

IllinoisFloodMaps.org - New and Improved!

Sarah Milton, GISP, CFM
Zoe Zaloudek, GISP, CFM

IAFSM 2024 Annual Conference
3/12/2024



Illinois State Water Survey
PRAIRIE RESEARCH INSTITUTE

IllinoisFloodMaps.org - 2005

Illinois Floodplain Maps
Site Map

[Home](#)





[About Map Mod](#)

[IL Business Plan](#)


[Related Links](#)

[Contacts](#)

Jump to FIRM Maps:
Choose County...

The [Map Modernization Project](#) at the Illinois State Water Survey is providing preliminary and final maps on this web site. Maps revised between preliminary and final phases are not posted. To download or view a map, click the bolded counties on the map below. Counties outlined in red are preliminary, and are for review purposes only. Preliminary maps are not official, and are not to be reproduced or used as official FEMA maps until they are finalized. There is a six month period after maps are finalized before they become official, effective FEMA maps. Counties outlined in blue have final maps. Counties outlined in black have become effective. Please see our [disclaimer](#).



Funding Year *

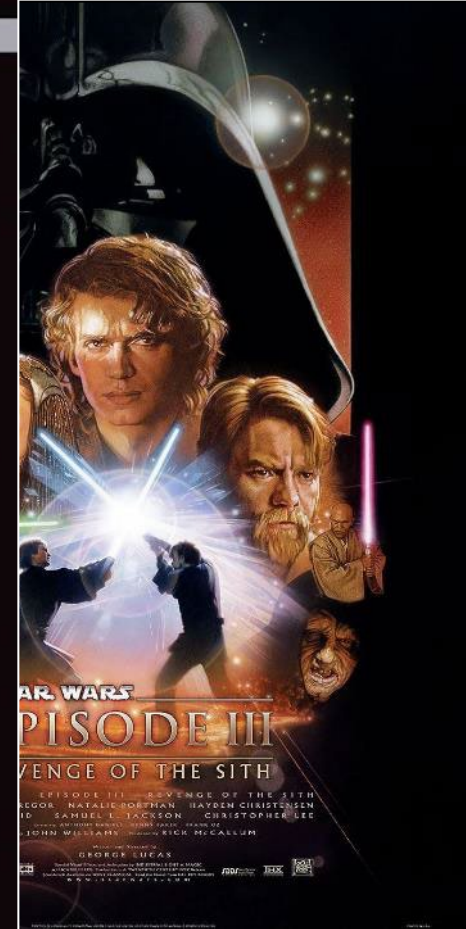
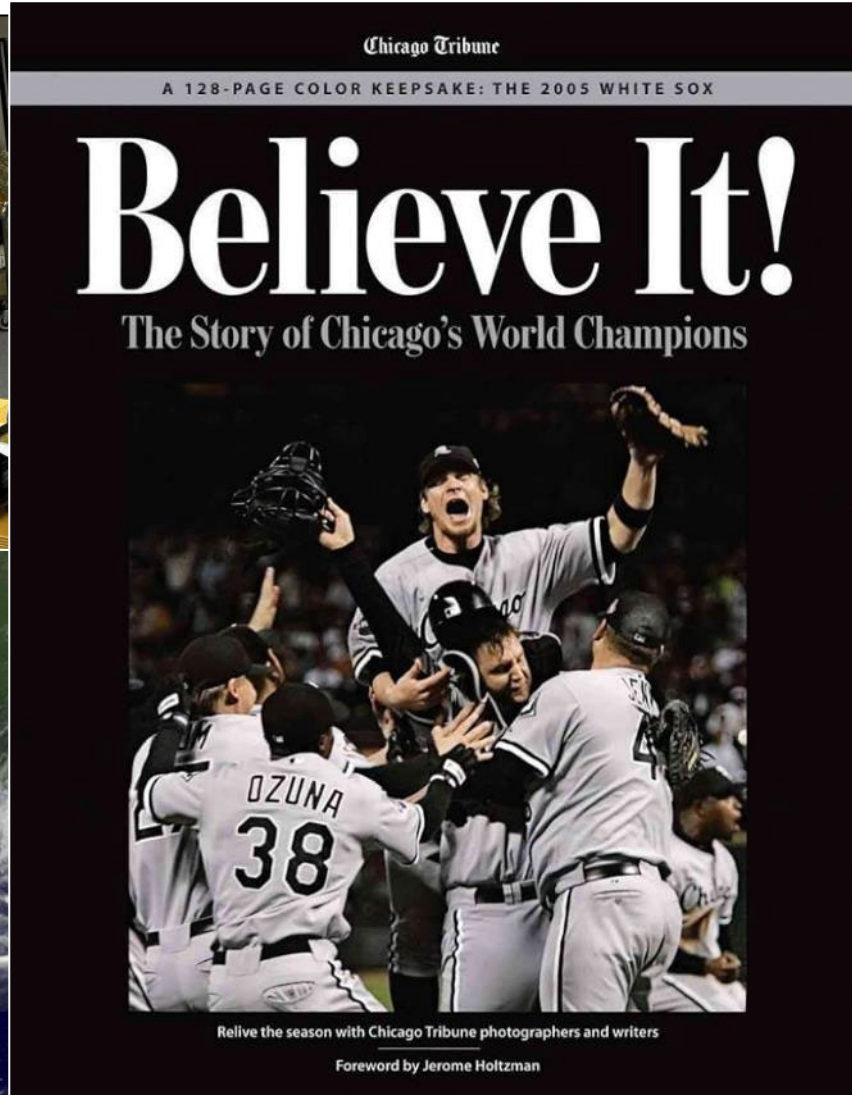
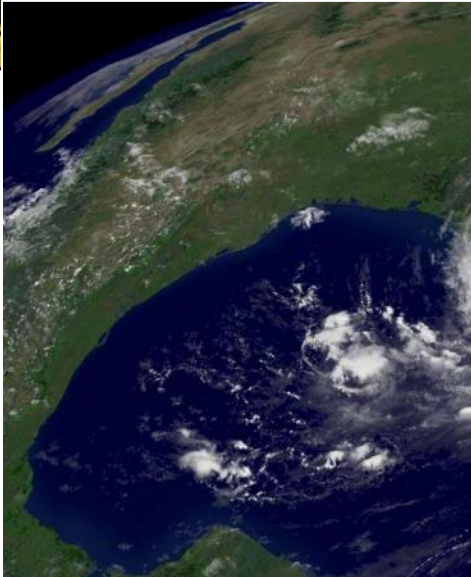
- 2003
- 2004
- 2005
- 2006
- 2007
- 2008
- See special note below¹

*Federal Fiscal Year
¹Scoping completed in Funding Year listed above
Mapping tasks to be written into FFY '07 Agreement

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Other events of 2005



IllinoisFloodMaps.org - 2013

The screenshot displays the Illinois FloodMaps.org website interface. At the top, there is a navigation menu with links for DFIRMs, Outreach, Services, and MT-2 LOMR. The main heading is "FEMA Flood Insurance Rate Maps, Studies, and Database Products". Below this, a paragraph explains that the Illinois State Water Survey is providing preliminary and final Flood Insurance Rate Maps on the website, with maps revised between preliminary and final phases not posted. It also mentions that effective maps are posted at the FEMA web site for each county and individual map.

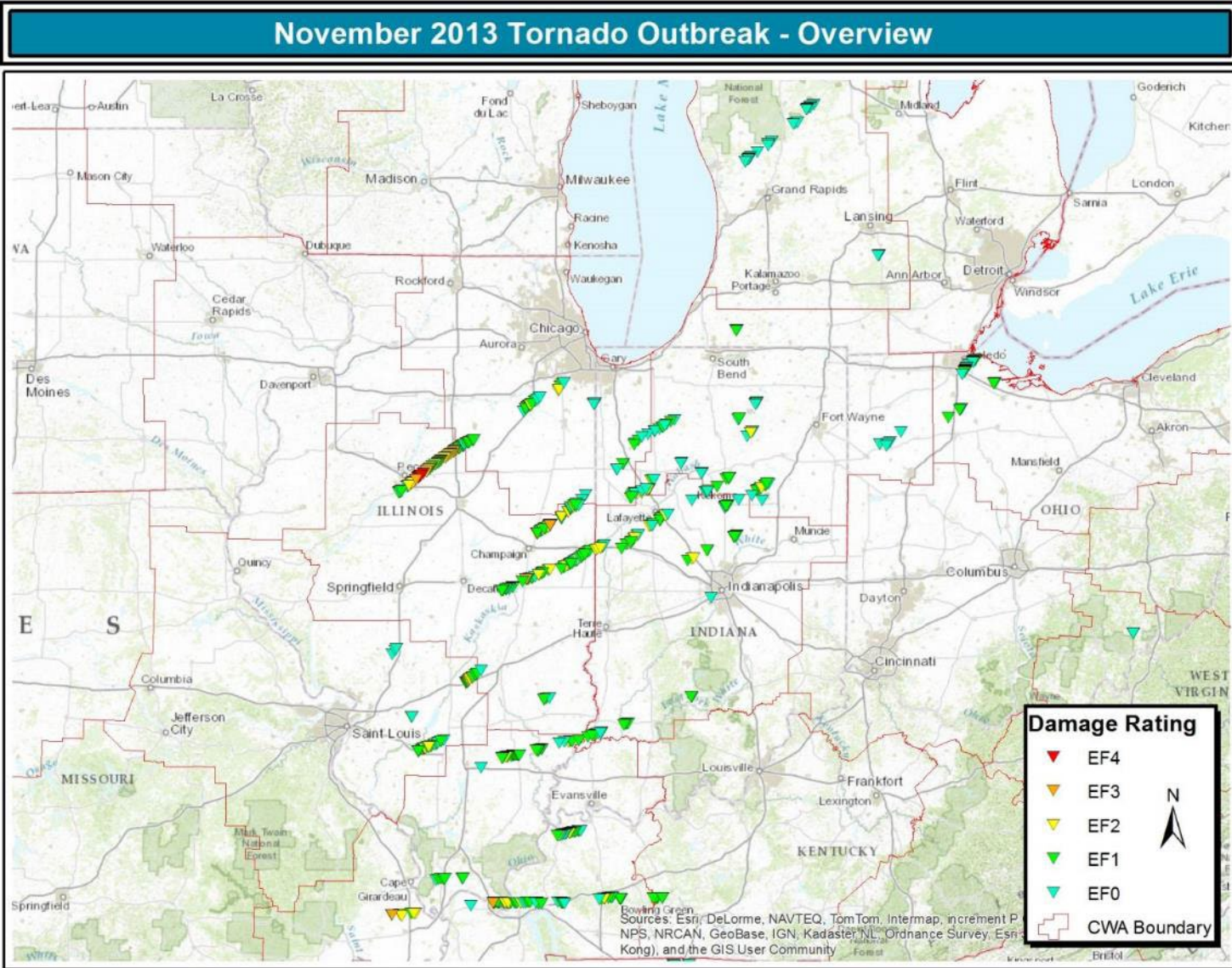
The central feature is a map of Illinois divided into counties, color-coded by DFIRM status. A legend titled "DFIRM Status" provides the key:

- Effective (Green)
- Final (Blue)
- Preliminary (Red)
- In Progress (Yellow)
- Not Funded (White)

Counties shown as Preliminary (Red) include Peoria, Tazewell, Peoria, and Madison. Counties shown as Final (Blue) include Champaign. Other counties shown in various colors include Jo Daviess, Stephenson, Winnebago, Boone, McHenry, Lake, Carroll, Ogle, DeKalb, Kane, DuPage, Cook, Whiteside, Lee, Kendall, Grundy, Will, Rock Island, Henry, Bureau, LaSalle, Kankakee, Mercer, Knox, Peoria, Woodford, Livingston, Iroquois, Henderson, Warren, Stark, Marshall, Ford, McLean, Hancock, McDonough, Fulton, Tazewell, Morgan, Sangamon, Macon, Douglas, Vermilion, Adams, Brown, Cass, Menard, Logan, Dewitt, Piatt, Schuyler, Mason, Scott, Morgan, Sangamon, Christian, Shelby, Coles, Edgar, Pike, Greene, Macoupin, Montgomery, Jersey, Madison, Bond, Fayette, Effingham, Jasper, Crawford, St. Clair, Clinton, Marion, Wayne, Richland, Lawrence, Randolph, Perry, Franklin, Hamilton, White, Jackson, Williamson, Saline, Gallatin, and Harrison.

