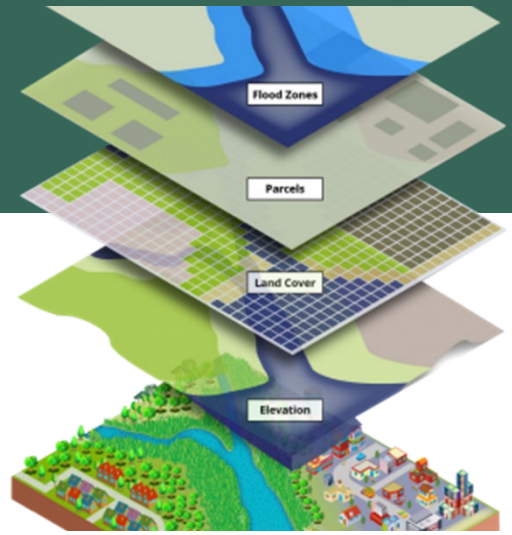


http://maps.dnr.illinois.gov/elev/

GIS MAPPING

- Storm Sewer Field Evaluation
- Geodatabase Development (SAFR)
- Generate Inundation Mapping
- Overlay Critical Infrastructure and Flooding
- Developed Flood Surveillance Field App
- Provide LiDAR Information for Modeling







AGENDA



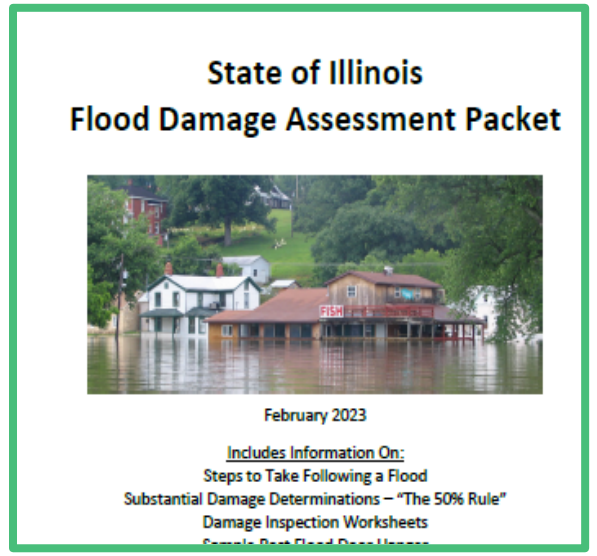
Mississippi River May 2023

OWR Post-Flood Response

- NFIP Substantial Damage Estimates
- Engineering Studies

NFIP SUBSTANTIAL DAMAGE DETERMINATIONS

- NFIP/Local floodplain regulations require that detailed damage assessments of ALL STRUCTURES IN THE FLOODPLAIN must be completed by the community after a flood event.
- IDNR/OWR staff assist community by providing an instruction guidebook and in-person training
- If damage is equal to or greater than 50% of the structure's fair market value – the structured is Substantially Damaged under the NFIP and local code
- Substantially Damages structures **must be mitigated**:
  - Elevate
  - Relocated out of floodplain
  - Demolish
  - Floodproof (non-residential structures only)



ENGINEERING STUDIES

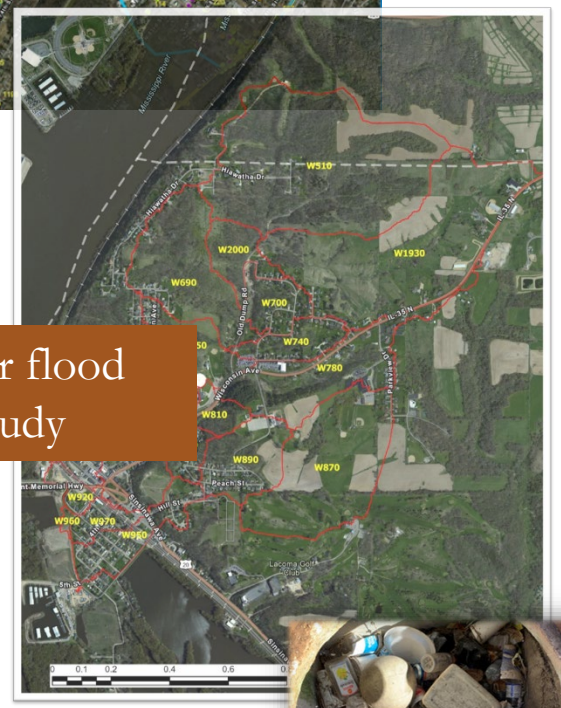




- Stream Restoration Study
- Flood Reduction Study
  - Cause of event
  - High Water Elevations
  - Erosion
  - Debris impacts
  - Infrastructure impacted
- Dewatering Technical Assistance
- Infrastructure Analysis

Information for flood reduction study







OFFICE OF WATER RESOURCES CONTACTS

NFIP – Erin.C.Conley@Illinois.gov

Mitigation – Ron.Davis@illinois.gov

Flood Surveillance – Terra.McParland@illinois.gov

Engineering Studies – Terra.McParland@illinois.gov

Dam Safety – Paul.Mauer@Illinois.gov

Floodway Permitting – Bill.Milner@Illinois.gov & NE IL William.Boyd@illinois.gov

Coastal Management Program – Meg.Kelly@Illinois.gov

GIS Specialist – Pamela.Brooks@Illinois.gov



IEMA-OHS Field Operations

Bob Flemming

Acting Manager of Field Operations

IEMA-OHS RESPONSE OPERATIONS

- Regional Office Support
- WebEOC
  - Resource Requests
  - Lifelines
- Lines of Effort
- Flood Hazard Identification Card

IEMA-OHS RESPONSE OPERATIONS

- The Regional Offices will continue to:
  - Assist jurisdictions in Flood Preparedness Activities
  - Provide assistance during Flood Operations
  - Information Management
  - Resource Management
  - Documentation Support
  - EOC/IC Support
  - Coordinates information flow to either the State Unified Area Command or the State EOC

IEMA-OHS RESPONSE OPERATIONS

WebEOC RESOURCE REQUEST

- Any request for State resources must go through the County EMA to the Regional Office or the Agency Duty Officer then forwarded to the State EOC or State Unified Command; if one is established.
- Resource being requested should be utilized for protecting Critical Infrastructure (hospital, major roadway, water treatment plant, etc.)
- Resource request must include all required fields of the WebEOC resource management module
- Will be requested by 1200 the day before the resource is needed

IEMA-OHS RESPONSE OPERATIONS

- Information Management
  - Regional coordinators will assist, track and report Community Lifeline indicators throughout the Response and Recovery
    - Safety and Security
    - Food, Hydration, Shelter
    - Health and Medical
    - Energy
    - Communications
    - Transportation
    - Hazardous Materials
    - Water Systems



IEMA-OHS RESPONSE OPERATIONS

LINES OF EFFORT

- Damage Assessment
- Debris Management
- Evacuation
- Hazardous Waste
- Medical Transportation
- Private Sector Coordination
- Public Information and Warning
- Responder Security and Safety
- Search and Rescue
- Sheltering Operations
- Temporary Emergency Power

IEMA-OHS RESPONSE OPERATIONS

- Information Management (CONT'D)
  - Hazard Identification Card

SANDBAGGING OPERATIONS

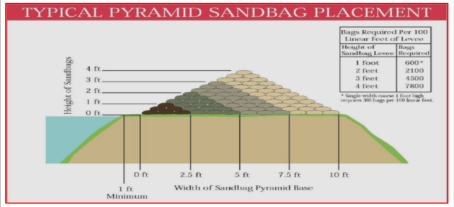
Linear Feet	NUMBER OF SANDBAGS REQUIRED			
	Height of Wall *(In feet)*			
	1'	2'	3'	4'
100' Single Layer	600			
PYRAMID SANDBAG LEVEE				
50'	250	850	1,800	3,100
100'	500	1,700	3,600	6,200
200'	1,000	3,400	7,200	12,400
300'	1,500	5,100	10,800	18,600

Pyramid Sandbag Formula

$$N = \frac{3H \times 9H^2}{2} \times \text{Length in feet}$$

N = Total number of sandbags needed
3H = Height of sandbag wall
$9H^2$ = Width of sandbag wall

TYPICAL PYRAMID SANDBAG PLACEMENT



- 1 bag length equals about 1 foot
- 3 bag widths equals about 2-1/2 feet
- 3 bags high equals about 1 foot
- *Single width course requires 300 bags per 100 linear feet, one foot high*

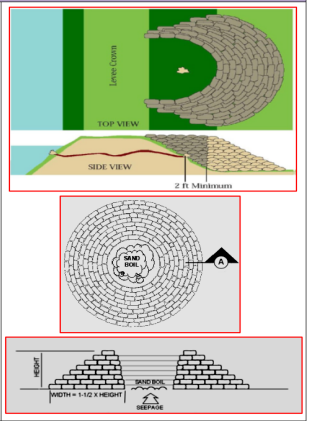
SAND ESTIMATES

- One Tandem Truck of Sand = approximately 10 Tons
  - 10 Tons of sand fills approximately 1,200 30# bags

SANDBAGGING (RINGING) BOILS

Do not attempt to place sandbags over the boil.

- Maintain a minimum 2 – 3 feet radius from the center of the boil to the edge of the sandbag dike.
- Tie the sandbag dike into the levee if the boil is near the toe of the levee
- Build a half-moon shaped ring dike if the boil is on the levee slope.
- Ensure the entire area of the boil is ringed within the dike.
  - The height of a ring dike should be only sufficient enough to create enough head to reduce flow through the boil so that no more material is displaced and the boil runs clear.
- Build a spillway (runoff) to control/remove runoff away from the ring dike and prevent erosion.
  - Cover spillway and runoff slope with visquine or other material to prevent erosion.
- Once spillway water is running clear and free of sand, dirt, gravel and/or debris the ring dike is complete.



ALTERNATIVES - DIVERSION/DIKING/BARRIERS

STRAW BALES

- Secure straw bales to the levee top by driving 4-10 feet stakes or rebar through each bale into the levee. Weight straw bales down with filled sand bags.
  - Straw bales come in a variety of sizes to include 18" wide X 30" long and 4'H X 4'W X 8'L

JERSEY BARRIERS

- Install concrete Jersey Barriers as flow diversion channels.

PLASTIC SHEETING

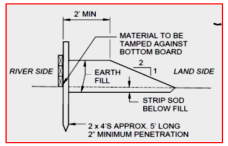
- Install plastic sheeting or visquine and load with sand to form a diversion barrier or dike by folding plastic back against sand piles.

FLASH BOARD

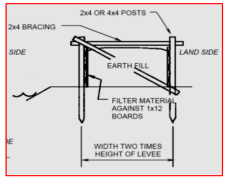
- Install flash boards (2'H X' 8"W X L) facing river/flood side of levee. Secure in place with 2 X 4 stakes approximately 5' in length. Stakes must be set a minimum of 2" into the levee top. Back fill the flash board dike with earth or sandbags to prevent movement and flexing. Back fill should be graded at 2' to 1' length/ grade.

