

# U.S. Army Corps of Engineers Levee Safety Program

## National Levee Database



US Army Corps of Engineers  
**BUILDING STRONG**®



# WRDA 2007

## ▶ “SEC. 9004. INVENTORY AND INSPECTION OF LEVEES.

### ▶ (a) LEVEE DATABASE.—The database shall include—

- (A) Location information of all Federal levees in the Nation (including global information system information) and,
- For non-Federal levees, such information on levee location as is provided to the Secretary by State and local governmental agencies;
- (B) utilizing such information as is available, the general condition of each levee; and
- (C) An estimate of the number of structures and population at risk and protected by each levee that would be adversely impacted if the levee fails or water levels exceed the height of the levee.



# National Levee Database

## 3.0 Data Model



# NLD 3.0

- NLD 3.0 incorporates the needs of the nation (Federal Governments, State Governments, and Public Entities) as it pertains to a national levee inventory
- NLD 3.0 contains:
  - ▶ 21 Graphic Features
  - ▶ 15 Non-graphic Tables
  - ▶ 46 Domain Tables
  - ▶ Over 450 attributes
- SDEFIE Compliant



# NLD 3.0 Data Model

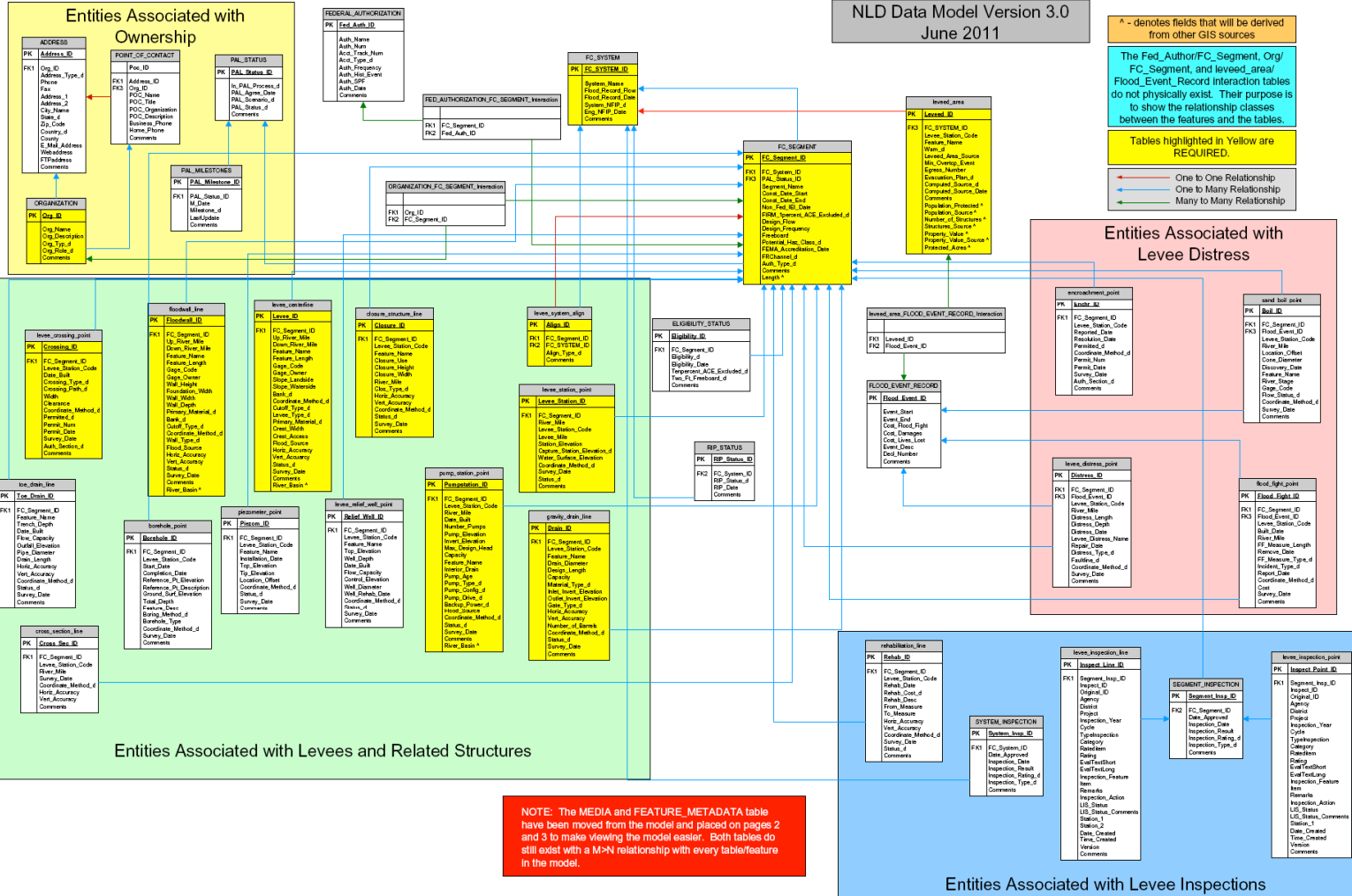
NLD Data Model Version 3.0  
June 2011

\* - denotes fields that will be derived from other GIS sources

The Fed\_Author/FC\_Segment, Org/FC\_Segment, and leveed\_area/Flood\_Event\_Record interaction tables do not physically exist. Their purpose is to show the relationship classes between the features and the tables.

Tables highlighted in Yellow are REQUIRED.

One to One Relationship  
One to Many Relationship  
Many to Many Relationship



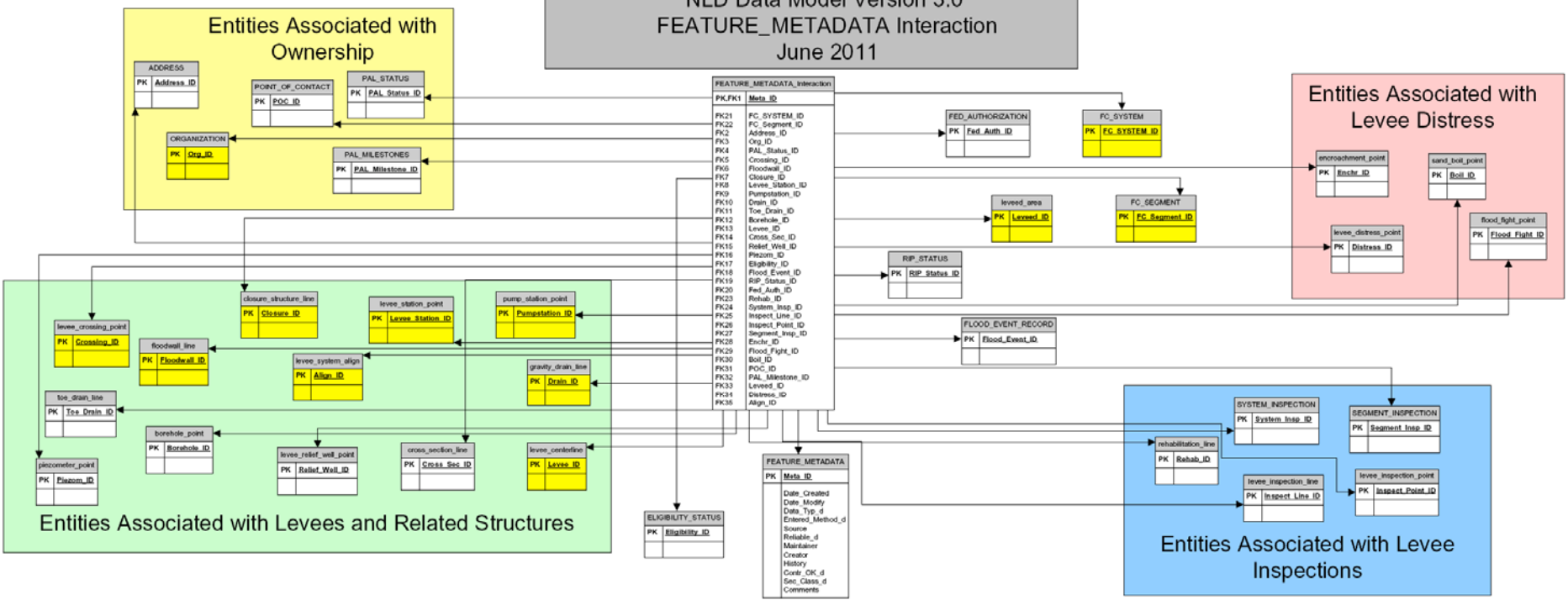
NOTE: The MEDIA and FEATURE\_METADATA table have been moved from the model and placed on pages 2 and 3 to make viewing the model easier. Both tables do still exist with a M>N relationship with every table/feature in the model.