To the right of the county map is a box titled "What is a DFIRM?". It defines a DFIRM as a digital version of the FEMA flood insurance rate map designed for use with digital mapping and analysis software. Below the text is a small inset map showing a sample DFIRM with areas of greater flood risk highlighted in blue. The text below the inset map states: "A sample DFIRM showing areas of greater flood risk in blue." Further down, it explains that the DFIRM is designed to provide the user with the ability to determine the flood zone, base flood elevation within one foot and the roadway status for a particular location. It also lists additional data included: National Flood Insurance Program (NFIP) community information, map panel information, cross section and hydraulic structure information, and base map information like road, stream, and public land survey data.

Other events of 2013



Work Timeline



2022 Jun: Committee first meets



2022 Jul: Developer selected



2022 Nov: Initial mock-up created



2023 Jan: Specialty groups begin meeting



2023 May: Beta testing



2023 Jun: Launch of new website  



Thank You Eileen!

Thank You Beta Testers!

- Nazmul Huda
- Addison Jobe
- Diana Davisson
- Chris Hanstad
- Mary Richardson
- Greta Buckley
- Curt Abert
- Dawn Cosentino
- Shelly Fuller
- Erin Conley
- Lauren Pruitt
- Joseph Tebrugge
- Rachel Buvala
- Laura Keefer

...and everyone else who provided feedback!

IllinoisFloodMaps.org - Old

ILLINOIS FLOODMAPS .ORG

DFIRMs ▾ Outreach ▾ Services ▾ MT-2 LOMR ▾ Mitigation ▾

FEMA Flood Insurance Rate Maps, Studies, and Database Products

The [Illinois State Water Survey](#) is providing preliminary and pending Flood Insurance Rate Maps on this web site. Maps revised between preliminary and pending phases are not posted. Effective Flood Insurance Rate Maps are posted at the Federal Emergency Management Agency [Map Service Center](#) web site. The FEMA web site for each effective digital FIRM may be accessed by selecting the county and individual map.

What is a DFIRM?

The Digital Flood Insurance Rate Map (DFIRM) Database is a digital version of the FEMA flood insurance rate map that is designed for use with digital mapping and analysis software.

A sample DFIRM showing areas of greater flood risk in blue.

The DFIRM is designed to provide the user with the ability to determine the flood zone, base flood elevation within one foot and the floodway status for a particular location. It also has National Flood Insurance Program (NFIP) community information, map panel information, cross section and hydraulic structure information, and base map information like road, stream, and public land survey data.

Countywide Digital FIRM Status

- Effective
- Pending
- Preliminary
- In Progress
- Not Funded

IllinoisFloodMaps.org – New!

IllinoisFloodMaps.Org

HOME → STUDIES LOMR REVIEW → MITIGATION → RESOURCES → ABOUT US

Search...

Coordinated Hazard Assessment and Mapping Program (CHAMP)

In collaboration with FEMA and in association with Illinois State Water Survey, Prairie Research Institute at University of Illinois



REVISED AREA

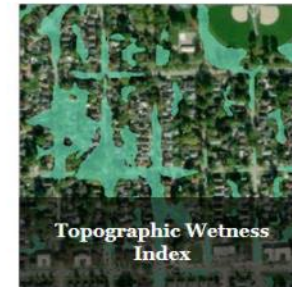
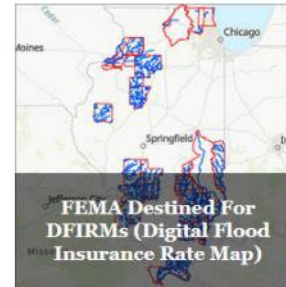
1. REQUESTOR'S SIGNATURE

All documents submitted in support of this request are correct to the best of my knowledge, accurate, and complete.

Signature of Requestor

FEMA Letters Of Map Revision (LOMR)

2. COMMUNITY CONCURRENCE



Resources by County

IllinoisFloodMaps.Org

HOME ▾ STUDIES ▾ LOMR REVIEW ▾ MITIGATION ▾ RESOURCES ▾ ABOUT US

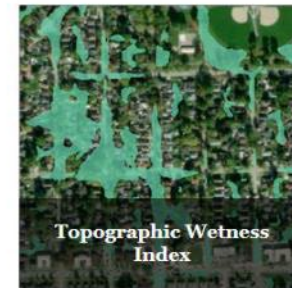
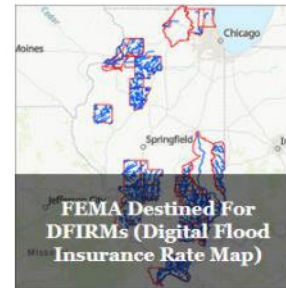
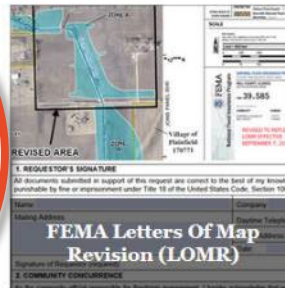
County Based Resources

Watershed Based Projects

Search...

Coordinated Hazard Assessment and Mapping Program (CHAMP)

In collaboration with FEMA and in association with Illinois State Water Survey, Prairie Research Institute at University of Illinois



Resources by County

Resources By County

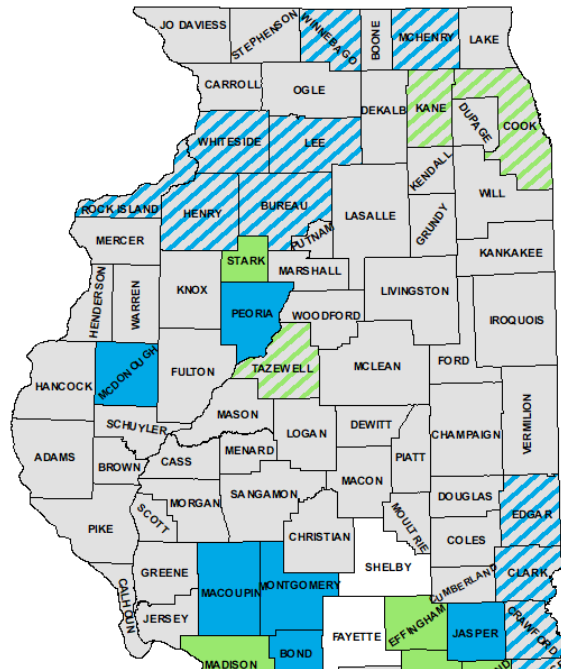
FEMA Flood Insurance Rate Maps, Studies, And Database Products

The [Illinois State Water Survey](#) provides **preliminary** and **pending** Flood Insurance Rate Maps (FIRMs), Studies, and Database Products on this web site. **Effective** Flood Insurance Rate Maps are posted at the Federal Emergency Management Agency (FEMA) [Map Service Center](#) web site.

For communities with effective digital FIRMs, the data can also be viewed using FEMA's [National Flood Hazard Layer](#) (NFHL) viewer. The NFHL dataset represents the current effective flood data for the county. It is a compilation of effective FIRM databases and Letters of Map Revision (LOMRs). The NFHL is updated as studies go effective. More information is available at [National Flood Hazard Layer | FEMA.gov](#).

Illinois Counties

Adams	Alexander
Bond	Boone
Brown	Bureau
Calhoun	Carroll
Cass	Champaign
Christian	Clark
Clay	Clinton
Coles	Cook
Crawford	Cumberland
DeKalb	DeWitt
Douglas	DuPage
Edgar	Edwards
Effingham	Fayette
Ford	Franklin
Fulton	Gallatin
Greene	Grundy
Hamilton	Hancock
Hardin	Henderson
Henry	Iroquois
Jackson	Jasper
Jefferson	Jersey
Jo Daviess	Johnson
Kane	Kankakee
Kendall	Knox

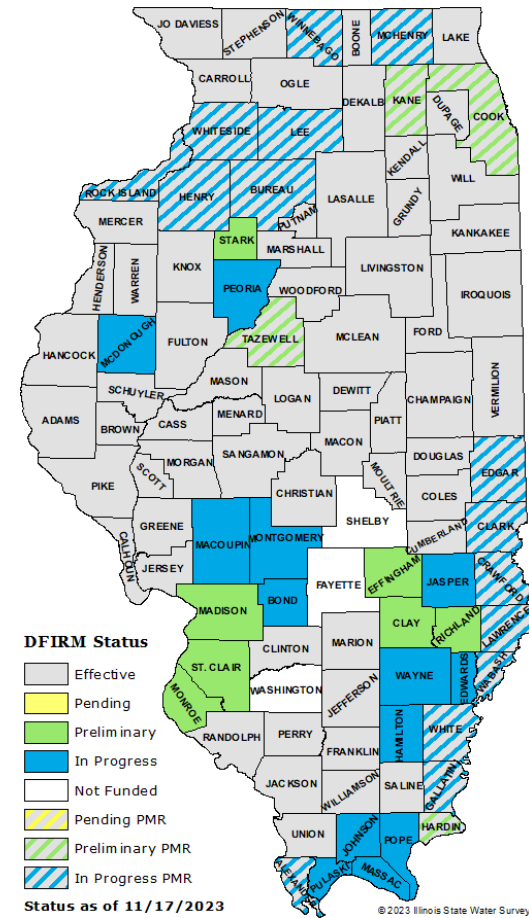


Resources by County

Old Site



New Site



Coblis - Color Blindness Simulator

Drag and drop or paste your file in the area below or: CoMap.jpg

Trichromatic view: *Anomalous Trichromacy:* *Dichromatic view:* *Monochromatic view:*

Normal Red-Weak/Protanomaly Red-Blind/Protanopia Monochromacy/Achromatopsia

Green-Weak/Deuteranomaly Green-Blind/Deuteranopia Blue Cone Monochromacy

Blue-Weak/Tritanomaly Blue-Blind/Tritanopia

Use lens to compare with normal view: No Lens Normal Lens Inverse Lens

[Reset View](#) [Open simulated image in new window](#)

Countywide Digital FIRM Status

- Effective
- Pending
- Preliminary
- In Progress
- Not Funded

Physical Map Revision (PMR) of select panels

- Pending
- Preliminary
- In Progress

Status as of 4/5/2023

© 2023 Illinois State Water Survey

<https://www.color-blindness.com/coblis-color-blindness-simulator>

Coblis - Color Blindness Simulator

Drag and drop or paste your file in the area below or: CoMap.png

Trichromatic view: *Anomalous Trichromacy:* *Dichromatic view:* *Monochromatic view:*
 Normal
 Red-Weak/Protanomaly
 Red-Blind/Protanopia
 Monochromacy/Achromatopsia
 Green-Weak/Deuteranomaly
 Green-Blind/Deuteranopia
 Blue Cone Monochromacy
 Blue-Weak/Tritanomaly
 Blue-Blind/Tritanopia

Use lens to compare with normal view: No Lens Normal Lens Inverse Lens

[Reset View](#) [Open simulated image in new window](#)

DFIRM Status

- Effective
- Pending
- Preliminary
- In Progress
- Not Funded
- Pending PMR
- Preliminary PMR
- In Progress PMR

Status as of 11/17/2023 © 2023 Illinois State Water Survey

<https://www.color-blindness.com/coblis-color-blindness-simulator>

Resources by County

Fulton County Flood Hazard Information

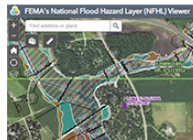


Effective Map Products

Effective Regulatory Products

Effective products are the official regulatory products as adopted by FEMA and a given local community for the National Flood Insurance Program (NFIP). The products are intended to be used as the basis for official actions required by the NFIP. The products may include Flood Insurance Rate Maps (FIRM), Flood Insurance Study (FIS) reports, FIRM Databases, and effective Letters of Map Revision (LOMR).

Effective Flood Insurance Rate Maps for Fulton County may be viewed and/or downloaded at the [FEMA Flood Map Service Center \(MSC\)](#)



Additionally, effective flood hazard data can be viewed in FEMA's [National Flood Hazard Layer viewer \(NFHL\)](#). Counties with a status of Effective or any of the PMR statuses (symbolized with diagonal lines) on the [Resources by County map](#) are included in the NFHL viewer. Zoom to an area or use the search bar to find a specific location. Full FIRM panels or a "FIRMette" of a smaller area can be exported using the NFHL Print Tool.

