

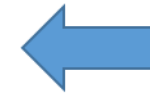
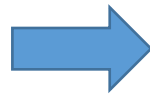


**ILLINOIS**

Illinois State Water Survey

**PRAIRIE RESEARCH INSTITUTE**

# Cooperating Technical Partners



# FEMA Risk Mapping, Assessment and Planning (Risk MAP) program

- The Discovery Process
- Mapping and Data
- Preliminary FIRM Issuance
- Risk Assessment
- Effective FIRM and FIS Report Issuance
- Planning for Mitigation Action



# Current Projects

- Peoria Countywide DFIRM (ISWS13-05)
- Forked Creek, Kankakee County PMR (ISWS13-11)
- Will Countywide DFIRM (ISWS15-06)
- Turtle Creek, South Beloit (ISWS15-04)
- Spring Creek, Cook County (ISWS15-05)
- Poplar Creek, Cook County (ISWS15-05)
- Nippersink Creek (IDNR-ISWS15-01)

# Current Projects

- Poplar Creek Risk Assessment (IDNR-ISWS15-03)
- DuPage Countywide DFIRM (ISWS16-02)
- Mill and Tinley Creeks, Cook County PMR (ISWS16-03)
- Ford County Data Development (ISWS16-04)
- Warren County Data Development (ISWS16-05)
- Kishwaukee Watershed Discovery (ISWS17-02)
- Little Wabash Watershed Data Development (ISWS17-03)
- Effingham Countu Data Development (ISWS17-03)

# Current Projects

- Clay County Data Development (ISWS17-03)
- Glen Flora, Bull Creek, Dead Dog, Mill Creeks – Lake County PMR (ISWS17-04)
- Lower Rock River Watershed Data Development (ISWS17-09)
- Kankakee County PMR (ISWS17-10)

# The Discovery Process

In Discovery, FEMA, state, and local leaders collect current and historic-flood related data including:



Hydrology



Infrastructure



Hydraulics



Land use



Existing maps such as:

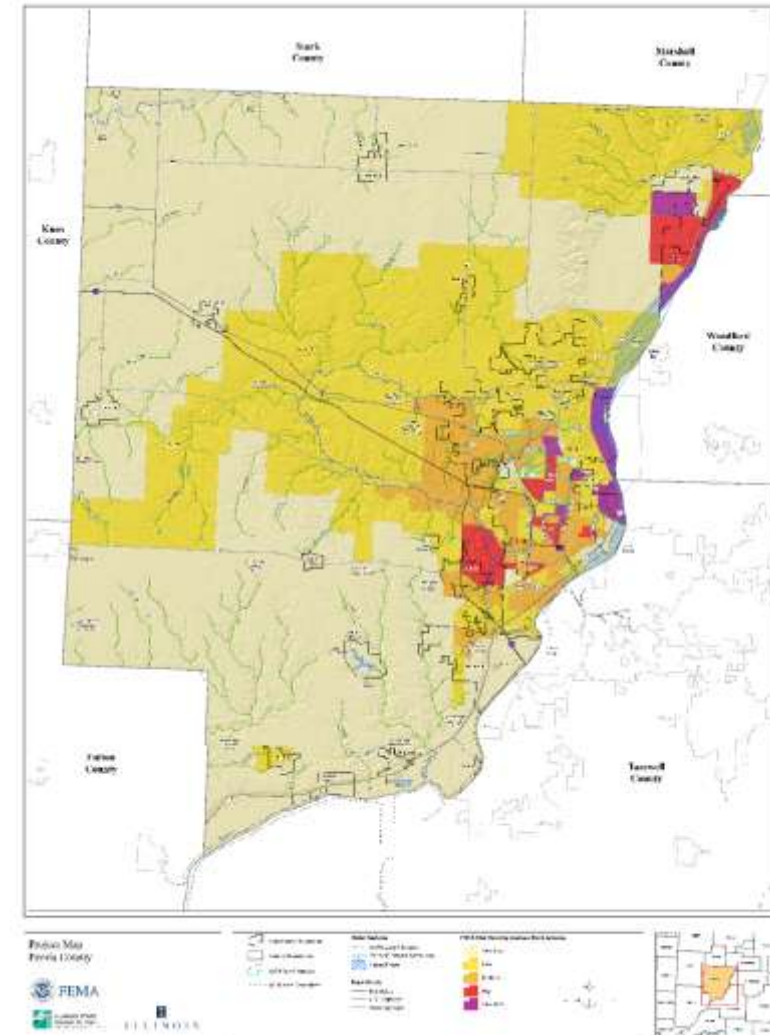
# The Discovery Process

- **Kishwaukee HUC8 Discovery**  
(ISWS17-02)
- 505 miles of Large Scale Automated Engineering
- Projected Completion Date:  
June 2019



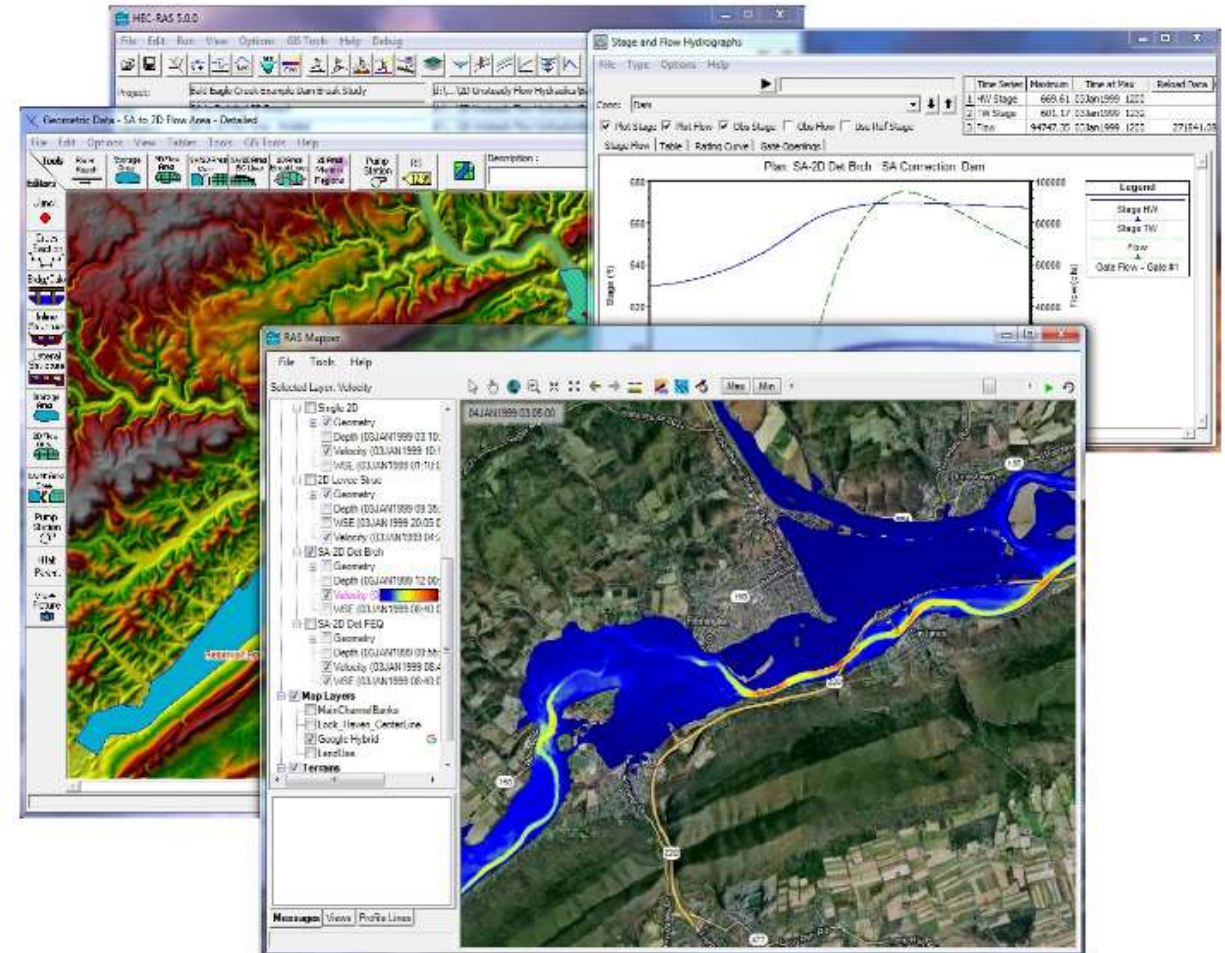
# The Discovery Process

- **Peoria County re-Discovery**  
(ISWS17-02)
- Projected Completion Date:  
Spring 2019



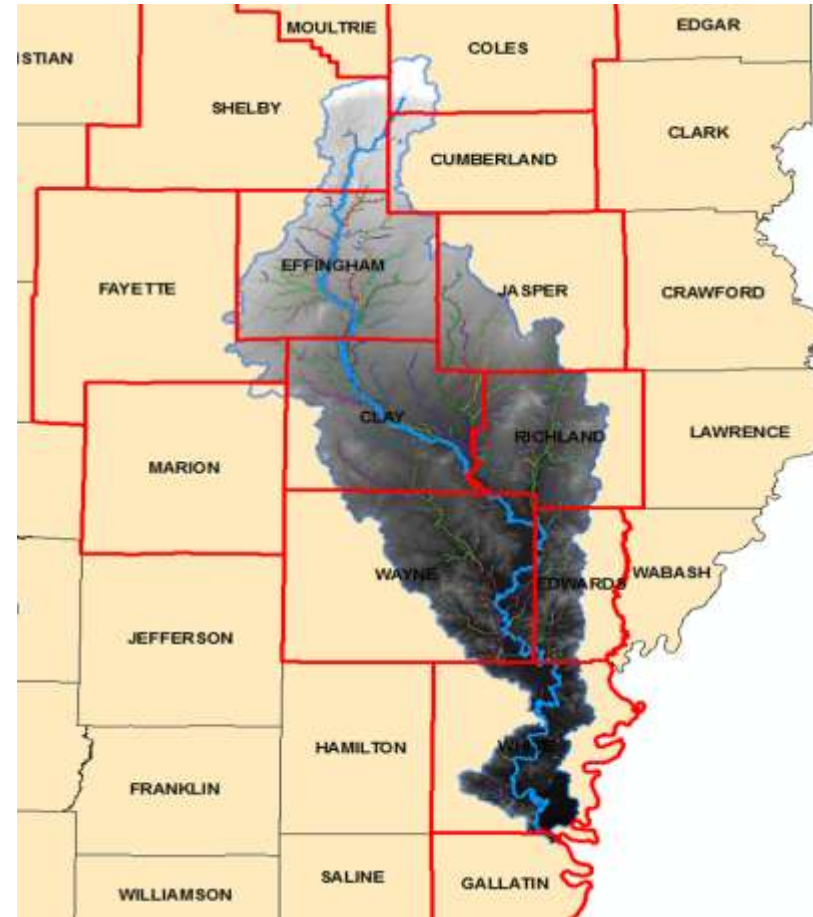
# Mapping And Data

- Data and Product Development
  - Hydrology & Hydraulic Models
  - Workmaps
- Flood Risk Review Meeting



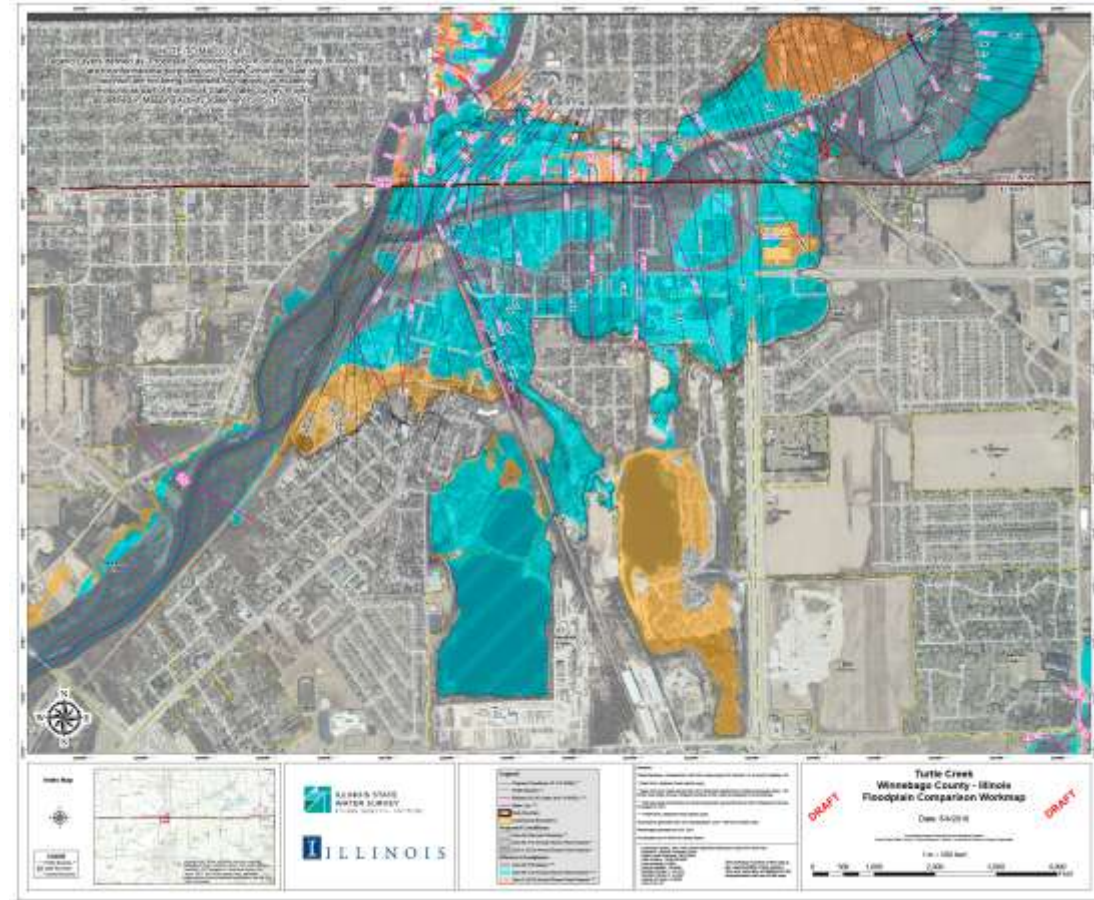
# Mapping And Data

- **Little Wabash Watershed**  
(ISWS17-03)
- 77 miles of Zone AE
- 175 miles of Enhanced Zone A
- 929 miles of Zone A
- Projected Completion Date:  
August 2020



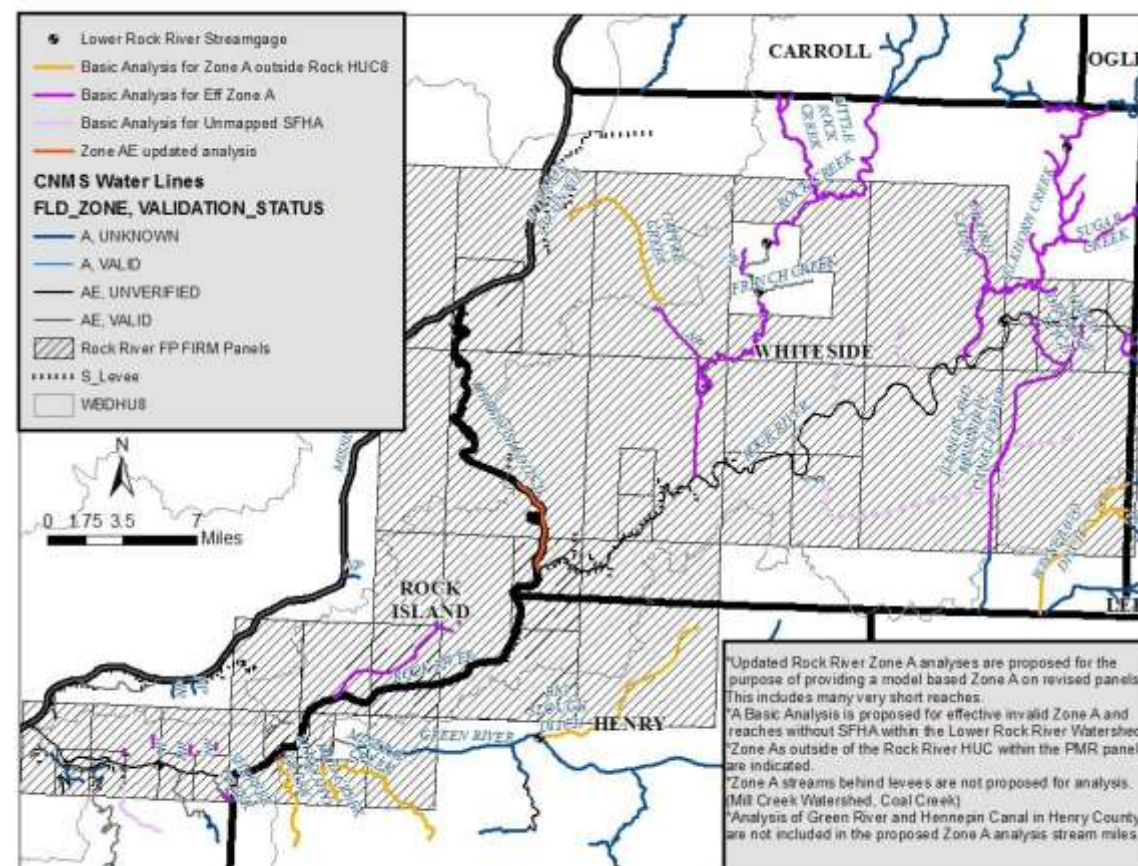
# Mapping And Data

- **Turtle Creek (ISWS17-05)**
- South Beloit
- 1 mile of Zone AE
- Projected Completion Date:  
July 2019



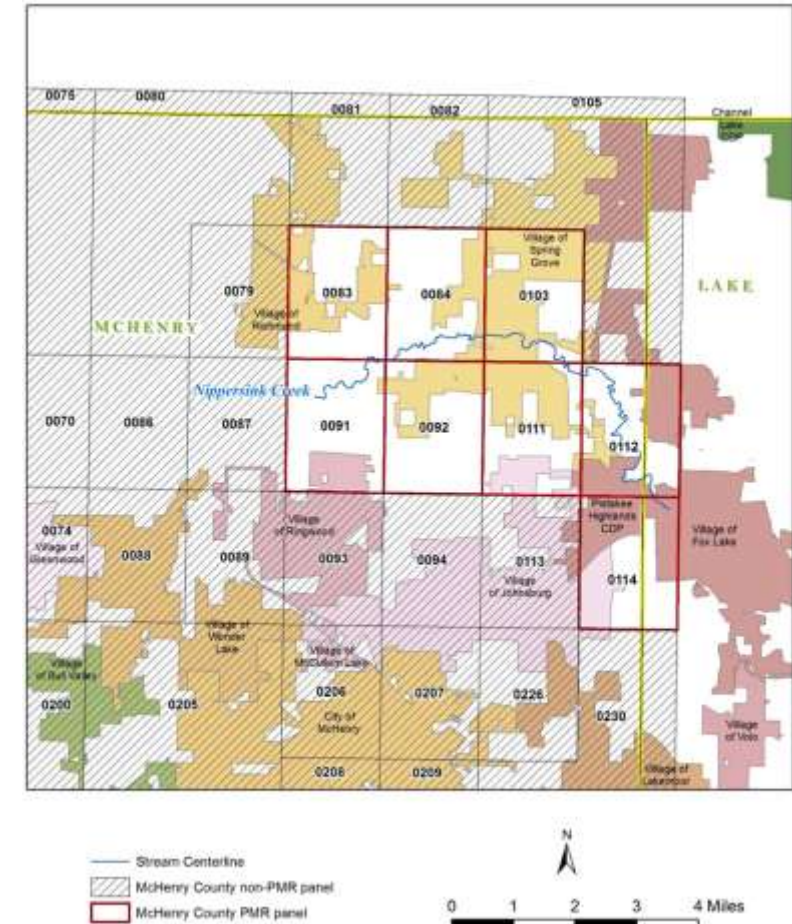
# Mapping And Data

- **Rock River and Tributaries**  
(ISWS17-06)
- 5 miles of Zone AE
- 78 miles Floodway
- 192 miles Zone A
- Projected Completion Date:  
August 2020