FLASH BOARD/BOX LEVEE

FLASH BOARD LEVEE



BOX LEVEE



https://IEMAOHS.Illinois.gov/LocalEMA/OtherResources.html

Operations

Sam Hall

SEOC Manager & Operations Center Manager

SEOC Support

- Resource and Tracking:
  - WebEOC Event: 2025 Spring Flooding
- Areas of Concern:
  - IDOC Changes to Available Resources
- Resources:
  - IEMA-OHS (Field Ops, GIS, PIO, Recovery)
  - IDOT
  - IPWMAN
  - Volunteer Services

Samantha Hall | SEOC Manager | Operations Center Manager
Samantha.M.Hall@illinois.gov or EMA.WatchOffice@illinois.gov
24/7 OPS Center Line: 217-782-7860 | Direct Line: 217-558-8191 | Cell: 217-720-2661

IEMA-OHS Operations

Brent Thomas
& Ronie Henkhaus

GIS

IEMA-OHS Geospatial Resource Center Homepage



https://state-eoc-ilema.hub.arcgis.com/

Flooding_Road_Closures - ClosureIncidentExtents

Live Stream Gauges

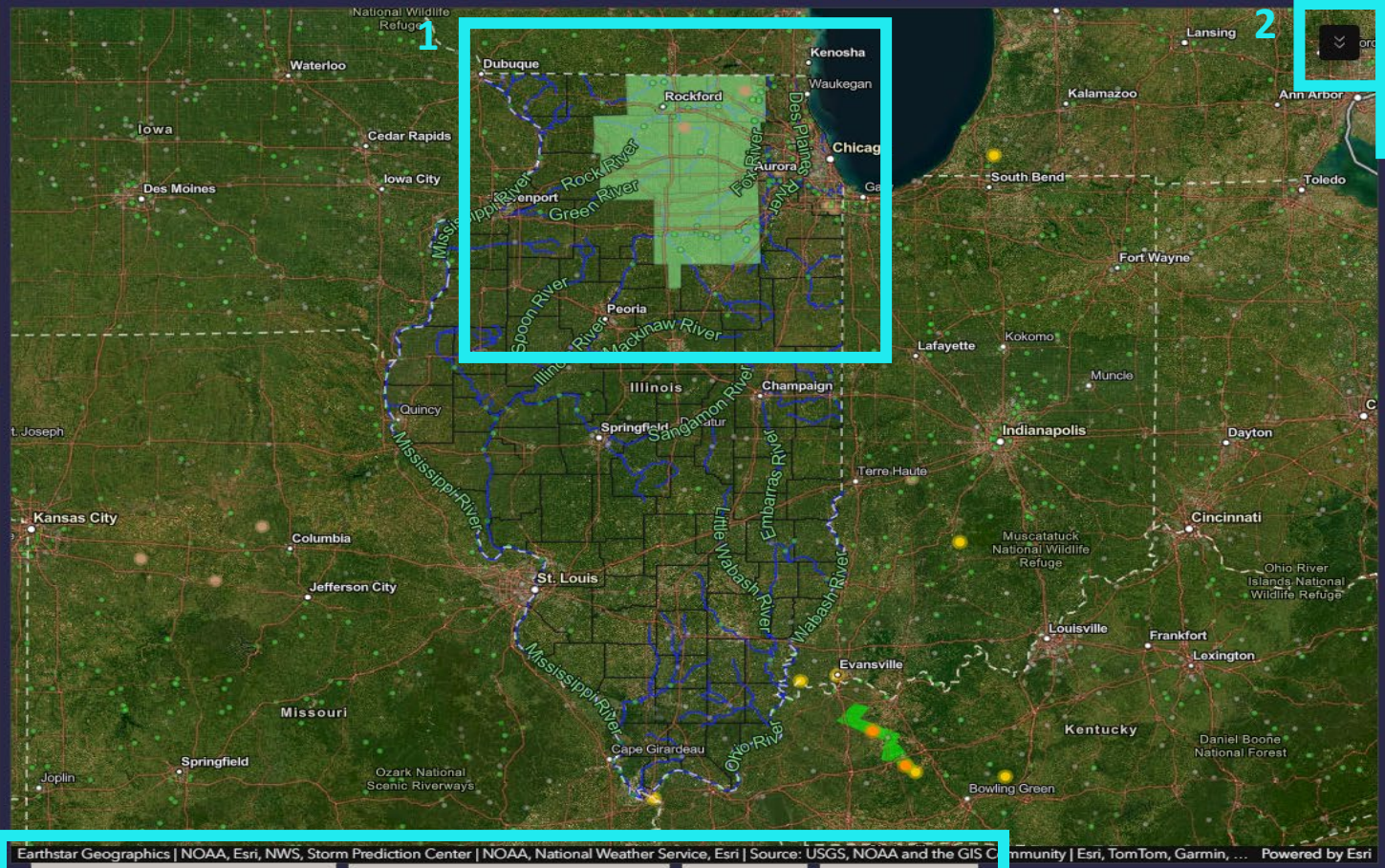
Status
- Major Flood
- Moderate Flood
- Minor Flood
- Action Stage
- Low Flow
- No Flooding
- Unknown

USA Weather Watches and Warnings - Events Ordered by Size and Severity
- Arroyo and Small Stream Flood Advisory
- Civil Danger Warning
- Civil Emergency Message
- Evacuation - Immediate

USA Storm Reports (past 24 hours)

No data

Action Stage	Minor Stage	Moderate Stage	Major Stage
1	0	0	0
River Gauge	River Gauge	River Gauge	River Gauge



Current Weather Map with Radar | Description of Flooding Frequency | 3 Day Max | 3 Day Average

Action Flood Stage

Ohio River at Cairo

Minor Flood Stage

No data

Moderate Flood Stage

No data

Major Flood Stage

No data

1. Map

Selected Layer

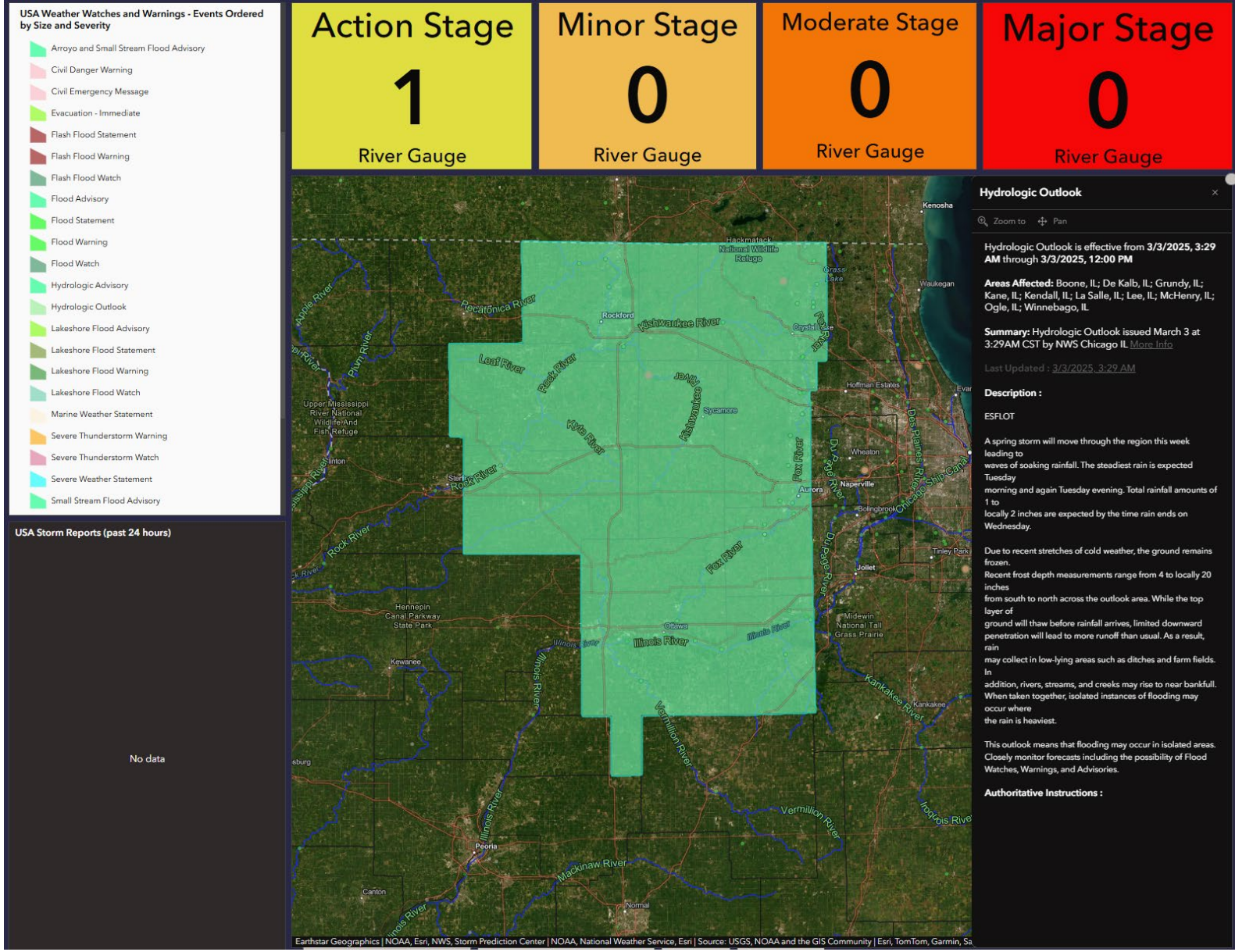
- The selected area will be highlighted on the map.

Legend

- The selected layer will corollate with the layer in the upper left-hand corner.
- Scroll down if you don’t see the feature.

Layer Description

- Date and Time: Indicates when the event is under advisement
- Areas Affected: Lists the regions impacted by the event
- Summary: A brief overview of the event
- Links: Provides related resources or additional details
- Description: A more detailed explanation of the event



2. Dropdown

Search

- Allows you to find an address or place

Legend

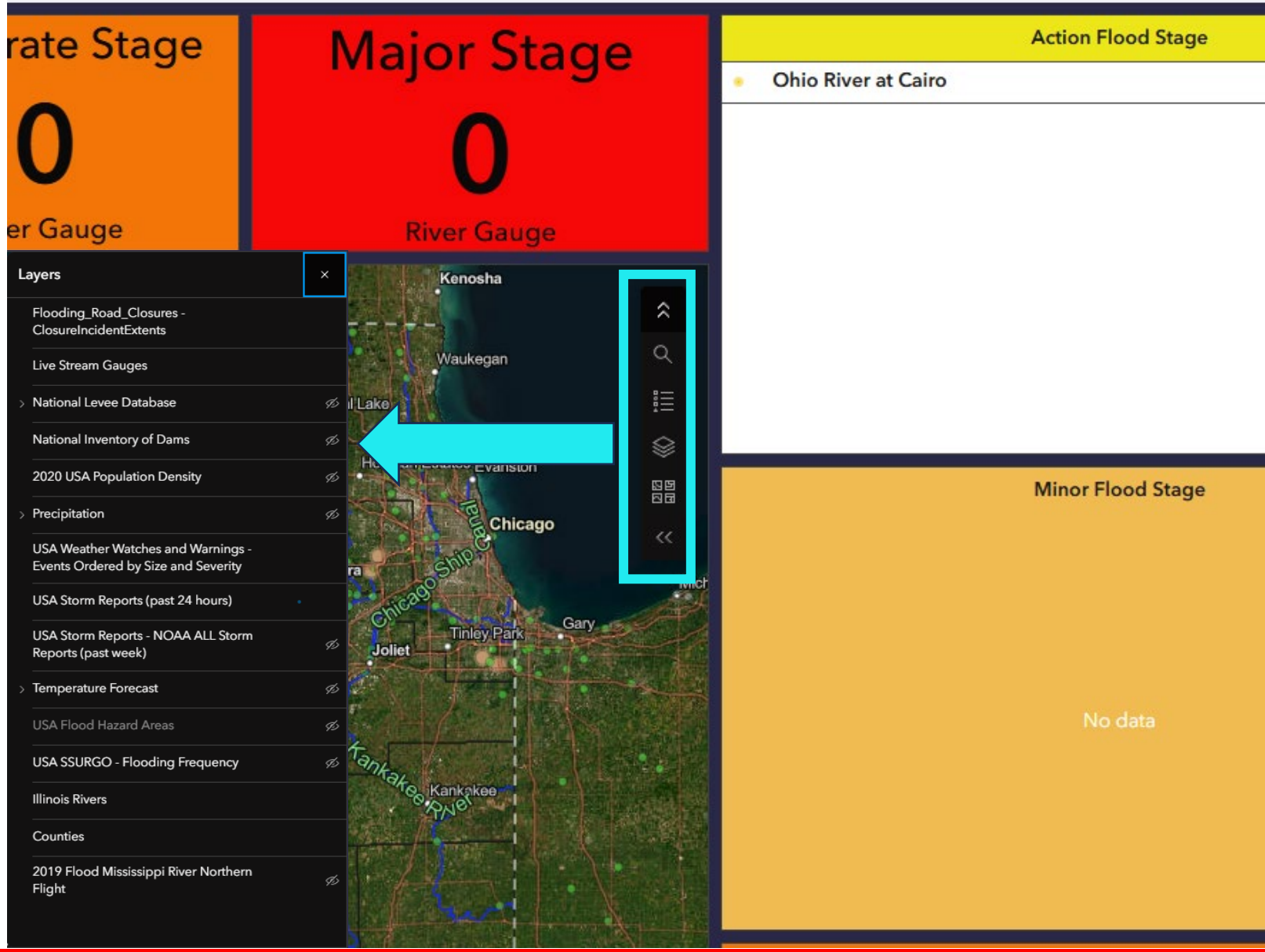
- Currently, the legend is displayed in the top left-hand corner