Non-Regulatory Products

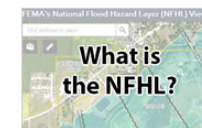
Non-regulatory products, referred to as Flood Risk Products (FRP), go beyond the basic flood hazard information found in the official regulatory products. The Flood Risk Database, which parallels the FIRM database, provides a wealth of data that may be used to analyze, communicate, and visualize flood risk. Communities are encouraged to use this database to support mitigation efforts and raise awareness. Non-Regulatory products such as Flood Risk Databases are also available at the MSC.

Additional Resources

- [Floodplain Mapping 101](#)
- [Destined for DFIRMs](#)
- [Building Footprints](#)
- [Topographic Wetness Index](#)
- [Links to National Flood Insurance Program \(NFIP\) Information](#)

[[Return to County Listing](#)]

Frequently Asked Questions



Resources by County

Peoria County Flood Hazard Information

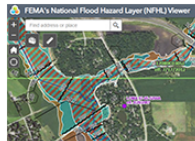


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Effective Flood Insurance Rate Maps for Peoria County may be viewed and/or downloaded at the [FEMA Flood Map Service Center \(MSC\)](#)



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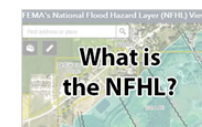
Preliminary Flood Insurance Rate Maps are not available at this time.

Data Development Phase

Flood Risk Review Meeting
1/6/2023

- ↓ Meeting Recording (MP4)
- ↓ Meeting Presentation (PDF)

Frequently Asked Questions



Resources by County

Richland County Flood Hazard Information



Effective Map Products

Effective Regulatory Products

Effective products are the official regulatory products as adopted by FEMA and a given local community for the National Flood Insurance Program (NFIP). The products are intended to be used as the basis for official actions required by the NFIP. The products may include Flood Insurance Rate Maps (FIRM), Flood Insurance Study (FIS) reports, FIRM Databases, and effective Letters of Map Revision (LOMR).

Effective Flood Insurance Rate Maps for Richland County may be viewed and/or downloaded at the [FEMA Flood Map Service Center \(MSC\)](#)



Additionally, effective flood hazard data can be viewed in FEMA's [National Flood Hazard Layer viewer \(NFHL\)](#). Counties with a status of Effective or any of the PMR statuses (symbolized with diagonal lines) on the [Resources by County map](#) are included in the NFHL viewer. Zoom to an area or use the search bar to find a specific location. Full FIRM panels or a "FIRMette" of a smaller area can be exported using the NFHL Print Tool.

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Mapping Phase

Preliminary Map Products

2023 Preliminary products are available below, or at higher resolution from the [FEMA MSC](#):

17159C0025E	17159C0100E	17159C0160E	17159C0210E	Preliminary FIS
17159C0050E	17159C0110E	17159C0165E	17159C0230E	Preliminary FIRM
17159C0055E	17159C0120E	17159C0170E	17159C0235E	Database
17159C0060E	17159C0150E	17159C0176E	17159C0255E	Download All (Panels,
17159C0065E	17159C0151E	17159C0177E	17159C0256E	FIS, Database)
17159C0070E	17159C0152E	17159C0178E	17159C0260E	
17159C0080E	17159C0153E	17159C0179E	17159C0300E	
	17159C0154E	17159C0200E	Index	

Frequently Asked Questions



Resources by County

Mapping Phase

Preliminary Map Products

2023 Preliminary products are available below, or at higher resolution from the [FEMA MSC](#):

17159C0025E	17159C0100E	17159C0160E	17159C0210E	Preliminary FIS
17159C0050E	17159C0110E	17159C0165E	17159C0230E	Preliminary FIRM
17159C0055E	17159C0120E	17159C0170E	17159C0235E	Database
17159C0060E	17159C0150E	17159C0176E	17159C0255E	Download All (Panels, FIS, Database)
17159C0065E	17159C0151E	17159C0177E	17159C0256E	
17159C0070E	17159C0152E	17159C0178E	17159C0260E	
17159C0080E	17159C0153E	17159C0179E	17159C0300E	
	17159C0154E	17159C0200E	Index	

Changes Since Last FIRM

[🔗 Preliminary Changes Since Last FIRM \(CLSF\) Viewer \(ISWS\)](#)

Consultation Coordination Officer (CCO) Meeting 12/11/2023

Meeting Recording:

[📺 Watch Video](#) (hosted on Illinois Media Space)

[📄 Download MP4](#) (157 MB)

[📄 Meeting Presentation \(PDF\)](#)

Public Open House Meeting 3/20/2024

An [Open House](#) to review the preliminary FIRMs will be held on **Wednesday, March 20, 2024 from 4-6 PM** at the [Olney Public Library](#) in Olney, IL. All are welcome to attend and learn more about flood risk within their community. Residents can meet with staff one-on-one to view their addresses on the new maps and learn about their specific risk. There is no formal presentation during the Open House.

Data Development Phase

Flood Risk Review Meeting - Embarras Watershed And Bonpas Creek & Tributaries 8/31/2022

Meeting Recording:

[📺 Watch Video](#) (hosted on Illinois Media Space)

[📄 Download MP4](#) (227 MB)

[📄 Meeting Presentation \(PDF\)](#)

Resources by County

Discovery Phase

-  [Lower and Middle Wabash Watershed Discovery](#)
-  [Little Wabash Watershed Discovery](#)

Additional Resources



- [Richland County Hazard Mitigation Plan](#)
- [Floodplain Mapping 101](#)
- [Destined for DFIRMs](#)
- [Building Footprints](#)
- [Topographic Wetness Index](#)
- [Links to National Flood Insurance Program \(NFIP\) Information](#)

[[Return to County Listing](#)]

Watershed Based Projects

IllinoisFloodMaps.Org

HOME - STUDIES - LOMR REVIEW - MITIGATION - RESOURCES - ABOUT US

Coordinated Hazard Assessment (CHAMP)

County Based Resources

Mapping Program

Watershed Based Projects

In collaboration with FEMA and in association with Illinois State Water Survey, Prairie Research Institute at University of Illinois



REVISED AREA

Village of Pleasant Prairie

39.585

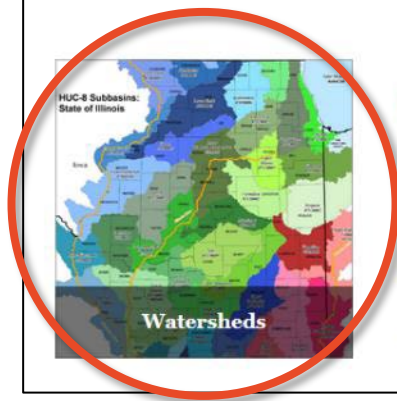
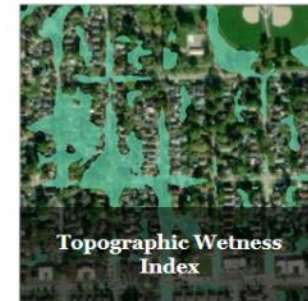
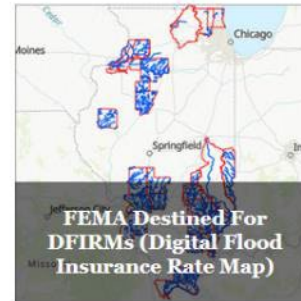
APPROVED FOR SIGNATURE

1. REQUESTOR'S SIGNATURE

All documents submitted in support of this request are correct to the best of my knowledge, and I am not aware of any facts or circumstances that would render this information false or misleading.

Signature of Requestor

2. COMMUNITY CONCURRENCE

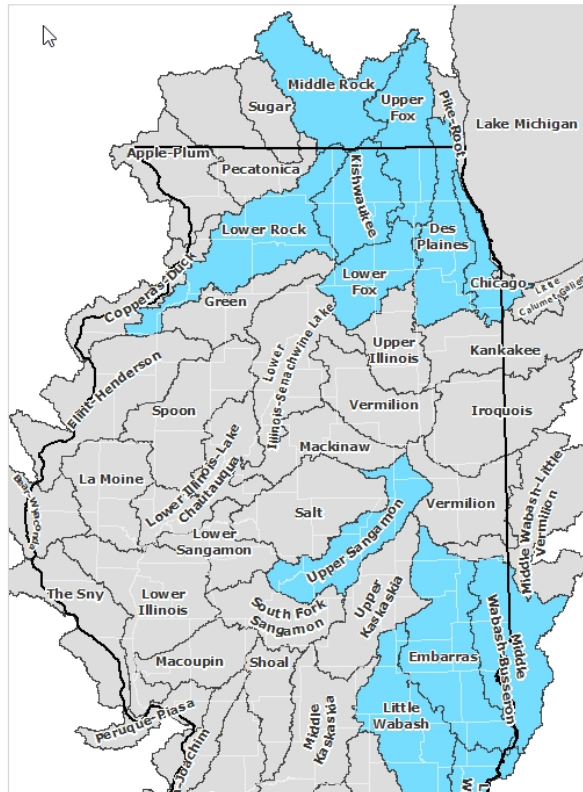


Watershed Based Projects

Watersheds

Illinois HUC-8 Watersheds

Click a blue area on map, or choose a watershed from the sidebar:

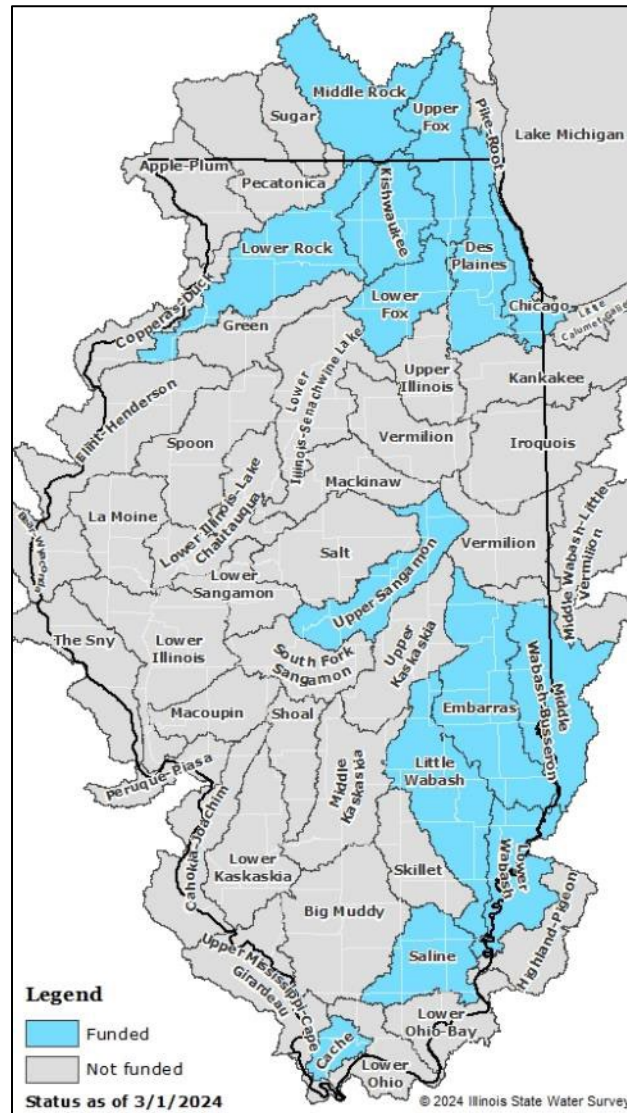


FEMA Risk MAP Watersheds

- Cache River
- Chicago River
- Des Plaines River
- Embarras River
- Kishwaukee River
- Little Wabash River
- Lower Fox River
- Lower Rock River
- Lower & Middle Wabash River
- Middle Rock River
- Saline River
- Upper Fox River
- Upper Sangamon River



Watershed Based Projects



Watershed Based Projects

Watersheds

LOWER WABASH (Huc05120113) AND MIDDLE WABASH-BUSSERON (HUC 05120111) WATERSHEDS

The Wabash River originates near Fort Recovery, Ohio. It flows southwest for 500 miles through Indiana and forms the boundary between Indiana and Illinois until it meets the Ohio River above Old Shawneetown, Illinois.

