# ILLINOIS Illinois State Water Survey PRAIRIE RESEARCH INSTITUTE

### Wabash River Watershed Flood Risk Review Meeting March 17, 2023

ILLINOIS Illinois State Water Survey PRAIRIE RESEARCH INSTITUTE



June 11, 2008; Lawrence Co EMA

Illinois S	INOIS tate Water Survey EARCHINSTITUTE
	RISK REVIEW MEETING -WABASH RIVER WATERSHED, ILLINOIS
MARCH :	I7, 2023 ETING SURVEY
	uch do you know about your community's flood risk?
$\bigcirc$	alot
$\overline{\mathbf{O}}$	some
$\overline{O}$	not much
0	a lot some
0	some not much
Are you	able to communicate flood risk to your community?
	yes
$\bigcirc$	
0	no
O O Would	no you know where to go to get flood mitigation help?
Would	
Would	you know where to go to get flood mitigation help?
Would	you know where to go to get flood mitigation help? yes
Would	you know where to go to get flood mitigation help? yes
Would	you know where to go to get flood mitigation help? yes
Would	you know where to go to get flood mitigation help? yes

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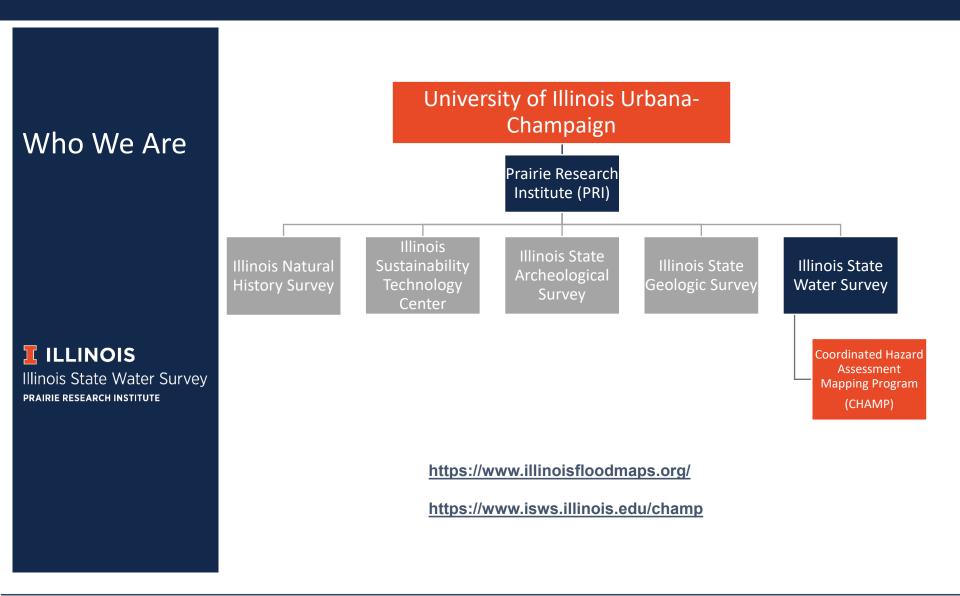
### Agenda

Rollcall
Introduction
Project Goals and Objectives
Project Scope
Levees
Wabash River Flood History
Hydrologic Study Methods
Hydraulic Study Methods
Webmap Results
Communication and Next Steps
Risk Communication & Mitigation Actions
Community Participation
Questions/Open Discussion

### Rollcall

Edwards County*	Wabash County*	Crawford County*
City of Albion	Village of Allendale	Village of Hutsonville*
Village of Bone Gap	Village of Bellmont*	City of Robinson*
Village of Browns*	Village of Keensburg*	Village of Palestine*
City of Grayville*	City of Mount Carmel*	West York CPD**
Village of West Salem	White County*	Edgar County*
Gallatin County*	Village of Maunie*	City of Chrisman*
Village of New Haven*	Village of Phillipstown	Village of Metcalf*
Lawrence County	Clark County*	City of Paris*
City of St. Francisville	City of Marshall*	Village of Vermilion*
Village of Russellville	West Union CDP**	Vermilion County*
City of Lawrenceville*		Village of Ridge Farm

\* Participating in NFIP \*\* Covered by participating Unincorporated Areas Please note that the data on this slide has been updated since the Flood Risk Review meeting



#### FEMA

ISWS is a <u>Cooperating Technical Partner</u> (CTP) with the

Federal Emergency Management Agency. (FEMA)

#### **FEMA**

The Cooperating Technical Partners (CTP) Program

#### **IDNR-OWR**

ISWS partners with The Illinois Department of Natural Resources-Office of Water Resources (IDNR-OWR). Together we prioritize Illinois floodplain studies and mapping projects.



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**Our Partners** 

#### **Your Community**

ISWS provides ongoing engagement with state and local officials and watershed stakeholders to reduce flood risk.