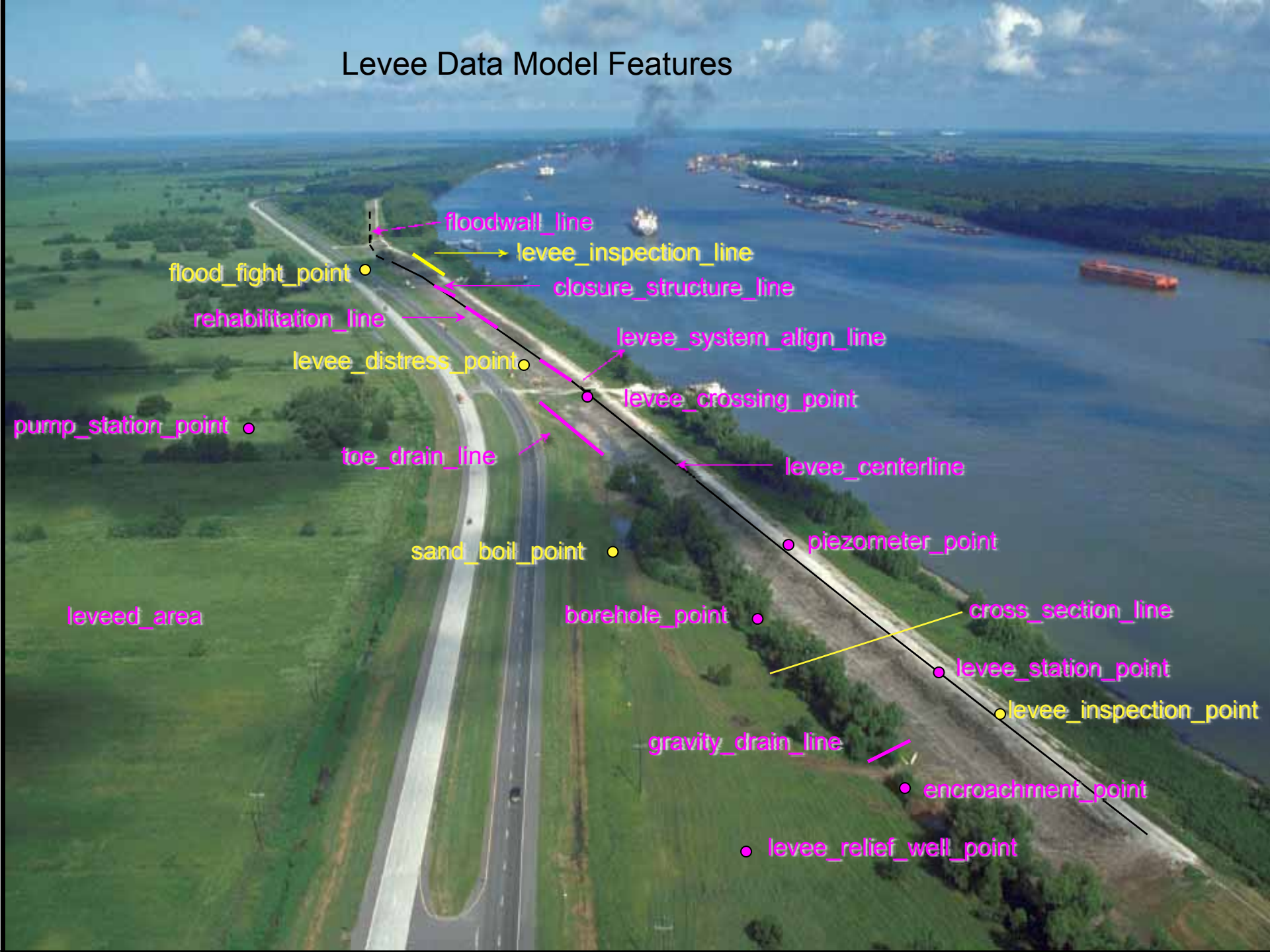


# NLD 3.0 Feature Metadata Data Model

NLD Data Model Version 3.0  
FEATURE\_METADATA Interaction  
June 2011



# Levee Data Model Features



floodwall\_line

levee\_inspection\_line

closure\_structure\_line

flood\_fight\_point

rehabilitation\_line

levee\_system\_align\_line

levee\_distress\_point

levee\_crossing\_point

pump\_station\_point

toe\_drain\_line

levee\_centerline

sand\_boil\_point

piezometer\_point

leveed\_area

borehole\_point

cross\_section\_line

levee\_station\_point

levee\_inspection\_point

gravity\_drain\_line

encroachment\_point

levee\_relief\_well\_point

# NLD Data Dictionary

- Microsoft Excel Workbook
- Explains each feature and non-graphic table as well as the attributes (data type, length), domains, domain values, relationships, and definitions

Microsoft Excel - NLD\_Data Dictionary\_version\_3.0\_04082010.xls

	A	B	C	D	E	F
1	<b>Table Name</b>	FC_SYSTEM				
2	<b>Table Definition</b>	This table contains information regarding the Flood Control System. Flood Control System is made up of one or more flood control segments which collectively provide protection to a defined area. Failure of one segment within a system constitutes failure of the entire system. Failure of one system does not affect another system.				
3						
4	<b>Attribute Name</b>	<b>Data Type</b>	<b>Char Length</b>	<b>Domain Table</b>	<b>Common Name</b>	<b>Definition</b>
5	FC_System_ID	D			Primary Key Identifier	Primary Key. A unique, user defined identifier for each record or instance of an entity.