Layers

- Layers are similar to what you see in the bottom left-hand corner of the display.
- The “National Inventory of Dams” layer currently displays an eye with a line trough it representing that layer is hidden.
- Layers can be toggled on and off by clicking the eye icon.
- Layers can be change

Basemaps

- The basemap is the map that the data is displayed on
- “Imagery Hybrid” is the current basemap



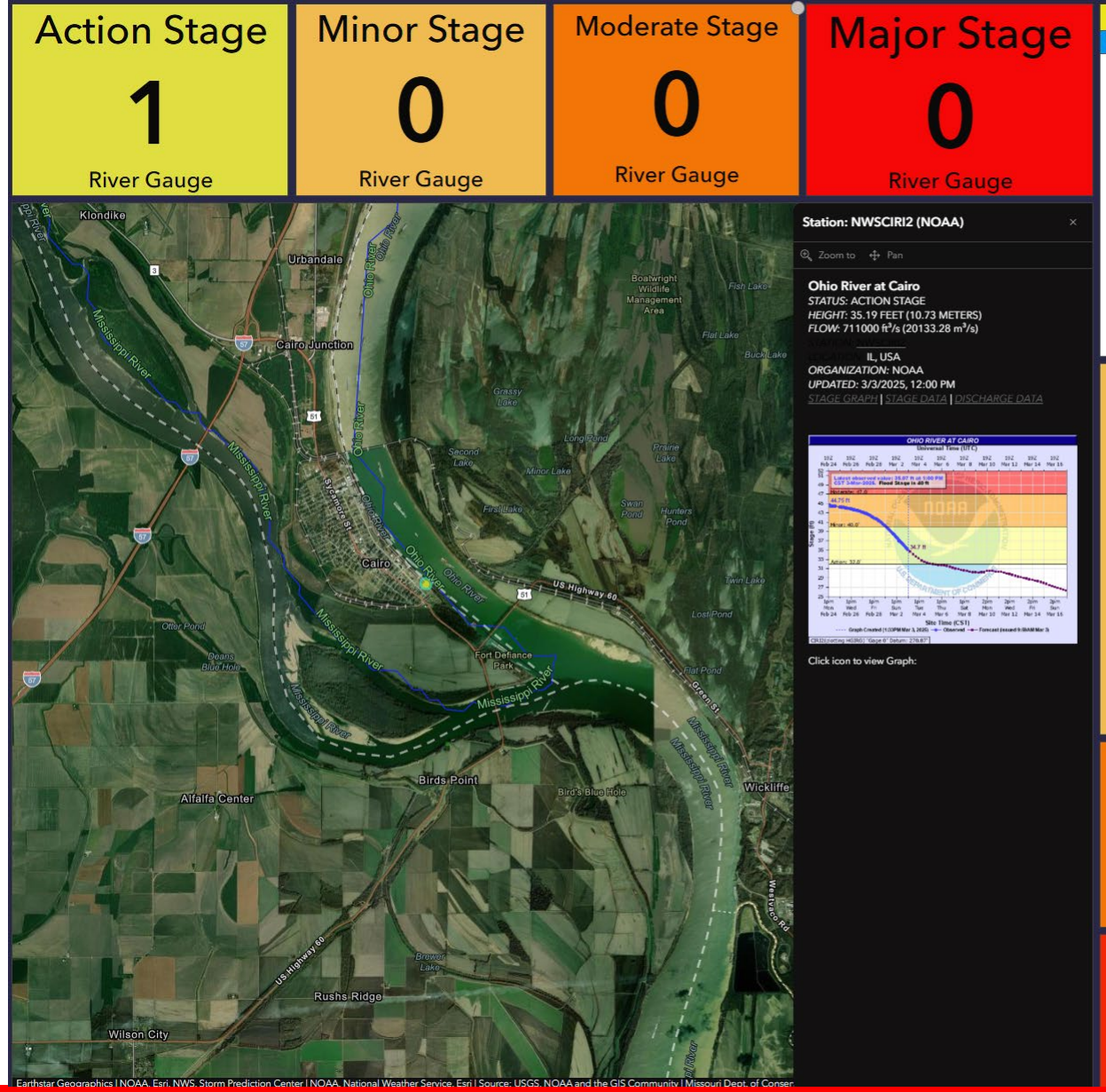
3. Widgets

River Guage

- Displays the number of river gauges at each stage.

Flood Stage

- Shows the name of the river, its location, and the current flood stage
- Items within the flood stage are selectable and will provide detailed information about the location.
- In the pop-out display, you can zoom or pan to the selected location.



4. Tabs

Current Weather Map with Radar

- Displays the current weather on the map, including radar data.

Description of Flooding Frequency

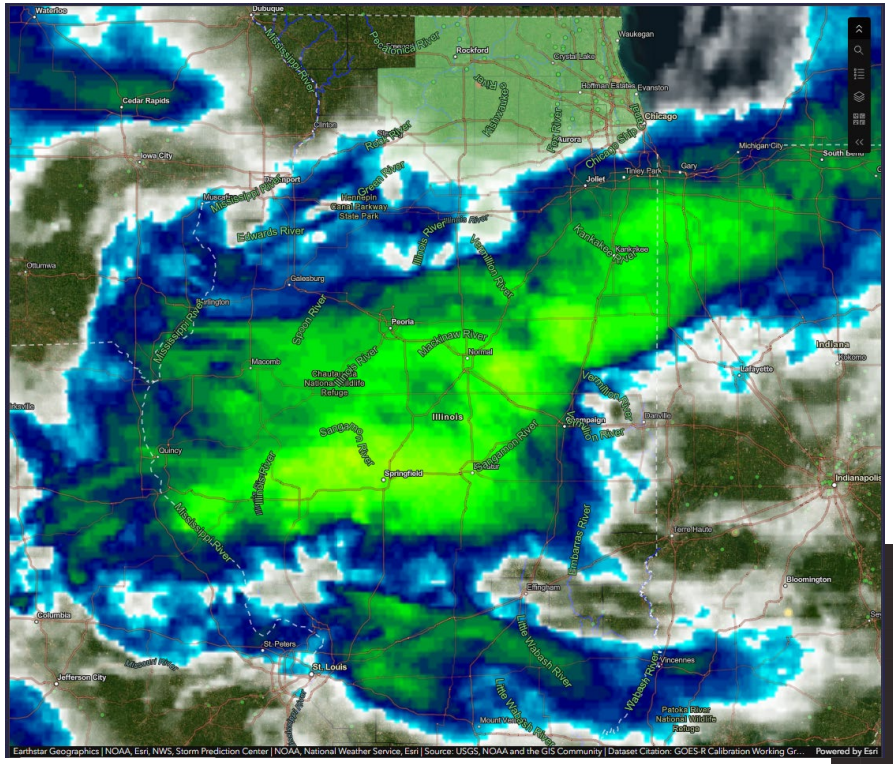
- Provides a detailed description of the meaning of each flood frequency category

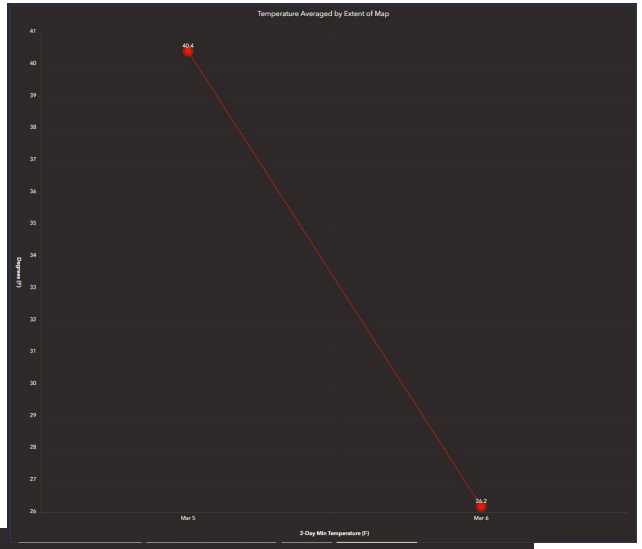
3Day Max

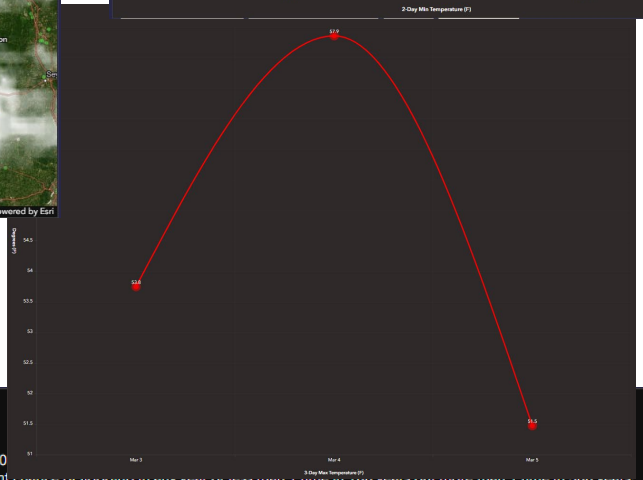
- A graph showing the maximum temperature over the past 3 days

2 Day Average

- A graph displaying the average temperature over the part 2 days







Description of Flooding Frequency - Natural Resources Conservation Service

This layer provides an estimate of flood frequency as one of seven classes:

- **None:** No reasonable possibility of flooding; one chance out of 500 of flooding in any year or less than 1 time in 50
- **Very Rare:** Flooding is very unlikely but is possible under extremely unusual weather conditions; less than 1 percent
- **Rare:** Flooding is unlikely but is possible under unusual weather conditions; 1 to 5 percent chance of flooding in any year or nearly 1 to 5 times in 100 years.
- **Occasional:** Flooding is expected infrequently under usual weather conditions; 5 to 50 percent chance of flooding in any year or 5 to 50 times in 100 years.
- **Common**
- **Frequent:** Flooding is likely to occur often under usual weather conditions; more than a 50 percent chance of flooding in any year (i.e., 50 times in 100 years), but less than a 50 percent chance of flooding in all months in any year.
- **Very Frequent:** Flooding is likely to occur very often under usual weather conditions; more than a 50 percent chance of flooding in all months of any year.