#### **Indiana DNR**

Indiana DNR is a <u>Cooperating Technical Partner (CTP</u>) with the <u>Federal Emergency Management Agency.</u> (FEMA)

#### **Corps of Engineers (Louisville District)**

The Corps of Engineers developed a model of the Wabash River that was built upon by Illinois DNR and ISWS. The Corps also developed the hydrology analysis for the Wabash River

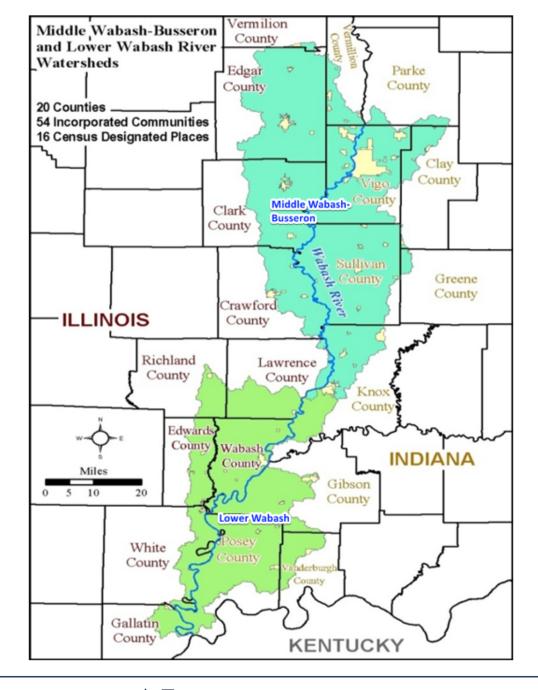
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Collaborators

Our

#### Project Goals and Objectives

Project Goals and Objectives



#### **Project Objectives**

Several project phases comprise the overall project objectives



### **Discovery Meetings and Report**

- Discovery meetings held on July 19<sup>th</sup>, 20<sup>th</sup>, and 21<sup>st</sup>, 2011 in Paris, Robinson, and Mt. Carmel, respectively.
- Action Discovery meetings held on May 6th and 13<sup>th</sup>, 2015.
- Discovery reports were published and undated in 2011 and 2016 respectively



#### Discovery Report

Middle Wabash-Busseron Watershed, HUC 05120111

Illinois Counties-Clark, Crawford, Edgar, Lawrence, Vermilion Indiana Counties- Clay, Greene, Knox, Parke, Sullivan, Vermillion, Vigo

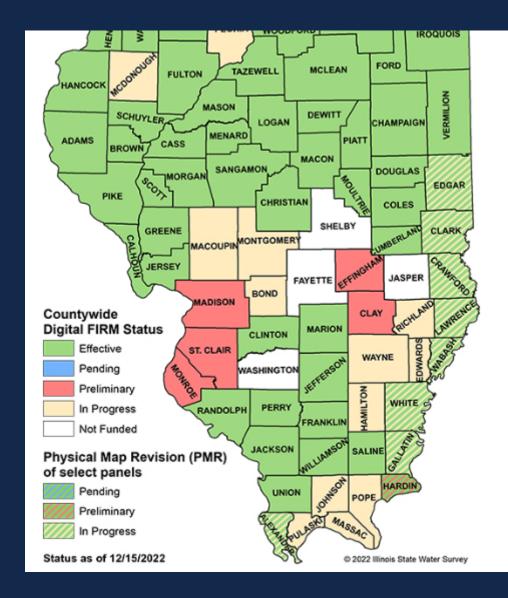
12/31/2011 Updated 04/28/2016



#### Illinois Countywide Digital FIRM Funding Status

#### 102 Counties

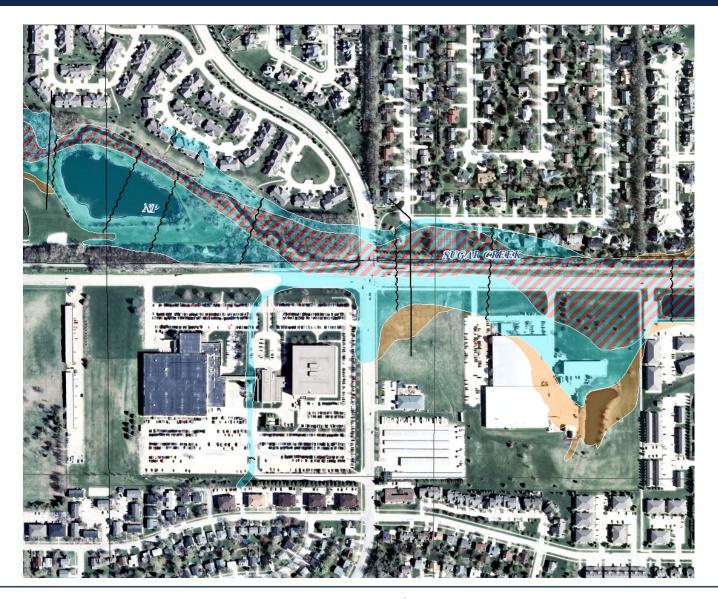
79 effective digital FIRMs √
Funded for mapping
Funded for data development