6	System_Name	C	75		System Name	General identification of Flood Control System
7	Flood_Record_Flow	D			Flood of Record	The flood of record flow for levee system.
8	Flood_Record_Date	Date			Flood of Record Date	The date of the flood of record.
9	Comments	C	255		Comments Text	A description or other unique information concerning the subject item.
10						
11						
12	<p><b>Notes:</b> This table is an aggregation of Flood Control Segments that relates to a potential consequence zone. Table links to the FC_SEGMENT and SYSTEM_INSPECTION table with a one to many relationship, to the MEDIA table with a many to many relationship, and to the potential_consequence_zone with a one to one relationship. There will be an association/intersect table to provide the linkage from the FC_SYSTEM to the MEDIA table.</p>					
13						





# Feature Description:

- Feature: levee\_centerline
- Primary Key (PK): Levee\_ID
- Foreign Key (FK):  
FC\_Segment\_ID (aka Segment)
- \_d: Indicates Domain Attribute  
(pick list of values)

levee_centerline	
PK	<u>Levee_ID</u>
FK1	FC_Segment_ID Up_River_Mile Down_River_Mile Feature_Name Feature_Length Gage_Code Gage_Owner Slope_Landside Slope_Waterside Bank_d Coordinate_Method_d Cutoff_Type_d Levee_Type_d Primary_Material_d Crest_Width Crest_Access Flood_Source Horiz_Accuracy Vert_Accuracy Status_d Survey_Date Comments River_Basin ^



# National Levee Database Public View

All Leveed Areas are approximate.