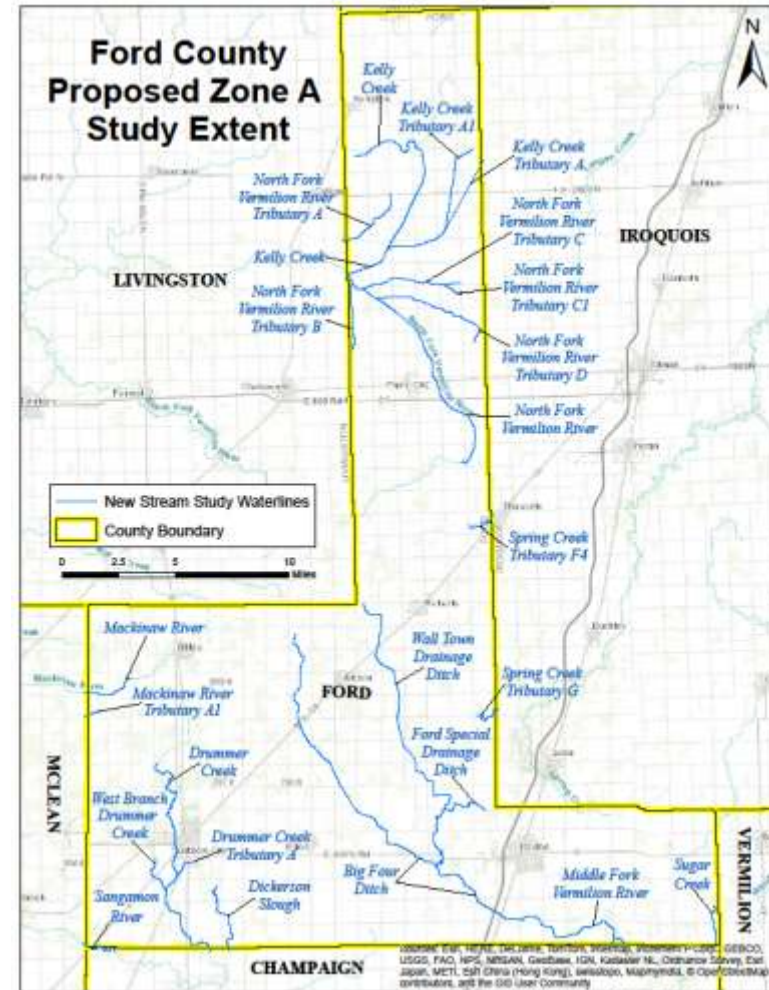
# Mapping And Data

- **Nippersink Creek** (IDNR-ISWS15-01)
- 10 miles of Zone AE
- Projected Completion Date: August 2018



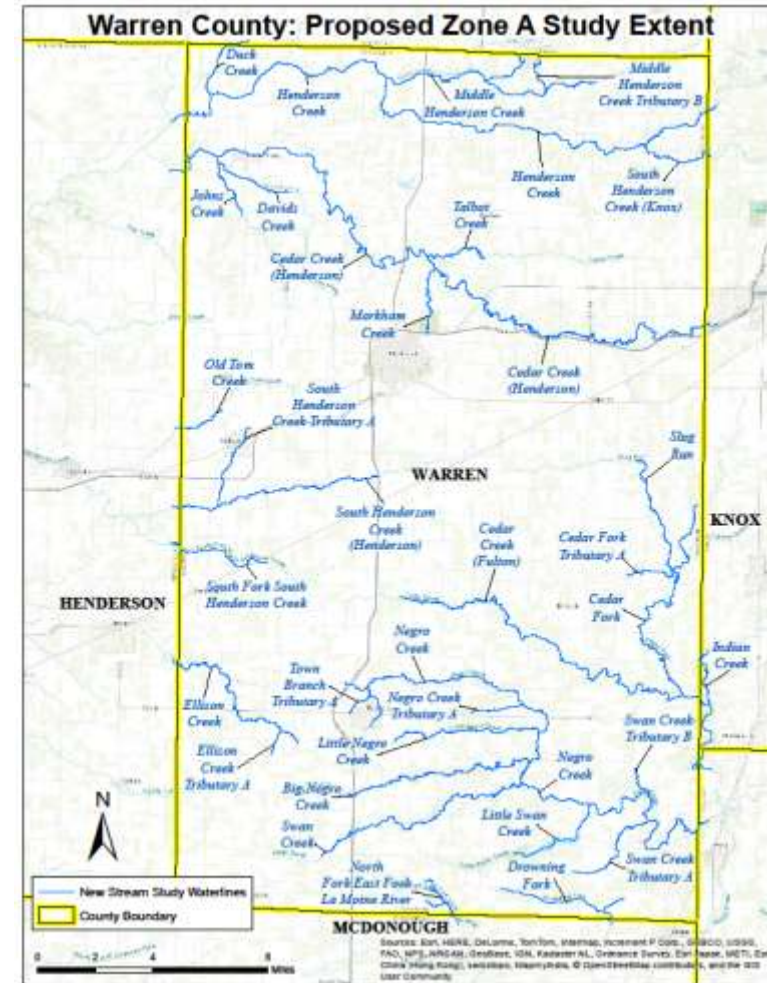
# Mapping And Data

- **Ford County** (ISWS16-04)
- 117 miles of Zone A
- Projected Completion Date:  
Spring 2018



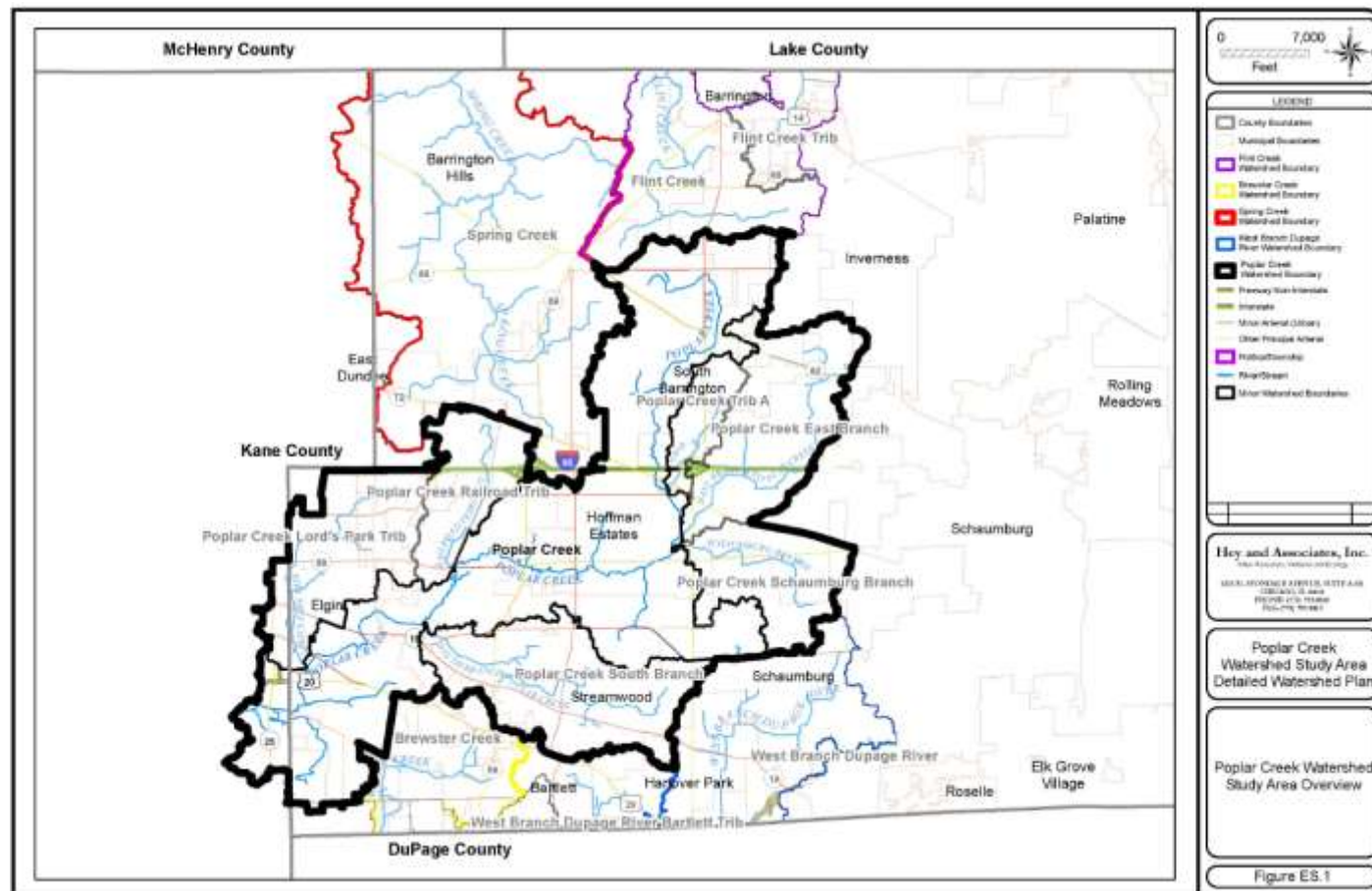
# Mapping And Data

- **Warren County** (ISWS16-05)
- 225 miles of Zone A
- 2.6 miles of Zone AE (redelineated)
- Projected Completion Date: Spring 2018

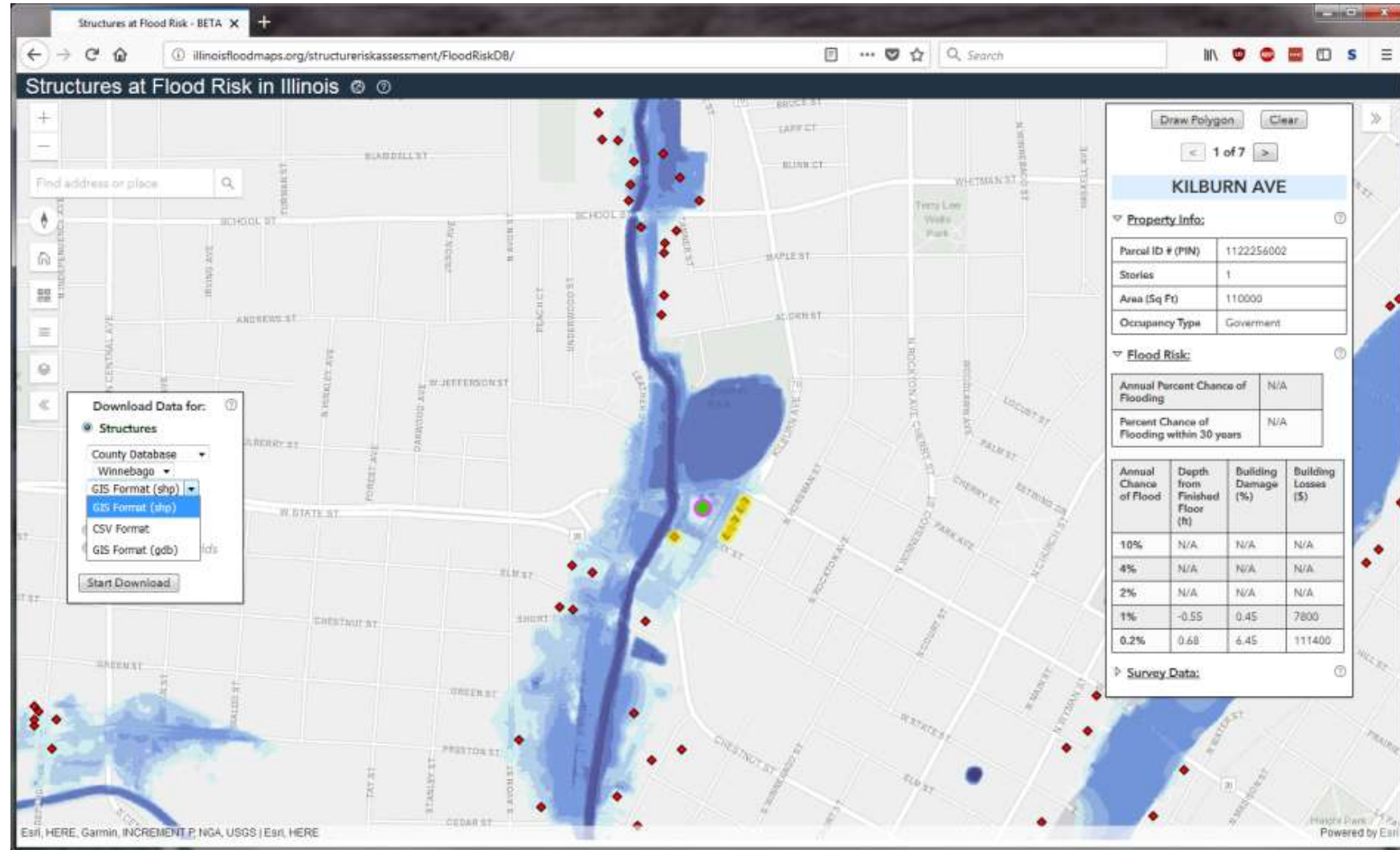


# Mapping And Data

- **Poplar Creek (ISWS15-05)**
- 40.7 miles Zone AE
- **Spring Creek (ISWS15-05)**
- 17.6 miles Zone AE
- Projected Completion Date: Summer 2018



# Risk Assessment

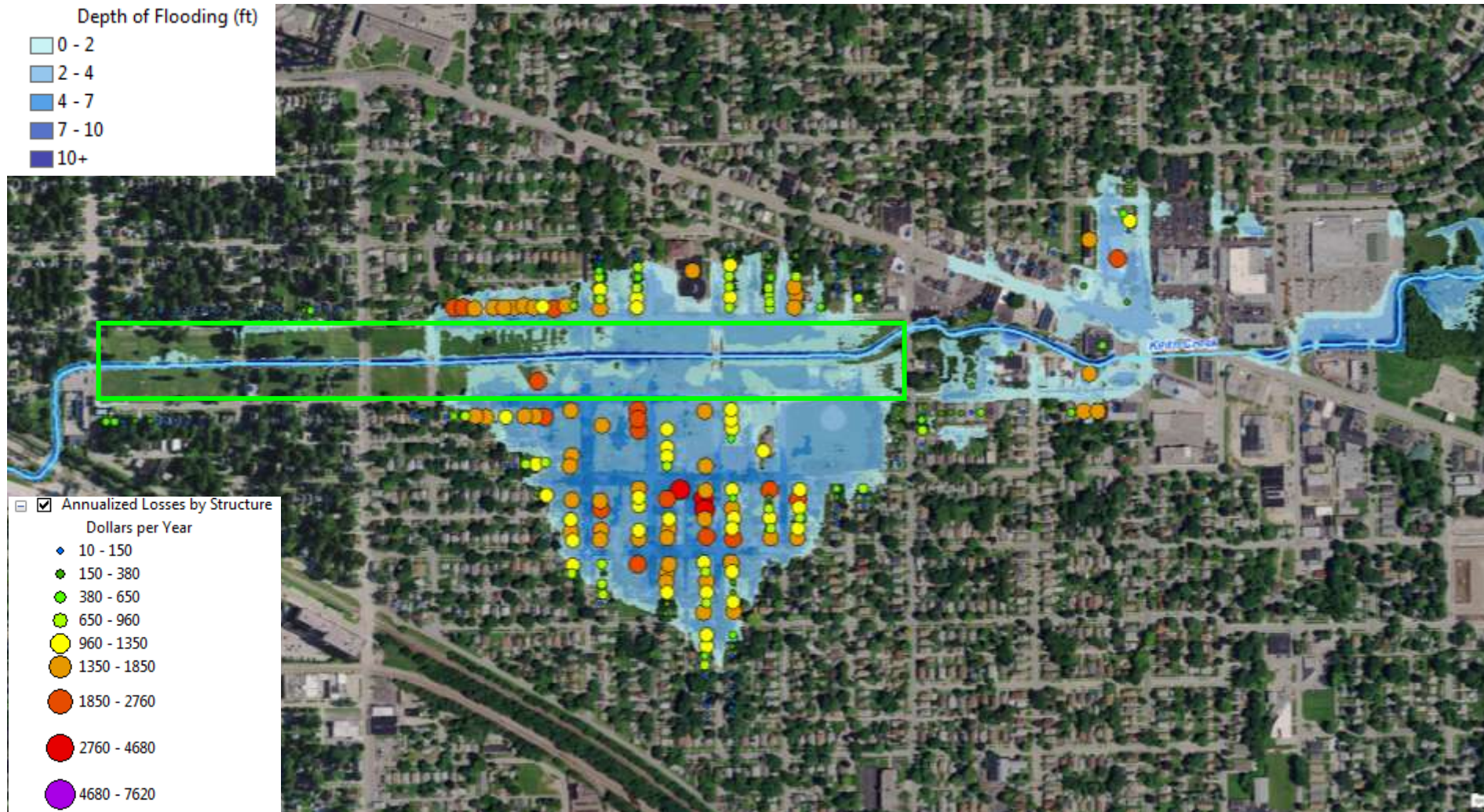


# Risk Assessment

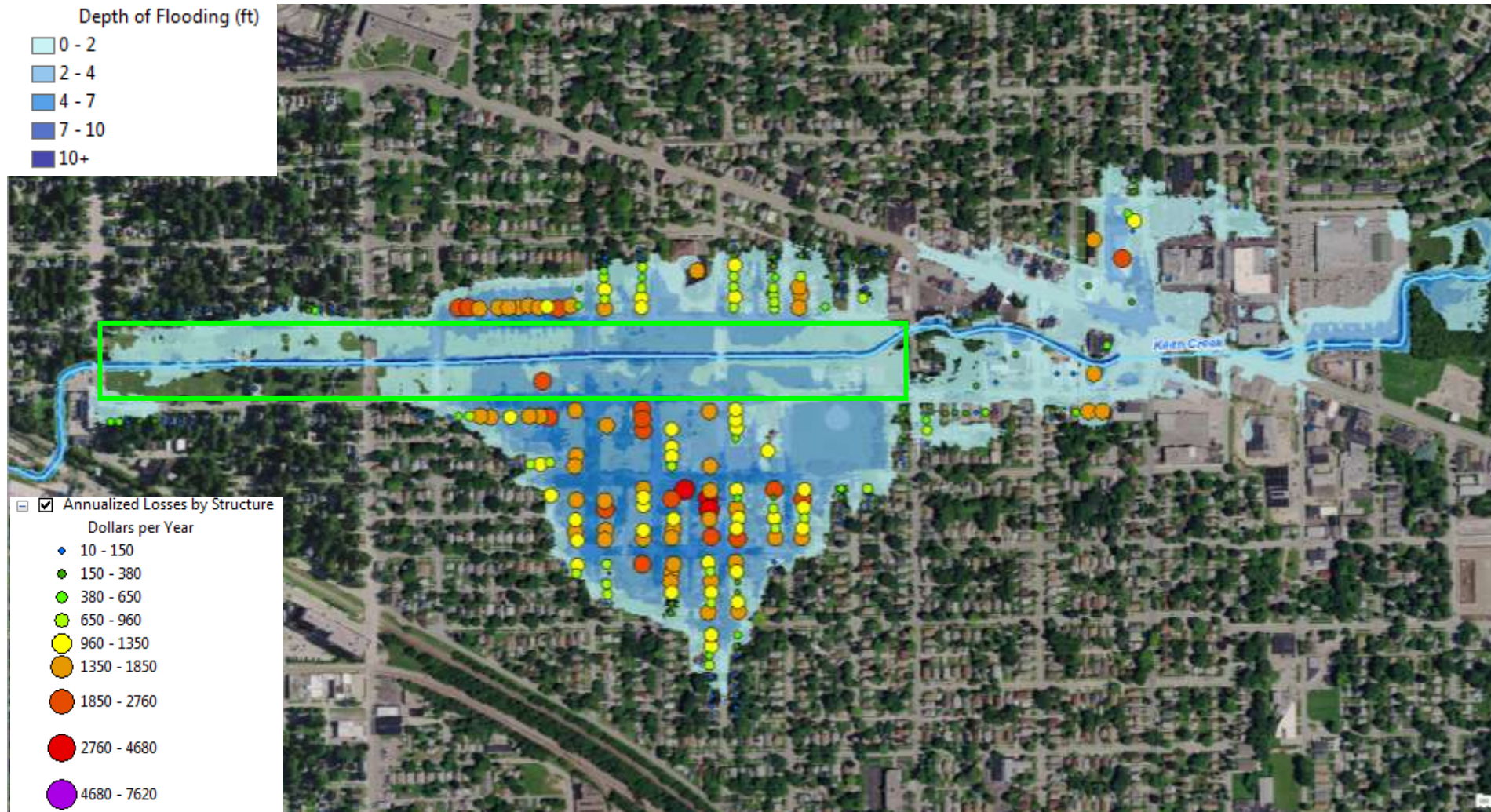
- **Poplar Creek (IDNR-ISWS15-03)**
- Community Engagement and Risk Communication (CERC) activity
- portions of Elgin, Hoffman Estates, Schaumburg, South Barrington, Streamwood, and Unincorporated Cook County communities
- 500 floodprone structures