#### Wabash River WS - Effective Map & FIS Dates

	Eff Map	Eff FIS	Comments		Eff Map		Comments
<b>Community Name</b>		Date		Community Name		Eff FIS Date	
Edwards County	12/07/1984	NA		White County	02/16/2012	02/16/2012	White County
City of Albion	8/15/1975*	NA	* FHBM	Village of Maunie	02/16/2012	02/16/2012	Village of Maunie
Village of Bone	1						Village of
Gap	NA	NA		Village of Phillipstown	02/16/2012	02/16/2012	Phillipstown
Village of Browns	8/24/1984	NA		Clark County	08/02/2007	08/02/2007	
Village of West	1			City of Marshall	08/02/2007	08/02/2007	
Salem	NA	NA		West Union CDP	NA	NA	
Gallatin County	12/02/2011	12/02/2011		Crawford County	06/02/2011	06/02/2011	
Village of New			White Co-	Village of Hutsonville	06/02/2011	06/02/2011	
Haven	12/02/2011	12/02/2011	02/16/2012	City of Robinson	06/02/2011	06/02/2011	
				Clark County	08/02/2007	08/02/2007	
Lawrence County	07/18/2011	07/18/2011		City of Marshall	08/02/2007	08/02/2007	
City of St.	1			West Union CDP	NA	NA	
Francisville	07/18/2011	07/18/2011		Crawford County	06/02/2011	06/02/2011	
City of	07/40/0044	07/10/00/14		/ · · · · · · · · · · · · · · · · · · ·	06/02/2011		
Lawrenceville		07/18/2011		West York CDP	NA		
Wabash County	12/16/2011	12/16/2011			01/19/2011	01/19/2011	
Village of Allendale	12/16/2011	12/16/2011			01/19/2011		
		12/16/2011		Village of Metcalf	01/19/2011	01/19/2011	
Village of				City of Paris	01/19/2011	01/19/2011	
Keensburg	12/16/2011	12/16/2011		Village of Vermilion	01/19/2011	01/19/2011	
City of Mount				Vermilion County	05/16/2012	05/16/2012	
Carmel	12/16/2011	12/16/2011		-			
		<u> </u>		Village of Ridge Farm	05/16/2012	05/16/2011	

#### Paper Map to Digital Map



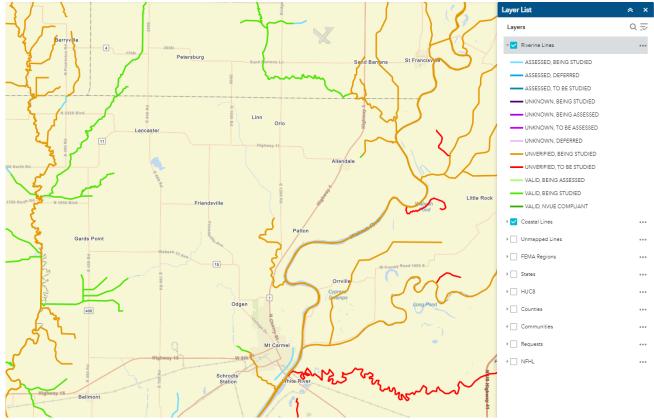
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#### Paper Map to Digital Map



# Coordinated Needs Management Strategy (CNMS)

CNMS is a FEMA database of streamlines that have been assessed to determine if mapped floodplains on the effective FIRMs are valid or unverified



**Project Scope** 

#### What is a Special Flood Hazard Area?

Riverine hydraulic analysis typically results in SFHA designation as <u>Zone A</u> or <u>Zone AE</u>, based on the analysis level deemed appropriate for the study area.

The <u>Base Flood Elevation</u> (BFE) is the elevation of surface water resulting from a flood that has a 1% chance of equaling or exceeding that level in any given year.

Zone A	Areas subject to inundation by the 1-percent-annual- chance flood event. <b>NO</b> Base Flood Elevations are shown.
Zone AE	Areas subject to inundation by the 1-percent-annual- chance flood event. Base Flood Elevations ARE shown.

#### **Vertical Datums**

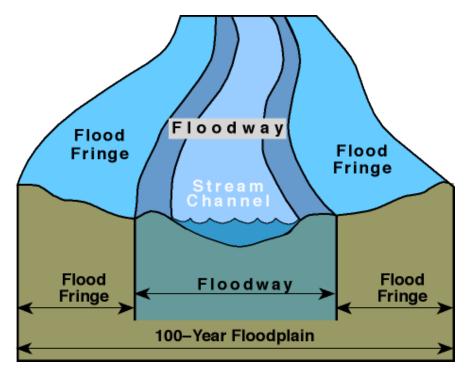
Datums are reference points from which other things are measured.