**National Levee Database - Interactive Map**

Layers

Expand All Collapse All All Off Redraw

- ESRI ArcOnline Services
  - NLD
    - Levee Borehole
    - Levee Centerline
    - Levee Closure Structure
    - Levee Crossing
    - Levee Cross Section
    - Levee Encroachment
    - Levee Flood Wall
    - Levee Gravity Drain
    - Levee Piezometer
    - Leveed Area
    - Levee Pump Station
    - Levee Rehabilitation
    - Levee Relief Well
    - Levee Station
    - Levee Toe Drain
- USACE Civil Works
- Federal

AR Off SV Off OV Off TF Off CS Dist Area Leveed Area -89.32297, 29.94661 LL (WGS84)

Imagery ©2012 - Terms of Use

- >3,098 Segments and >2,335 systems
- Known miles today = 14,540
- Miles Completed = 13,925 = 96%
- Miles under contract = 615. = 4%



# Getting Data In – Non USACE

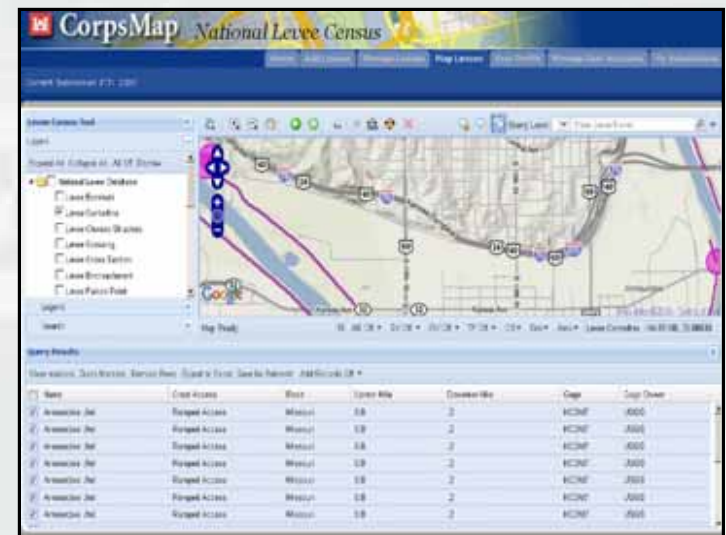
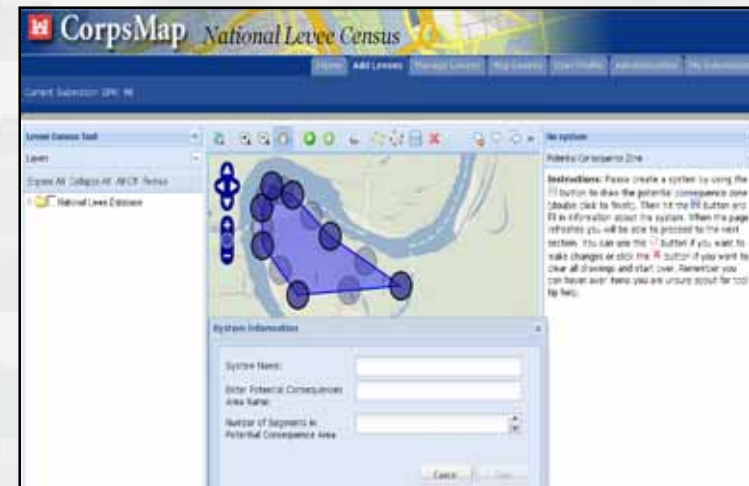


# Data Management Tool

Developed as a tool to allow external stakeholders the ability to contribute and manage their levee data to establish a comprehensive levee inventory