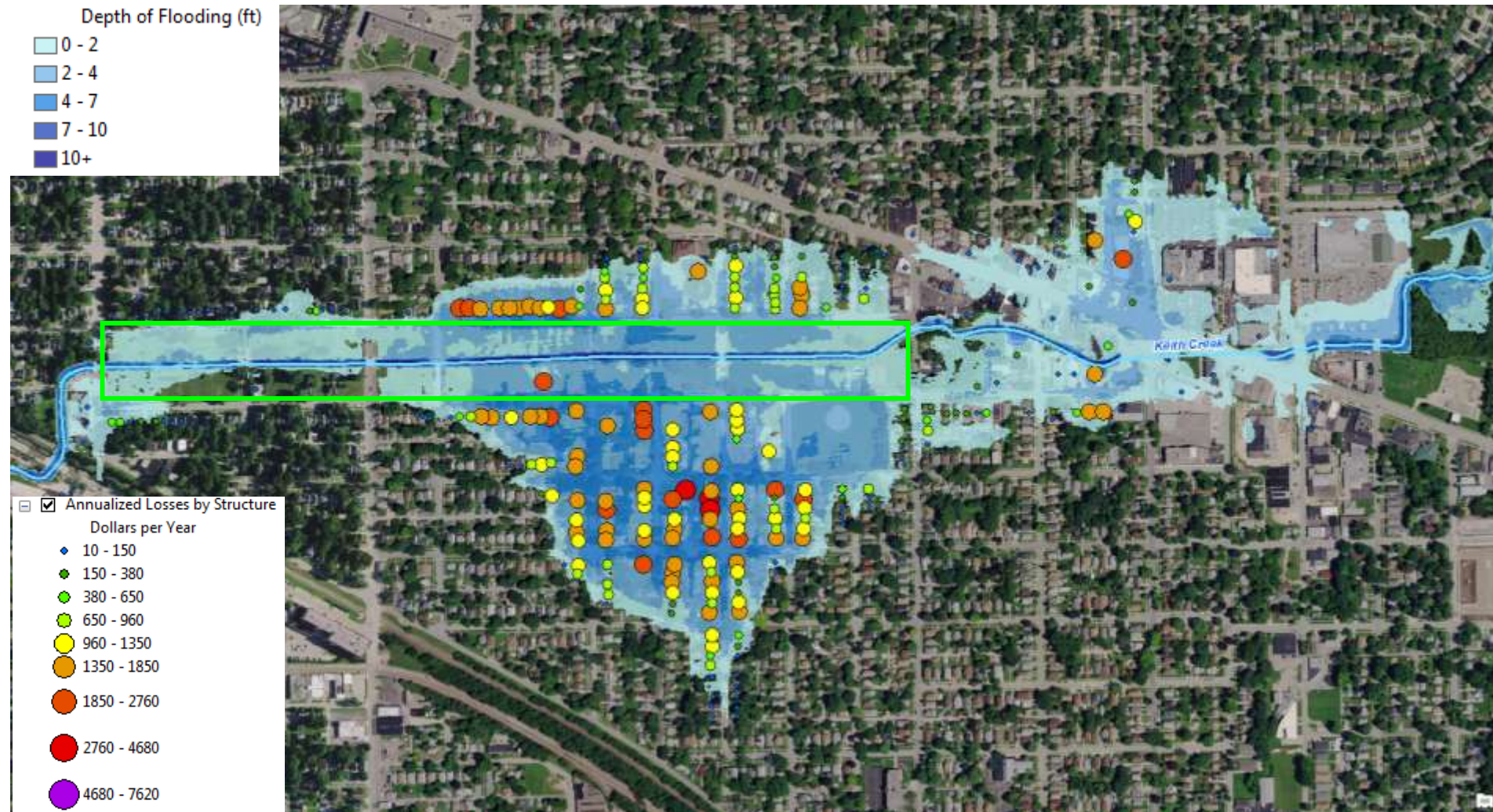
# 10% Annual Chance Depth Grid



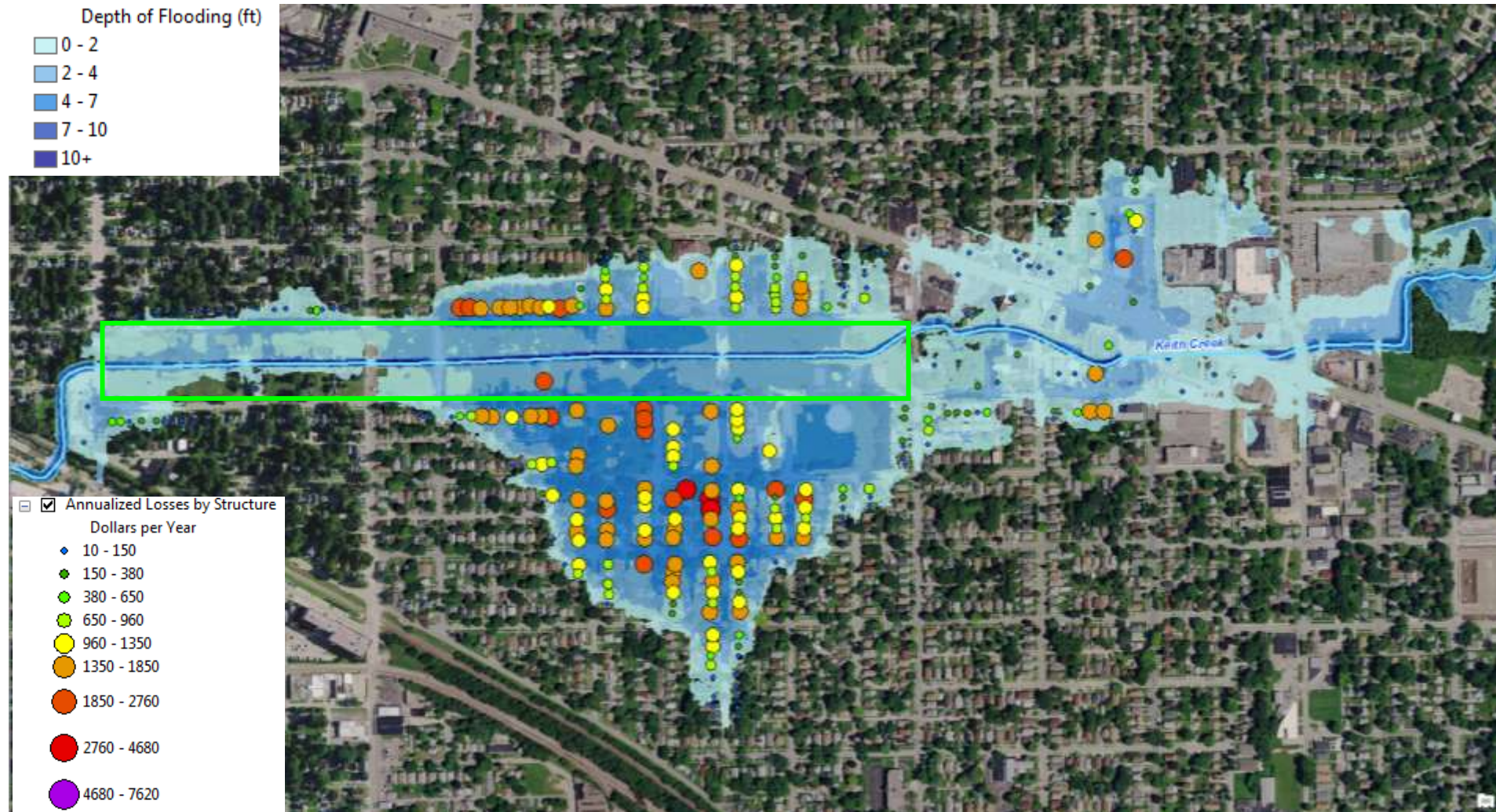
# 4% Annual Chance Depth Grid



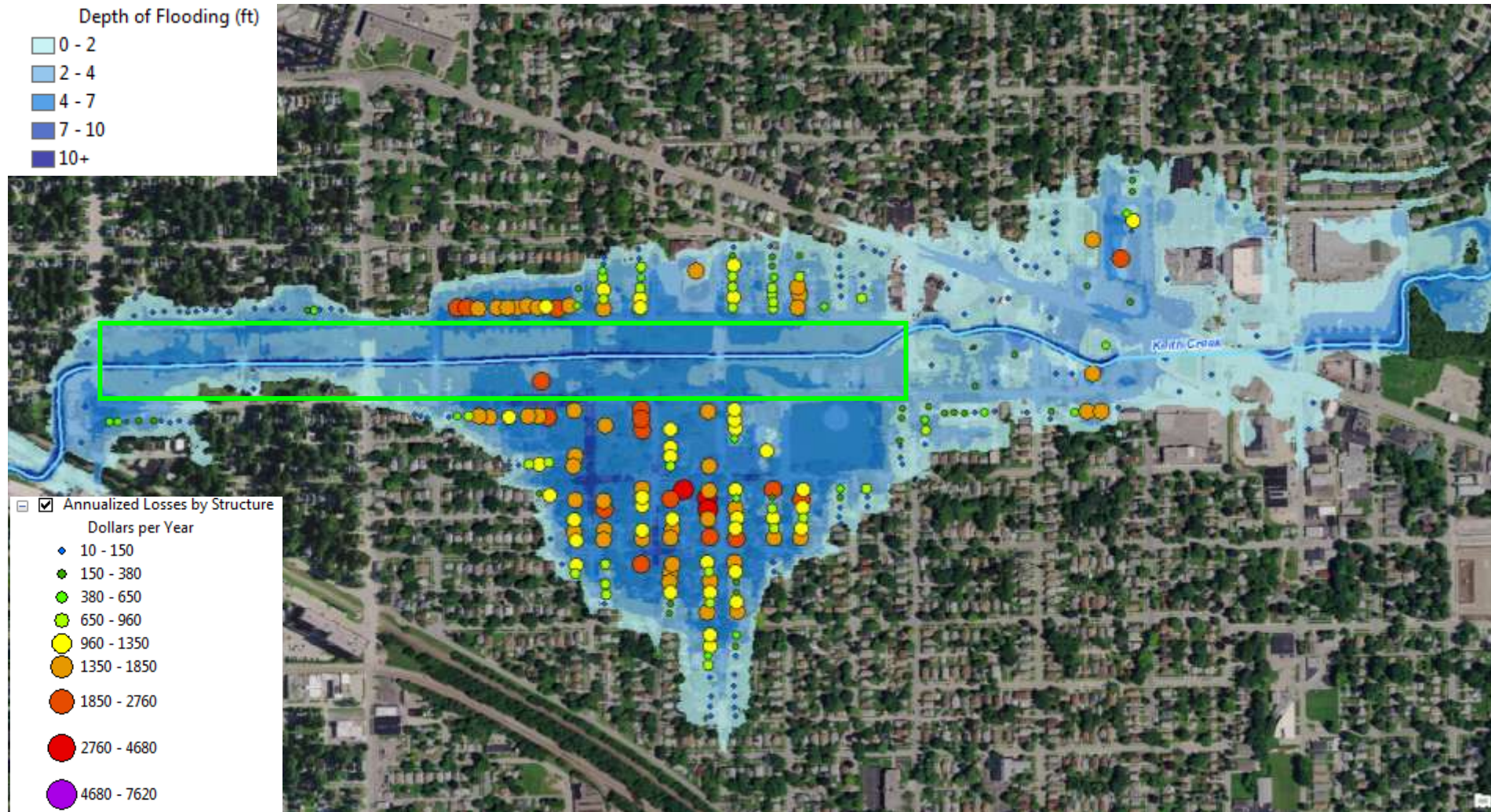
# 2% Annual Chance Depth Grid



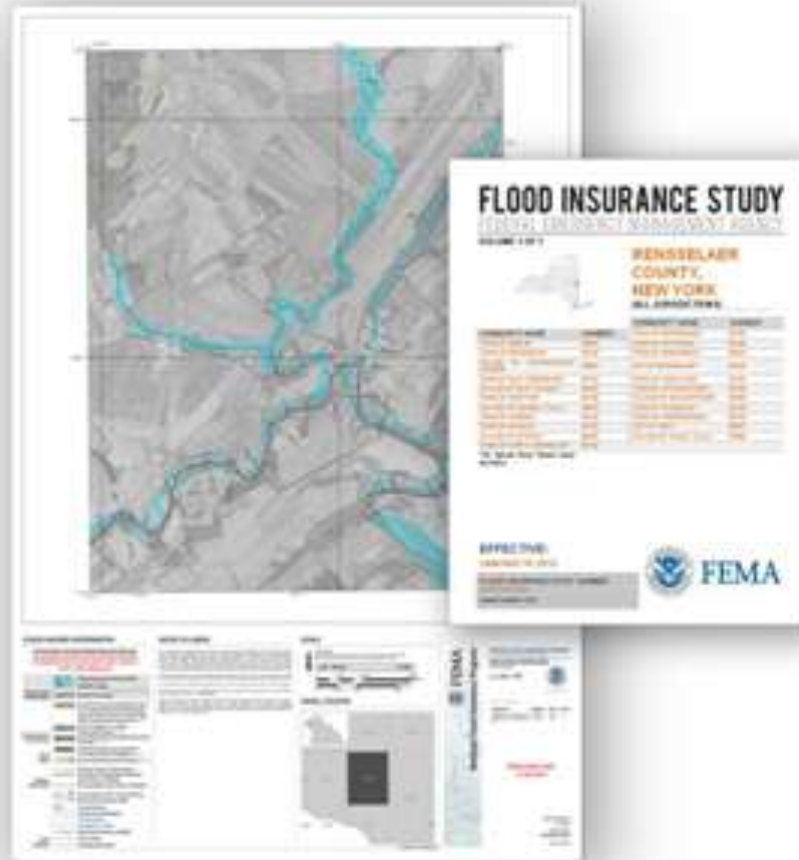
# 1% Annual Chance Depth Grid



# 0.2% Annual Chance Depth Grid



# Prelim/Final FIRM Issuance



# Bull Creek, Glen Flora, Dead Dog, Mill Creek Lake County PMR Project Timeline

- Preliminary products for the 4 studies currently included in the PMR ready for FEMA review August 2018
- FEMA decision **to include or not to include** Lake Michigan Coastal Study panels in this PMR September 2018
- If yes, Preliminary products will not be released until the coastal data is incorporated Date TBD
- If no, Preliminary products will be released approximately October/November 2018

# Will Countywide FIRM Project Timeline

- Revised Preliminary Maps Released February 1, 2017
  - CCO Meeting / Public Open House April 27, 2017
  - 30 Day Comment Period April 27, 2017 – May 26, 2017
  - 90 Day Appeal Period December 12, 2017– March 15, 2018
- 
- Resolve Comments & Appeals Estimated Spring 2018
  - Finalize Map Panels & FIS Report Estimated Summer 2018
  - FEMA issues Letter of Final Determination Estimated August 2018
  - Maps Effective Estimated February 2019

# Forked Creek Watershed PMR Project Timeline

## Kankakee County

- Preliminary Maps Released February 1, 2017
  - CCO Meeting / Public Open House April 12, 2017
  - 30 Day Comment Period April 12, 2017 – May 11, 2017
  - 90 Day Appeal Period December 12, 2017– March 13, 2018
- 
- Resolve Comments & Appeals Estimated Spring 2018
  - Finalize Map Panels & FIS Report Estimated Summer 2018
  - FEMA issues Letter of Final Determination Estimated August 2018
  - Maps Effective Estimated February 2019

# DuPage Countywide FIRM Project Timeline

- Revised Preliminary Maps Released June 1, 2017
  - CCO Meeting / Public Open House July 27, 2017
  - 30 Day Comment Period July 27, 2017 – August 25, 2017
  - 90 Day Appeal Period February 28, 2018 – May 31, 2018
- 
- Resolve Comments & Appeals Estimated Summer 2018
  - Finalize Map Panels & FIS Report Estimated Fall 2018
  - FEMA issues Letter of Final Determination Estimated December 2018
  - Maps Effective Estimated June 2019

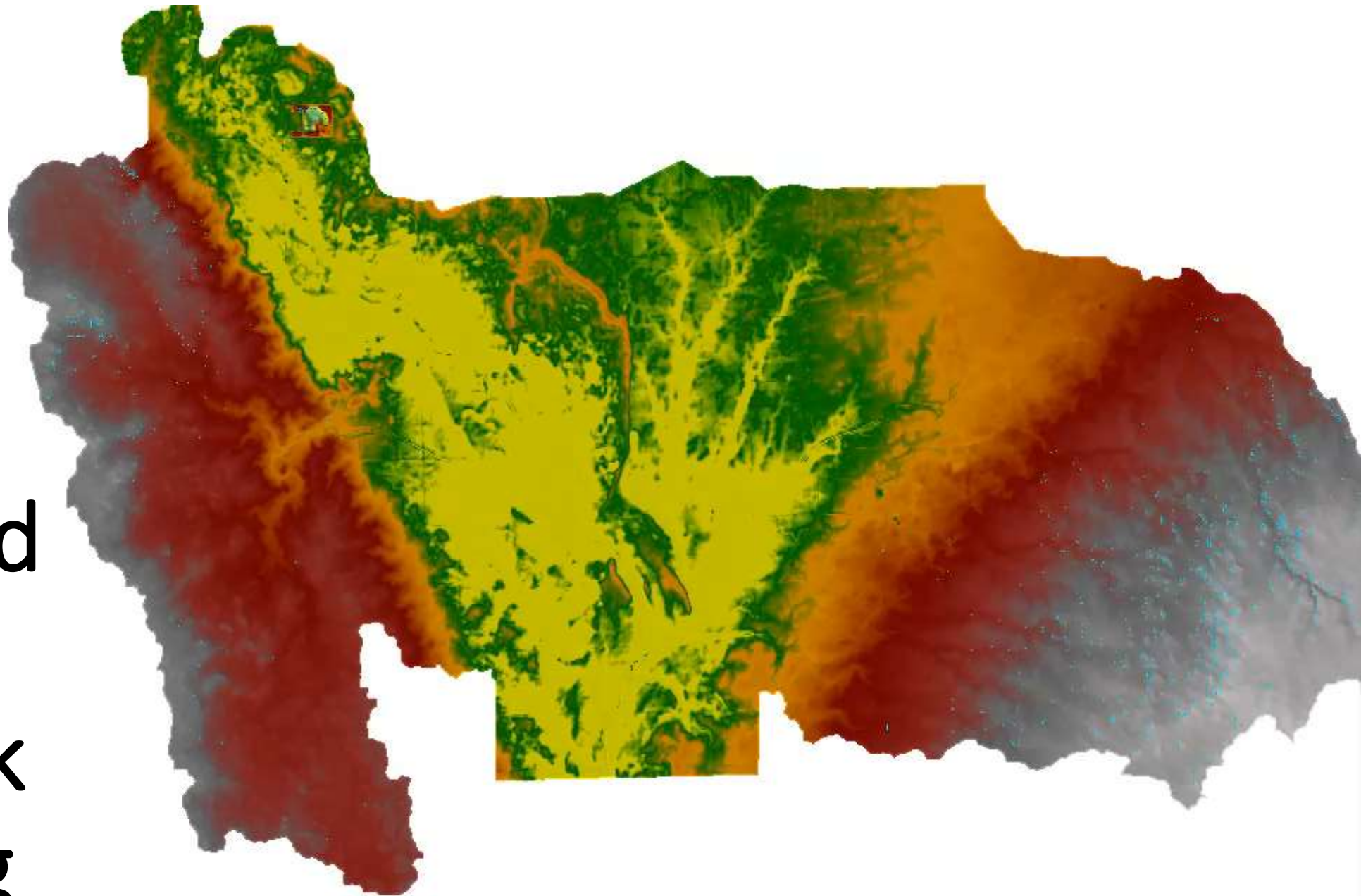
# Mill and Tinley Creek Watersheds PMR Timeline Cook County