Learn More

Technical Support: EMA.IL.GIS@Illinois.gov

Requesting New Accounts: EMA.WatchOffice@illinois.gov

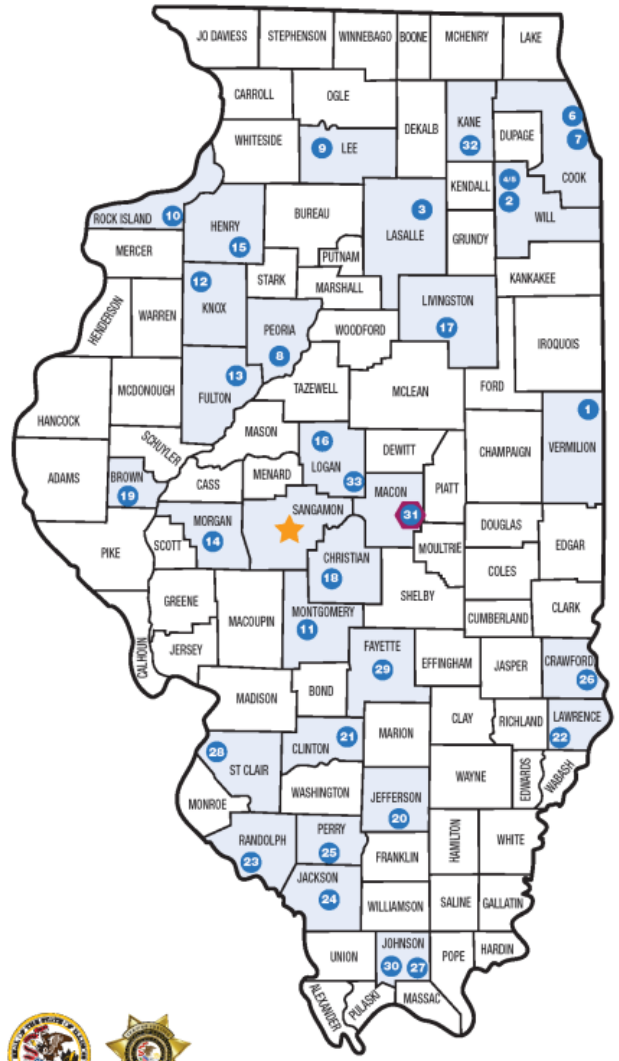
Illinois Dept of Corrections

Brad Baker

Statewide Security Administrator

IDOC Work Crews

- Approximate Number of Work Crews Available
  - 31 Crews
    - Northern – 2 Crews (Region 1)
    - Central – 13 Crews (Region 2)
    - Southern – 11 Crews (Region 3)
  - Available Crew Number are dependent on:
    - Availability of Staffing to Support/Supervise
    - Demand on Internal IDOC transportation assets



STATE OF ILLINOIS
ILLINOIS DEPARTMENT OF CORRECTIONS

Department of Transportation

Brandon Keller

Transportation Infrastructure Security Unit

Illinois Department of Transportation

Illinois Department of Transportation

Inventory

De-Watering Pumps		
Type	Size	# Available
Crisafulli	16"	11
Crisafulli	8"	5
Diesel	8"	6
Diesel	6"	13
Gas	4"	3
Gas	3"	1
	Total	**39**

Sandbags & Plastic (rolls)		
Location	**Sandbags**	**Plastic (rolls)**
District 2	96,000	157
District 4	93,000	158
District 8	214,000	162
District 9	151,000	181
Day Labor	575,000	1280
Sny Levee	59,000	30
IDOC	200,000	0
Total	**1,388,000**	**1968**

Illinois Department of Transportation

Crisafulli Pump

- Pump comes with 50’ discharge hose
- No suction hose, with recommended 50’ discharge hose
- Powered by separate (not provided) tractor with PTO
- Minimum 150HP at the PTO
- Sealed bearings MUST be greased DAILY
- If delivered, need forklift to off load (Approx. weight 2,200 lbs)



Illinois Department of Transportation

Diesel/Gas Pump

- Pump comes with recommended 50’ suction/100-150’ discharge hose
- Powered by either diesel or gas engine (diesel/gas not provided)
- # of engine hours to be reported each day
- Always review pump instructions attached to the pump for required maintenance
- If delivered, need forklift to off load (Approx weight with full fuel tank: 8” - 7,800 lbs; 6” - 3,600 lbs; 4” - 3,300 lbs)





Illinois Department of Transportation

Request Process

- All requests to be entered into WebEOC
- Ensure all required local POC information is entered accurately
- IEMA forwards all approved requests to IDOT SEOC liaison for review
- If approved, local POC is contacted to ensure all required information is accurate and to conform deployment location
- PLAN AHEAD, DON’T WAIT UNTIL YOU NEED IT TO REQUEST IT!!!!!!

Deployment Process

At time of delivery, IDOT staff to review and provide operational instructions:

- Required daily report to include the pump inventory # and the engine hours # (only for diesel/gas pumps)
- Completion and documentation of all required preventative maintenance
- IDOT POC in case there are questions or operational issues
- Keeping the IDOT issued equipment secure, clean and in good operating condition
- If pumping required in temps that are or could fall below freezing, very important to keep pump housing drained immediately after use

Illinois Department of Transportation

Critical Points

- IDOT has a limited supply of various sized de-watering pumps to protect critical infrastructure and provide for public safety. Request early
- All requests must be processed thru IEMA
- Report the # of operational hours on the diesel/gas pumps as requested
- Requires forklift to off load pumps if delivered
- Contact the IDOT POC as soon as possible with any operation issues
- When pumping operations are complete, ensure the pump/hose are safely secured and request that they be either picked up or returned



Illinois Department of Transportation

Brandon Keller

Brandon.Keller@illinois.gov

217.725.3242

IPWMAN

ILLINOIS PUBLIC WORKS MUTUAL AID NETWORK

Mark Doerfler

Executive Director

mark.doerfler@ipwman.org

224-464-5110 (cell)

IPWMAN Members Are:

- County highway departments
- Municipal public works departments
- Townships/unit road districts
- Water and wastewater agencies/districts
- Park districts
- Any public agency performing a public works function

Benefits of IPWMAN

- First 5 days of support provided at no cost
- Access to assets from all of Illinois
- All public works agencies can be members
- IPWMAN maintains a current and readily accessible listing of available resources
- Quick and direct access to assets
- Standardized operating procedures for disaster response
- Membership sets priorities and controls IPWMAN
- Recognized by IEMA and other statewide mutual aid organizations
- Have a seat in the State Emergency Operations Center
- Comprehensive, public works driven and led training

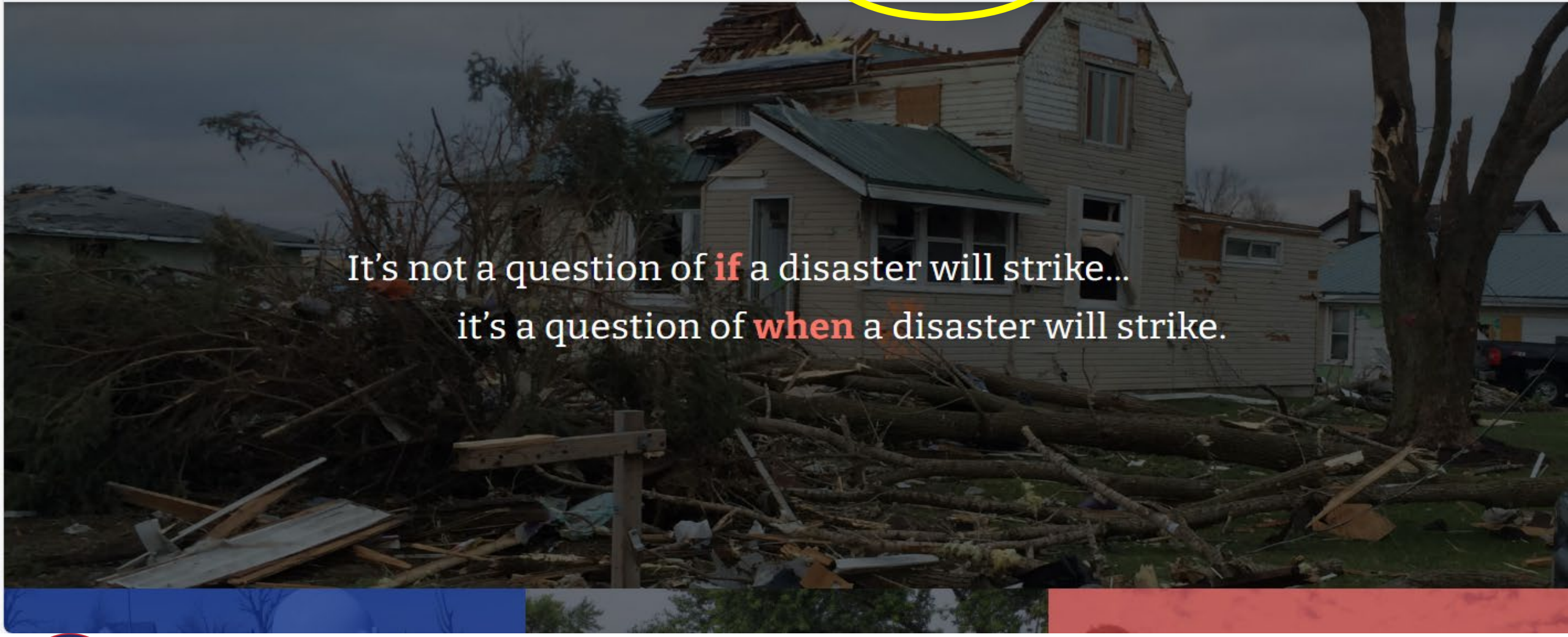
Mutual Aid Agreement Highlights

- **No obligation to respond**
- 12-hour minimum response guarantee
- Can recall resources at any time after the first 12 hours
- One standard agreement signed by each member agency
- Self-renewing after the first year with payment of dues
- Authority is provided under Illinois law
- Reimbursement may be available after 5 days

844-IPWMAN-9 Login Search

IPWMAN
Illinois Public Works Mutual Aid Network

About Us | Member Agencies | News & Events | Contact Us | Join IPWMAN

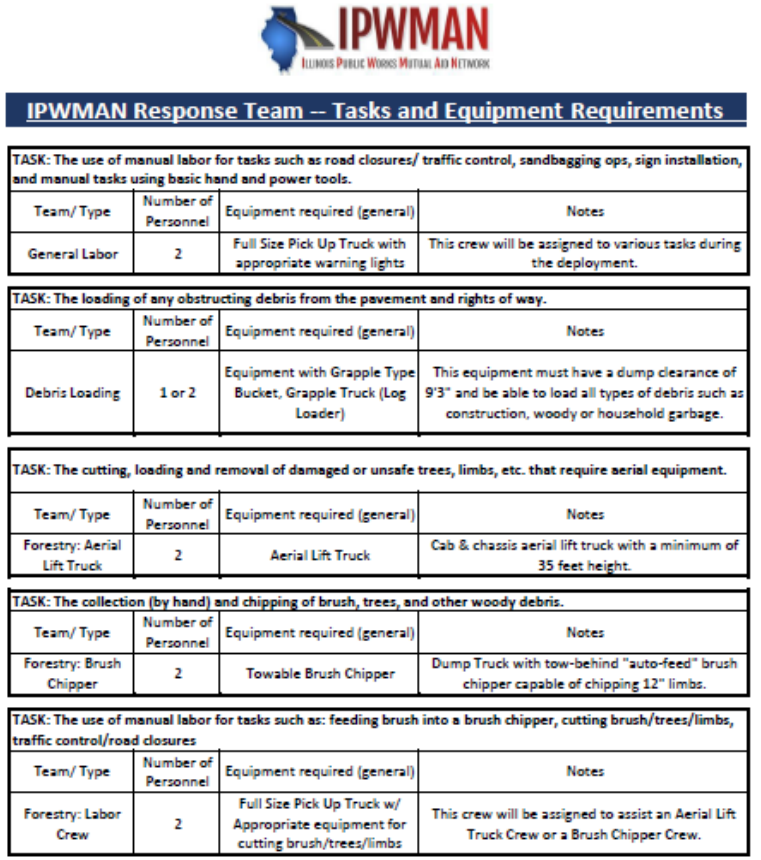


ILLINOIS HOMELAND SECURITY EMERGENCY MANAGEMENT

EMAP Accredited

IPWMAN Resource Teams

- https://www.ipwman.org/sites/default/files/member-docs/IPWMAN%20Response%20Teams_0.pdf



IPWMAN
Illinois Public Works Mutual Aid Network

IPWMAN Response Team -- Tasks and Equipment Requirements

TASK: The use of manual labor for tasks such as road closures/ traffic control, sandbagging ops, sign installation, and manual tasks using basic hand and power tools.