The effective FIRM maps for Clark, Crawford, Edgar, Gallatin, Lawrence, Wabash, and White Counties use elevations that reference the North American Vertical Datum of 1988 (NAVD88)

The new studies and mapping prepared for this project references the North American Vertical Datum of 1988 (NAVD88)

### Floodway

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.



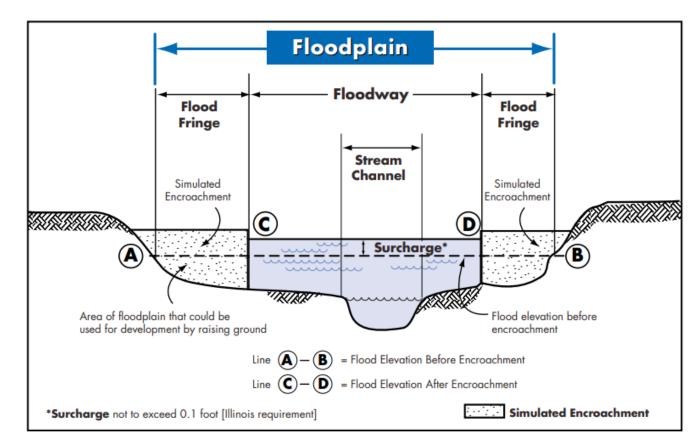




### Floodway

#### Illinois Floodways are unique:

- 0.1-foot maximum surcharge
- Max 10%
   reduction is
   storage
   volume
- Max 10% increase in flow velocity

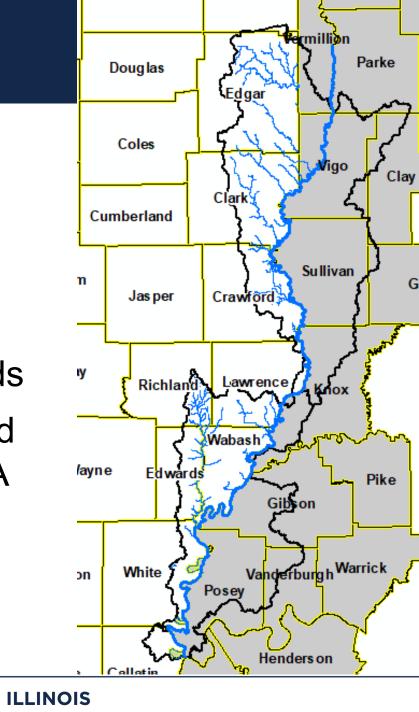


Credit: https://www2.illinois.gov/dnr/WaterResources/Documents/Resman\_ILFPMQuickGuide.pdf



### **Project Scope**

- Update the Wabash River model originally developed by the Corps of Engineers and Illinois Department of Natural Resources to meet FEMA's regulatory standards
- 2. Develop new hydrologic and hydraulic models for Zone A and Zone AE tributaries to the Wabash River that are "Unverified" in FEMA's CNMS database



### **Project Milestones**

Discovery meetings for Lower and Middle- Busseron Wabash River were held July 19, 2011, in Paris, July 20, 2011, in Robinson, and July 21, 2011, in Mt. Carmel.

Action Discovery meetings were held and May 6, 2015, in Marshall for the Middle Busseron-Wabash and May 13, 2015, in Albion for the Lower Wabash.

Series of joint coordination meetings with FEMA, Indiana & Illinois DNRs and USACE

SID 620 Proposed Engineering Study Methods Letter – August 23, 2019

Flood Risk Review Meeting (today) - Community Comment Period 30 Days

State Review and Approval

Development of Digital Flood Insurance Rate Maps (Future Project Phase)

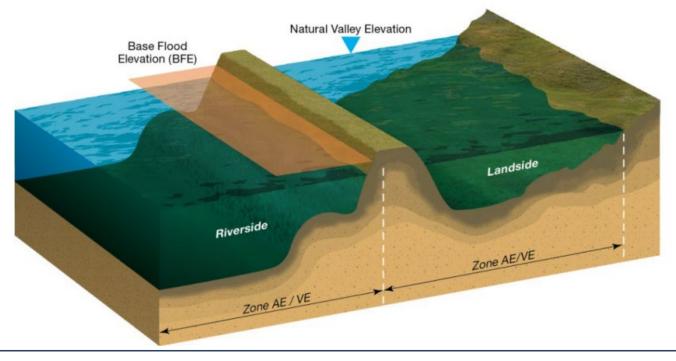
Release of Preliminary DFIRMs and Public Open House (Future Project Phase)

DFIRMs become Effective (Future Project Phase)

#### Levees

#### Levee - Definition

Per 44 CFR 59.1, a **levee** is a manmade structure, usually an earthen embankment, designed and constructed in accordance with sound engineering practices to contain, control, or divert the flow of water to reduce flood hazards posed by temporary flooding.