- Preliminary Maps Released October 12, 2017
  - CCO Meeting / Public Open House January 23, 2018
  - 30 Day Comment Period January 23, 2018 – February 21, 2018
  - 90 Day Appeal Period Estimated July – September 2018
- 
- Resolve Comments & Appeals Estimated October 2018
  - Finalize Map Panels & FIS Report Estimated October 2018
  - FEMA issues Letter of Final Determination Estimated January 2019
  - Maps Effective Estimated June 2019

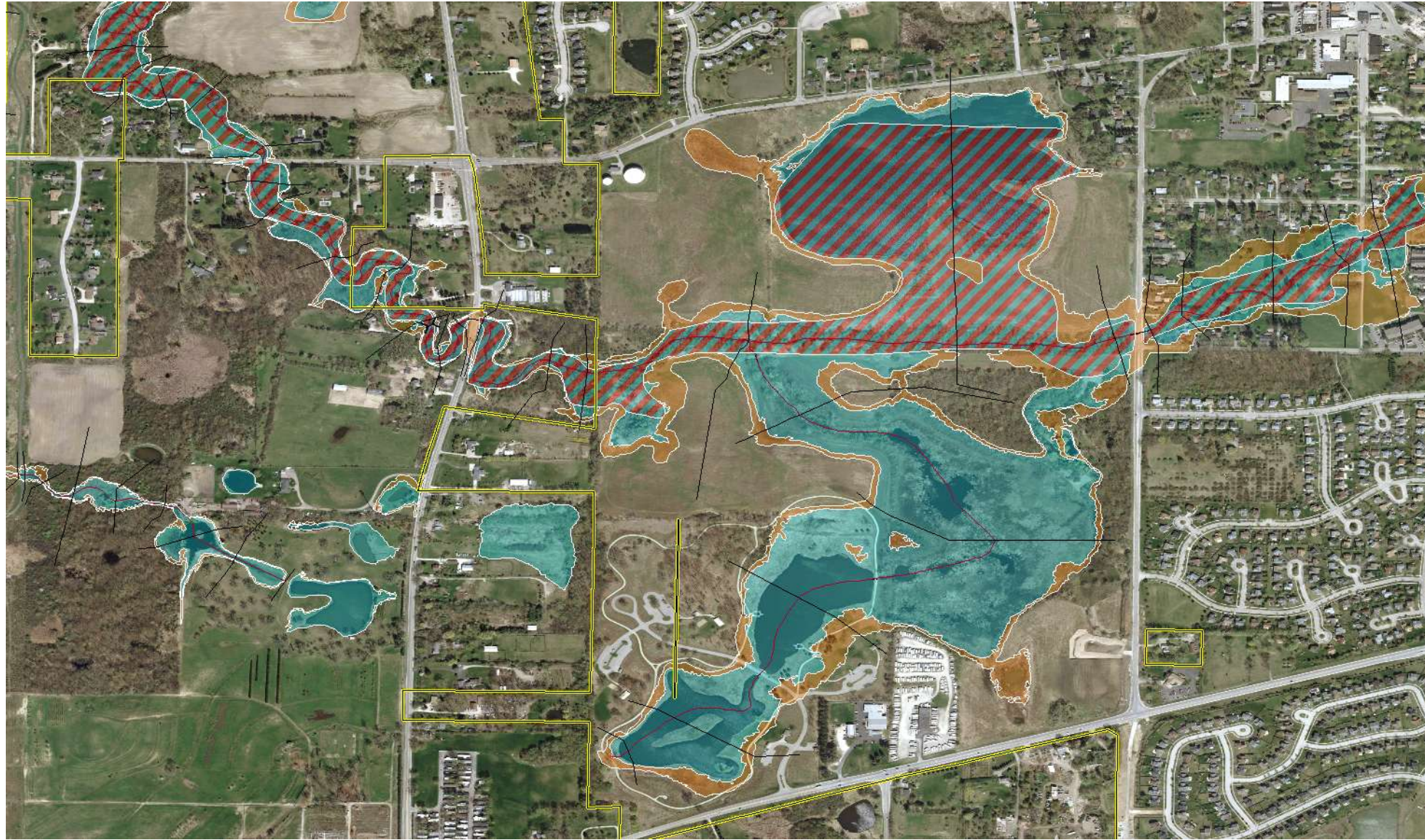
# Detailed Hydrologic and Hydraulic Modeling



# Watershed Scale Flood Risk Modeling



# FEMA Physical Map Revisions



# Illinois MT-2 Review

U.S. DEPARTMENT OF HOMELAND SECURITY  
FEDERAL EMERGENCY MANAGEMENT AGENCY  
O.M.S. No. 1609-0036

U.S. DEPARTMENT OF HOMELAND SECURITY  
FEDERAL EMERGENCY MANAGEMENT AGENCY  
O.M.S. No. 1609-0036

U.S. DEPARTMENT OF HOMELAND SECURITY  
FEDERAL EMERGENCY MANAGEMENT AGENCY  
O.M.S. No. 1609-0036  
Expires February 28, 2014

## OVERVIEW & CONCURRENCE FORM

### PAPERWORK BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average 1 hour per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form. You are not required to respond to this collection of information unless it displays a valid OMB control number. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 1500 South Bell Street, Arlington, VA 22205-3026, Paperwork Reduction Project (1500-0016). Submission of the form is required to obtain or retain benefits under the National Flood Insurance Program. Please do not send your completed survey to the above address.

### PRIVACY ACT STATEMENT

**AUTHORITY:** The National Flood Insurance Act of 1968, Public Law 90-448, as amended by the Flood Disaster Protection Act of 1973, Public Law 93-234.

**PRINCIPAL PURPOSE(S):** This information is being collected for the purpose of determining an applicant's eligibility to request changes to National Flood Insurance Program (NFIP) Flood Insurance Rate Maps (FIRM).

**ROUTINE USE(S):** The information on this form may be disclosed as generally permitted under 5 U.S.C. § 552(a)(3) of the Privacy Act of 1974, as amended. This includes using the information as necessary and authorized by the routine uses published in DHS/FEMA/NFIP/LOMA-1 National Flood Insurance Program (NFIP), Letter of Map Amendment (LOMA) February 15, 2006, 71 FR 7590.

**DISCLOSURE:** The disclosure of information on this form is voluntary; however, failure to provide the information requested may delay or prevent FEMA from processing a determination regarding a requested change to a (NFIP) Flood Insurance Rate Maps (FIRM).

### A. REQUESTED RESPONSE FROM DHS/FEMA

This request is for a (check one):

☒ **CLOSURE:** A letter from DHS/FEMA commenting on whether a proposed project, if built as proposed, would justify a map revision, or proposed hydrology changes (See 44 CFR Ch. 1, Parts 60, 65 & 72).

☐ **LOMR:** A letter from DHS/FEMA officially revising the current NFIP map to show the changes to floodplains, regulatory floodway or flood elevations. (See 44 CFR Ch. 1, Parts 60, 65 & 72).

### B. OVERVIEW

1. The NFIP map panel(s) affected for all impacted communities is (are):

Community No.	Community Name	State	Map No.	Panel No.	Effective Date
Example: 40001	City of Italy	TX	40473C	00050	03/08/01
40007	Maricopa County	TX	40211C	02200	06/23/90

2. a. Flooding Source: ☐

b. Types of Flooding: ☐ Riverine ☐ Coastal ☐ Shallow Flooding (e.g., Zones AO and AH) ☐ Alluvial fan ☐ Lakes ☐ Other (Attach Description)

3. Project Name/Identifier:

4. FEMA zone designations affected:  (choose: A, AH, AO, A1-A30, A99, AE, AR, V, V1-V30, VE, B, C, D, X)

5. Basis for Request and Type of Revision:

a. The basis for this revision request is (check all that apply):

<input type="checkbox"/> Physical Change	<input type="checkbox"/> Improved Methodology/Data	<input type="checkbox"/> Regulatory Floodway Revision	<input type="checkbox"/> Base Map Changes
<input type="checkbox"/> Coastal Analysis	<input type="checkbox"/> Hydraulic Analysis	<input type="checkbox"/> Hydrologic Analysis	<input type="checkbox"/> Corrections
<input type="checkbox"/> Wet-Dam Changes	<input type="checkbox"/> Levee Certification	<input type="checkbox"/> Alluvial Fan Analysis	<input type="checkbox"/> Natural Changes
<input type="checkbox"/> New Topographic Data	<input type="checkbox"/> Other (Attach Description)		

Note: A photograph and narrative description of the area of concern is not required, but is very helpful during review.

FEMA Form 099-0-07, (2001)

Previously FEMA Form 01-06

MT-2 Panel 1 Page 1 of 3



# Thank You



## Contact Information

**Glenn Heistand, P.E., CFM**

**[heistand@Illinois.edu](mailto:heistand@Illinois.edu)**

**217-244-8856**

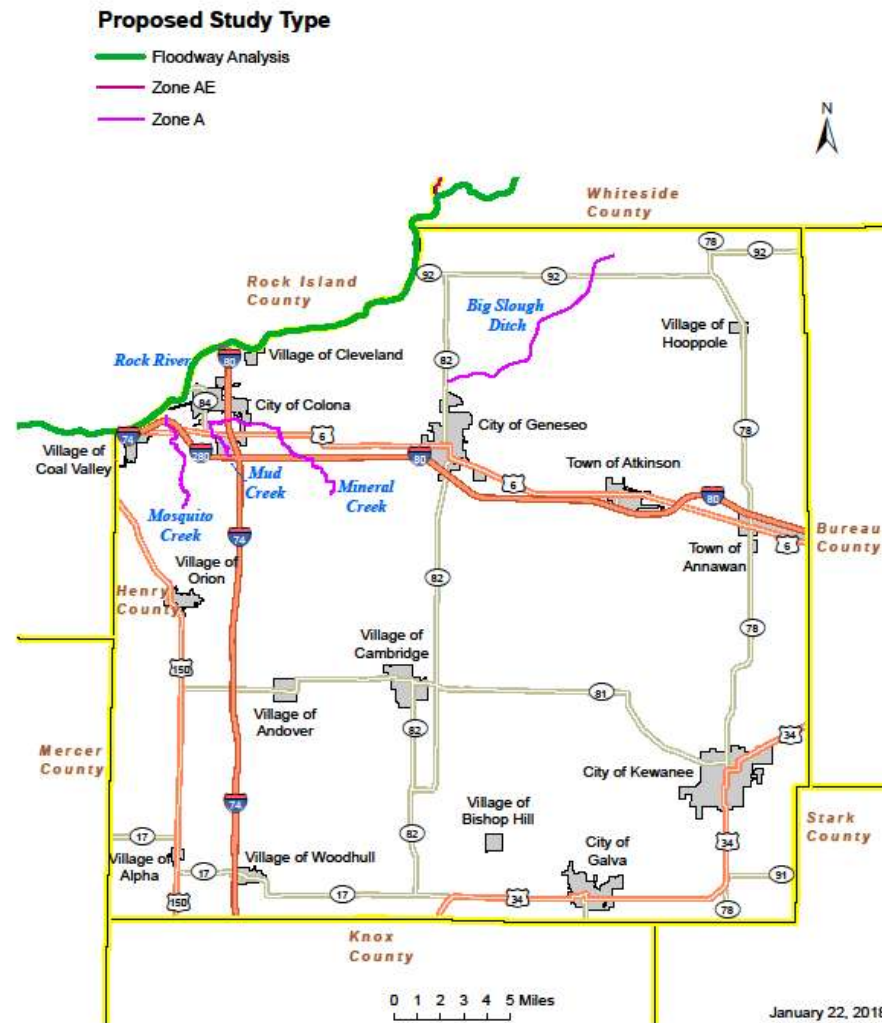
**Ryan Meekma, GISP, CFM**

**[rmeekma@Illinois.edu](mailto:rmeekma@Illinois.edu)**

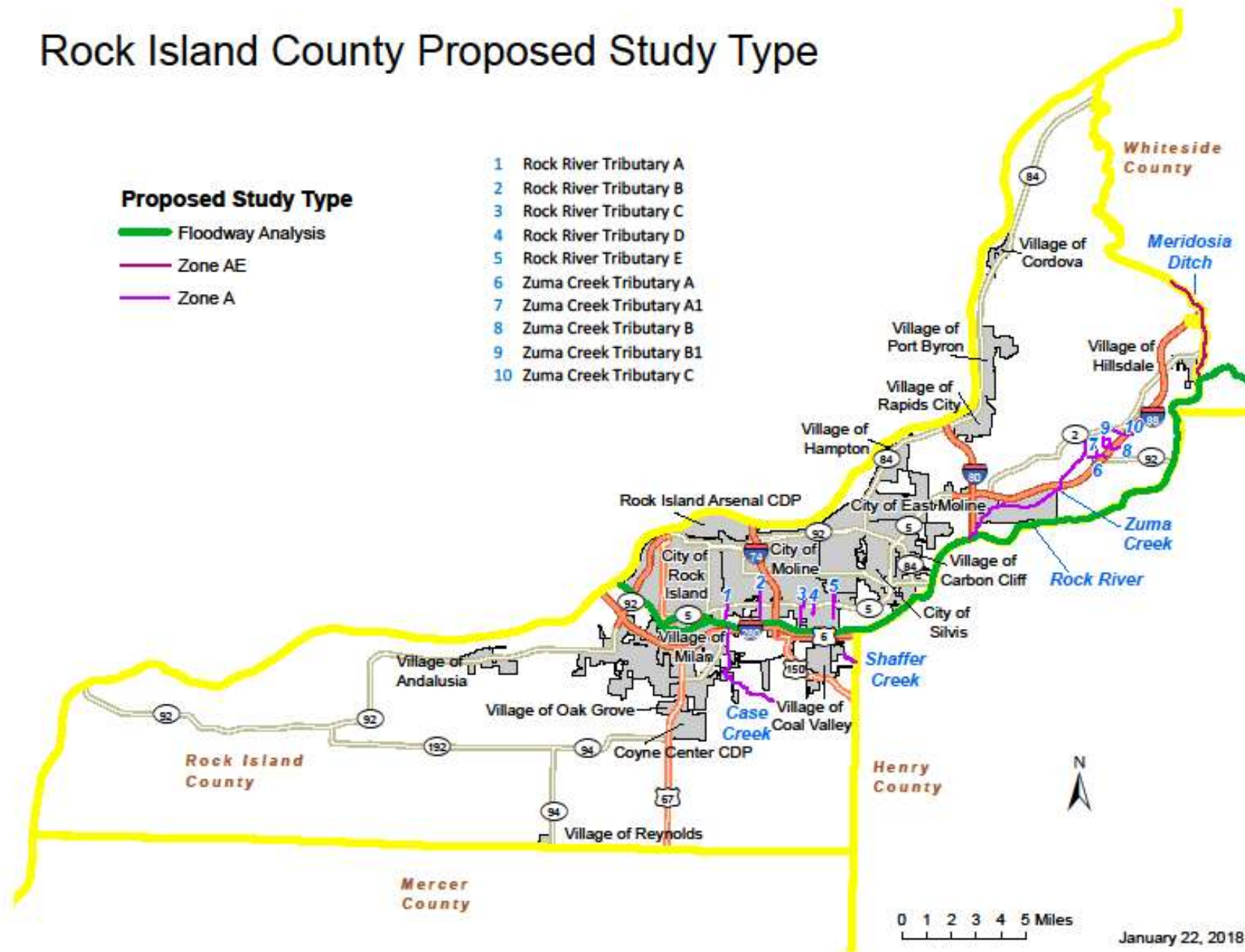
**217-244-6627**



## Henry County Proposed Study Type



# Rock Island County Proposed Study Type



# Whiteside County Proposed Study Type

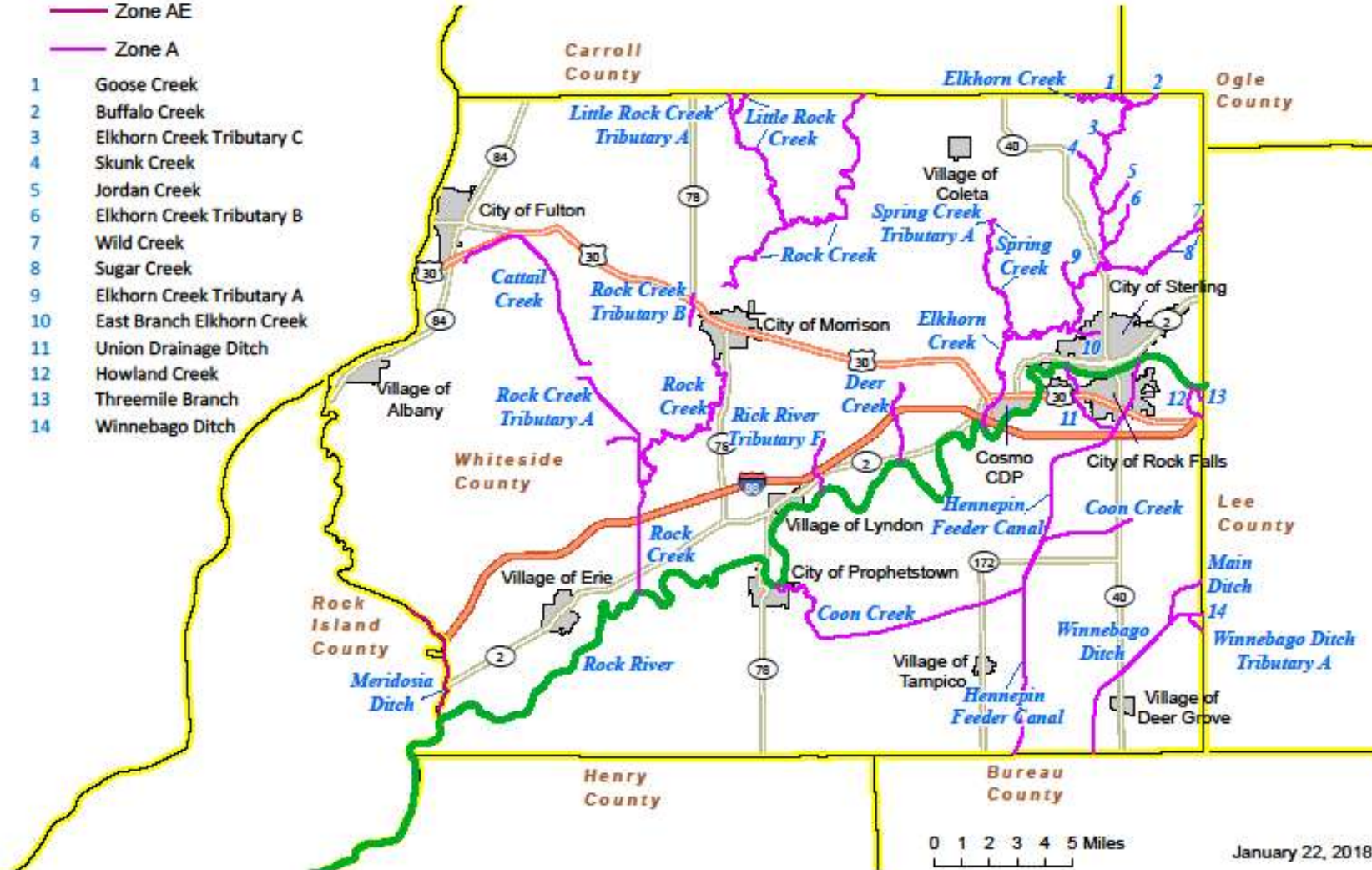
## Proposed Study Type

— Floodway Analysis

— Zone AE

— Zone A

- 1 Goose Creek
- 2 Buffalo Creek
- 3 Elkhorn Creek Tributary C
- 4 Skunk Creek
- 5 Jordan Creek
- 6 Elkhorn Creek Tributary B
- 7 Wild Creek
- 8 Sugar Creek
- 9 Elkhorn Creek Tributary A
- 10 East Branch Elkhorn Creek
- 11 Union Drainage Ditch
- 12 Howland Creek
- 13 Threemile Branch
- 14 Winnebago Ditch