- **Target State**

- ▶ Real-time data integration with NLD
- ▶ Allow users to import levee data from existing data sets (e.g., .shp, excel, and PGDB files)
- ▶ Provide auditing and change management capability for user submissions
- ▶ Standardized review/approval process






# Data fields slide/ Minimum Requirements

- Leveed Area (Polygon)
- Leveed Area Name
- System Name
- Number of Segments in System
- Segment Name
- Authorization Type
- Owner/Contact (replaces Sponsor)
- Segment(s) length(s)



# National Levee Database

## http://nld.usace.army.mil



US Army Corps of Engineers

National Levee Database

[Feedback](#) [Login](#)

[Home](#) [Reports](#) [Maps](#) [Help](#) [About NLD](#) [Contact Us](#)

### Welcome to the National Levee Database

The National Levee Database (NLD), developed by the U.S. Army Corps of Engineers (USACE), is the focal point for comprehensive information about our nation's levees. Authorized by Congress in 2007, the database contains information to facilitate and link activities, such as flood risk communication, levee system evaluation for the National Flood Insurance Program (NFIP), levee system inspections, flood plain management, and risk assessments. The NLD continues to be a dynamic database with ongoing efforts to add levee data from federal agencies, states, and tribes.

Here is what is available in the NLD:

- Majority of levees located within the USACE Levee Program
- Reports on levees in the NLD located within your state, zip code, or address
- Various federal database resources integrated into NLD such as the National Weather Service
- Feedback link for you to provide comments on the NLD
- Contact Us tab if you need assistance or have questions

**▲ Please Note: The NLD currently contains the majority of levees within the USACE program. The NLD does not contain all levees located in the United States.**


<b>Maps</b> Search and view levees using the interactive map	<b>Help</b> Download user manuals, quick guides and videos on how best to use the NLD
<b>About NLD</b> View presentations, documents on the rollout of the NLD	<b>Contact Us</b> Please contact us for assistance with the NLD.

### Reports

View searchable reports depicting levee system and segment information


**Simple Reporting**

Search for NLD levee data by specified search criteria



**Advanced Reporting**


Navigate through customized reports



**Find Levees Near Me**

Zip Code

Distance  miles





# Access Code Required...

- Information on critical infrastructure
  - ▶ Inspection Reports
  - ▶ Distress Points on levees
  - ▶ Details on any deficiencies
- Ability to aggregate certain data/reports
  - ▶ Make more difficult to collect data into single report
- Access to FOUO/Agency Information




# National Levee Database (NLD) Reports/Mapping





# NLD Public Access

## http://nld.usace.army.mil



### US Army Corps of Engineers

Home Reports Maps Help About NLD Contact Us

Feedback Login

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# National Levee Database

## http://nld.usace.army.mil

The screenshot shows the homepage of the National Levee Database. At the top, there is a banner with the US Army Corps of Engineers logo and the text "US Army Corps of Engineers". To the right of the banner, it says "National Levee Database" and includes user information "U4RT9MH9", a "Feedback" link, and a "Logout" link. Below the banner is a navigation menu with links for "Home", "Reports", "Maps", "Help", "Feedback", "About NLD", and "Contact Us".

The main content area is titled "Welcome to the National Levee Database". It contains a paragraph about the NLD, a list of available resources, and four quick links: "Maps", "Help", "About NLD", and "Contact Us".

A red-bordered box contains a warning: **Please Note: The NLD currently contains the majority of levees within the USACE program. The NLD does not contain all levees located in the United States.**

Below this is a "Reports" section with three options: "Simple Reporting", "Advanced Reporting", and "Find Levees Near Me". The "Find Levees Near Me" option is circled in red and includes a search form with fields for "Zip Code" and "Distance" (in miles), and a "Submit" button.