Flood Risk Review Meeting Material, March 2023

- [Meeting Presentation \(pdf\)](#)
- [Meeting Recording \(mp4\)](#)

Action Discovery Material, May 2015

- [Lower Wabash Action Discovery Map \(PDF\)](#)
- [Middle Wabash Action Discovery Map \(PDF\)](#)

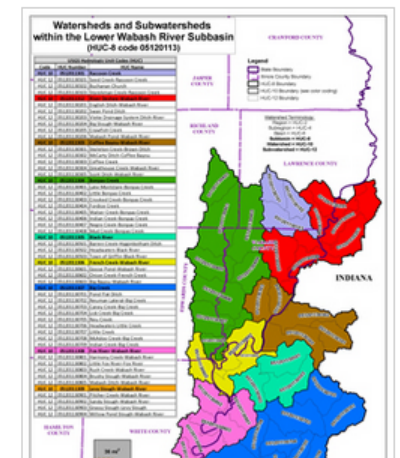
Discovery Material, July 2011

- [Discovery Report for Lower Wabash Watershed \(PDF\)](#)
- [Discovery Report for Middle Wabash Watershed \(PDF\)](#)
- [Discovery Map for Lower Wabash Watershed \(PDF\)](#)
- [Discovery Map for Middle Wabash Watershed \(PDF\)](#)
- [Lower and Middle Wabash Discovery Database \(ZIP\)](#)
- [Discovery Map Data Layers \(PDF\)](#)
- [Discovery Brochure \(PDF\)](#)

[[Return to Watersheds Listing](#)]

About The Wabash River

Approximately one-fourth of its drainage comes from Illinois. The Wabash is one of the largest free flowing rivers east of the Mississippi River. It flows unimpeded for over 400 miles from the Huntington Dam in Indiana to its confluence with the Ohio. The Wabash does not have commercial navigation.



Mitigation and Planning

IllinoisFloodMaps.Org

HOME - STUDIES LOMR REVIEW **MITIGATION** - RESOURCES - ABOUT US

Coordinated Hazard Assessment and Mapping (CHAMP)

Hazard Mitigation Plans
SAFR Web Map
Buyouts Database

In collaboration with FEMA and in association with Illinois State Water Survey, Prairie Research Institute at University of Illinois at Urbana-Champaign



REVISED AREA

Village of Pleasant Prairie

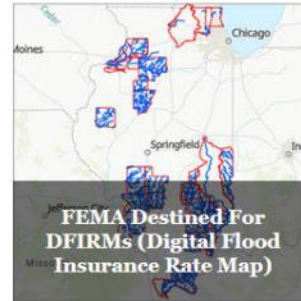
39,585

REVISION REQUESTOR'S SIGNATURE

FEDERAL REGISTER

SEPTEMBER 1, 2002

FEDERAL LETTERS OF MAP REVISION (LOMR)



Mitigation & Planning



Mitigation and Planning

Mitigation & Planning

Hazard Mitigation Plans



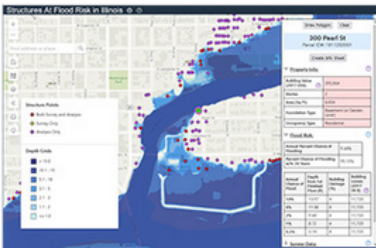
The essential steps of hazard mitigation – hazard identification, vulnerability analysis, and creating a hazard mitigation strategy – are addressed in the creation of the local hazard mitigation plan. The Illinois State Water Survey (ISWS) collaborates with Illinois counties, regional planning commissions, and the University of Illinois Extension to create and update local hazard mitigation plans.

What Is Mitigation?



Hazard Mitigation is defined as any sustained action taken to reduce or eliminate the long-term risk to life and property from hazard events. It is an on-going process that occurs before, during, and after disasters and serves to break the cycle of damage and repair in hazardous areas.

Structures At Flood Risk (SAFR)



SAFR is the product of collaboration between the Illinois Department of Natural Resources (IDNR) and the Illinois State Water Survey (ISWS). It contains data about structures in Illinois and their flood risk. SAFR is password-protected. The intended audiences are state and local officials and agency staff; in particular, floodplain managers, mitigation officers, and city planners.

Buyouts Database



The Illinois Buyouts Database is the product of collaboration between the Illinois Department of Natural Resources (IDNR) and the Illinois State Water Survey (ISWS). It contains data about structures in Illinois that have been mitigated through acquisition. The Buyouts Database web map is password-protected. The intended audiences are state and local officials and agency staff; in particular, floodplain managers,

M&P: Hazard Mitigation Plans

IllinoisFloodMaps.Org

HOME - STUDIES - LOMR REVIEW - **MITIGATION** - RESOURCES - ABOUT US

Coordinated Hazard Assessment and Mapping (CHAMP)

Hazard Mitigation Plans
SAFR Web Map
Buyouts Database

In collaboration with FEMA and in association with Illinois State Water Survey, Prairie Research Institute at University of Illinois at Urbana-Champaign



REVISED AREA

Village of Pleasant Prairie

39.545

REVISION DATE: SEPTEMBER 1, 2002

FEMA Letters Of Map Revision (LOMR)

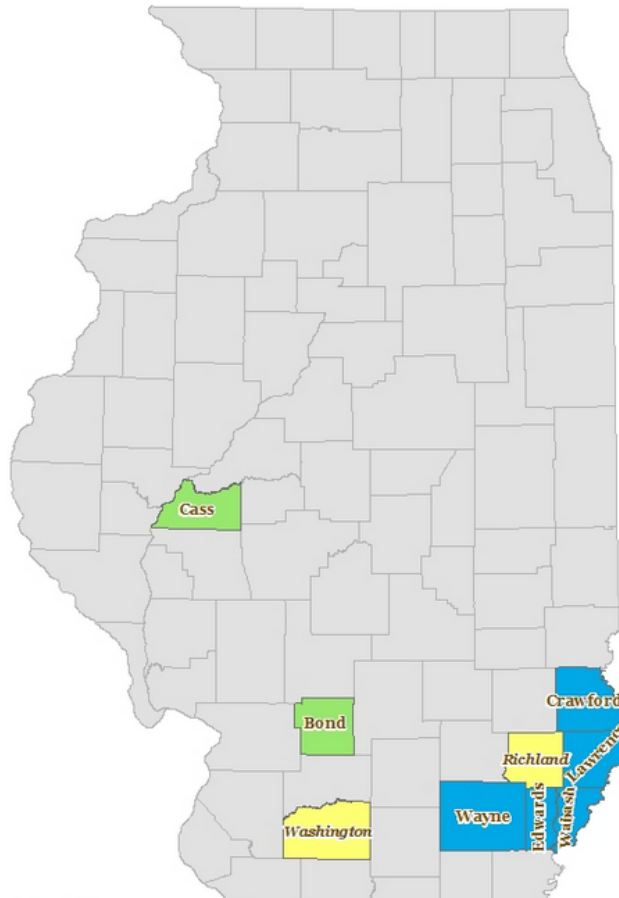


Mitigation & Planning



M&P: Hazard Mitigation Plans

Hazard Mitigation Plans



The Illinois State Water Survey (ISWS) collaborates with Illinois Counties, Regional Planning Commissions, and the University of Illinois Extension to create and update local Hazard Mitigation Plans. Hazard Mitigation is defined as any sustained action taken to reduce or eliminate the long-term risk to life and property from hazard events. It is an on-going process that occurs before, during, and after disasters and serves to break the cycle of damage and repair in hazardous areas. The essential steps of hazard mitigation are Hazard Identification, Vulnerability Analysis, and Creating a Hazard Mitigation Strategy. All three steps are addressed in the creation of the local Hazard Mitigation Plan.

Preparing a plan requires the engagement of local governments, stakeholders, and residents in the planning process. Developing the hazard mitigation plan will enable a county to:

- Identify actions for risk reduction that are agreed upon by stakeholders and the public.
- Focus resources on the greatest risks and vulnerabilities.
- Build partnerships by involving citizens, organizations, and businesses.

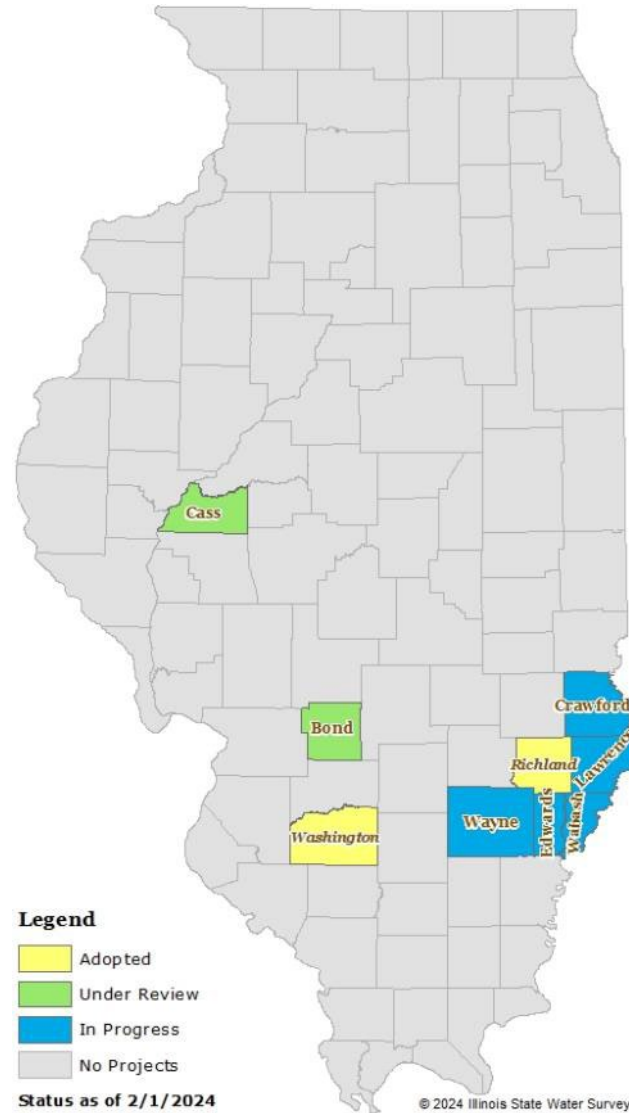
Ongoing Projects

- Cass County
- Bond County
- Crawford County
- Lawrence County
- Wayne County
- Edwards County
- Wabash County



A Mitigation Committee Meeting at a local library.

M&P: Hazard Mitigation Plans



M&P: Hazard Mitigation Plans

Hazard Mitigation Plan: Wayne County

The Illinois State Water Survey (ISWS) is collaborating with the Greater Wabash Regional Planning Commission (GWRPC) to update the Wayne County Hazard Mitigation Plan. Please continue to visit this page for updates throughout the planning process.

Meeting #1 - 1/23/2024 & 1/25/2024

Wayne County Hazard Mitigation Committee Meeting #1 - Kickoff

This meeting occurred from 9:00AM - 10:00AM CT on January 23, 2024. This was an in-person meeting held at the Farm Bureau Building in Albion, IL. An additional virtual meeting was held on January 25, 2024 from 5:30PM - 6:30PM CT. If you were unable to attend this meeting and want to make a comment, please email the Illinois State Water Survey at mitigation@isws.illinois.edu.

To-Do

-  [Capability Assessment](#)
-  [Community Survey](#)

Resources

-  [Meeting Notes \(PDF\)](#)
-  [Meeting Summary Recording \(hosted on Media Space\)](#)
-  [Meeting Slides \(PDF\)](#)

The CHAMP team at ISWS is happy to help! Feel free to contact us at: mitigation@isws.illinois.edu

[\[Return to Hazard Mitigation page \]](#)

Hazard Mitigation Plans

Preparing a plan requires the engagement of local governments, stakeholders, and residents in the planning process.



The Illinois State Water Survey (ISWS) collaborates with Illinois Counties, Regional Planning Commissions, and the University of Illinois Extension to create and update local Hazard Mitigation Plans.

M&P: SAFR (Structures At Flood Risk)

IllinoisFloodMaps.Org

HOME - STUDIES LOMR REVIEW - **MITIGATION** - RESOURCES - ABOUT US

Coordinated Hazard Assessment and Mapping (CHAMP)

In collaboration with FEMA and in association with Illinois State Water Survey, Prairie Research Institute at University of Illinois at Urbana-Champaign

- Hazard Mitigation Plans
- SAFR Web Map**
- Buyouts Database

Resources By County

FEMA Letters Of Map Revision (LOMR)

FEMA Destined For DFIRMs (Digital Flood Insurance Rate Map)

Topographic Wetness Index

Watersheds

Building Footprints

Mitigation & Planning

Other Resources

M&P: SAFR (Structures At Flood Risk)

Structures At Flood Risk (SAFR)

SAFR is the product of collaboration between the Illinois Department of Natural Resources (IDNR) and the Illinois State Water Survey (ISWS). It provides access to digital data about structures in Illinois and their flood risk. SAFR is password-protected. The intended audiences are state and local officials and agency staff; in particular, floodplain managers, mitigation officers, and city planners. It is not intended for use by the general public.