# Effingham County Proposed Study Type

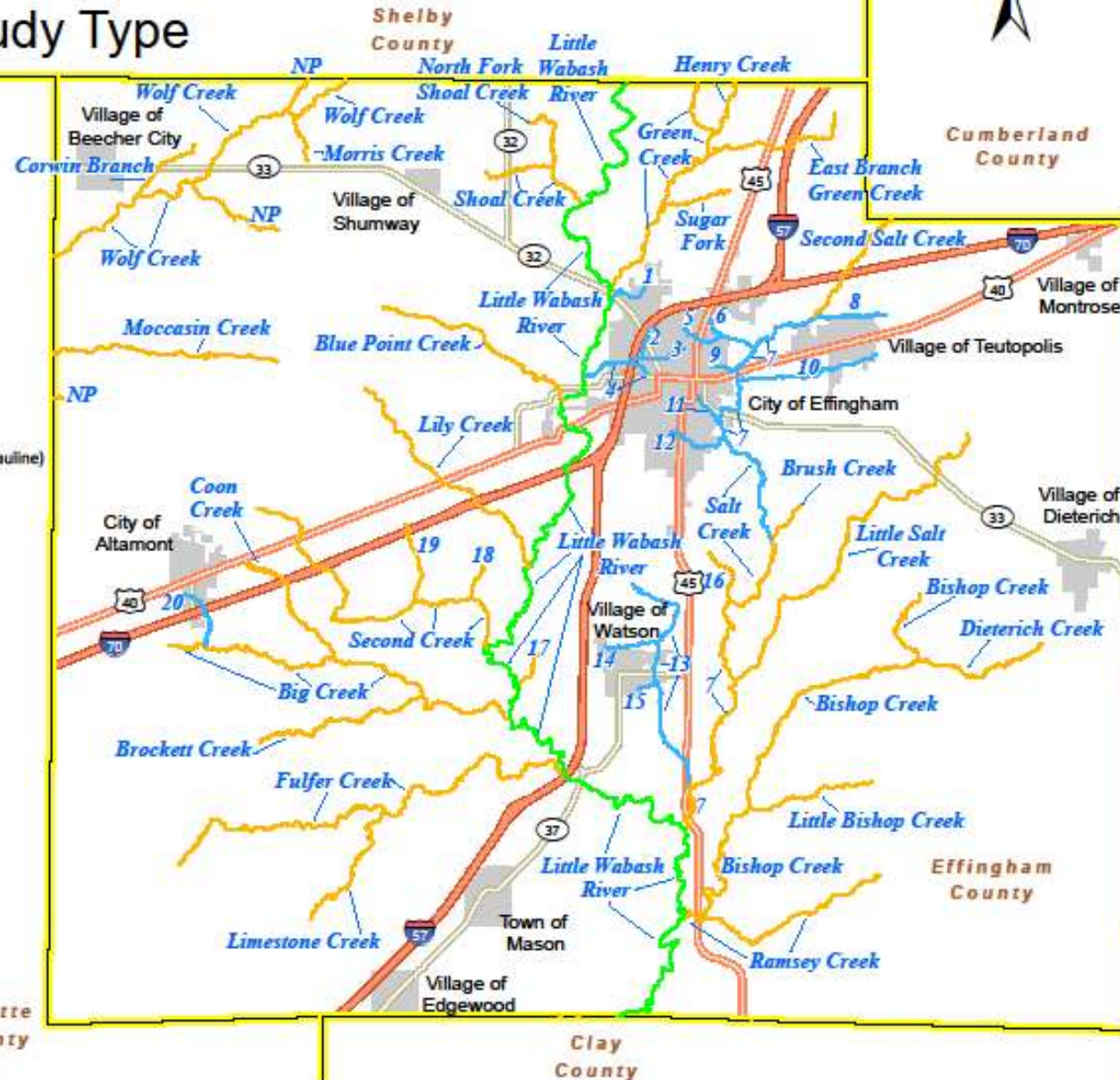
## New Study Zone Type

- Enhanced Zone A
- Zone A
- Zone AE
- County Boundary
- Municipality

- 1 Little Wabash River Tributary O (Lake Pauline)
- 2 Little Wabash River Tributary N1a
- 3 Little Wabash River Tributary N1a
- 4 Little Wabash River Tributary N
- 5 Salt Creek Tributary G1
- 6 Salt Creek Tributary G
- 7 Salt Creek
- 8 First Salt Creek
- 9 Salt Creek Tributary F
- 10 Salt Creek Tributary E
- 11 Salt Creek Tributary D
- 12 Salt Creek Tributary C
- 13 Salt Creek Tributary A
- 14 Salt Creek Tributary A2
- 15 Salt Creek Tributary A1
- 16 Salt Creek Tributary B
- 17 Little Wabash River Tributary M
- 18 Second Creek Tributary A
- 19 Second Creek Tributary B
- 20 Big Creek Tributary

0 1 2 3 4 5 Miles

October 10, 2017



# Effingham County Stream Survey Location Request Index Map

Map Sheet Page Name

## New Study Zone Type

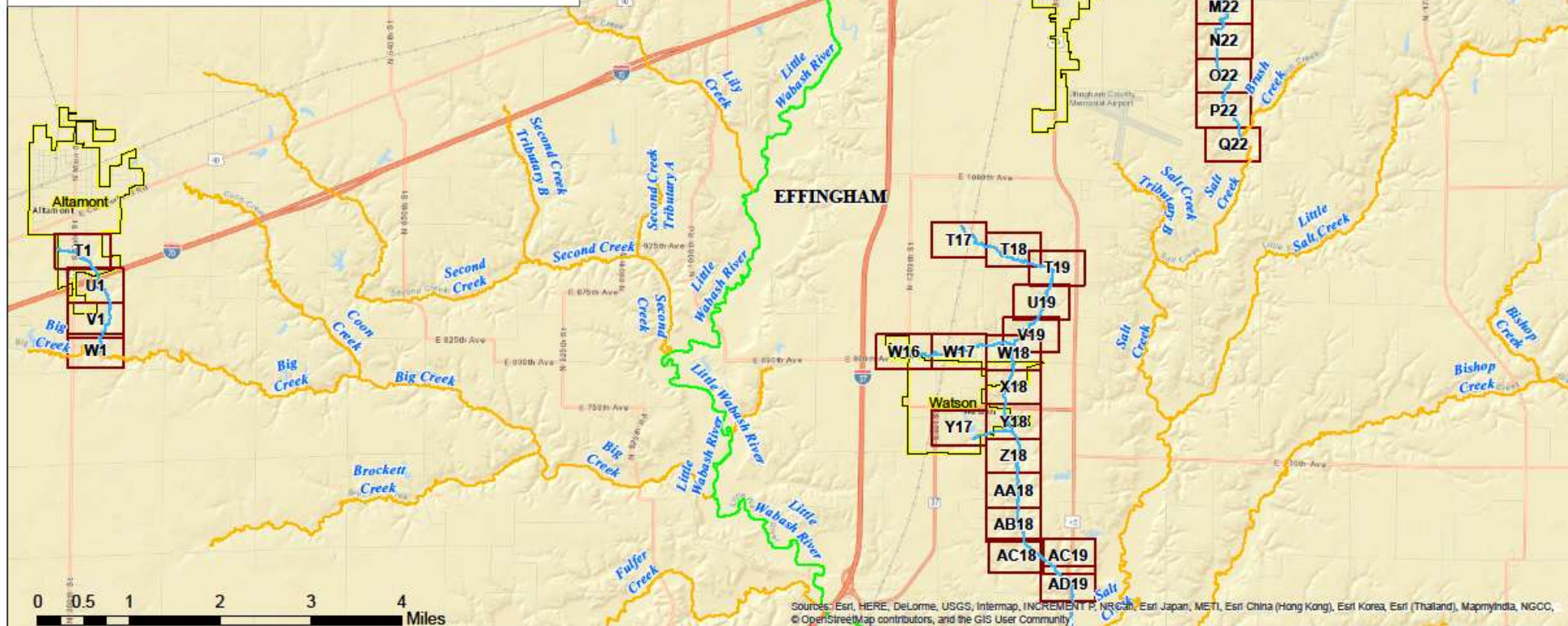
Effective Zone AE

Enhanced Zone A

Zone A

Zone AE

Date: 10/9/2017



Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

# Clay County Proposed Study Type

## New Study Zone Type

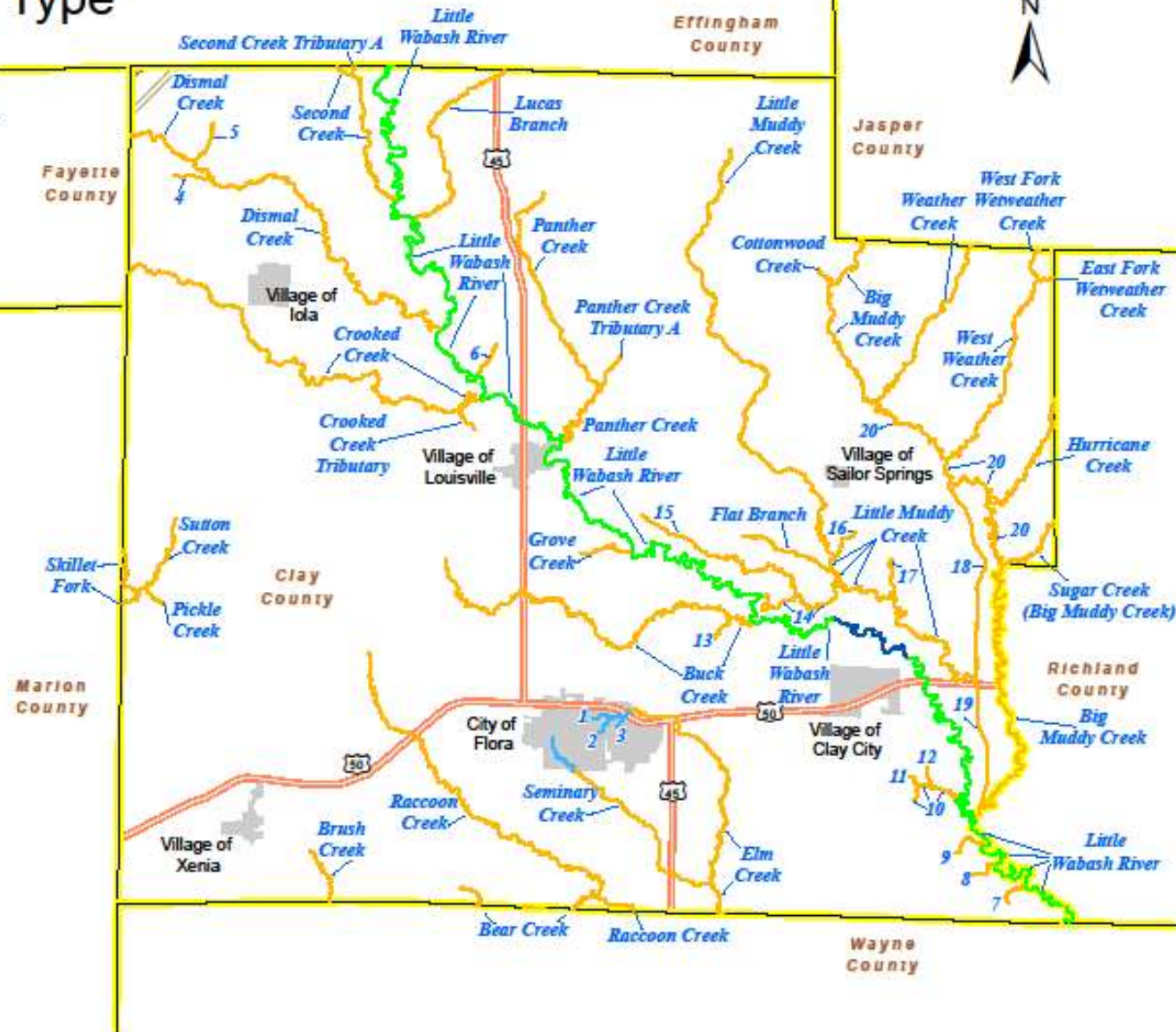
- Effective Zone AE
- Enhanced Zone A
- Zone A
- Zone AE

- County Boundary
- Municipality

- 1 Elm Creek Tributary A
- 2 Elm Creek Tributary A2
- 3 Elm Creek Tributary A1
- 4 Dismal Creek Tributary A
- 5 Dismal Creek Tributary B
- 6 Little Wabash River Tributary L
- 7 Little Wabash River Tributary H
- 8 Little Wabash River Tributary I
- 9 Little Wabash River Tributary J
- 10 Little Wabash River Tributary K
- 11 Little Wabash River Tributary K2
- 12 Little Wabash River Tributary K1
- 13 Buck Creek Tributary A
- 14 Indian Creek
- 15 Indian Creek Tributary A
- 16 Little Muddy Creek Tributary C
- 17 Little Muddy Creek Tributary B
- 18 Little Muddy Creek Tributary A
- 19 Little Muddy Creek
- 20 Big Muddy Creek