Team/ Type	Number of Personnel	Equipment required (general)	Notes
General Labor	2	Full Size Pick Up Truck with appropriate warning lights	This crew will be assigned to various tasks during the deployment.

TASK: The loading of any obstructing debris from the pavement and rights of way.

Team/ Type	Number of Personnel	Equipment required (general)	Notes
Debris Loading	1 or 2	Equipment with Grapple Type Bucket, Grapple Truck (Log Loader)	This equipment must have a dump clearance of 9'3" and be able to load all types of debris such as construction, woody or household garbage.

TASK: The cutting, loading and removal of damaged or unsafe trees, limbs, etc. that require aerial equipment.

Team/ Type	Number of Personnel	Equipment required (general)	Notes
Forestry: Aerial Lift Truck	2	Aerial Lift Truck	Cab & chassis aerial lift truck with a minimum of 35 feet height.

TASK: The collection (by hand) and chipping of brush, trees, and other woody debris.

Team/ Type	Number of Personnel	Equipment required (general)	Notes
Forestry: Brush Chipper	2	Towable Brush Chipper	Dump Truck with tow-behind "auto-feed" brush chipper capable of chipping 12" limbs.

TASK: The use of manual labor for tasks such as: feeding brush into a brush chipper, cutting brush/trees/limbs, traffic control/road closures

Team/ Type	Number of Personnel	Equipment required (general)	Notes
Forestry: Labor Crew	2	Full Size Pick Up Truck w/ Appropriate equipment for cutting brush/trees/limbs	This crew will be assigned to assist an Aerial Lift Truck Crew or a Brush Chipper Crew.

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IPWMAN Resource Teams

TASK: The utilization of professional engineering services for a variety of functions.			
Team/ Type	Number of Personnel	Equipment required (general)	Notes
Engineer/ Tech Group	1	Vehicle with appropriate warning lights	To be used to assist with engineering-related functions, please bring all applicable materials to assist with these functions.

TASK: The hauling or transport of materials, debris, or supplies.			
Team/ Type	Number of Personnel	Equipment required (general)	Notes
Light Hauling: 1 Ton Dump	1	1 Ton Dump Truck	Single axle dump truck.
Medium Hauling: Single Axle Dump Truck	1	Single Axel Dump Truck	Single axle 5 yard dump truck.
Heavy Hauling: Tandem Axle Dump Truck	1	Tandem Axle Dump Truck	Tandem Axle Dump Truck, (6-wheeler)
Heavy Hauling: Semi Tractor w/ Dump Trailer	1	Semi Tractor w/ Dump Trailer	Semi tractor w/ minimum 14 cu. yd. dump trailer w/ maximum side height of 8'-0"

TASK: The hauling or transport of equipment.			
Team/ Type	Number of Personnel	Equipment required (general)	Notes
Equipment Transport: Light Duty	1	Truck and 8 Ton Flat Bed Trailer	Truck capable of towing an equipment trailer with a capacity of 8 tons and an equipment trailer with a capacity of 8 tons.
Equipment Transport: Medium Duty	1	Truck and 20 Ton Tag Trailer	Truck capable of towing an equipment tag trailer with a capacity of 20 tons and a tag trailer with a capacity of 20 tons.
Equipment Transport: Heavy Duty	1	Semi Tractor with Low-boy type trailer	Semi-tractor capable of towing an equipment trailer with a capacity of 40 tons and a trailer with a capacity of 40 tons.

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TASK: The set up and continuation of pumping operations within the right of way or public facilities.			
Team/ Type	Number of Personnel	Equipment required (general)	Notes
Pumping Operations: Portable	2	Pick Up Truck, 2-2" or larger portable trash pumps suction and discharge hose	2 - 2" or larger portable trash pumps, 20 ft of suction hose, 100 ft of discharge hose with fuel to operate pumps. If pumps are electric, a generator capable of operating both pumps and fuel.
Pumping Operations: Towable	2	A vehicle capable of towing pump, with a 4" or larger towable pump and appropriate hoses	4" or larger towable pump with appropriate suction and discharge hose.

TASK: The use of mechanical vacuum equipment within the right of way, or facilities.			
Team/ Type	Number of Personnel	Equipment required (general)	Notes
Vac Truck	2	Cab & chassis basin vac truck	Minimum holding capacity of 12 cu. yd. and sufficient suction to reach a minimum of 10 ft of depth.

TASK: The use of excavation equipment for trenching or similar operations.			
Team/ Type	Number of Personnel	Equipment required (general)	Notes
Excavation	1	Backhoe Loader, Excavator	Minimum 15 ft digging depth

TASK: The use of loading equipment to load bulk material such as sand or stone (not debris) within the right of way or facilities.			
Team/ Type	Number of Personnel	Equipment required (general)	Notes
Material Loading (not debris)	1	Backhoe loader, Skid steer, Wheel Loader, Track Loader	This equipment must have a dump clearance of 9'3" and be able to load all types of material such as sand and stone.

TASK: To provide minor field repair of vehicles and equipment.			
Team/ Type	Number of Personnel	Equipment required (general)	Notes
Vehicle Maintenance	1 or 2	Vehicle Service Truck	Fully equipped service truck to complete basic field repairs to vehicles and equipment such as tire inflation/ repair, jumpstarting, hose and belt repair, etc.

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IPWMAN Resource Teams

TASK: The use of adequately equipped sign shop for sign fabrication.			
Team/ Type	Number of Personnel	Equipment required (general)	Notes
Sign Fabrication	N/A	Sign Shop	The requesting agency will need to compensate the responding agency for any and all materials used to produce the requested signs.

TASK: The assignment of appropriately trained personnel to supervise various response teams and tasks.			
Team/ Type	Number of Personnel	Equipment required (general)	Notes
Task Force/ Strike Team Leader	1	Vehicle with appropriate warning lights	This person shall be a crew leader, foreman or above in their normal work role. They should be NIMS certified in ICS 100, 200, 700, 800.

TASK: The assignment of appropriately trained personnel to assist with stricken communities response and recovery operations.			
Team/ Type	Number of Personnel	Equipment required (general)	Notes
Command Staff	1	Vehicle with appropriate warning lights	This individual should be prepared to fill any of the roles in the incident command structure and serve in an advisory role to the leadership of the requesting agency. They should be NIMS certified in ICS 100, 200, 300, 400, 700, 800.

TASK: The assignment of delivering a towable generator to a requesting agency.			
Team/ Type	Number of Personnel	Equipment required (general)	Notes
Generator: Light Duty	1	30 KW – minimum	Towable generator to be delivered to the requesting agency. Requesting agency is responsible for all hookups. Any damage to the generator will be the responsibility of the requesting agency.
Generator: Medium Duty	1	60 KW – minimum	
Generator: Heavy Duty	1	100 KW – minimum	

TASK: The assignment of deploying street sweeping equipment for street sweeping operations.			
Team/ Type	Number of Personnel	Equipment required (general)	Notes
Street Sweeper	1	Street Sweeper	Machine able to perform street sweeping ops.

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TASK: The assignment of deploying traffic control devices to be deployed by either the requesting or responding agency.			
Team/ Type	Number of Personnel	Equipment required (general)	Notes
Traffic Control: 50 plus cones or barricades	2	50 or more road cones or Type 1 or Type 2 barricades. Vehicle with appropriate warning lights.	These traffic control devices should be able to be easily transported to be set up by either the requesting or responding agency. Any damaged or lost devices will be the responsibility of the requesting agency.
Traffic Control: 50 or less cones or barricades	2	50 or less road cones or Type 1 or Type 2 barricades. Vehicle with appropriate warning lights.	These traffic control devices should be able to be easily transported to be set up by either the requesting or responding agency. Any damaged or lost devices will be the responsibility of the requesting agency.
Traffic Control: Arrow Board	2	1 Arrow Board	The arrow board should be able to be easily transported to be set up by either the requesting or responding agency. Any damage to the arrow board will be the responsibility of the requesting agency.
Traffic Control: Message Board	2	1 Message Board	The message board should be able to be easily transported to be set up by either the requesting or responding agency. Any damage to the message board will be the responsibility of the requesting agency.

TASK: The assignment of deploying equipment with a portable fuel tank for fueling vehicles and equipment.			
Team/ Type	Number of Personnel	Equipment required (general)	Notes
Fuel Transport	1 or 2	Ability to transport a minimum of 50 gal of fuel. Vehicle with appropriate warning lights.	The responder will be tasked with refueling vehicles or equipment. All fuel costs will be the responsibility of the requesting agency.