#### Levees - Accreditation

An **accredited levee system** is a system that FEMA has determined meets requirements of the NFIP regulations as cited in the Code of Federal Regulations (CFR) at Title 44, Chapter 1, Section 65.10 (44 CFR 65.10) and that FEMA has recognized on a FIRM as reducing the flood hazards posed by a base (1-percent-annual-chance) flood.

This determination is based on the submittal of data and documentation as required by 44 CFR 65.10. The area landward of an accredited levee system is shown as Zone X (shaded) on the FIRM except for areas of residual flooding, such as ponding areas, which are shown as SFHA.

#### Levee - Status

- Of the Illinois Levees on the Wabash River, only the Mt. Carmel Levee was previously shown on the FIRM as providing protection against the 1% annual chance base flood as a Provisionally Accredited Levee
- FEMA's Levee Analysis and Mapping Procedure (LAMP) allows communities with levees showing protection on effective FIRM the opportunity to work directly with FEMA to confirm accreditation compliance or choose from available alternates.
- LAMP was performed with Mt. Carmel through a series of meetings and analysis to determine how to map flood risk for Mt. Carmel. As a result, the Mt. Carmel Levee will no longer be shown to provide protection against the base flood.

#### Levee - Status

- All other Illinois levees in project area were not previously shown on the FIRM as providing protection against the base flood and their status will not change as a result of this project.
- FEMA wishes to inform levee owners and drainage districts about the new draft floodplain studies.
   <u>Please provide contact info for any active levee district</u> <u>or drainage district in you community/county</u>

#### Mt. Carmel Levee



Wabash River at Mt. Carmel, IL			
Gage No.: 03377500			
Flood Stage: Minor = 19'; Moderate = 25';			
	Major = 32'		
Historic Elevation			
Stages (ft.)	(NAVD88)	Date	
34.02	403	05/03/2011	
33.95	402.93	01/13/2005	
33.24	402.22	06/14/2008	
33.00	401.98	03/30/1913	
32.35	401.33	05/17/2002	
31.75	400.73	01/07/1991	
30.68	399.66	05/12/1996	
30.50	399.48	05/10/2017	
30.45	399.43	05/06/1996	
30.43	399.41	05/23/1990	

Wabash River at Vincennes, IN				
Gage No.: 03343010				
Flood Stage: Minor = 16'; Moderate = 22';				
	Major = 28'			
Historic	Historic Elevation			
Stages (ft.)	(NAVD88)	Date		
29.33	398.31	05/23/1943		
29.04	398.02	01/18/1950		
27.72	396.7	04/27/2013		
27.50	396.48	06/10/2008		
27.47	396.45	05/03/2011		
27.25	396.23	03/02/1985		
27.20	396.18	01/17/1930		
27.15	396.13	01/18/2005		
27.11	396.09	06/21/1958		
26.50	395.48	01/06/1991		

Wabash River at Riverton, IN				
	Gage No.: 03342000			
Flood Stag	Flood Stage: Minor = 15'; Moderate = 22';			
	Major = 26'			
Historic	Elevation			
Stages	(NAVD88)	Date		
29.36	398.34	05/21/1943		
27.20	396.18	04/26/2013		
26.56	395.54	06/10/2008		
26.40	395.38	03/28/1913		
26.11	395.09	01/17/2005		
25.83	394.81	06/18/1958		
25.78	394.76	05/03/2011		
25.20	394.18	01/18/1950		
24.97	393.95	01/03/2016		
24.46	393.44	03/01/1985		



#### Mt. Carmel March 1913 River Stage 33 feet (AHPS)



#### Mt. Carmel March 1937 River Stage 29 feet (AHPS)

#### **Wabash River Flood History**



#### Mt. Carmel March 2011 River Stage 34 feet (AHPS)

### **Wabash River Flood History**



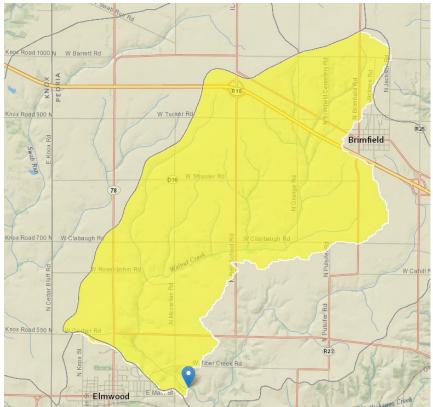
Unincorporated Westport, IL and Vincennes, IN in 2008 (Lawrence County EMA)

- 3 Hydrology methods were used for this project
- Zone A floodplain studies used the USGS Regression Equations (Soong et al., 2004) through the StreamStats batch processor
- Zone AE tributaries to the Wabash River used HEC-HMS modeling
- The Wabash River hydrology used stream gage analysis