In 2021, IDNR and ISWS were awarded the fifth annual CTP Recognition Award by FEMA. [See the Story Map](#) that was created by FEMA as part of the award.

Link To The SAFR Web Map:

SAFR is password-protected. If you work in one of the sectors listed above and would like to request access, please email the Mitigation & Planning group: mitigation@isws.illinois.edu

See the SAFR web map at: <https://go.illinois.edu/SAFR>

SAFR User Guide:

The **SAFR User Guide** explains the basics of the web map and includes a step-by-step walkthrough of how to use it.

[Download SAFR User Guide \(PDF\)](#)

The accompanying **SAFR Tutorial Video** includes an explanation of SAFR data and demonstrations of how to use the web map.

[SAFR Tutorial Video \(hosted on Media Space\)](#)

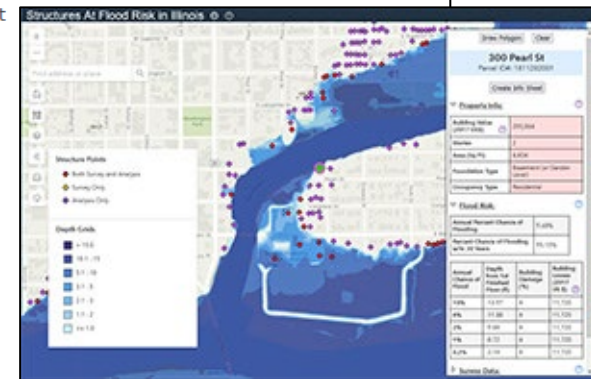
Features:

Layer List

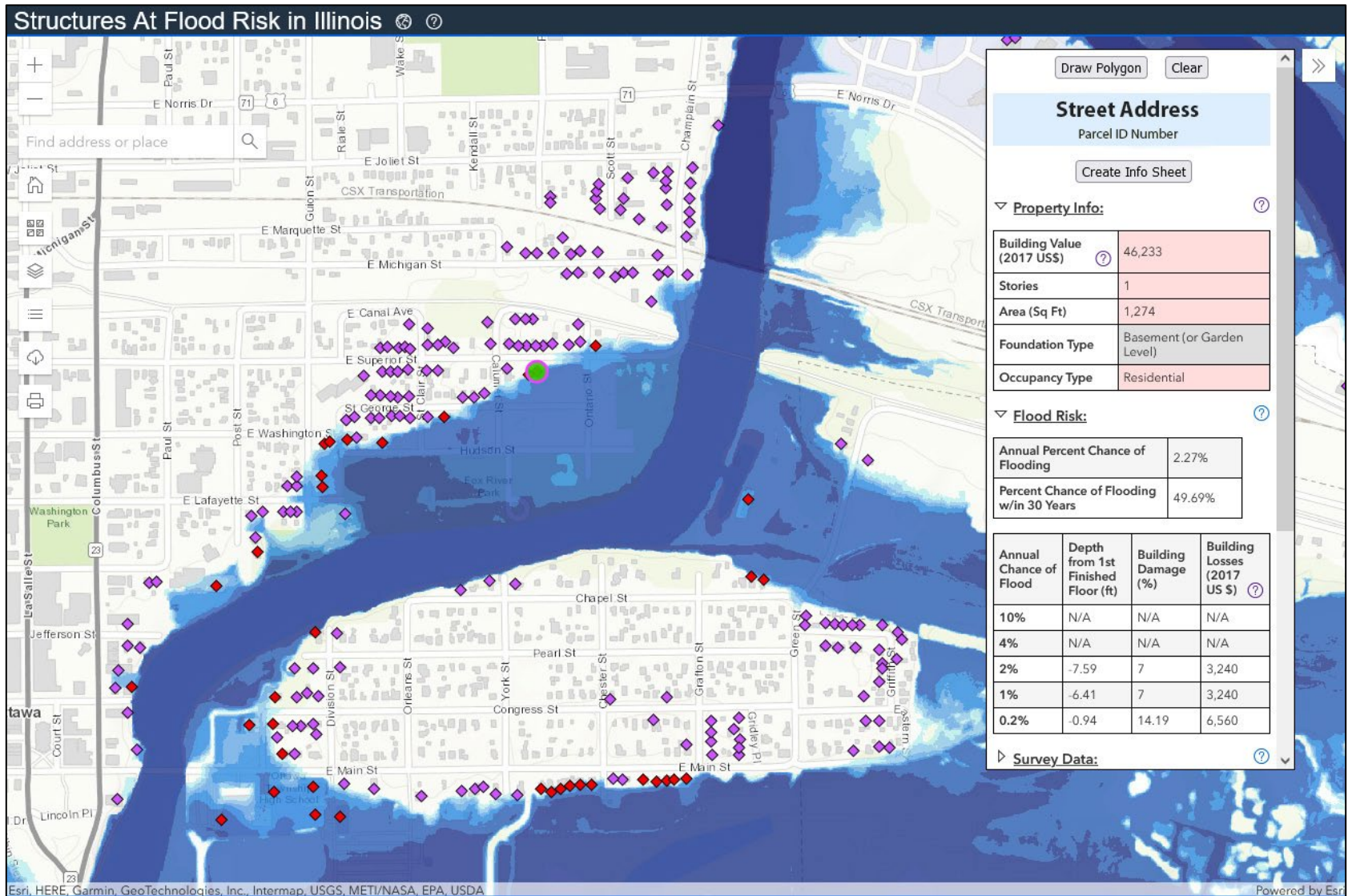
Layers available include structure points, depth grids, analysis grids, and FEMA's National Flood Hazard Layer. Layers can be turned on and off.

Structure Info Table

View data for an individual structure by clicking on its point. Data may include basic property info, flood risk, and survey data.



M&P: SAFR (Structures At Flood Risk)



M&P: Buyouts Database

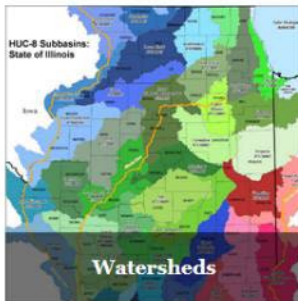
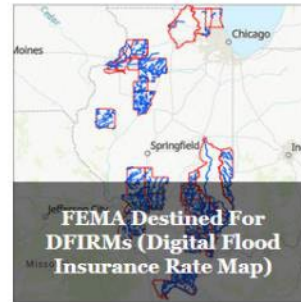
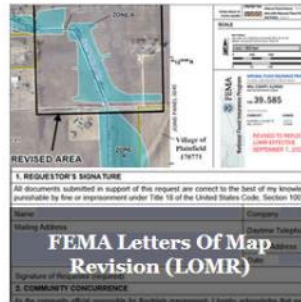
IllinoisFloodMaps.Org

HOME - STUDIES LOMR REVIEW - **MITIGATION** - RESOURCES - ABOUT US

Coordinated Hazard Assessment and Mapping (CHAMP)

In collaboration with FEMA and in association with Illinois State Water Survey, Prairie Research Institute at University of Illinois at Urbana-Champaign

- Hazard Mitigation Plans
- SAFR Web Map
- Buyouts Database**



M&P: Buyouts Database

Buyouts Database

The Illinois Buyouts Database is the product of collaboration between the Illinois Department of Natural Resources (IDNR) and the Illinois State Water Survey (ISWS). It provides access to digital data about structures in Illinois that have been mitigated through acquisition. The Buyouts Database web map is password-protected. The intended audiences are state and local officials and agency staff; in particular, floodplain managers, mitigation officers, and city planners. It is not intended for use by the general public.

The extent of data varies by area - not all acquisition projects have complete datasets or data coverage. If a community has conducted an acquisition program with their own funds, it may not be represented in this database.

Link To The Buyouts Database Web Map:

The Illinois Buyouts Database is password-protected. If you work in one of the sectors listed above and would like to request access, please email the Mitigation & Planning group: mitigation@isws.illinois.edu.

See the Illinois Buyouts Database web map at: <https://go.illinois.edu/BuyoutsDatabase>.

Features:

Layer List

Layers available include the structure points and FEMA's National Flood Hazard Layer. Layers can be turned on and off.

Layers:

Structure Points

Nat'l Flood Hazard Layer
Not available for all counties
Zoom in to view NFHL

Structure Info Table

View information for an individual structure by clicking on its point. Data availability varies based on the recordkeeping of the original mitigation project.

Draw Polygon Clear

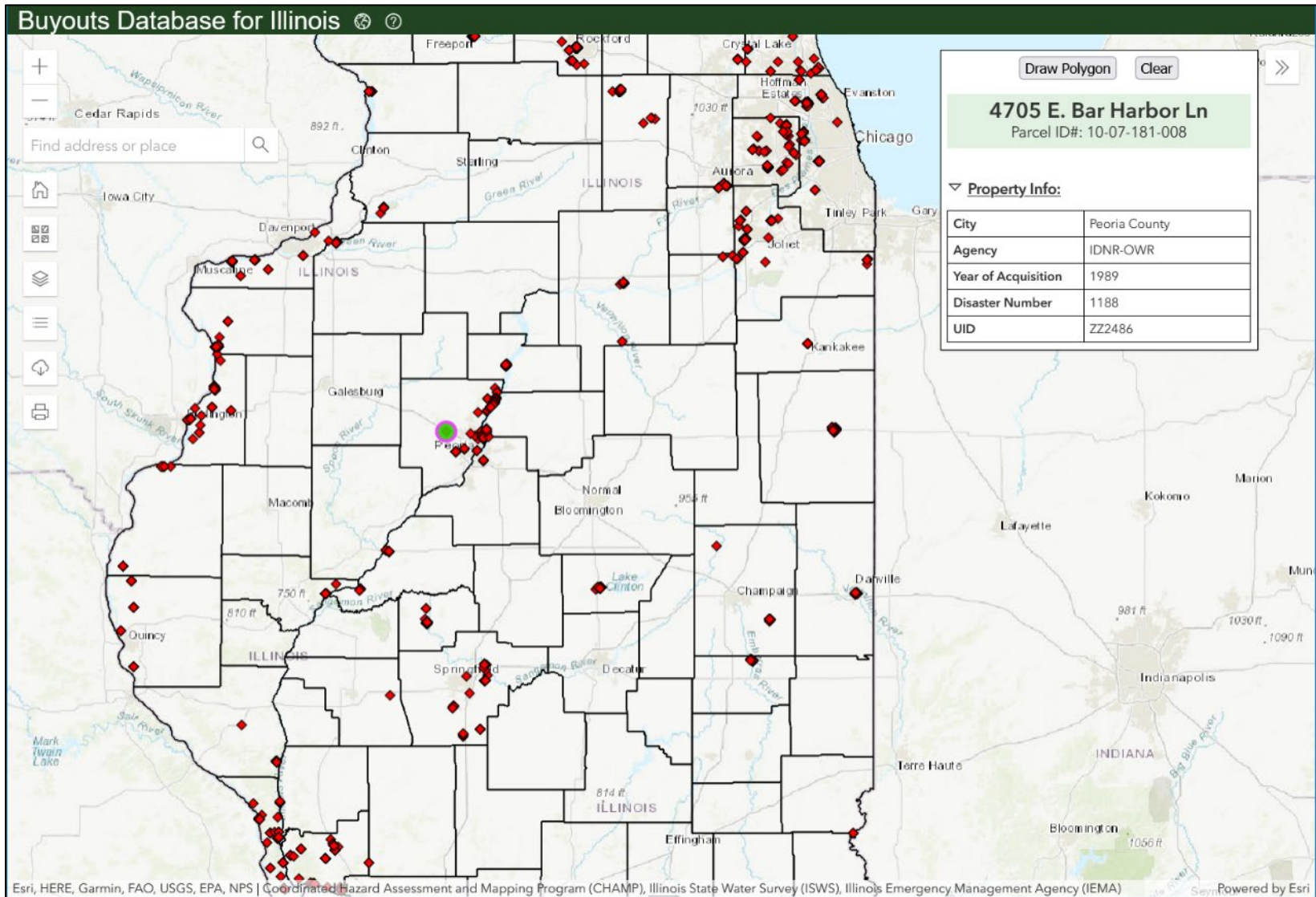
Street Address
Parcel ID#

▼ **Property Info:**

City	Plainfield
Agency	FEMA, DCEO



M&P: Buyouts Database



Letters Of Map Revision (LOMR)

IllinoisFloodMaps.Org

HOME → STUDIES → **LOMR REVIEW** → MITIGATION → RESOURCES → ABOUT US

Search...