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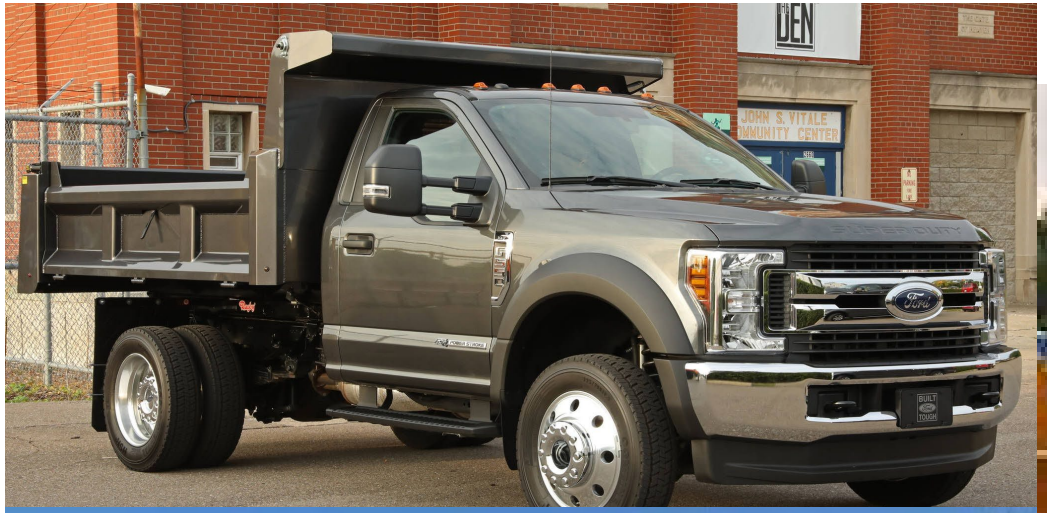
General Labor & Debris/Material Loading







Hauling: Light/Medium/Heavy







Vactor Truck & Pumps







Maintenance, Fuel & Equipment Transport







Traffic Control







Street Sweeper & Sandbagger



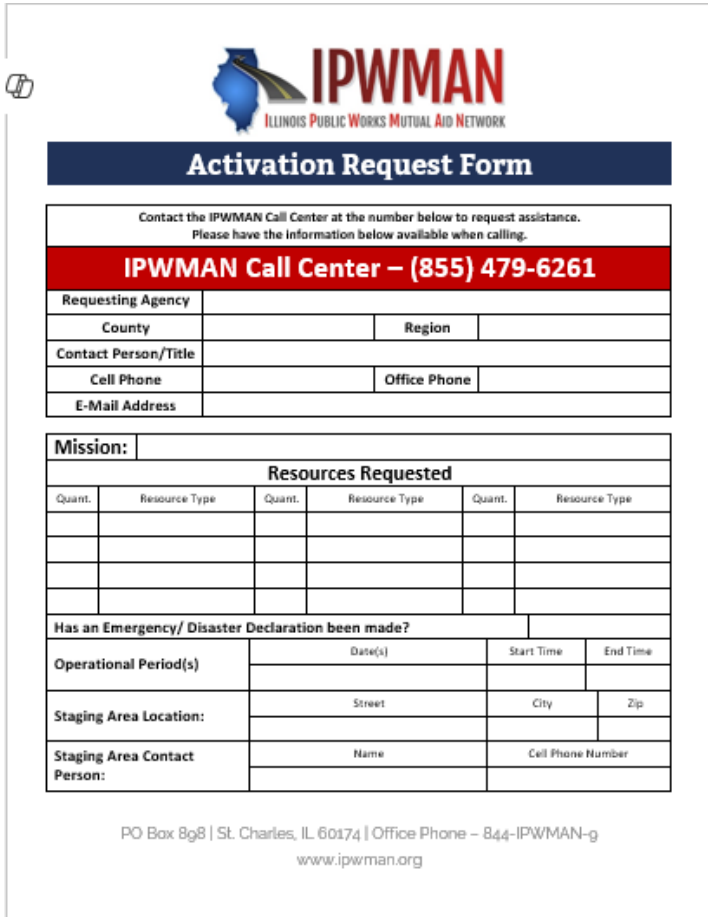


How does IPWMAN work?

1. Determine your needs.
2. Call the IPWMAN Call Center to request an activation.
3. Receive a return call from an IPWMAN Duty Officer to discuss your needs.
4. A message will be sent to member agencies requesting assistance.
5. Duty Officer will call you, letting you know of responding assets.
6. Assets will arrive at your staging area for the assigned operational period. Most likely an IPWMAN Command Staff member will show up to assist you with managing assets.
7. Assets will be under your command throughout the activation.

Determine Your Needs

1. Activation Request Form.pdf



IPWMAN
ILLINOIS PUBLIC WORKS MUTUAL AID NETWORK

Activation Request Form

Contact the IPWMAN Call Center at the number below to request assistance.
Please have the information below available when calling.

IPWMAN Call Center – (855) 479-6261

Requesting Agency			
County		Region	
Contact Person/Title			
Cell Phone		Office Phone	
E-Mail Address			

Mission:	

Resources Requested

Quant.	Resource Type	Quant.	Resource Type	Quant.	Resource Type

Has an Emergency/ Disaster Declaration been made?			
Operational Period(s)	Date(s)	Start Time	End Time
Staging Area Location:	Street	City	Zip
Staging Area Contact Person:	Name	Cell Phone Number	

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www.ipwman.org

Call The IPWMAN Call Center

1. SEECOM in Crystal Lake, IL



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Illinois Public Works Mutual Aid Network

IPWMAN Activation Request Form

To be completed by SEECOM

Initial Call from Requesting Agency

Date: Time:

Requesting Agency Information

Requesting Agency
Agency Representative # 1
Cell Number Office Number
Agency Representative # 2
Cell Number Office Number
Situation

Duty Officer Information

Duty Officer #1 Contacted Date Time
Name Phone Number
Duty Officer # 2 Contacted Date Time
Name Phone Number
Duty Officer #3 Contacted Date Time
Name Phone Number
Comments

SEECOM Information

SEECOM Supervisor Direct Number
SEECOM Supervisor email address

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IPWMAN Duty Officer Will Call You

Incident Information Form

To be completed by Duty Officer

Initial Call from SEECOM

Date: Time:

Name of Incident

Requesting Agency Information

Requesting Agency

Agency Representative # 1

Cell Number Office Number

Agency Representative # 2

Cell Number Office Number

Situation

Mission

Has an Emergency/Disaster Declaration been made? Date

Was the local Emergency Management Agency Notified?

Date Time Person Notified

Cell Number Office Number

Other agencies already on the scene assisting

Other communities impacted by this event

Resources Requested

Quantity	Resource Type	Quantity	Resource Type

Click here for a full list and description of IPWMAN Response Teams

Special Equipment Required Not Listed In The IPWMAN Response Team Document

Quantity	Resource Type	Quantity	Resource Type

Operational Period

Start Date: Start Time:

End Date: End Time:

Staging Area Information

	Name/Description	Address
Staging Area Location		

	Name	Cell Phone	Email Address
Staging Area Contact Person			

Deployment Logistics

Areas or routes to avoid

Descriptions of any possible safety hazards

Location and availability of food (Will lunch be provided to responders?)

Location and availability of fuel (Will fuel be provided ?)

Location and availability of lodging (Will Lodging be provided for responders?)

Motel 6... They'll leave the light on for ya!

Initial Activation Notice Information

Region(s) Notifications sent to

2		6		11	
3		7		Statewide	
4		8			
5		9			

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SEECOM Will Send a Notification

IaR

IamResponding.com

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Initial IPWMAN Activation Notice

To be completed by Duty Officer

DO NOT RESPOND OR DEPLOY RESOURCES BASED ON THE CONTENTS OF THIS EMAIL.
Contact the IPWMAN Duty Officer LISTED BELOW if you can provide any of the needed resources.

Date: 2025-02-07 Time: 08:05

Name of Incident: Cook County Ice Storm

Requesting Agency: Rolling Meadows

Situation: An ice storm has brought down several trees

Mission: debris managment

Resources Requested

Quantity	Resource	Quantity	Resource
2	Forestry: Aerial Lift Truck		
2	Forestry: Chipper Trucks		

Special Equipment Not Listed In The IPWMAN Response Team Document

Quantity	Resource	Quantity	Resource

Anticipated Operational Period:

Start Date: 2025-02-10 Start Time: 08:00

End Date: 2025-02-15 End Time: 16:00

Duty Officer for the Incident:

Name: Abe Froman Phone: 708-222-2222

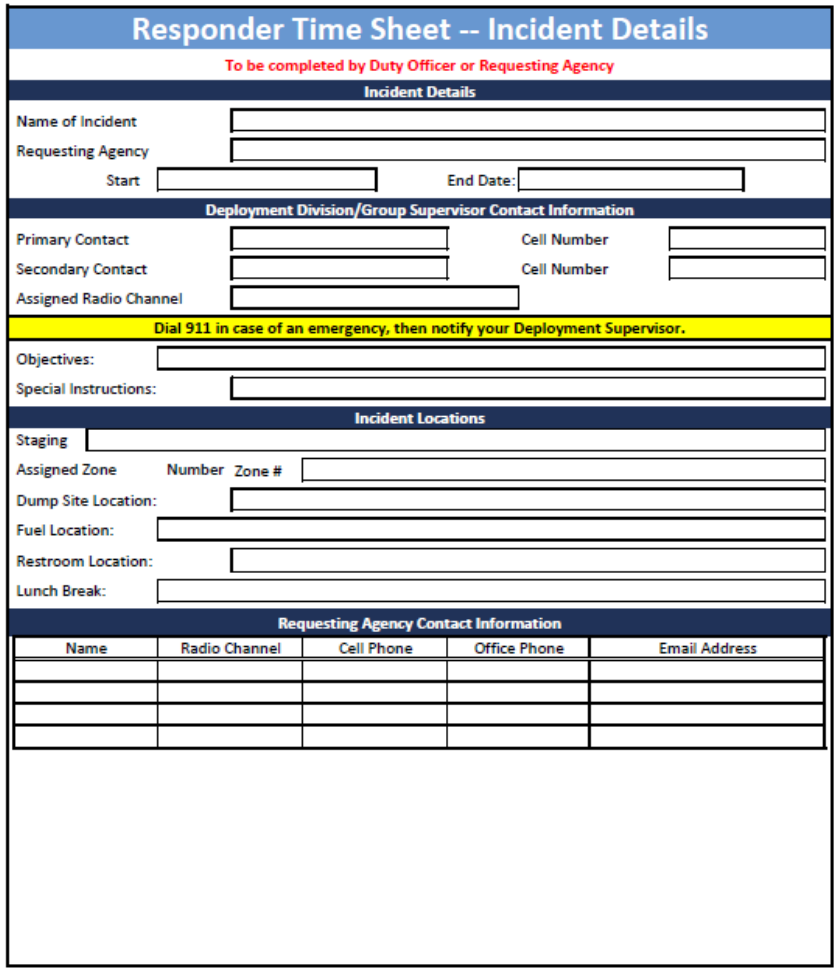
Email: abe.froman@ipwman.org Other: 630-588-2300

Regions Selected for Mutual Aid Request

Region 2		Region 7	
Region 3	x	Region 8	
Region 4	x	Region 9	
Region 5		Region 11	
Region 6		Statewide	

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Assets Show Up



Responder Time Sheet -- Incident Details

To be completed by Duty Officer or Requesting Agency

Incident Details

Name of Incident

Requesting Agency

Start End Date:

Deployment Division/Group Supervisor Contact Information

Primary Contact Cell Number

Secondary Contact Cell Number

Assigned Radio Channel

Dial 911 in case of an emergency, then notify your Deployment Supervisor.