USGS Regression Equations (Soong et al., 2004) used for Zone A studies

Regression equation for peak flows in the Middle and Lower Wabash watershed are a function of:

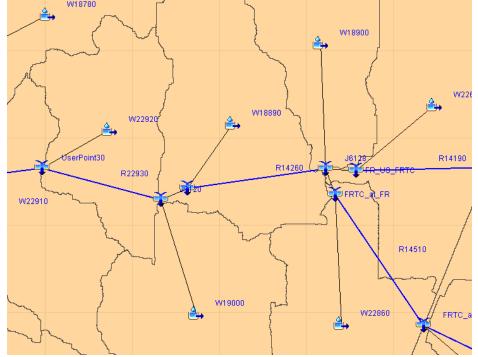
- Total Drainage Area
- Main Channel Slope
- Average Permeability
- % Open Water



#### HEC-HMS modeling used for tributary Zone AE studies

HMS model uses:

- 2011 LiDAR terrain data for subbasin delineation
- 2019 Land Use and 2018 Soils data for runoff parameters
- Bulletin 75 Rainfall Data (2020)
- Modeling developed for Mill Creek Lake, East Mill Creek Reservoir, and Lincoln Trail State Park to support Zone AE mapping



- Stream Gage Analysis was conducted by the Corps of Engineers (Louisville District) for Wabash River
  - Bulletin 17B Gage Analysis based on:
  - Gage records from 1969-2015
    - Mt. Carmel, IL Gage
    - Vincennes, IN Gage
    - Riverton, IN Gage
    - Terre Haute, IN Gage
    - Montezuma, IN Gage
  - ISWS performed supplement analysis to determine 4% and 1%+ annual chance flows



• For all studies, the 10%, 4%, 2%, 1% (base flood), 0.2%, and 1%+ peak flow frequencies were calculated

		Annual Chance Frequency Peak Flow (cfs)					
Location	Drainage Area (sq. miles)	10%	4%	2%	1%	0.20%	1%+
At Montezuma, IN							
(USGS Gage No.							
03340500)	11,118	104,300	122,300	135,100	147,400	174,800	165,000
At Terre Haute, IN							
(USGS Gage No.							
03341500)	12,263	101,500	118,400	130,200	141,400	165,600	158,200
At Riverton, IN							
(USGS Gage No.							
03342000)	13,161	100,300	115,400	125,600	135,200	155,300	150,100
At Vincennes, IN							
(USGS Gage No.							
03343010)	13,721	87,500	99,900	108,400	116,400	133,400	128,200
At Mt. Carmel, IL							
(USGS Gage No.							
03377500)	28,635	224,500	259,500	283,700	306,300	354,900	340,700

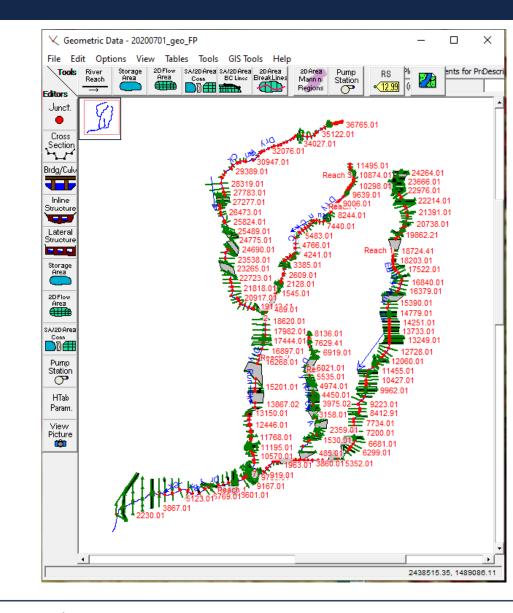
### Hydraulic Study Methods

# Hydraulics



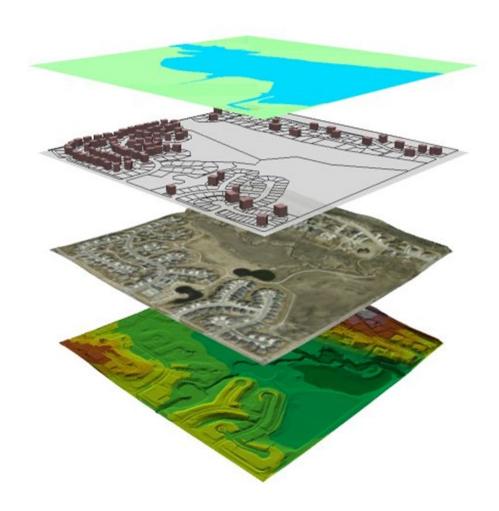
# **Hydraulics**

- Army Corps of Engineers Hydrologic Engineering Center River Analysis System (HEC-RAS)
- 1D Steady State Analysis (Modeling to all FEMA Standards, Technical References, and Guidelines