Coordinated Hazard Assessment and Mapping Program (CHAMP)

In collaboration with FEMA and in association with Illinois State Water Survey, Prairie Research Institute at University of Illinois

Resources By County

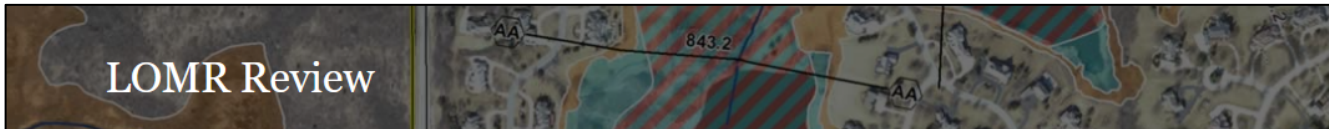
FEMA Letters Of Map Revision (LOMR)

FEMA Destined For DFIRMs (Digital Flood Insurance Rate Map)

Topographic Wetness Index

HJC-8 Subbasins: State of Illinois

Letters Of Map Revision (LOMR)



LOMR/CLOMR Application Processing

Since 2010, the Illinois State Water Survey has been reviewing and processing applications for Letters of Map Revision (LOMR) and Conditional Letters of Map Revision (CLOMR) as part of FEMA's LOMR Review Partners Program. Illinois is one of about 10 state or local Cooperating Technical Partners participating in the program. Through this program, the Illinois State Water Survey reviews and processes LOMR and CLOMR applications within the State of Illinois in partnership with FEMA.

Resources

ISWS reviewers have developed checklists as part of the MT-2 review process. These checklists are available for applicants to QA/QC their own models using the same criteria that the MT-2 reviewers use. The checklists are not fully comprehensive and do not guarantee acceptance of an MT-2 submittal.

- [Initial Inventory](#) - This checklist identifies the items required to initiate a LOMR/CLOMR review.
- [Hydrology Review](#) - This document covers several hydrologic methodologies and lists the common data elements needed to complete a hydrologic review.
- [Hydraulic Review](#) - This checklist is designed to identify common hydraulic modeling errors or issues. The checklist is most applicable to steady state HEC-RAS models, but can be used in some capacity for other hydraulic models.

Helpful Tips

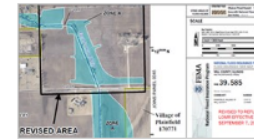
- ISWS highly recommends making your LOMR or CLOMR application submittal online through FEMA's LOMC Portal. When the online application is made, your request is directed immediately to our review staff for processing. The Online LOMC submittal page can be accessed here: <https://hazards.fema.gov/femaportal/onlinelomc/signin>
- Make sure to use the current version of the MT-2 forms and fill them out completely. The MT-2 application forms and instructions are available here: <https://www.fema.gov/flood-maps/change-your-flood-zone/paper-application-forms/mt-2>
- Payment forms and checks should be included with the application submittal to ISWS, but checks should be payable to National Flood Insurance Program. Make sure the correct fee is submitted (see [current fee schedule](#)).
- For CLOMR requests, make sure to include proof of compliance with the Endangered Species Act. Please use the [U.S. Fish and Wildlife Service's technical assistance website](#) for step-by-step instructions.
- Make sure to include IDNR-OWR approval when applicable (see [IDNR approval flowchart](#)).

Questions:

Chris Hanstad, PE, CFM
Illinois State Water Survey
2204 Griffith Drive
Champaign, IL 61820
(312) 244-2272

About LOMR

A LOMR is an official revision of a current Flood Insurance Rate Map (FIRM) accepted by FEMA, which reflects changes in mapped areas for flood zones, floodplain areas, floodways and flood elevations.



Sample map included in a Letter of Map Revision (LOMR).

The LOMR issued to communities by FEMA revises the effective data shown on the community's Flood Insurance Rate Map (FIRM) and/or Flood Insurance Study (FIS). FEMA does not re-issue FIRM panel or FIS when a LOMR is issued.

Resources: Destined for DFIRMs

IllinoisFloodMaps.Org

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Coordinated Hazard Assessment and Mapping Project (CHAMP)

In collaboration with FEMA and in association with Illinois State Water Survey, Prairie Research Institute at University of Illinois

- Destined for DFIRMs
- Floodplain Mapping 101
- Topographic Wetness Index
- Urban Flooding
- Story Maps
- Building Footprints
- Frequently Asked Questions
- Other Resources

Resources By County

FEMA Letters Of Map Revision (LOMR)

FEMA Destined For DFIRMs (Digital Flood Insurance Rate Map)

Topographic Wetness Index

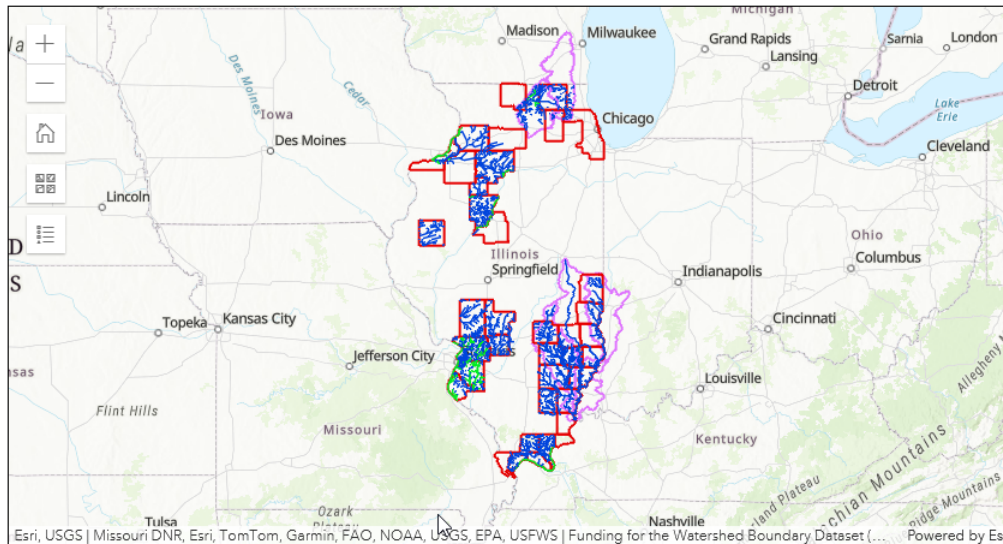
HJC-8 Subbasins: State of Illinois

Weather icons: snowflake, sun, rain, lightning.

Person in yellow jacket and blue boots wading through water.

Resources: Destined for DFIRMs

Destined For DFIRMs



Select To Zoom Map

- [Bond County](#)
- [Bureau/Stark County](#)
- [Clay County](#)
- [Effingham County](#)
- [Hamilton County](#)
- [Kishwaukee Watershed](#)
- [Lake County](#)
- [Lower/Mid Little Wabash River](#)
- [Macoupin County](#)
- [McDonough County](#)
- [Meredosia Ditch](#)
- [Metro East Area](#)
- [Montgomery County](#)
- [Peoria County](#)
- [Richland County](#)
- [Rock River](#)
- [Southern Illinois](#)
- [Turtle Creek](#)
- [Upper Fox River Watershed](#)

Click an item from list in sidebar to zoom to study area. Click on an area for more information.

About Destined For DFIRMs

This page shows those areas where the Illinois State Water Survey's CHAMP team is either performing engineering studies, collecting information, or incorporating new engineering data submitted by others as Physical Map Revisions (PMRs) to the Digital Flood Insurance Rate Maps (DFIRMs), as well as other publicly funded studies. The web map can be a tool to guide those seeking Letters of Map Revision (LOMRs) through MT-2 form submission. If there are LOMR studies or other flood hazard studies ongoing in or near the identified streams on our application, please contact our staff to verify precise locations to avoid redundancy.

At this time, we cannot display an individual study's progress, but inquiries can be made to our staff regarding timelines. Once fully approved, these studies will be incorporated into the Federal Emergency Management Agency's effective Digital Flood Insurance Rate Maps, and removed from this map application.

Resources: Topographic Wetness Index

The screenshot shows the IllinoisFloodMaps.Org website. The navigation bar includes links for HOME, STUDIES, LOMR REVIEW, MITIGATION, RESOURCES, and ABOUT US. A dropdown menu is open under RESOURCES, with 'Topographic Wetness Index' highlighted in blue and circled in red. Below the menu, there is a section titled 'Topographic Wetness Index' with a descriptive paragraph and a link to an interactive map. The map shows a suburban area with blue-shaded regions indicating TWI areas. A search bar and zoom controls are visible on the map interface.

IllinoisFloodMaps.Org

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Topographic Wetness Index

- Destined for DFIRMs
- Floodplain Mapping 101
- Topographic Wetness Index**
- Urban Flooding
- Story Maps
- Building Footprints
- Frequently Asked Questions
- Other Resources

The Topographic Wetness Index (TWI) is an index or indicator of the effect of local topography on runoff flow direction and accumulation. The index is a function of both the slope and the upstream contributing area. The computation of TWI is performed using both geographic information systems (GIS) and Python, a programming software used to enhance computing capabilities. The indices help identify rainfall runoff patterns, areas of potential increased soil moisture, and ponding areas.

With support from FEMA and using high resolution DEMs derived from LiDAR, Illinois State Water Survey generated the index for the Illinois counties of DuPage and Will (see [report](#)), and with the support of National Resources Conservation Service (NRCS) subsequently generated the index for all remaining Illinois counties. The Illinois Department of Natural Resources (IDNR) funded the creation for Lake County as part of their Coastal Management Program. While TWI is usually viewed in raster format, ISWS is distributing a version in polygon format for easier access and use.

Navigate To An Area Of Interest Using This Interactive Map.

TWI areas shown in blue in a suburban area.

A high resolution digital elevation model from LiDAR was used to develop TWI.

Resources: Topographic Wetness Index

Navigate To An Area Of Interest Using This Interactive Map.

Find address or place

View larger map

POWERED BY esri

Maxar | Esri, HERE, Garmin, iPC

Resources: Topographic Wetness Index

For most counties, two versions of TWI in shapefile GIS format are contained in the downloadable zip file. TWI was computed using a bare earth Digital Elevation Model (DEM) so TWI polygons mistakenly overlap many building footprints. The first version (with the suffix **v0**) contains these overlapping polygons. In a second version (with the suffix **TWI**), overlapping areas were subsequently removed during post processing using building footprints.

This first release version is a direct product of computer processing without manual examination of areas across the state and may therefore inaccurately display areas such as lakes, rivers, and areas where road culverts were missing from the LiDAR.

Select a county of interest to download the shapefile. Please see our [disclaimer](#).

Adams	DuPage	JoDavie	Mclean	Scott
Alexander	Edgar	Johnson	Menard	Shelby
Bond	Edwards	Kane	Mercer	Stark
Boone	Effingham	Kankakee	Monroe	St Clair
Brown	Fayette	Kendall	Montgomery	Stephenson
Bureau	Ford	Knox	Morgan	Tazewell
Calhoun	Franklin	Lake	Moultrie	Union
Carroll	Fulton	Lasalle	Ogle	Vermilion
Cass	Gallatin	Lawrence	Peoria	Wabash
Champaign	Greene	Lee	Perry	Warren
Christian	Grundy	Livingston	Piatt	Washington
Clark	Hamilton	Logan	Pike	Wayne
Clay	Hancock	Macon	Pope	White
Clinton	Hardin	Macoupin	Pulaski	Whiteside
Coles	Henderson	Madison	Putnam	Will
Cook	Henry	Marion	Randolph	Williamson
Crawford	Iroquois	Marshall	Richland	Winnebago
Cumberland	Jackson	Mason	Rock Island	Woodford
DeKalb	Jasper	Massac	Saline	
DeWitt	Jefferson	Mcdonough	Sangamon	
Douglas	Jersey	McHenry	Schuyler	

Resources: Building Footprints

IllinoisFloodMaps.Org

HOME ▾ STUDIES LOMR REVIEW ▾ MITIGATION ▾ RESOURCES ▾ ABOUT US

Building Footprints

ISWS is providing for download building footprints for every county in Illinois in shapefile format. Building footprints represent the perimeter outline of each building, but the building outlines can only roughly represent the buildings. Sometimes one single polygon may include many buildings that are close to each other.