0 1 2 3 4 5 Miles

October 10, 2017



# Clay County Stream Survey Location Request Index Map

Map Sheet Page Name

### New Study Zone Type

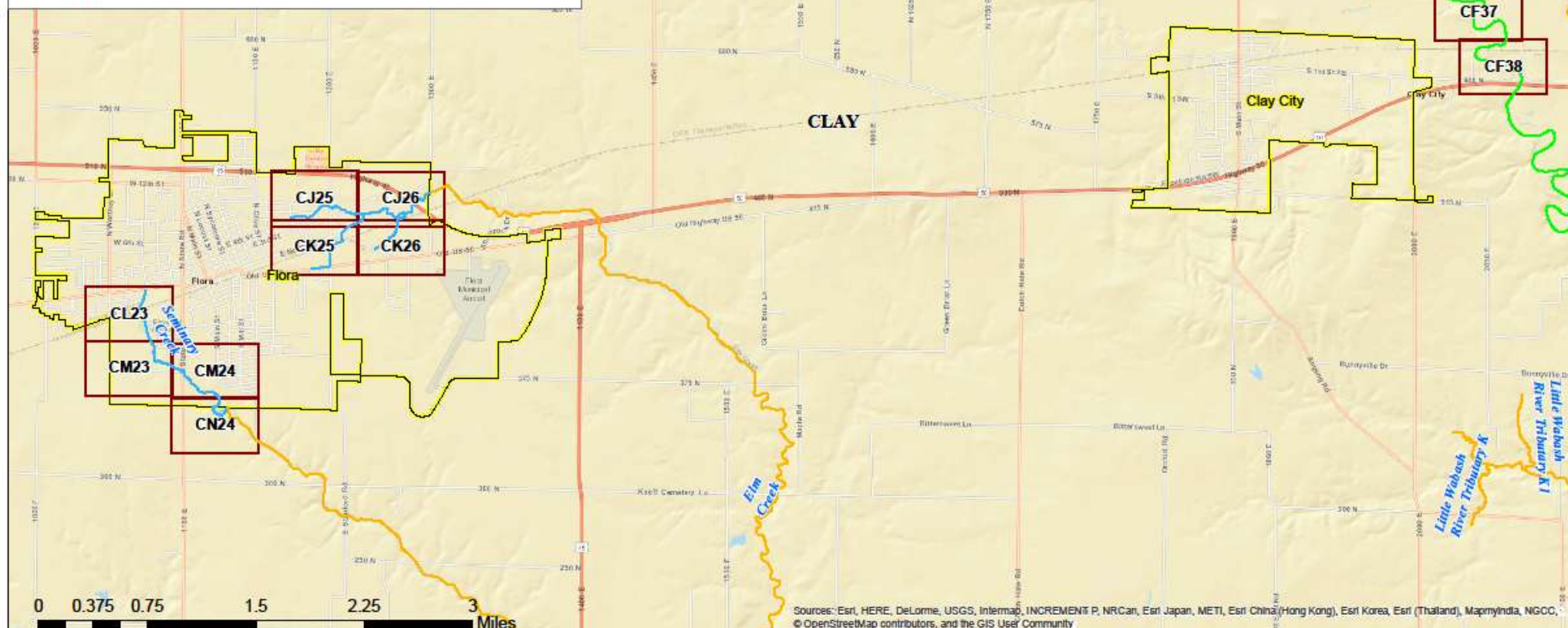
— Effective Zone AE

Enhanced Zone A

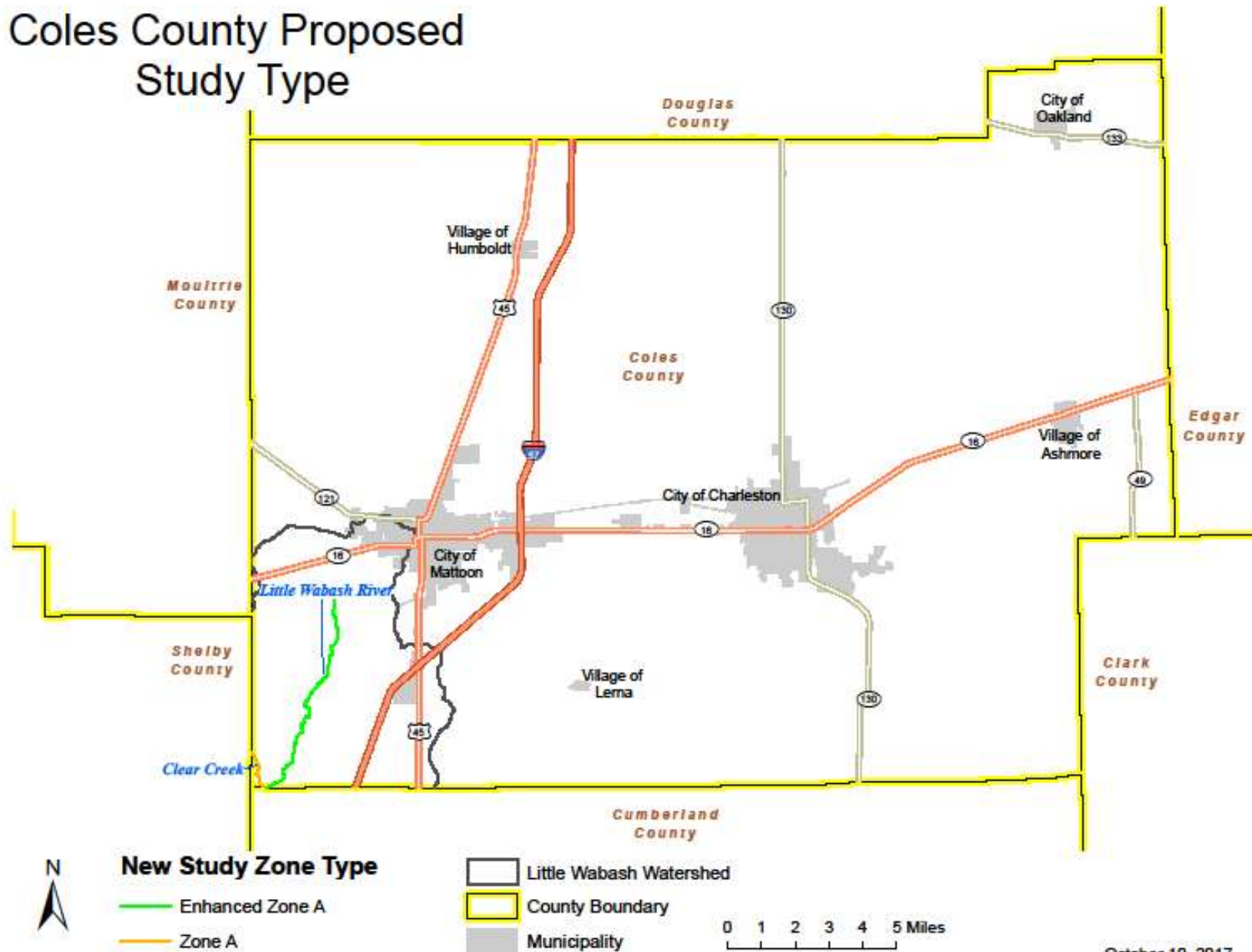
— Zone A

— Zone AE

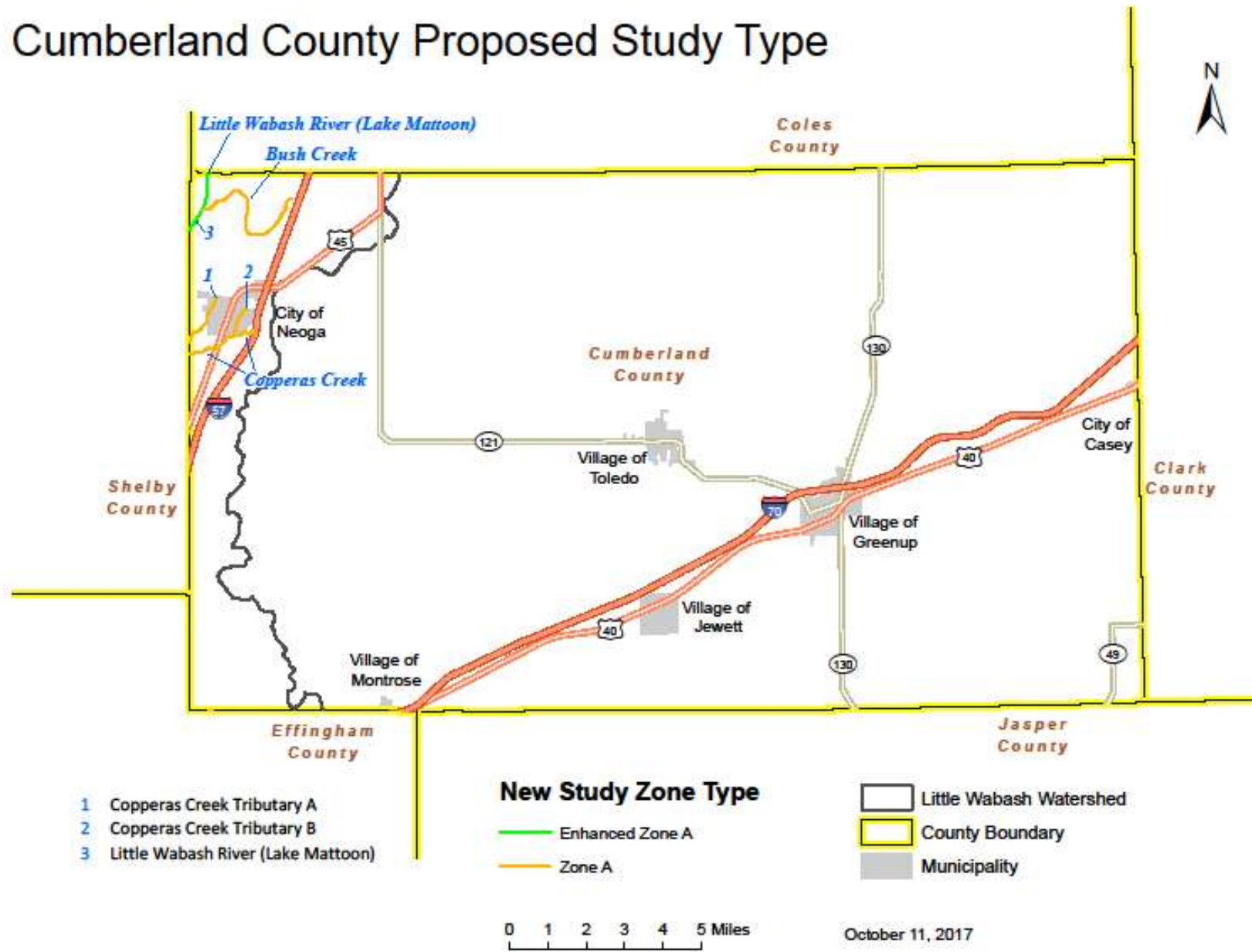
**Date: 12/8/2017**



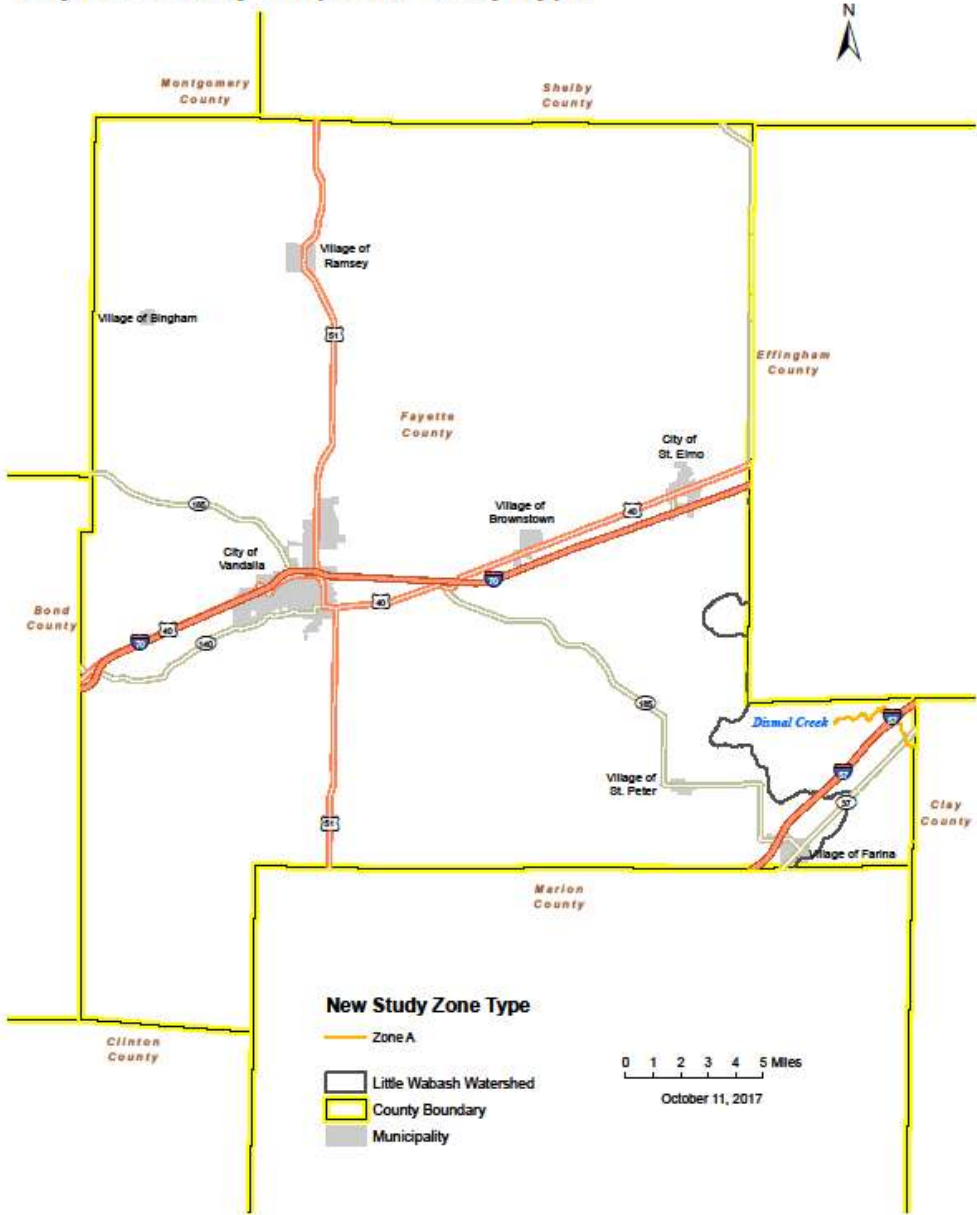
# Coles County Proposed Study Type



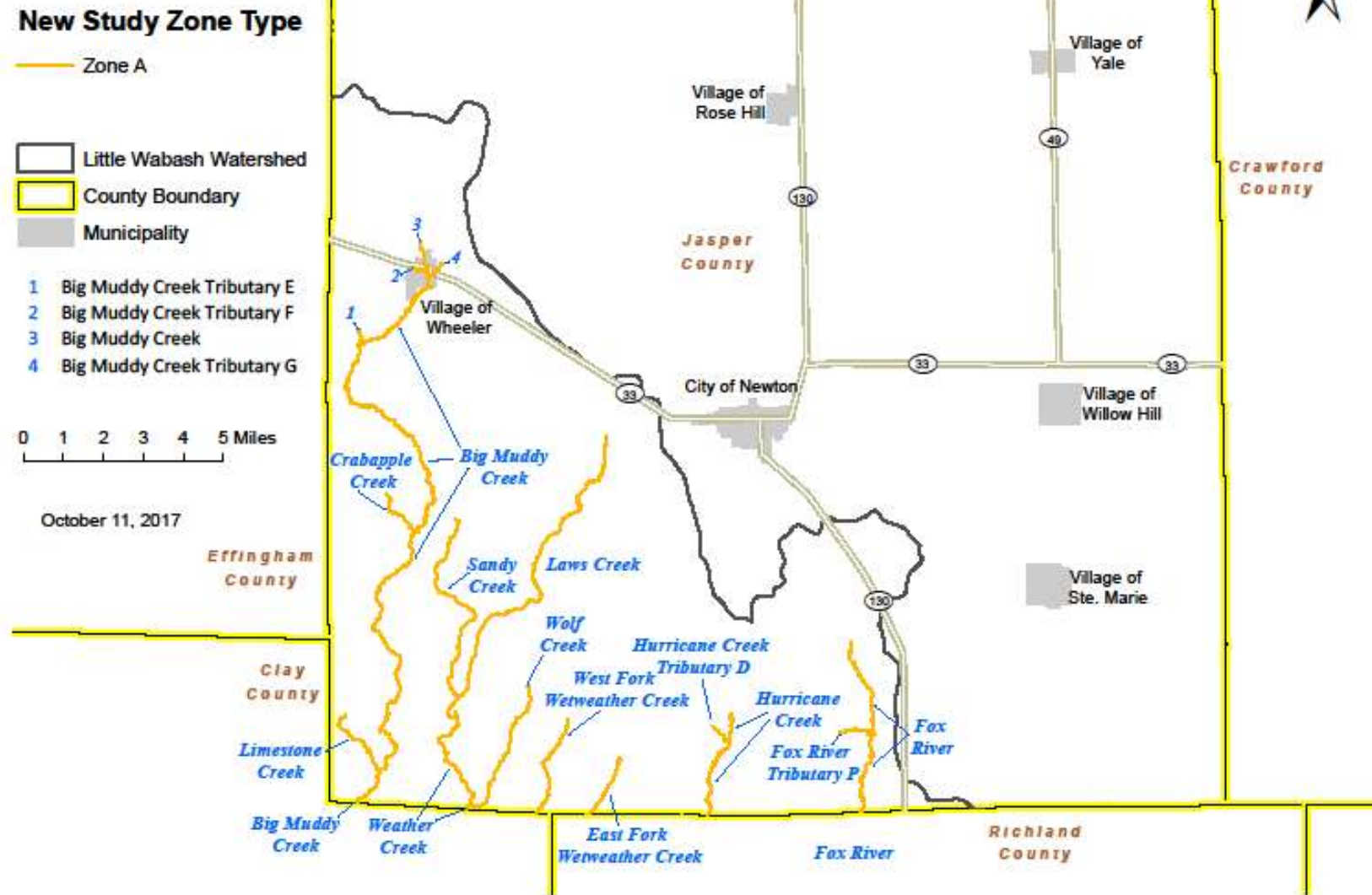
# Cumberland County Proposed Study Type



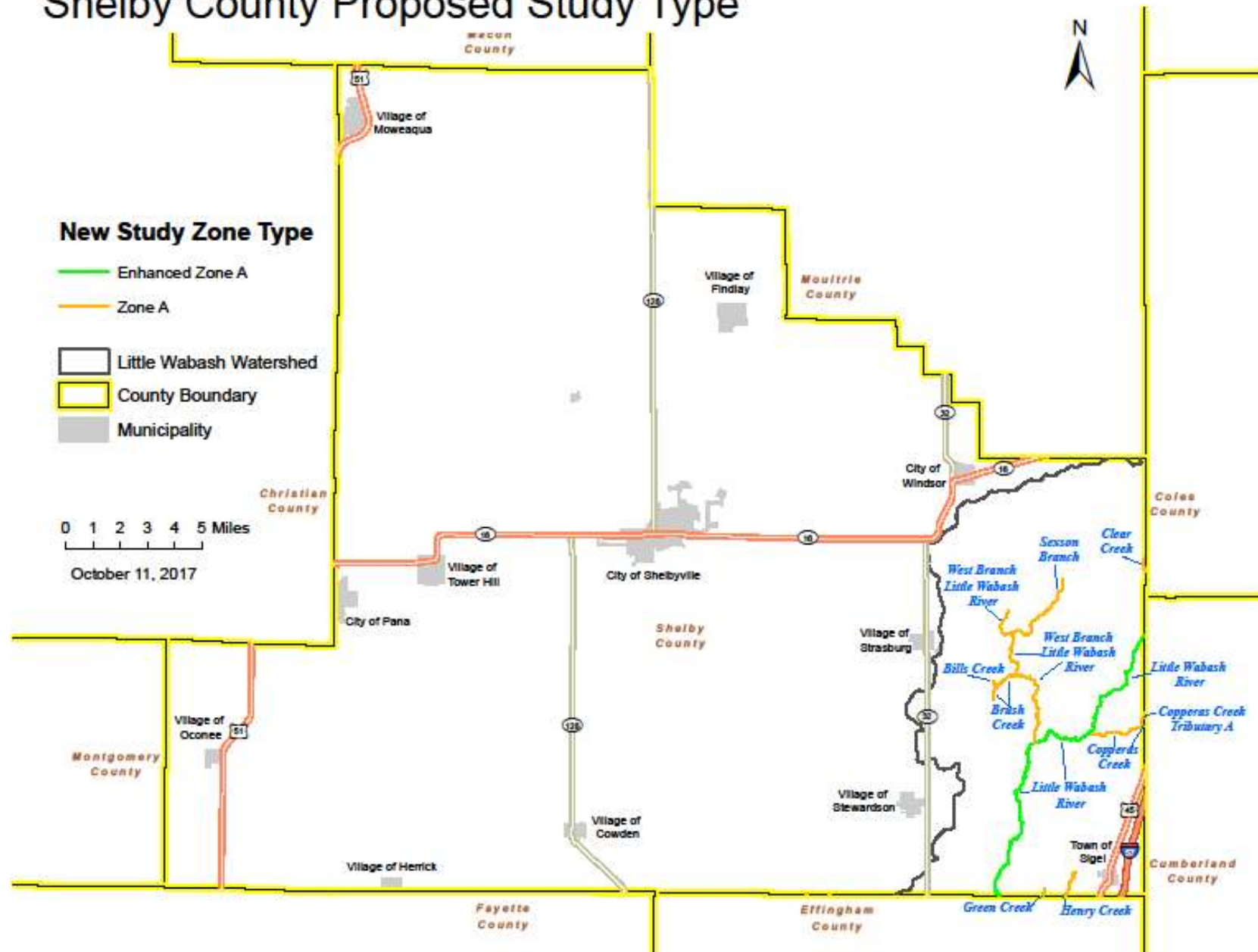
Fayette County Proposed Study Type



# Jasper County Proposed Study Type



# Shelby County Proposed Study Type



# Richland County Proposed Study Type

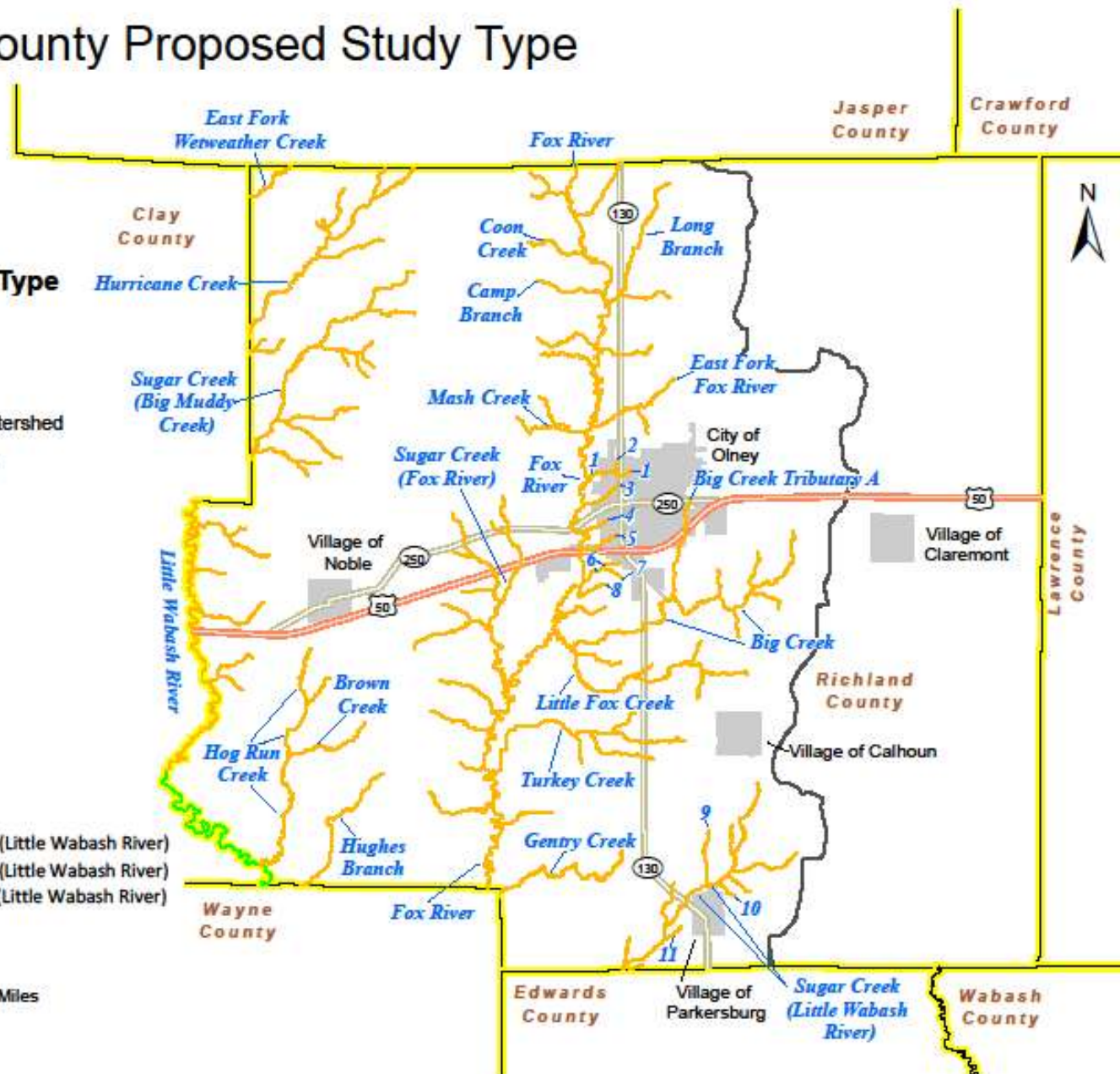
## New Study Zone Type

- Enhanced Zone A
- Zone A
- Little Wabash Watershed
- County Boundary
- Municipality