## **Hydraulic Data**

- Zone A Models
  - LiDAR elevation data
  - National Land Cover
  - Orthophotos
- Zone AE Models
  - LiDAR elevation data
  - National Land Cover
  - Orthophotos
  - As-built bridge/culvert plans
  - Field Survey for bridge/culverts and channel
  - Bathymetric data



### Hydraulics – Wabash River

- The Wabash River HEC-RAS model was originally developed by the Corps of Engineers (Louisville District) and by the Illinois DNR.
  - This model was calibrated to flood events from 2005, 2011, 2013, and 2015
- In 2018 ISWS obtained the Wabash River model from Illinois DNR to add the 4%, 1%+, and 0.2% flood frequencies to the model
- ISWS also developed scenarios to model the effect of hydraulically significant levees
- ISWS also developed a floodway encroachment analysis to meet both Illinois and Indiana floodway requirements.

#### Hydraulics – Wabash River

Lawrenceville-Vincennes Airport

2008 Flood



Illinois State Water Survey

### Hydraulics – Wabash River

- Hydraulically significant levees affect the base flood
- Riverside floodplain mapping assumes significant levees contain all river flow on riverside
- Landside floodplain mapping removes hydraulically significant levees from modeling resulting in lower base flood elevation (Natural Valley Analysis)
- Illinois Levees that received Natural Valley mapping:
  - Rochester-McCleary's Bluff Levee, Mt. Carmel Levee, England Pond Levee, and Russel-Allison-Ambraw Levee System

# Hydraulics – Wabash River Tributaries

- ISWS developed hydraulic models for many of the tributary streams to the Wabash River
- Mill Creek (Hutsonville), Mill Creek Tributary, Lamotte Creek Tributary A (Palestine), and Greathouse Creek (Mt. Carmel) are Zone AE streams that were restudied as new Zone AEs
- Hutson Creek (Hutsonville), Sugar Creek (Palestine), and Lamotte Creek (Palestine) are Zone AE stream that are listed as "Valid" in CNMS and therefore were not restudied.
- All Zone A stream were modeled

#### Hydraulics: Results

- The Wabash River 1% annual chance BFEs increases and decreased compared to effective map
  - Maximum increase approximately 3.5 feet near river mile 161 (~4 mile upstream of Route 154/Hutsonville Bridge)
  - Maximum decrease approximately 5.2 feet near river mile 38 (Illinois Route 14)

#### Hydraulics: Results

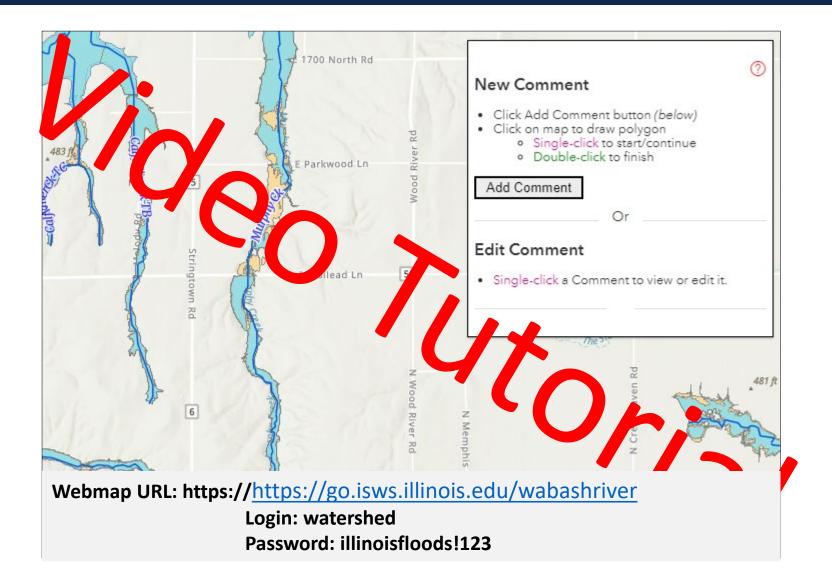
- Mill Creek 1% annual chance BFEs decreased compared to effective map (except for Wabash Backwater)
  - Maximum decrease approximately 2.0 feet just downstream of 1800<sup>th</sup> Avenue
- Mill Creek Tributary 1% annual chance BFEs increased compared to effective map.
  - Maximum increase approximately 0.4 feet about 1,300 feet upstream of confluence with Mill Creek

#### Hydraulics: Results

- Greathouse Creek 1% annual chance BFEs increased compared to effective map
  - Maximum increase approximately 1.6 feet just downstream of 9<sup>th</sup> Street

### Webmap Results

#### Webmap Comment Feature



### **Communication and Next Steps**

# **Communication Plan**

Discovery Meetings- July 2011 held in Paris, Robinson and Mt. Carmel

Action Discovery Meetings- held May 2015 in Marshall and Albion

Proposed Engineering Methods Notification (FEMA SID 620) letterdated August 23, 2019