In 2018 Microsoft released approximately 125 million building footprint polygon geometries in all 50 US States in GeoJSON format. The building footprints were generated by training computer vision algorithms to recognize building geometries on aerial imagery of the USA. More information can be found on [github](#). ISWS is making these available in shapefile format for all Illinois counties. A [Vector Tile implementation](#) of the data is hosted by Esri.

Additionally for a select number of counties in Illinois, ISWS extracted building footprints from LiDAR data in LAS format and converted these into polygons. As part of the extraction process, a squaring function was performed to produce an approximation of the roof outlines of buildings by squaring the traced building outlines. Thus, the extraction detected rectangular buildings very effectively, but the buildings with other shapes may not be extracted as their real shapes.

How does the data compare for counties where both building footprint types are available? In short, the ISWS derived footprints are more numerous. One reason for this is the LiDAR files for each county included areas close to, but outside the county boundary, and building footprints for these areas are included in the shapefile. An additional reason may be that the LiDAR used by ISWS was more recently acquired than the imagery used by Microsoft in creating footprints. A more detailed explanation of the comparison process is found in this [report](#).

Select a county of interest to download the shapefile created from LiDAR (SWS) or Microsoft (MS). Please see our [disclaimer](#).

Adams (MS)	Edgar (MS)	Kane (MS)	Mercer (MS)	St Clair (SWS / MS)
Alexander (MS)	Edwards (MS)	Kankakee (SWS / MS)	Monroe (SWS / MS)	Stark (MS)
Bond (SWS / MS)	Effingham (MS)	Kendall (MS)	Montgomery (SWS / MS)	Stephenson (MS)

Destined for DFIRMs

Floodplain Mapping 101

Topographic Wetness Index

Urban Flooding

Story Maps

Building Footprints

Frequently Asked Questions

Other Resources



Building footprints shown in pink in an urban area.

Building footprints were extracted from high resolution digital elevation models from LiDAR.

Resources: FAQ

The screenshot shows the Illinois Flood Maps website. The navigation bar at the top includes links for HOME, STUDIES, LOMR REVIEW, MITIGATION, RESOURCES, and ABOUT US. A dropdown menu is open from the RESOURCES link, listing various resources: Destined for DFIRMs, Floodplain Mapping 101, Topographic Wetness Index, Urban Flooding, Story Maps, Building Footprints, Frequently Asked Questions (highlighted with a red circle and a mouse cursor), and Other Resources. The main content area features the heading 'Frequently Asked Questions' and several FAQ entries:

Frequently Asked Questions

What Is A FIRM?

A FEMA Flood Insurance Rate Map (FIRM) is an official map of a community on which FEMA has delineated the Special Flood Hazard Flood Elevations (BFEs), and the risk premium zones applicable to the community. FIRMs are available for viewing and download at [Center](#) website.

What Is A FIS?

When a flood study is completed for the National Flood Insurance Program (NFIP), the information and maps are assembled into a Flood Insurance Study (FIS). The FIS report contains detailed flood elevation data in flood profiles and data tables. FISes are available for viewing and download at FEMA's [Flood Map Service Center](#) website.

What Is A FIRM Database?

A FIRM Database is a Geographic Information Systems (GIS) version of the FIRM and most of the quantitative data in the Flood Insurance Study. FIRM Databases are available for download at FEMA's [Flood Map Service Center](#) website.

What Is The NFHL?

The [National Flood Hazard Layer \(NFHL\)](#) is a geospatial database that contains current effective flood hazard data. FEMA provides the flood hazard data to support the National Flood Insurance Program (NFIP). The NFHL is made from effective flood maps and Letters of Map Change (LOMC) delivered to communities. NFHL digital data covers over 90 percent of the U.S. population. New and revised data is being added continuously. If you need information for areas not covered by the NFHL data, there may be other FEMA products which provide coverage for those areas.

Resources: Other Resources

The screenshot shows the IllinoisFloodMaps.Org website. At the top, the navigation menu includes HOME, STUDIES, LOMR REVIEW, MITIGATION, RESOURCES, and ABOUT US. The main heading is 'Other Resources'. On the right side, a dropdown menu is open, listing various resources: Destined for DFIRMs, Floodplain Mapping 101, Topographic Wetness Index, Urban Flooding, Story Maps, Building Footprints, Frequently Asked Questions, and 'Other Resources', which is circled in red. Below the navigation, the page is divided into two main sections: 'FEMA' and 'Illinois'. The 'FEMA' section contains a list of links to various FEMA resources. The 'Illinois' section contains a list of links to state resources. On the right side of the page, there are three additional resource cards: 'Federal Emergency Management Agency' with the FEMA logo, 'Illinois Department of Natural Resources - Office of Water Resources' with the IDNR logo, and 'Illinois Geospatial Data Clearinghouse' with the clearinghouse logo.

IllinoisFloodMaps.Org

HOME ▾ STUDIES LOMR REVIEW ▾ MITIGATION ▾ RESOURCES ▾ ABOUT US

Other Resources

Destined for DFIRMs

Floodplain Mapping 101

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Frequently Asked Questions


Other Resources

ILLINOIS


Federal Emergency Management Agency



Illinois Department of Natural Resources - Office of Water Resources



Illinois Geospatial Data Clearinghouse



FEMA

- Federal Emergency Management Agency (FEMA)
- National Flood Insurance Program (NFIP)
- FloodSmart
- Ready.gov
- Community Rating System (CRS)
- FEMA Flood Map Service Center (MSC)
- National Flood Hazard Layer (NFHL) Viewer
- Flood Map Changes Viewer
- FEMA Grants
- Hazard Mitigation Assistance Grants
- Hazard Mitigation Planning
- Hazard Mitigation Plan Status Viewer
- Increased Cost of Compliance Coverage
- Hazus

Illinois

- Coordinated Hazard Assessment and Mapping Program (CHAMP)
- Illinois State Water Survey
- Prairie Research Institute
- Illinois Department of Natural Resources, Office of Water Resources (IDNR-OWR)
- IDNR Elevation Finder
- Illinois Emergency Management Agency (IEMA)
- Ready Illinois

Resources: Other Resources

Illinois

- Coordinated Hazard Assessment and Mapping Program (CHAMP)
- Illinois State Water Survey
- Prairie Research Institute
- Illinois Department of Natural Resources, Office of Water Resources (IDNR-OWR)
- IDNR Elevation Finder
- Illinois Emergency Management Agency (IEMA)
- Ready Illinois
- IEMA - Approved Illinois State and County Mitigation Plans
- Illinois Geospatial Data Clearinghouse
- Illinois Height Modernization (ILHMP) LiDAR Data

Regional

- Great Lakes Coastal Resilience Planning Guide
- U.S. Army Corps of Engineers Chicago District
- U.S. Army Corps of Engineers Rock Island District
- U.S. Army Corps of Engineers St. Louis District
- Metropolitan Water Reclamation District of Greater Chicago (MWRDGC)
- Cook County, IL, Disaster Recovery and Resilience - CDBG-DR
- The Polis Center, Indiana University-Purdue University Indianapolis
- Northwestern Indiana Regional Planning Commission (NIRPC)
- Southeastern Wisconsin Regional Planning Commission (SEWRPC)

Other Agencies & Organizations

- American Planning Association (APA)
- Association of State Dam Safety Officials (ASDSO) - "Living with Dams: Know Your Risk"
- Association of State Floodplain Managers (ASFPM)
- Center for Neighborhood Technology (CNT)
- Illinois Association for Floodplain and Stormwater Management (IAFSM)
- Institute for Catastrophic Loss Reduction - "Protect Your Home from Basement Flooding"
- National Weather Service Flood Safety Tips and Resources
- U.S. Army Corps of Engineers National Levee Database
- U.S. Board on Geographic Names



Illinois Geospatial Data
Clearinghouse



Association of State Floodplain
Management



Illinois Association for Floodplain
and Stormwater Management



U.S. Board on Geographic Names
at U.S. Geological Survey



Resources: Urban Flooding

IllinoisFloodMaps.Org

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Coordinated Hazard Assessment and Mapping Project (CHAMP)

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- Floodplain Mapping 101
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- Urban Flooding**
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- Other Resources

Countywide Digital FIRM Status

Resources By County

REVISOR'S SIGNATURE

FEMA Letters Of Map Revision (LOMR)

FEMA Destined For DFIRMs (Digital Flood Insurance Rate Map)

Topographic Wetness Index

HUC-8 Subbasins: State of Illinois

ILLINOIS STATE WATER SURVEY

Resources: Urban Flooding

Urban Flooding

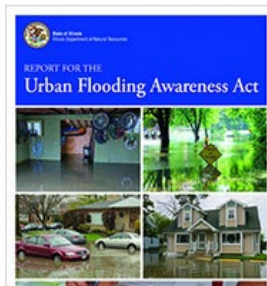
Urban flooding affects Illinoisians every year. As defined by the Urban Flooding Awareness Act (UFAA), it is "The inundation of property in a built environment, particularly in more densely populated areas, caused by rainfall overwhelming the capacity of drainage systems, such as storm sewers". As defined by the National Risk Index, Riverine flooding occurs when a water source like a river overflows its banks onto normally dry land. Unlike Riverine flooding, Urban flooding can happen regardless of an area's distance to a river or lake.

The floodplains shown on FEMA Flood Insurance Rate Maps represent only riverine flooding. According to UFAA, "Over 90% of urban flooding damage [insurance] claims from 2007 to 2014 were outside the mapped floodplain". CHAMP is involved with projects studying urban flooding, including contributing to the report for the [Urban Flooding Awareness Act](#). It has also worked with the [Metropolitan Water Reclamation District of Greater Chicago](#) on multiple reports. CHAMP staff are actively pursuing the development of an [Illinois Integrated Water Information Center](#). Additionally, team members have created models and [Story Maps](#) of recent urban flooding events.



A residential street is flooded after nearly 5 inches of rain fell in 24 hours. Photo credit: Zoe Zaloudek

Urban Flooding Awareness Act (UFAA)



In 2014, the Illinois General Assembly tasked the Illinois Department of Natural Resources (IDNR) to prepare a report on the extent, cost, prevalence, and policies related to urban flooding in Illinois and to identify resources and technology that may lead to mitigation of the impact of urban flooding. IDNR prepared this report in collaboration with other state agencies, including the Illinois State Water Survey. It was released in June 2015.

IDNR webpage on UFAA (includes download links for report & appendices):
<https://dnr.illinois.gov/waterresources/urbanfloodingawareness.html>

University of Illinois IDEALS link to report:
<https://www.ideals.illinois.edu/items/79381>

Resources: Urban Flooding



University of Illinois IDEALS link to report:
<https://www.ideals.illinois.edu/items/79381>

Metropolitan Water Reclamation District (MWRD)

The CHAMP team has worked with the Metropolitan Water Reclamation District (MWRD) on a [multi-phase project](#) to examine the hydrologic and hydraulic impacts of stormwater retention and detention policies in the Greater Chicago region.

Illinois Integrated Water Information Center (IWIC)

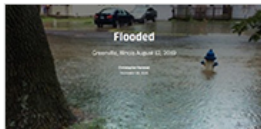
As recommended in the [2022 Illinois State Water Plan](#), the Illinois State Water Survey and the other agencies that comprise the [State Water Plan Task Force](#) are working to establish and fund an Illinois [Integrated Water Information Center](#) (IWIC) in the Prairie Research Institute at the University of Illinois to foster interdisciplinary collaboration between Illinois state, federal and local agencies on water related issues including climate variability and related social and environmental justice considerations. IWIC would serve as a centralized location for water resource related information to inform and empower Illinois' decision makers, program managers, emergency managers, community officials, home and business owners, and the public.

Flood Event Story Maps



Gibson City Story Map

On August 12, 2021 a line of thunderstorms developed along southern Ford County, IL. Nearly 10 inches of rain fell in under 10 hours. This story map includes a model simulation produced by the Illinois State Water Survey, which shows the progression of the flood in Gibson City from the morning to the evening of August 12th. Photos taken during the flood are compared to the model results.