Objectives:

Special Instructions:

Incident Locations

Staging

Assigned Zone Number Zone #

Dump Site Location:

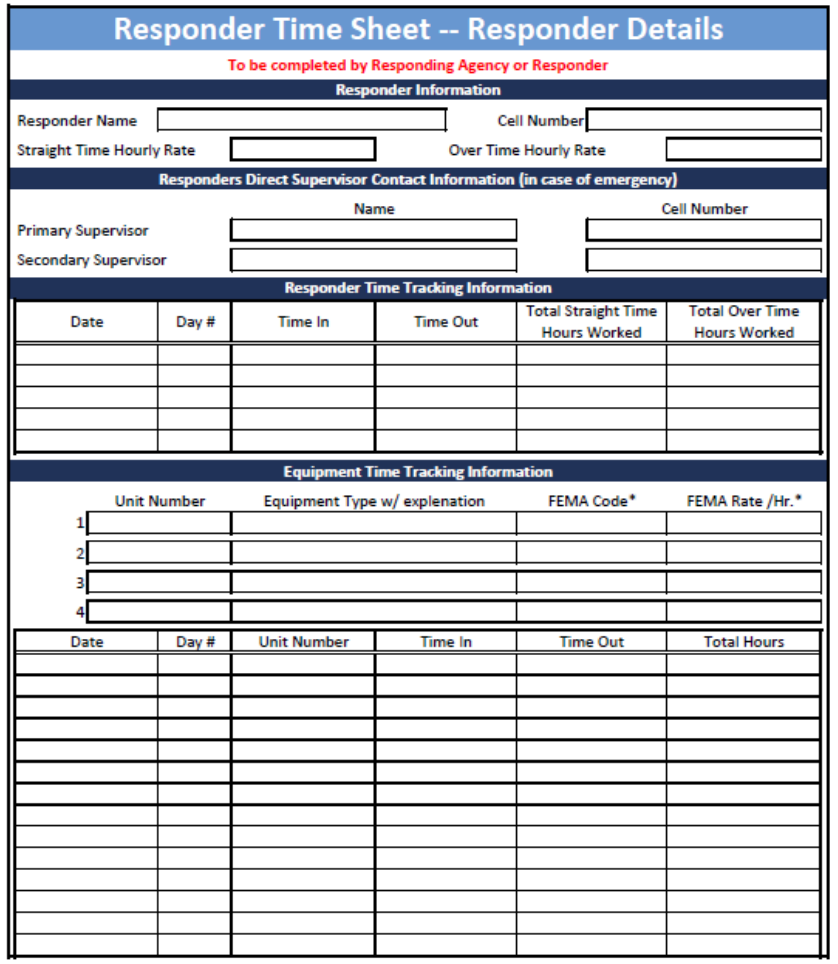
Fuel Location:

Restroom Location:

Lunch Break:

Requesting Agency Contact Information

Name	Radio Channel	Cell Phone	Office Phone	Email Address



Responder Time Sheet -- Responder Details

To be completed by Responding Agency or Responder

Responder Information

Responder Name Cell Number

Straight Time Hourly Rate Over Time Hourly Rate

Responders Direct Supervisor Contact Information (in case of emergency)

	Name	Cell Number
Primary Supervisor		
Secondary Supervisor		

Responder Time Tracking Information

Date	Day #	Time In	Time Out	Total Straight Time Hours Worked	Total Over Time Hours Worked

Equipment Time Tracking Information

	Unit Number	Equipment Type w/ explenation	FEMA Code*	FEMA Rate /Hr.*
1				
2				
3				
4				

Date	Day #	Unit Number	Time In	Time Out	Total Hours

Incident Record-Keeping Equipment

	Agency	Operator	Unit Number	Unit Description	FEMA Cost Code	FEMA Hourly Rental Rate	Hours worked				Total Hours	Total Cost
							Insert Day Here		Insert Day Here			
							Insert Date Here		Insert Date Here			
							Hours	Daily Cost	Hours	Daily Cost		
1								$ -		$ -	0	$ -
2								$ -		$ -	0	$ -
3								$ -		$ -	0	$ -
4								$ -		$ -	0	$ -
5								$ -		$ -	0	$ -
6								$ -		$ -	0	$ -
7								$ -		$ -	0	$ -
8								$ -		$ -	0	$ -
9								$ -		$ -	0	$ -
22								$ -		$ -	0	$ -
23								$ -		$ -	0	$ -
24								$ -		$ -	0	$ -
25								$ -		$ -	0	$ -
26								$ -		$ -	0	$ -
27								$ -		$ -	0	$ -
28								$ -		$ -	0	$ -
29								$ -		$ -	0	$ -
30								$ -		$ -	0	$ -
31								$ -		$ -	0	$ -
32								$ -		$ -	0	$ -
Totals						$ -	0	$ -	0	$ -	0	$ -
				Prepared By:								

Incident Record-Keeping Personnel

Insert Name of Incident and date range here

To be completed by Requesting Agency

Personnel Information					Insert Date Here								Totals			
No	Name	Phone Number	Straight Time Hourly Rate	Overtime Hourly Rate	Time In	Time Out	Total Straight	Gross Straight Time	OT Time In	OT Time Out	Total OT	Gross OT	Grand Total Straight	Total Gross Straight	Grand Total Overtime	Total Gross Overtime
1	Mike Figuray							$ -				$ -	0	$ -	0	$ -
2								$ -				$ -	0	$ -	0	$ -
3								$ -				$ -	0	$ -	0	$ -
4								$ -				$ -	0	$ -	0	$ -
5								$ -				$ -	0	$ -	0	$ -
6								$ -				$ -	0	$ -	0	$ -
7								$ -				$ -	0	$ -	0	$ -
8								$ -				$ -	0	$ -	0	$ -
9								$ -				$ -	0	$ -	0	$ -
10								$ -				$ -	0	$ -	0	$ -
11								$ -				$ -	0	$ -	0	$ -
Totals							0	$ -			0	$ -	0	$ -	0	$ -

Total Straight Time Hours	0
Total Overtime Hours	0
Total Gross Straight Time	$ -
Total Gross Overtime	$ -
Grand Total Cost of Labor	$ -

Prepared By	
On	
At	

844-IPWMAN-9 Login Search

IPWMAN
Illinois Public Works Mutual Aid Network

About Us Member Agencies News & Events Contac Us Join IPWMAN



How do I become a member?

IPWMAN
ILLINOIS PUBLIC WORKS MUTUAL AID NETWORK

About Us | Member Agencies | Contact Us | Join IPWMAN

How To Join IPWMAN

To Become A Member Of IPWMAN, An Agency Must Submit The Following Documents:

1. A signed copy of an **ordinance**, resolution, or other legally binding document authorizing the agency to enter into the IPWMAN Mutual Aid Agreement
2. A signed copy of the **IPWMAN Mutual Aid Agreement**
3. A completed **Application Submission Checklist**
4. A **Member Agency Contact Form**
5. Contact your local accredited/certified Emergency Management Agency and let them know that you are joining IPWMAN
6. Payment of dues (see Membership Dues Information section below)

Submit These Documents To:

Illinois Public Works Mutual Aid Network: PO Box 898, St. Charles, Illinois 60174

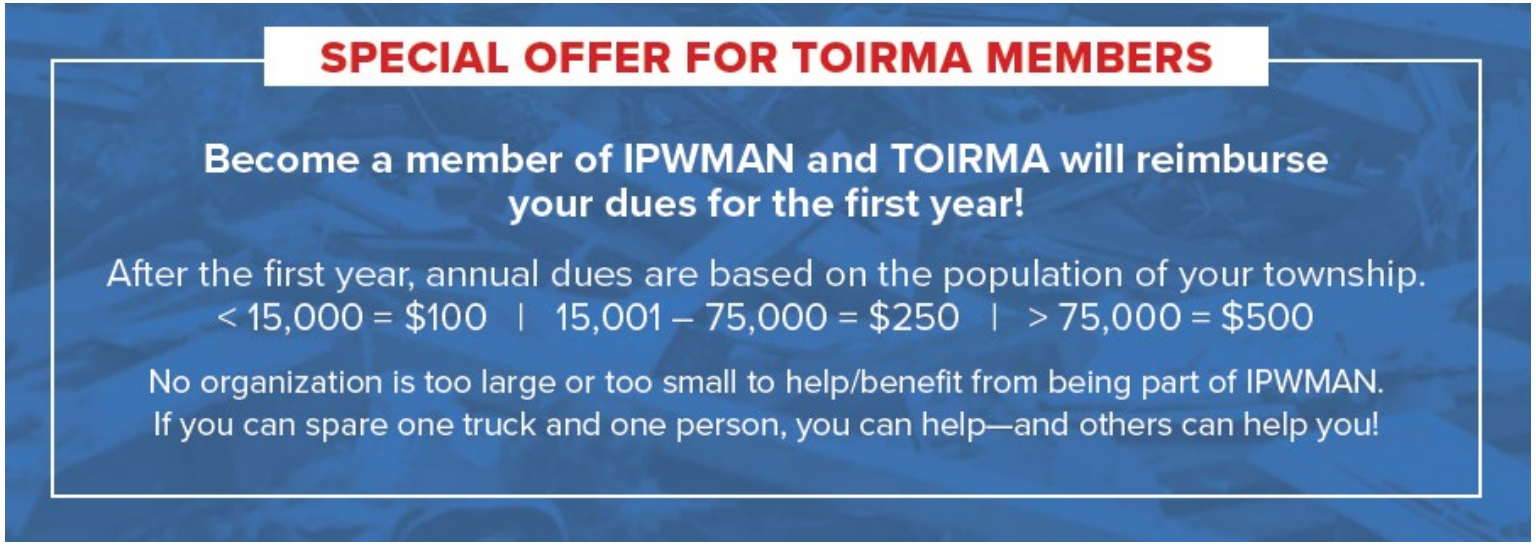
Questions About Joining? Please Call 844-IPWMAN-9 (844-479-6269) For More Information.

How much does it cost?

Fees are based on the population served:

- Under 15,000 -- $100 per year
- 15,001 to 75,000 -- $250 per year
- Over 75,000 -- $500 per year

Special Offer for TOIRMA Members



Questions?

Mark Doerfler
Executive Director
mark.doerfler@ipwman.org
224-464-5110 (cell)