Flood Risk Review Meeting (today); 30-Day Comment Period starts today

Data Submission Notification (FEMA SID621) Letter; 30- day comment period

#### Data Submission Notification Letter FEMA SID 621

Mailed to community CEO's

Informs the communities that the data collection and analysis (Data Development) phase of the project is concluding, and the FIRM database is being validated by FEMA

Gives Communities 30 days to comment on the data in the FIRM database30-Day Comment Period starts today

## Schedule

Flood Risk Review Meeting (today)

Submit Flood Studies to IDNR for State review Spring 2023

Complete draft FIRM database to conclude data development phase of project by Summer 2023

Digital Flood Insurance Rate Map Project to follow pending conclusion of data development

#### **Risk Communication and Mitigation Actions**

#### Hazard Mitigation- Declarations 2005-2022

fema.gov/disaster

Declaration	Date of Declaration	Disaster Description/Counties	Type of Assistance
DR-4489-IL	March 26, 2020	COVID-19 Pandemic All counties	PA
EM-3435-IL	March13, 2020	COVID-19 All counties	РА
DR-4157-IL	November 26, 2013	Sever Storm, Straight-line Winds & Flooding Wabash, Vermilion	IA
DR-1991-IL	June 7, 2011	Severe Storms & Flooding Lawrence, Wabash, White, Gallatin	IA & PA
DR-1960-IL	March 17, 2011	Sever Winter Storm & Snowstorm Edgar, Clark, Crawford	PA
DR-1850-IL	July 2, 2009	Sever Storm, Flooding & Tornadoes Gallatin	РА
DR-1826-IL	March 2, 2009	Severe Winter Storm Gallatin	РА
DR-1771-IL	June 24, 2008	Severe Storms & Flooding Edgar, Clark, Crawford, Lawrence	IA & PA
EM-3230-IL	September 7, 2005	Hurricane Katrina Evacuation	PA

County CIS data 3/10/23023	Community	Property Damage Claims Since 1978, \$	No. Claims	No. Rep Loss
Edwards	Albion	0	1	NA
Edwards	Grayville	0	0	0
Gallatin	Gallatin Co	580,544	23	8 (30 buyout structures)
Gallatin	New Haven	220,128	11	0 (3 buyout structures )
Lawrence	Lawrence Co	17,133	3	0
Lawrence	St. Francisville	NA	0	0
Lawrence	Lawrenceville	129,757	13	6
Wabash	Mt. Carmel	30,378	10	6
White	Carmi	349,071	48	16
White	Crossville	19,317	2	0
White	Maunie	27,450	2	0
White	White Co	776,207	24	5
Clark	Clark Co	208,531	18	11
Crawford	Crawford Co	118,819	9	6
Crawford	Hutsonville	401,449	14	8
Crawford	Palestine	19,395	6	2
Crawford	Robinson	17,353	3	1
Edgar	Chrisman	3,152	1	NA
Edgar	Paris	5,135	2	0

#### **Risk Communication and Mitigation Actions**





https://www.fema.gov/

https://www.floodsmart.gov/

#### Floodsmart.gov

- Community Resources
  - Flood Maps
  - Cost of Flooding
  - What is Covered?
  - How to Reduce Your Costs
  - Tools

#### FEMA.gov

- National Flood Insurance Program (NFIP)
- Hazard Mitigation Planning
  - Mitigation Best Practices
  - Mitigation Planning and Grants
  - Regulations and Guidance

#### **Community Participation**

# **Community Impact**

#### Why a New Floodplain Map Can Affect a Community:

Can affect which residents are required to carry flood insurance

Depicts areas of communities which are subject to <u>floodplain</u> <u>management regulations</u>

Can affect community <u>planning</u> and <u>flood mitigation</u>

### **Community Participation**

Now is the time to review the draft floodplain mapping for your community

Who is affected?

Is the mapping reasonable and/or consistent with your community's experience with flooding?

Make comments if something does not look right or make sense.

Provide data or information if it could support a change in the draft mapping

Provide contacts of Levee Owners

	NOIS
	ate Water Survey
FLOOD MARCH 1	RISK REVIEW MEETING -WABASH RIVER WATERSHED, ILLINOIS 7, 2023
POST-M	EETING SURVEY
ι. After th	is meeting how much more do you know about your community's flood risk?
$\bigcirc$	a lot
$\bigcirc$	some
$\bigcirc$	not much
$\bigcirc$	a lot
	is meeting how much do you know about FEMA Risk Mapping, Assessment and g (Risk MAP) process?
$\overline{\circ}$	some
$\overline{\circ}$	not much
0	
	meeting provided new information and resources to help communicate flood risk community?
$\circ$	yes
$\bigcirc$	no
4. Has this	meeting helped you know where to go to get flood mitigation help?
$\circ$	yes
$\circ$	no
$\bigcirc$	no



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# Questions?