# Find a Levee Near Me

National Levee Database



US Army Corps of Engineers

[Feedback](#) [Login](#)

[Home](#) [Reports](#) [Maps](#) [Help](#) [About NLD](#) [Contact Us](#)

## Find Levees Near Me

Zip Code

Distance  miles



Actions

	System Name	Cong. District	State	County	FEMA Region	Segments	Length (Miles)	Map Url	Inspection Type	Inspection Rating	Inspection Date
	<a href="#">NEDOUG16 - Big Papio LB - Copper Cr to Big Elk Cr</a>	Nebraska - 02	Nebraska	Sarpy County	Region 7	1	2.8358		Routine	MINIMALLY ACCEPTABLE	27-AUG-10
	<a href="#">Big Papio LB - West Center to L St</a>	Nebraska - 02	Nebraska	Douglas County	Region 7	1	.6214		Routine	MINIMALLY ACCEPTABLE	14-SEP-10
	<a href="#">L-601 - Watkins Ditch RB - Watkins DD</a>	Iowa - 05	Iowa	Mills County	Region 7	1	3.2615		Routine	MINIMALLY ACCEPTABLE	14-MAY-08
	<a href="#">L-611-614 - Upper Pony Creek LB &amp; Lat 1B RB</a>	Iowa - 05	Iowa	Pottawattamie County	Region 7	1	2.2927		Routine	MINIMALLY ACCEPTABLE	13-JUL-09
	<a href="#">R-616-613 - MO Riv RB &amp; Papillion Cr LB</a>	Nebraska - 02	Nebraska	Sarpy County	Region 7	2	9.6681		Routine	MINIMALLY ACCEPTABLE	08-SEP-08
	<a href="#">Little Papio RB &amp; Big Papio LB</a>	Nebraska - 02	Nebraska	Douglas County	Region 7	2	1.2483		Routine	MINIMALLY ACCEPTABLE	27-AUG-10
	<a href="#">NEDOUG16 - Big Papio RB - 36th St to Whitted Cr</a>	Nebraska - 02	Nebraska	Sarpy County	Region 7	1	3.8175		Routine	MINIMALLY ACCEPTABLE	27-AUG-10
	<a href="#">L-594-601</a>	Iowa - 05	Iowa	Fremont County, Mills County	Region 7	4	14.5058		Routine	MINIMALLY ACCEPTABLE	21-SEP-10
	<a href="#">NESARP64 - West Papio RB - 96th-Big Papio</a>	Nebraska - 02	Nebraska	Sarpy County	Region 7	1	5.1541		Routine	MINIMALLY ACCEPTABLE	12-OCT-10
	<a href="#">NEDOUG16 - Big Papio LB - Betz Ditch to Capehart</a>	Nebraska - 02	Nebraska	Sarpy County	Region 7	1	1.834		Routine	ACCEPTABLE	27-AUG-10



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# NLD Authenticated Access

The screenshot shows the National Levee Database (NLD) website. At the top right, it says "National Levee Database". Below that is the "US Army Corps of Engineers" logo and name. A navigation menu includes "Home", "Reports", "Maps", "Help", "About NLD", and "Contact Us". There are "Feedback" and "Login" buttons in the top right corner. The main content area has a "Welcome to the National Levee Database" section with a paragraph of text and a list of available features. To the right are four service boxes: "Maps", "Help", "About NLD", and "Contact Us". Below this is a "Reports" section with three options: "Simple Reporting", "Advanced Reporting", and "Find Levees Near Me". A red-bordered box contains a warning note. The bottom right corner features the USACE logo and the slogan "BUILDING STRONG".

National Levee Database

US Army Corps of Engineers

Feedback Login

Home Reports Maps Help About NLD Contact Us

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# NLD Authenticated Access

National Levee Database

US Army Corps of Engineers

Feedback Logout

**U.S. ARMY CORPS OF ENGINEERS  
NATIONAL LEVEE DATABASE  
FEDERAL, STATE OR LOCAL GOVERNMENT  
NON-DISCLOSURE AGREEMENT**