Greenville Story Map

On August 12, 2019, Greenville, Illinois received 9.34 inches of rain in 12 hours. Rainfall rates exceeded 2 inches per hour. Residents reported and documented street flooding, yard flooding, and basement flooding. This story map includes a model simulation produced by the Illinois State Water Survey, which shows the progression of the flood in Greenville. Photos taken during the flood are compared to the model results.

External Resources

- [Center for Neighborhood Technology \(CNT\)](#)
- [Chicago Metropolitan Agency for Planning \(CMAP\)](#)
- [Metropolitan Water Reclamation District of Greater Chicago \(MWRDGC\)](#)

Resources: Urban Flooding/MWRD

Metropolitan Water Reclamation District (MWRD)

Urban development is typically accompanied by an increase in impervious area that can lead to increased runoff and more severe flooding. Stormwater retention and detention policies are commonly employed by regulatory agencies to mitigate these potential development impacts within their jurisdiction. This project examines the hydrologic and hydraulic impacts of such policies in the Greater Chicago region. In Phase I of this project, ISWS-CHAMP in consultation with the Metropolitan Water Reclamation District (MWRD) outlined steps to compute watershed specific release rates for two pilot study areas in Cook County. In Phase II, this methodology was then applied to other District watersheds. Phase III of the project examines the impacts of these regulations from the lens of social equitability, multi-jurisdictional watershed management, and stormwater quality.

Watershed-Specific Release Rate Analyses:



Phase I and II Analysis Report (PDF)

- [Methodology](#)
- [Criteria for Analysis of Release Rates](#)



Phase III Analysis Report (PDF)

- [Chapter 1: Impacts of Watershed-Specific Release Rates on Disproportionately Impacted](#)



A pedestrian crosses a flooded street.

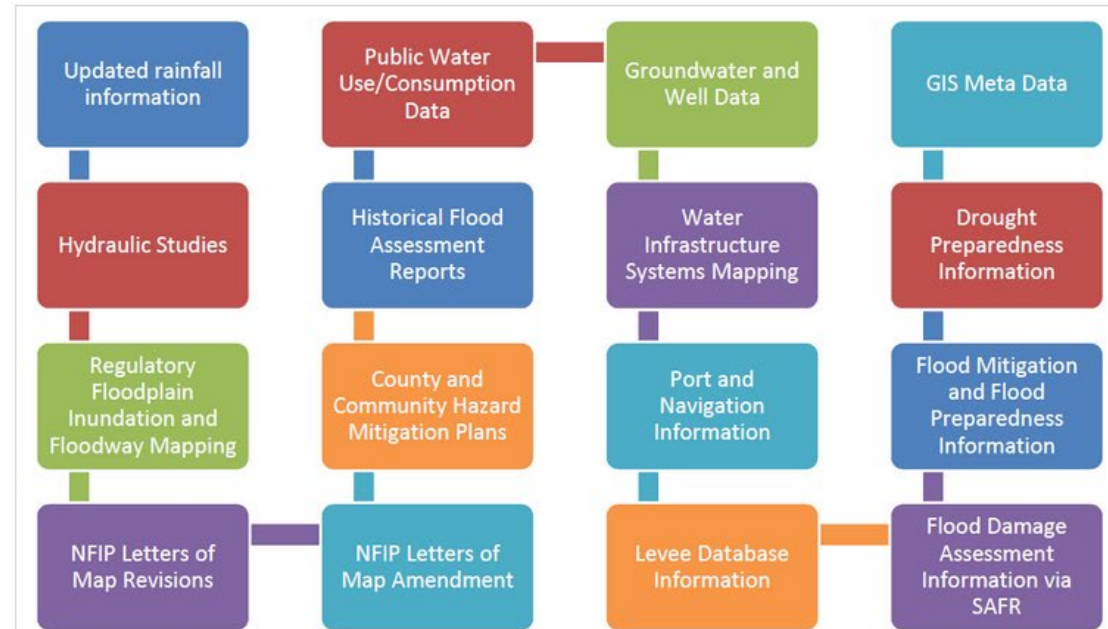


Train tracks partially submerged by excess rainfall.

Resources: Urban Flooding/IIWIC

Illinois Integrated Water Information Center (IWIC)

The Illinois Integrated Water Information Center (IWIC) in the Prairie Research Institute at the University of Illinois will be an interdisciplinary collaboration between Illinois state, federal and local agencies on water related issues including climate variability and related social and environmental justice considerations. As outlined in the [2022 Illinois State Water Plan](#), the [State Water Plan Task Force](#) is working to establish and fund this center to be a library of water science-based information and technology accessible by Illinois' decision makers, program managers, emergency managers, community officials, home and business owners, and the public. IWIC would serve as a centralized location for water resource related information including, but not limited to, the following:



Resources: Story Maps

IllinoisFloodMaps.Org

HOME ▾ STUDIES LOMR REVIEW ▾ MITIGATION ▾ RESOURCES ▾ ABOUT US

Coordinated Hazard Assessment and Mapping Project (CHAMP)

In collaboration with FEMA and in association with Illinois State Water Survey, Prairie Research Institute at University of Illinois

- Destined for DFIRMs
- Floodplain Mapping 101
- Topographic Wetness Index
- Urban Flooding
- Story Maps**
- Building Footprints
- Frequently Asked Questions
- Other Resources

Countywide Digital FIRM Status

Resources By County

1. REVISOR'S SIGNATURE
All documents submitted in support of this request are correct to the best of my knowledge, punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.

FEMA Letters Of Map Revision (LOMR)

2. COMMUNITY CONCURRENCE

FEMA Destined For DFIRMs (Digital Flood Insurance Rate Map)

Topographic Wetness Index

HJC-8 Subbasins: State of Illinois

ILLINOIS

Resources: Story Maps

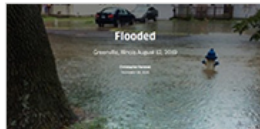
Story Maps

Flood Event Story Maps



Gibson City Story Map

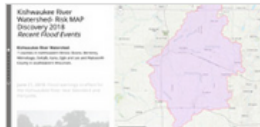
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Informational Story Maps



Kishwaukee River Watershed

This story map, made in Fall 2018, describes flood events that occurred in the Kishwaukee River watershed from 2015-2018. Impacted communities include Belvidere, Cherry Valley, and Sycamore.

Story Map Topic Locations

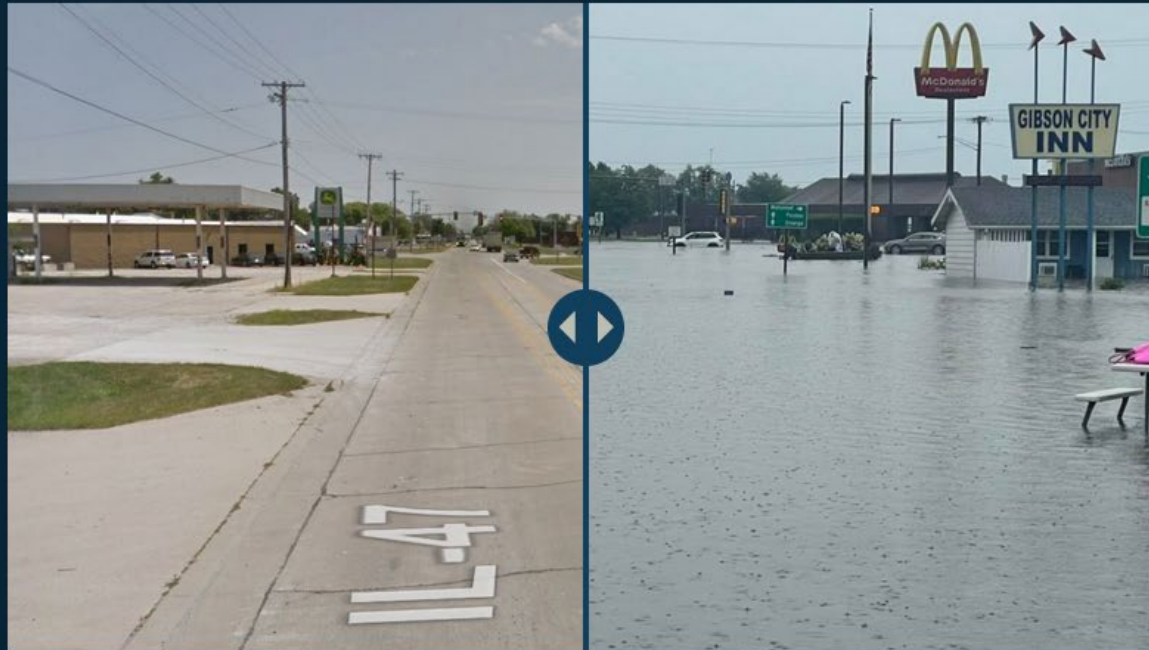


What Is A Story Map?



A story map is a web-based

Resources: Story Maps



Dry conditions at the intersection of 1st Street and Sangamon Avenue vs. flood (Image courtesy of Jacob Dickey)

Resources: Floodplain Mapping 101

The screenshot shows the IllinoisFloodMaps.Org website. The main header includes the site name and navigation links: HOME, STUDIES, LOMR REVIEW, MITIGATION, RESOURCES, and ABOUT US. The 'RESOURCES' link is active. Below the header is a large banner for the 'Coordinated Hazard Assessment and Mapping Project (CHAMP)', which is in collaboration with FEMA and the Illinois State Water Survey, Prairie Research Institute at the University of Illinois. A search bar on the right contains the text 'Destined for DFIRMs' and a magnifying glass icon. A dropdown menu is open, listing various resources: 'Floodplain Mapping 101' (highlighted with a red circle), 'Topographic Wetness Index', 'Urban Flooding', 'Story Maps', 'Building Footprints', 'Frequently Asked Questions', and 'Other Resources'. Below the banner are seven smaller resource tiles: 'Resources By County' (a map of Illinois counties), 'FEMA Letters Of Map Revision (LOMR)' (a document snippet), 'FEMA Destined For DFIRMs (Digital Flood Insurance Rate Map)' (a map of Illinois with flood zones), 'Topographic Wetness Index' (a satellite-style map with green overlays), 'HJC-8 Subbasins: State of Illinois' (a map of Illinois subbasins), a tile with purple building outlines, and a tile with weather icons (snowflake, sun, lightning, rain). The final tile on the right shows a person in a yellow jacket and blue boots wading through water.

Resources: Floodplain Mapping 101

Floodplain Mapping 101

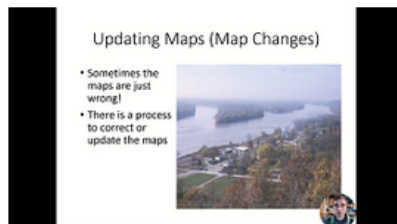
An introductory course in floodplain management and floodplain mapping, intended for community officials. This is a high level, informative session to help users better understand some of the more technical aspects of floodplain mapping.



Part 1 (36 min): Covers basic terms, types of FEMA maps, flood zones, Flood Insurance Studies (FIS), and locating Base Flood Elevations (BFEs) on maps and exhibits.

[▶ Watch Part 1 \(hosted on Illinois Media Space\)](#)

[↓ Download Part 1 MP4 \(402 MB\)](#)



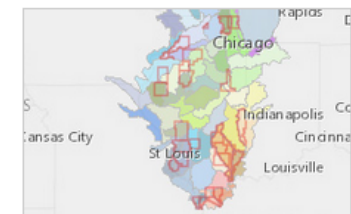
Part 2 (16 min): Updating maps through map changes, brief discussion of levees

[▶ Watch Part 2 \(hosted on Illinois Media Space\)](#)

[↓ Download Part 2 MP4 \(138 MB\)](#)

Working With Communities


A goal of RiskMAP is to work closely with communities to better understand local flood risk, mitigation efforts, and other topics and spark watershed-wide discussions about increasing resilience to flooding.




Current Risk Map Projects in Illinois are both watershed- and county-based.




Resources: Floodplain Mapping 101

media space | 
Illinois

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Floodplain Mapping 101, Part 1



Floodplain Mapping 101

09-22
A Few Minutes With Linda Mastandrea

Floodplain Mapping 101, Part 1 138 0

From [Zoe Zaloudek](#) 7/28/2023

Questions?

Sarah Milton, GISP, CFM
smilton@illinois.edu

Zoe Zaloudek, GISP, CFM
zaloudek@illinois.edu

<https://www.illinoisfloodmaps.org>