- 1 Fox River Tributary J
- 2 Fox River Tributary J1
- 3 Fox River Tributary I
- 4 Fox River Tributary H
- 5 Fox River Tributary G
- 6 Fox River Tributary F
- 7 Fox River Tributary F1
- 8 Fox River Tributary E
- 9 Sugar Creek Tributary G (Little Wabash River)
- 10 Sugar Creek Tributary H (Little Wabash River)
- 11 Sugar Creek Tributary E (Little Wabash River)

0 1 2 3 4 5 Miles

October 23, 2017



# Edwards County Proposed Study Type

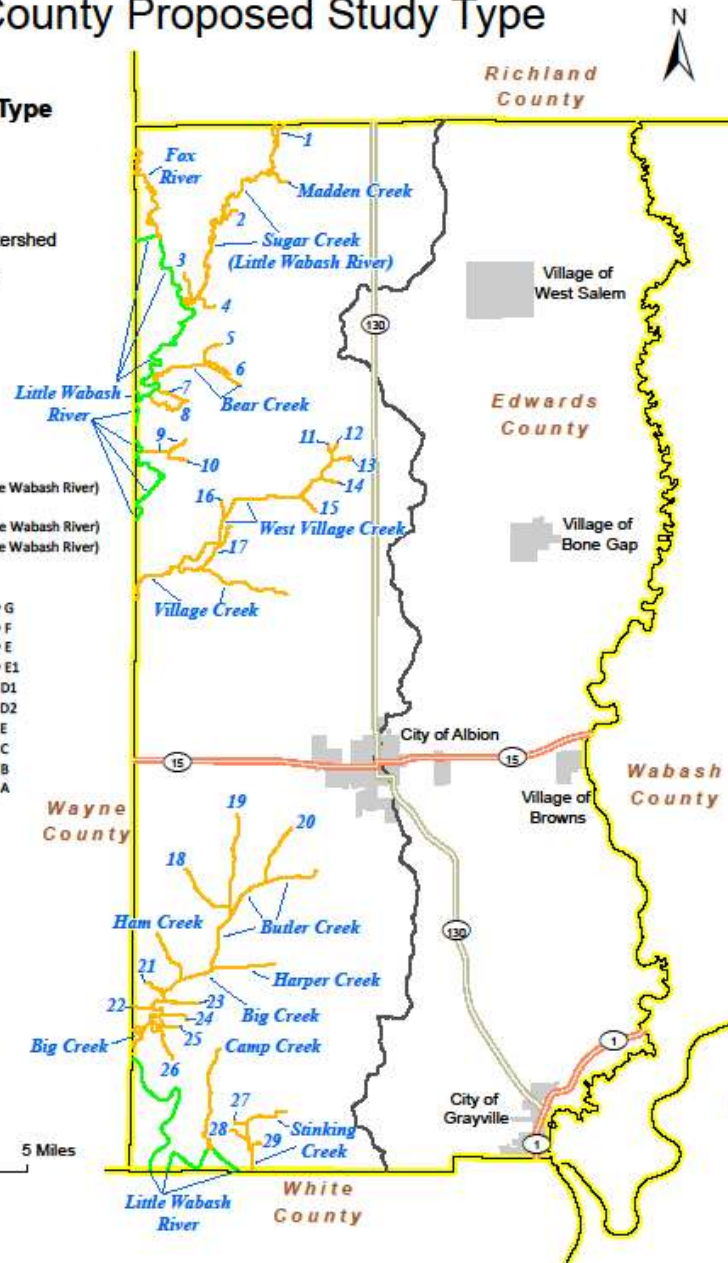
## New Study Zone Type

- Enhanced Zone A
- Zone A
- Little Wabash Watershed
- County Boundary
- Municipality

- 1 Sugar Creek Tributary C (Little Wabash River)
- 2 Shelby Creek Tributary A
- 3 Sugar Creek Tributary A (Little Wabash River)
- 4 Sugar Creek Tributary B (Little Wabash River)
- 5 Bear Creek Tributary A EC
- 6 Bear Creek Tributary A1 EC
- 7 Little Wabash River Tributary G
- 8 Little Wabash River Tributary F
- 9 Little Wabash River Tributary E
- 10 Little Wabash River Tributary E1
- 11 West Village Creek Tributary D1
- 12 West Village Creek Tributary D2
- 13 West Village Creek Tributary E
- 14 West Village Creek Tributary C
- 15 West Village Creek Tributary B
- 16 West Village Creek Tributary A
- 17 Village Creek Tributary A
- 18 Butler Creek Tributary A1
- 19 Butler Creek Tributary A
- 20 Butler Creek Tributary B
- 21 Big Creek Tributary E
- 22 Big Creek Tributary C
- 23 Big Creek Tributary D
- 24 Big Creek Tributary B
- 25 Big Creek Tributary A2
- 26 Big Creek Tributary A1
- 27 Stinking Creek Tributary C
- 28 Stinking Creek Tributary B
- 29 Stinking Creek Tributary A

0 1 2 3 4 5 Miles

October 23, 2017



# Wayne County Proposed Study Type

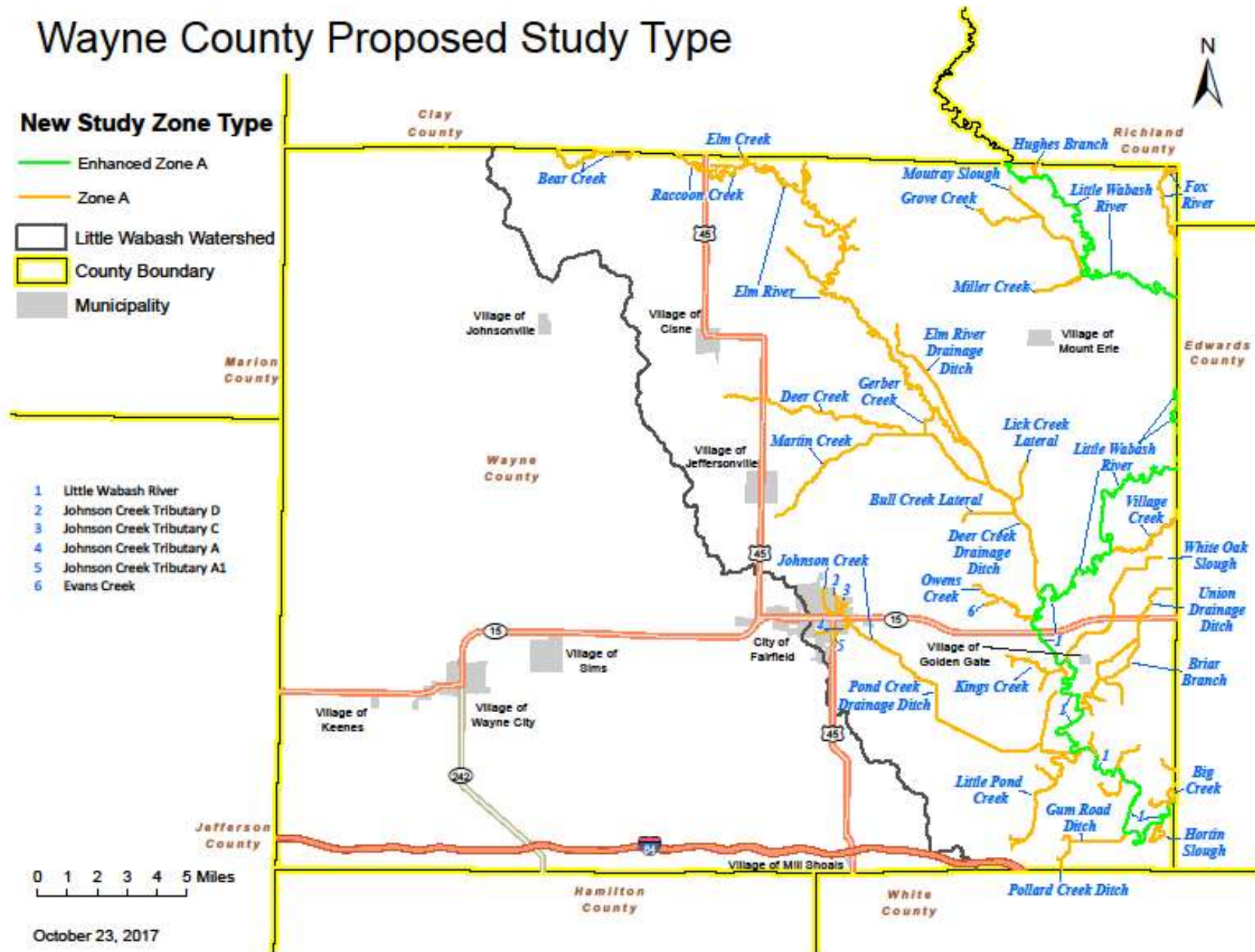
## New Study Zone Type

- Enhanced Zone A
- Zone A
- Little Wabash Watershed
- County Boundary
- Municipality

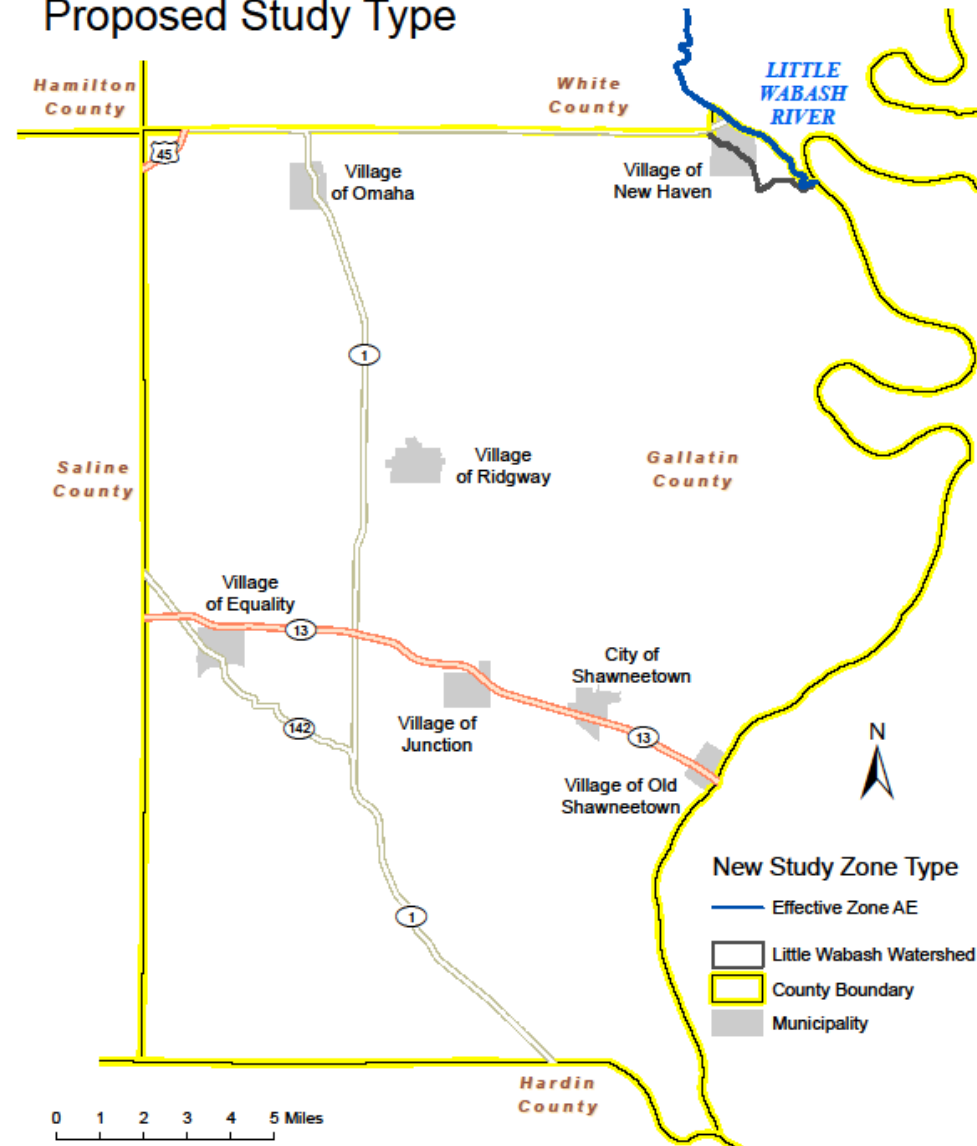
- 1 Little Wabash River
- 2 Johnson Creek Tributary D
- 3 Johnson Creek Tributary C
- 4 Johnson Creek Tributary A
- 5 Johnson Creek Tributary A1
- 6 Evans Creek

0 1 2 3 4 5 Miles

October 23, 2017



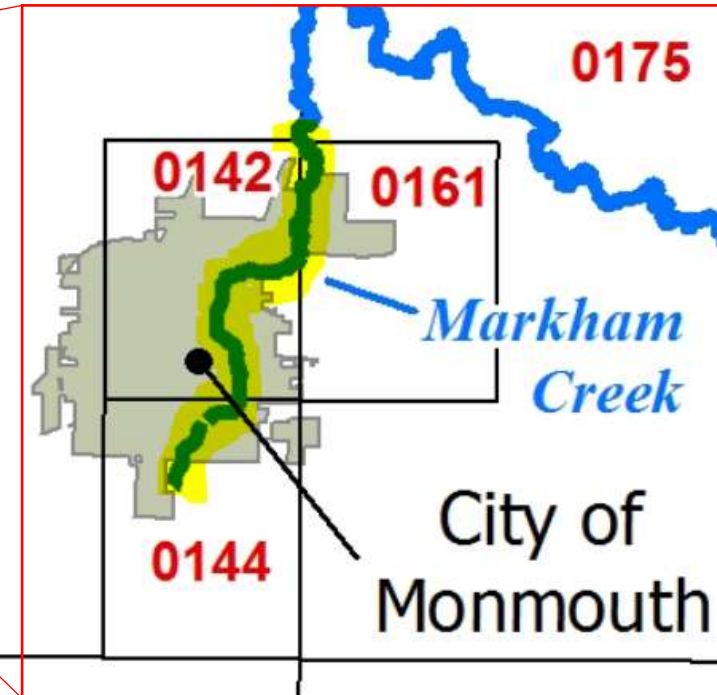
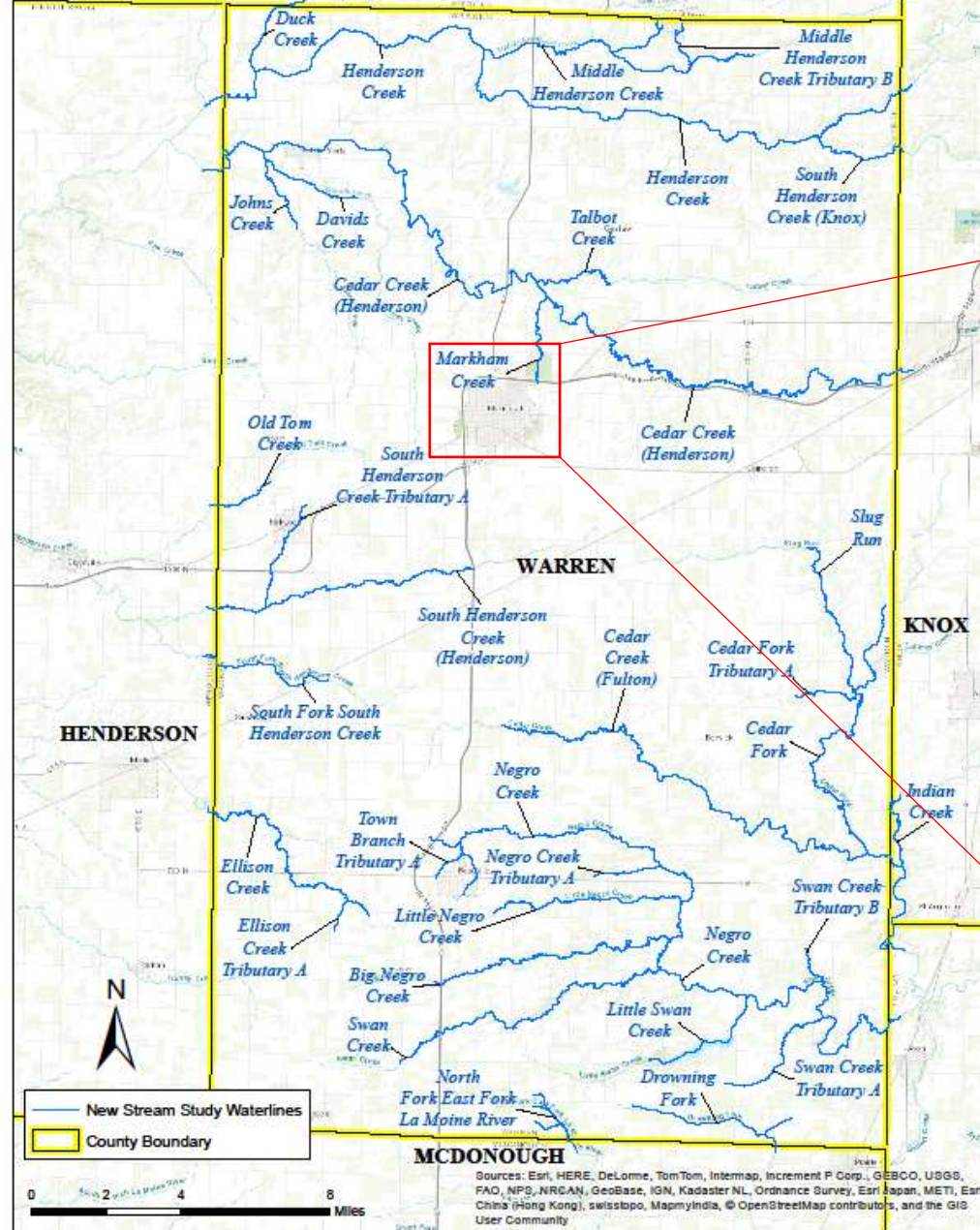
# Gallatin County Proposed Study Type