Operations

Chris Dodd

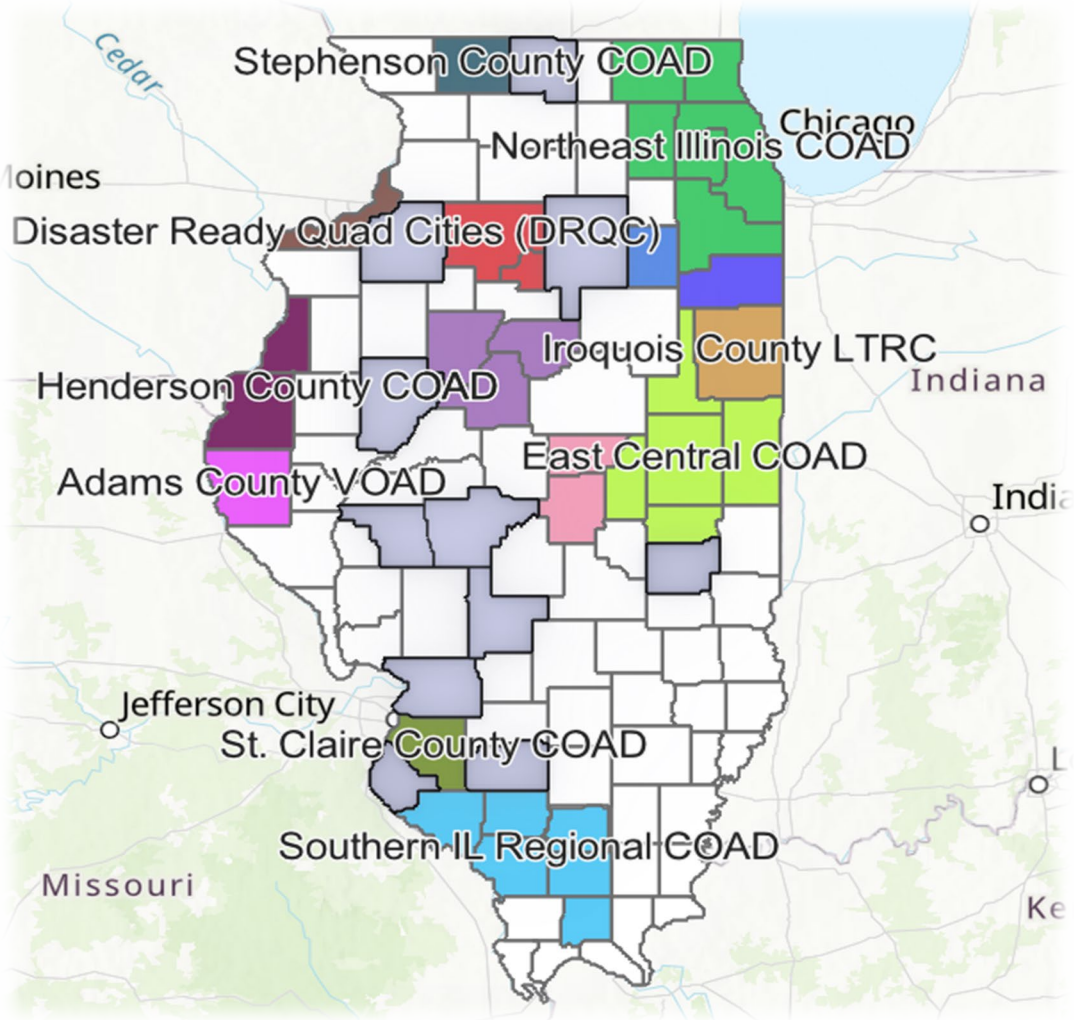
Operations Division Chief

IEMA-OHS Recovery Division

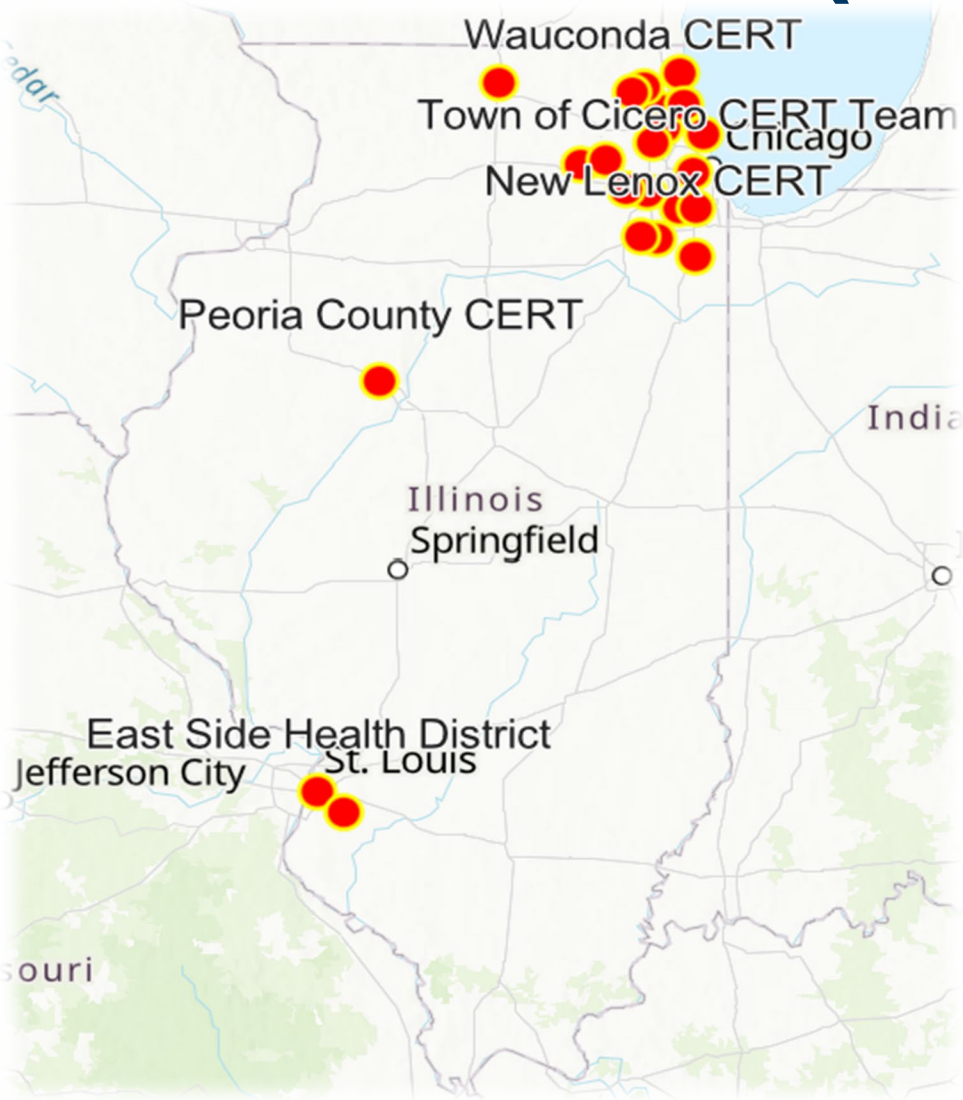
Matthew Raymond

Volunteer Services Coordinator

Community Organizations Active in Disasters (COAD)



Illinois Community Emergency Response Team (CERT)



Serve Illinois Program

- Assists with Volunteerism and Community Service
- Assists with Recruiting and Training Volunteers



Visit https://serve.illinois.gov/ or email DHS.ServeIllinois@illinois.gov or to learn more.

Volunteer Services Coordinator

Matthew A. Raymond
Recovery Division
Illinois Emergency Management Agency
and Office of Homeland Security

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IEMA-OHS Recovery Division

Aaron Steinberg

Planning and Training Unit

IEMA-OHS Recovery Division Disaster Objectives

- Provide technical pre-disaster & disaster recovery assistance expertise to locals
  - Streamline the Initial Damage Assessment process with the new GIS Survey available to all accredited jurisdictions within Illinois.
  - Streamline the Preliminary Damage Assessment (PDA) process with a more inclusive Initial Damage Assessment.
  - Pre-identify locations for Multi-Agency Resource Centers (MARCs) and Disaster Recovery Centers (DRCs)
  - Reinforce Long-Term Recovery Planning
  - Hazard Mitigation Planning and Funding
- Promote COAD collaboration
- Promote local resiliency

IEMA-OHS Recovery Division Disaster Objectives

- New Initial Damage Assessment (IDA) process and data collection effort
  - This effort is to standardize the assessment across the state to make this effort more efficient.
  - This will allow all counties and accredited jurisdiction to utilize IEMA-OHS's GIS system and survey to collect data during the IDA.
    - Counties and Jurisdictions will have complete access to all data collected during the IDA.
  - This will also collect data for the NWS, USDA, SBA, and FEMA, reducing duplication of effort among these agencies and sparing disaster survivors from repeatedly answering the same questions

Public Assistance (PA)

- Presidential Declaration Required
- Eligibility limited to state, local, tribal, territorial (SLTTs) and certain Private Non-Profit organizations
- Categories are debris removal, emergency protective measures and permanent restoration or replacement of public facilities after a major disaster or emergency
- FEMA PA Thresholds:
  - FY25 = $24,215,640.12
    - Statewide Per Capita $1.89
    - County Per Capita $4.72
    - Minimum amount for Projects is $4,000
    - Small Project Threshold = $1,062,900

Public Assistance (PA)

- Communicate with Local Stakeholders
- FEMA Public Assistance funding to return infrastructure to "pre-disaster" condition so...
  - FEMA Needs Proof that Infrastructure has been maintained.
  - Perform Infrastructure Inspections
    - Pre-Disaster Conditions Dictate Potential for Reimbursement
      - Maintenance Records
      - Photographs
      - Drone Flyovers
    - Document Everything – Save Invoices for Repairs
- Funding cost share of no less than 75% federal share for eligible costs
  - Applicant Responsible for 25%
    - 25% Can Be Offset with Donated Resources (MUST be Tracked to Offset)

Individual Assistance

- Available to Individuals though a variety of federal services, most commonly Individual Housing Program (IHP) funding.
- Typically provides financial and direct services to eligible individuals and households affected by a disaster, who have uninsured or underinsured necessary expenses and serious needs
- Presidential Declaration Required
  - State Fiscal Capacity and Resource availability
  - Uninsured Home and Personal Property Losses
  - Disaster Impacted Population Profile
  - Impact to Community Infrastructure
  - Casualties
  - Disaster Related Unemployment

Individual Assistance Payouts

- While there is no specified minimum dollar threshold for declaration, federal guidance indicates that Individual Assistance declarations are unlikely to be approved if total damages are below $11,500,000.
- FEMA Individual Maximum Payouts for FY25
  - $43,600 for housing assistance
  - $43,600 for other basic needs assistance
- The actual average FEMA payout to individual households
  - $3,000-$4,000 these are #s from our last IA disaster DR-4819
  - Remember, these funds are provided, when eligible, to provide basic needs and get people on the road to their own recovery. Individual Assistance Funds are not intended to fund long-term solutions

Individual Assistance Cont.

- Individual Housing Assistance Program does not provide relief for loss of food
  - This is provided by a separate program though the USDA
    - This program is called – Disaster Supplemental Nutrition Assistance Program (D-SNAP)
  - Because of the unique needs of disaster survivors, D-SNAP uses different standards than normal SNAP. Even if you would not normally qualify for SNAP, you may qualify for D-SNAP if you had one of the disaster-related expenses below:
    - Home or business repairs.
    - Temporary shelter expenses.
    - Evacuation or relocation expenses.
    - Disaster-related personal injury, including funeral expenses
    - Lost or no access to income due to the disaster; includes reduced, terminated, or delayed receipt of income, for a large part of the benefit period.
    - In some cases, food loss after a disaster like flooding or power outages.
  - Current SNAP clients may also request replacement benefits for food lost in the disaster and bought with SNAP benefits. Just contact your local office for more information.

Hazard Mitigation Funding:

- Hazard Mitigation Grant Program (HMGP)
  - Focuses rebuilding communities *after a major disaster* in a way that reduces future disaster losses.
- Flood Mitigation Assistance
  - Common FMA project types:
    - Flood Control
    - Floodplain Mapping and Vulnerability Assessments
    - Acquisition and Demolition
    - Flood Mitigation Assistance (FMA) Grant Program
- Building Resilient Infrastructure and Communities (BRIC)
  - Common BRIC project types:
    - Flood Control
    - Utility/Infrastructure Protection
    - Streambank Stabilization and Restoration

Small Business Administration

- SBA assistance available:
  - SBA declarations are not required to be linked to Individual Assistance (IA) or Public Assistance (PA) declarations. The SBA may issue a disaster declaration independently if the established criteria are met.
  - SBA Physical Disaster Loan (Individuals and Businesses):
    - 25 or more (combination of businesses and homes) having major damage or destroyed (SBA and/or FEMA Definitions) with a 40% or more loss of uninsured or under insured.
  - These loans cover disaster losses not fully covered by insurance or other sources such as real estate, personal property, machinery and equipment, inventory and business assets

Small Business Administration

- Businesses up to $2 million if qualified
- Homeowners:
  - Up to $500,000 to replace/repair their primary residence
  - Up to $100,000 to replace or repair personal property

- Remember, there are factors under SBA Disaster Loan criteria that can be evaluated for eligibility, which typically is the lowest hanging fruit compared to FEMA PA/IA Programs
- Real Estate, Land or Personal Property (40% uninsured/under insured)

Small Business Administration

- Basically, the standard definition of FEMA Major/Destroyed is not applied under SBA criteria and is simpler to achieve

- ***Note: Most disaster financial assistance, <u>if any</u>, typically comes in the form of an SBA low interest and extended length loan***

SBA U.S. Small Business Administration

Recovery Leadership Team

Greg Nimmo, Recovery Division Chief

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Vacant, Recovery Planning and Training Unit Manager

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IEMA-OHS Public Information Officer

Melissa Hahn

PIO

Key Flood Information

- The most dangerous type of flooding is a flash flood
- 28 deaths in 19 years (acc. To Illinois State Climatologist)

Prevention
Protection
Response
Recovery
Mitigation

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Deputy Public Information Officer (PIO)
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Questions and Answers

Closing Comments