October 25, 2017



# Warren County: Proposed Zone A Study Extent







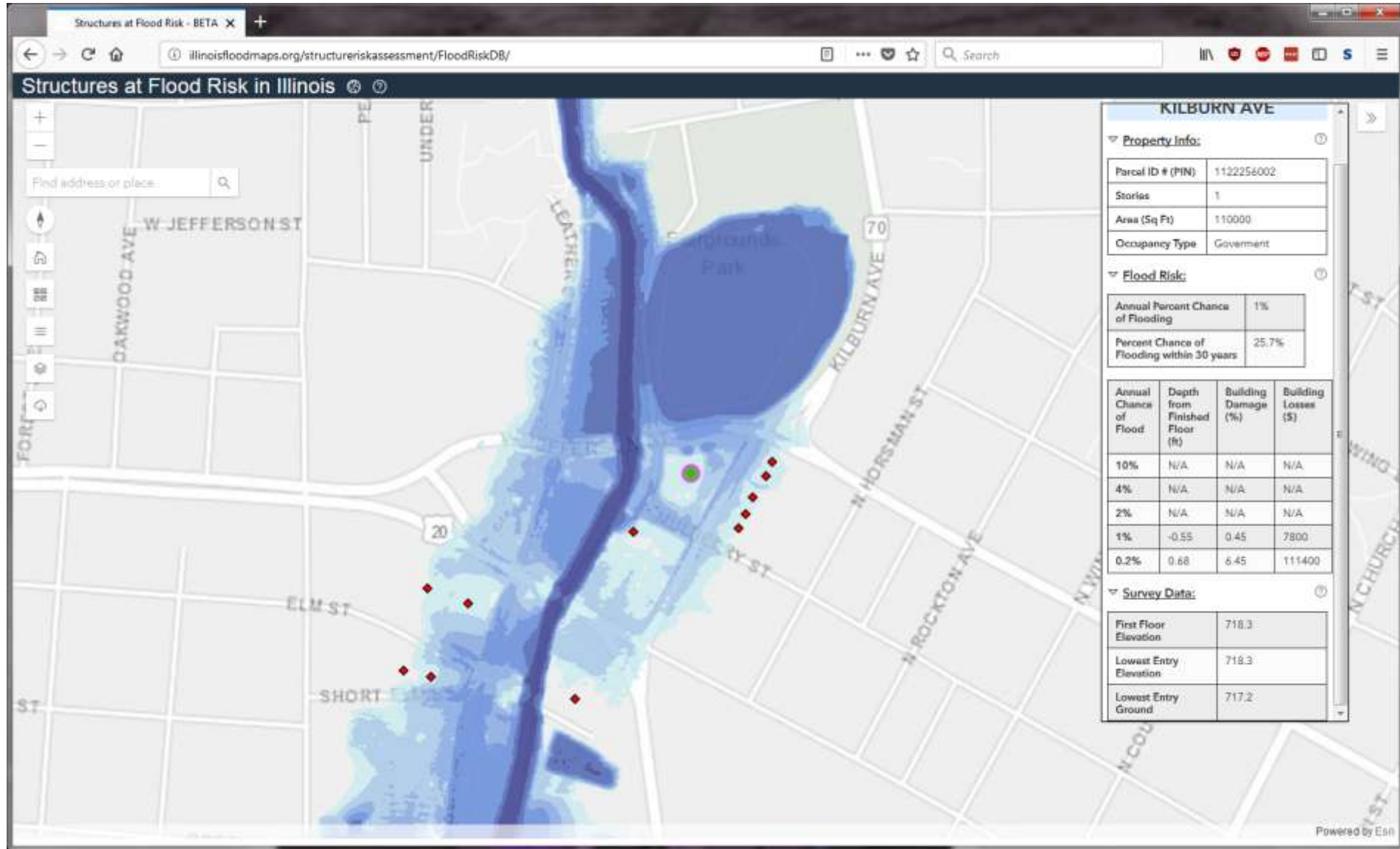




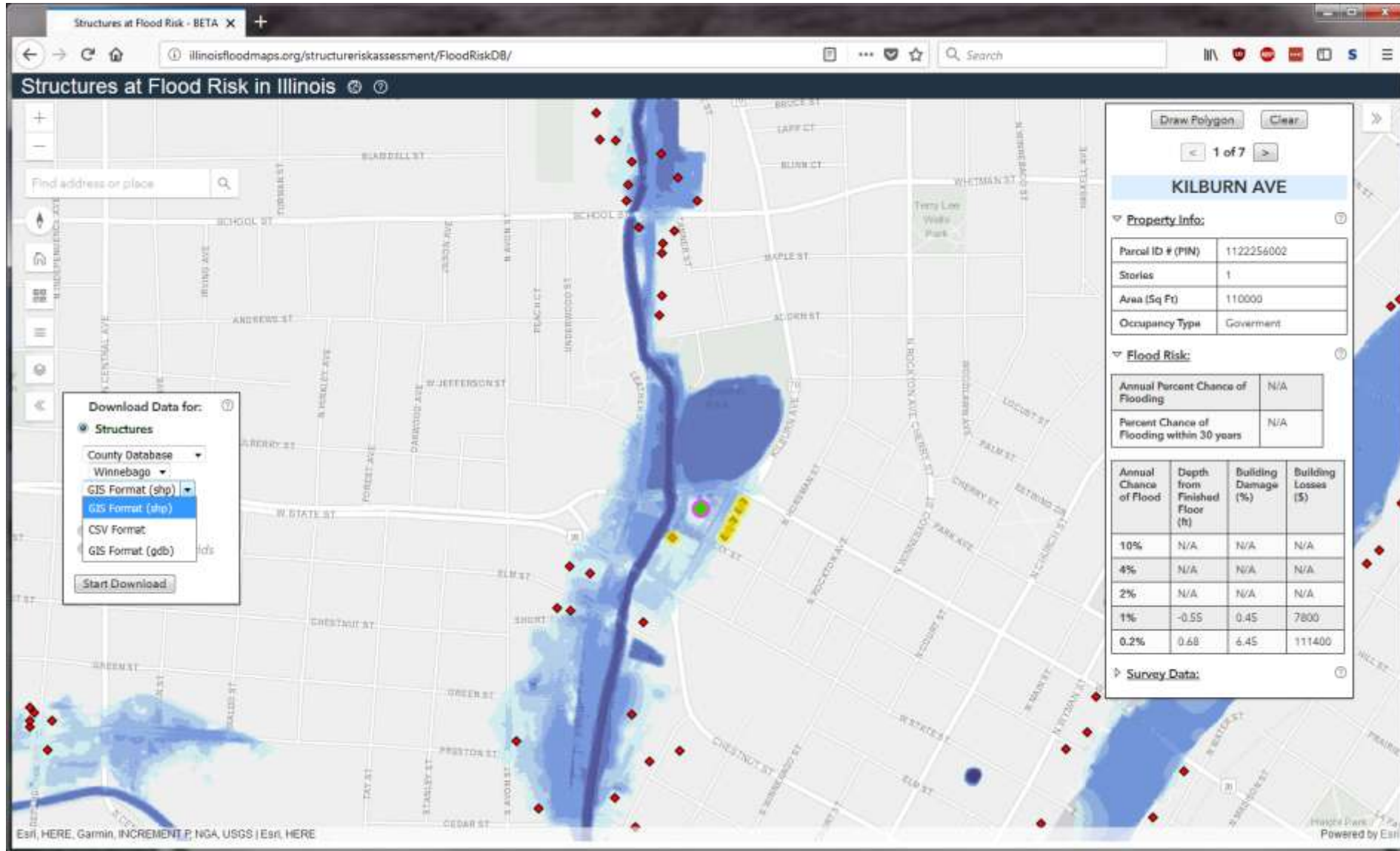




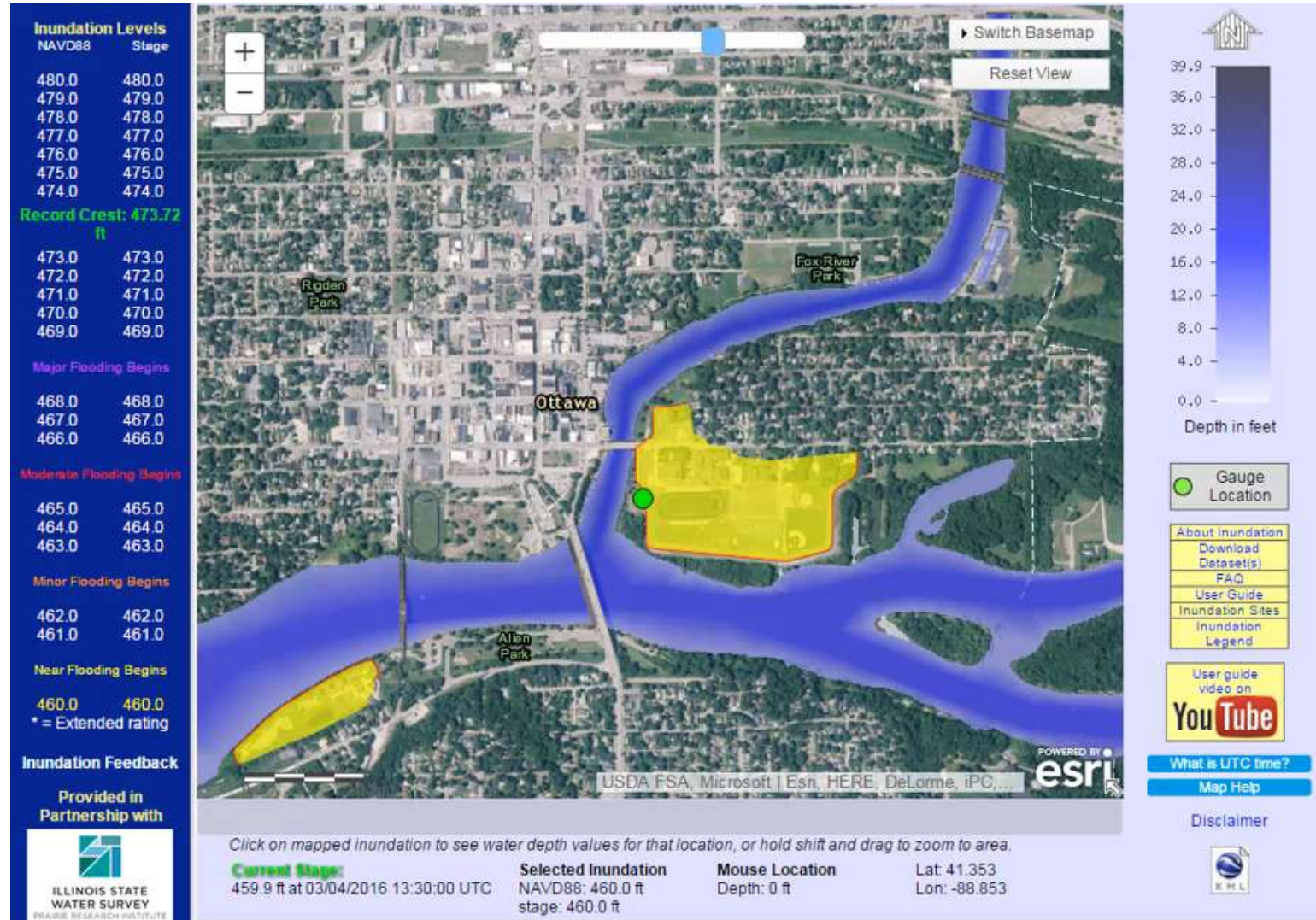
# Flood Risk Assessment Data on the Web



# Flood Risk Assessment Data on the Web



# Flood Forecast Inundation Modeling



# Illinois MT-2 Review

U.S. DEPARTMENT OF HOMELAND SECURITY  
FEDERAL EMERGENCY MANAGEMENT AGENCY  
O.M.S. No. 1609-0036

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O.M.S. No. 1609-0036  
Expires February 28, 2014

## OVERVIEW & CONCURRENCE FORM

### PAPERWORK BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average 1 hour per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form. You are not required to respond to this collection of information unless it displays a valid OMB control number. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 1200 South Bell Street, Arlington, VA 22205-3026, Paperwork Reduction Project (1609-0036). Submission of the form is required to obtain or retain benefits under the National Flood Insurance Program. Please do not send your completed survey to the above address.

### PRIVACY ACT STATEMENT

**AUTHORITY:** The National Flood Insurance Act of 1968, Public Law 90-448, as amended by the Flood Disaster Protection Act of 1973, Public Law 93-234.

**PRINCIPAL PURPOSE(S):** This information is being collected for the purpose of determining an applicant's eligibility to request changes to National Flood Insurance Program (NFIP) Flood Insurance Rate Maps (FIRM).

**ROUTING USE(S):** The information on this form may be disclosed as generally permitted under 5 U.S.C. § 552(a)(3) of the Privacy Act of 1974, as amended. This includes using the information as necessary and authorized by the routine uses published in DHS/FEMA/NFIP/LOMA-1 National Flood Insurance Program (NFIP), Letter of Map Amendment (LOMA) February 15, 2006, 71 FR 7590.

**DISCLOSURE:** The disclosure of information on this form is voluntary; however, failure to provide the information requested may delay or prevent FEMA from processing a determination regarding a requested change to a (NFIP) Flood Insurance Rate Maps (FIRM).

### A. REQUESTED RESPONSE FROM DHS/FEMA

This request is for a (check one):

☒ **CLOSURE:** A letter from DHS/FEMA commenting on whether a proposed project, if built as proposed, would justify a map revision, or proposed hydrology changes (See 44 CFR Ch. 1, Parts 60, 65 & 72).

☐ **LOMR:** A letter from DHS/FEMA officially revising the current NFIP map to show the changes to floodplains, regulatory floodway or flood elevations. (See 44 CFR Ch. 1, Parts 60, 65 & 72).

### B. OVERVIEW

1. The NFIP map panel(s) affected for all impacted communities is (are):

Community No.	Community Name	State	Map No.	Panel No.	Effective Date
Example: 40001	City of Italy	TX	40473C	00000	03/08/02
40007	Maricopa County	TX	40211C	02200	06/28/90

2. a. Flooding Source: ☐

b. Types of Flooding: ☐ Riverine ☐ Coastal ☐ Shallow Flooding (e.g., Zones AO and AH) ☐ Alluvial fan ☐ Lakes ☐ Other (Attach Description)

3. Project Name/Identifier: ☐

4. FEMA zone designations affected: ☐ (choose: A, AH, AO, A1-A30, A99, AE, AR, V, V1-V30, VE, B, C, D, X)

5. Basis for Request and Type of Revision:

a. The basis for this revision request is (check all that apply):

<input type="checkbox"/> Physical Change	<input type="checkbox"/> Improved Methodology/Data	<input type="checkbox"/> Regulatory Floodway Revision	<input type="checkbox"/> Base Map Changes
<input type="checkbox"/> Coastal Analysis	<input type="checkbox"/> Hydraulic Analysis	<input type="checkbox"/> Hydrologic Analysis	<input type="checkbox"/> Corrections
<input type="checkbox"/> Wet-Dam Changes	<input type="checkbox"/> Levee Certification	<input type="checkbox"/> Alluvial Fan Analysis	<input type="checkbox"/> Natural Changes
<input type="checkbox"/> New Topographic Data	<input type="checkbox"/> Other (Attach Description)		

Note: A photograph and narrative description of the area of concern is not required, but is very helpful during review.

FEMA Form 159-0-07, (2001)  
Previously FEMA Form 01-06  
MT-2 Panel 1 Page 1 of 3



# Future Conditions Rainfall Analysis

Contract Report 2016-05

## Communicating the Impacts of Potential Future Climate Change on the Expected Frequency of Extreme Rainfall Events in Cook County, Illinois

Monicilo Markus, James Angel, Gregory Byard,  
Chen Zhang, Zoe Zakoudek, Sally McConkey

Contract Report 2017-08  
December 2017

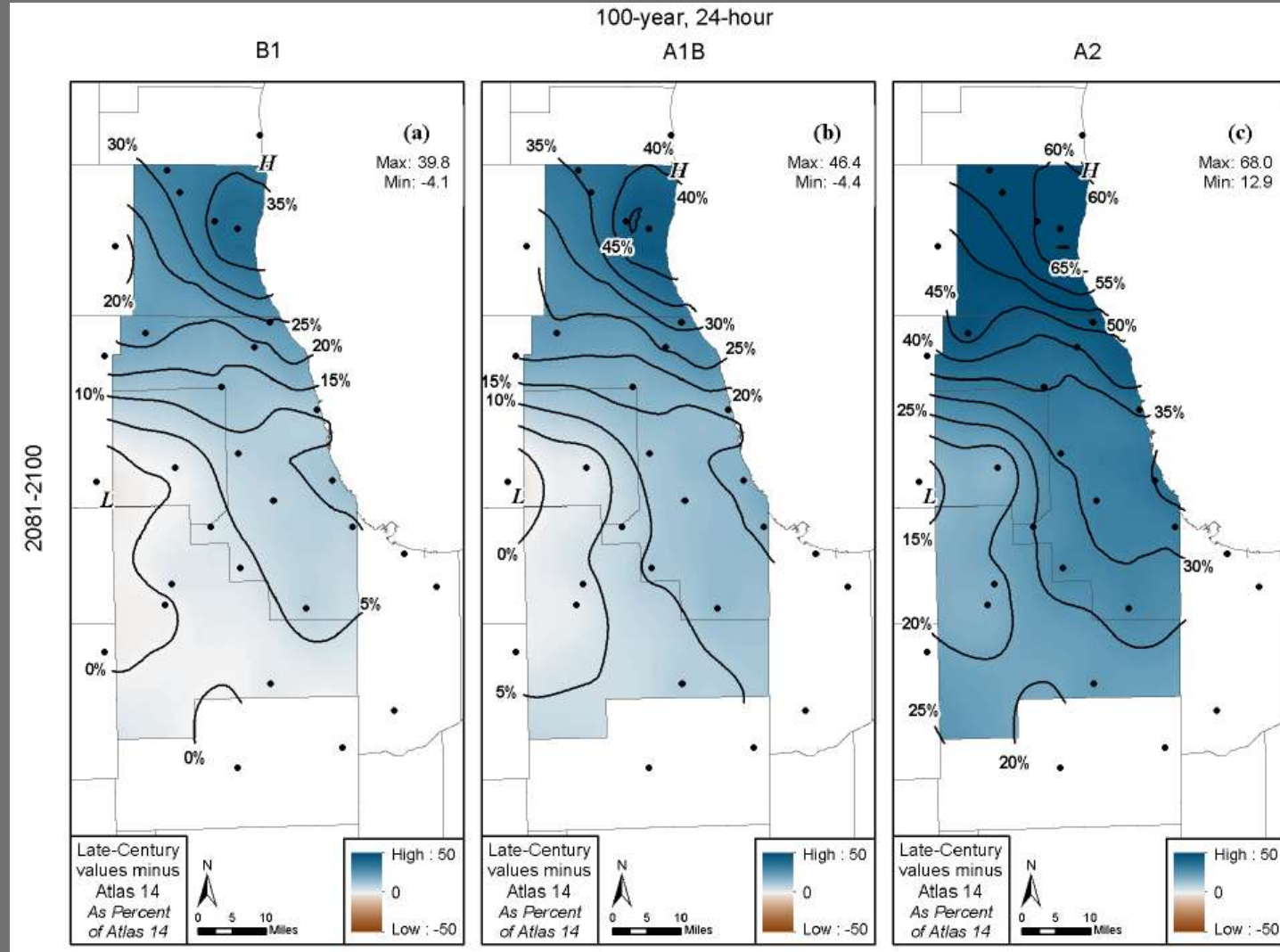
## Impacts of Potential Future Climate Change on the Expected Frequency of Extreme Rainfall Events in Cook, DuPage, Lake and Will Counties in Northeastern Illinois

Monicilo Markus, James Angel, Kexuan Wang, Gregory Byard, Sally McConkey, Zoe Zakoudek

Illinois State Water Survey  
Prairie Research Institute  
University of Illinois at Urbana-Champaign  
Champaign, Illinois



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