1. These provisions govern the use and distribution of the National Levee Database(NLD) information maintained by the U.S. Army Corps of Engineers (USACE) provided to a government (federal, state or local) agency Requester who requests internet access to the NLD.
2. Definitions - For purposes of these provisions:
  - a. The terms "Non-Disclosure Agreement" and "NDA" mean this agreement by which requesters certify their understanding that access to the NLD is provided pursuant to the terms and restrictions of these provisions, and those such requesters have read the provisions and agree to be bound by them.
  - b. The term "Recipient" means someone who receives NLD data in accordance with the provisions of this Non-Disclosure Agreement.
  - c. The term "government agency Requester" means someone who requests access to the NLD as an employee of a Federal, State or Local government.
3. A government agency Requester shall not be permitted to gain access or view the NLD unless the government agency Requester has first agreed to the Government Agency Non-Disclosure Agreement.
4. Any information provided under this agreement is on loan to the Government agency, and must be returned to USACE upon request. This information is not the property of the government agency and is not subject to any Freedom of Information/Public Records acts or similar statutes. The Recipient agrees to notify the USACE NLD Manager immediately upon receipt of a request for the information provided under this agreement.
5. A Recipient may only discuss the NLD government-restricted fields with other government agencies that have agreed to this NLD Non-Disclosure Agreement. The Recipient may check with the NLD Manager to determine whether another individual or government agency has previously agreed to this NDA.
6. All NLD information shall be maintained by Recipient in a secure place. The Recipient may only share public NLD information on a levee by levee basis. The Recipient shall coordinate with the NLD Manager before placing any NLD information on the internet for public and/or government access. If Recipient receives request for NLD information from outside Recipient's government agency, please direct the request to the NLD Manager and NLD web site.
7. Recipients must destroy/remove or delete NLD data within fifteen days of an email request by the NLD Manager to do so. Within such time period, each Recipient, if requested to do so, shall also submit to the NLD Manager a statement saying that, to the best of its knowledge, all NLD data has been destroyed or removed from the Recipient agency's computers.
8. The Recipient remains bound by these provisions unless the NLD Manager or USACE rescinds the provisions.
9. The USACE may audit the Recipient's compliance with this non-disclosure agreement.
10. Violation of this non-disclosure agreement may result in criminal or civil sanctions against the Recipient.
11. I hereby certify my understanding that access to National Levee Database (NLD) is provided to me pursuant to the terms and restrictions of the above government agency NLD provisions, that I have been given a copy of and have read the government agency NLD provisions, and that I agree to be bound by them. I understand that the contents of the NLD government-restricted fields may only be disclosed within my government agency. I may only share public NLD information on a levee by levee basis. I acknowledge that a violation of this agreement may result in negative consequences, including criminal or civil sanctions.

By clicking here I agree to the above conditions.

Accept





# US Army Corps of Engineers

National Levee Database

[U4RT98B9](#)
[Feedback](#)
[Logout](#)

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- [Reports](#)
- [Maps](#)
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## Leveed Area Consequence Assessment Report

Reports 1. Primary Report

Division	Organization	FEMA Region	Cong. District	State	County	System Name	Population at Risk	Total Building Count	Residential Buildings	Total Building Value (1000s)	Residential Building Value (1000s)	Building Content Value (1000s)	Residential Content Value (1000s)	Total Structure Value (1000s)	Value of All Vehicles	Number of Day Vehicles	Value of Day Vehicles	Number of Night Vehicles	Value of Night Vehicles	Levee Area Acres
NORTHWESTERN	OMAHA	Region 8	North Dakota - 00	North Dakota	Morton County	Mandan - Lower Heart River LB North	4014	2220	2037	236382	145059	167190	72699	403571	73932	4927	38091	4613	35841	929.
NORTHWESTERN	OMAHA	Region 7	Iowa - 05	Iowa	Woodbury County	Little Sioux LB - Bennet-Smithland	0	7	5	665	339	497	171	1162	50	2	15	5	34	804.
NORTHWESTERN	OMAHA	Region 7	Iowa - 05	Iowa	Monona County	Little Sioux LB - Nagel DD South	14	6	5	668	482	428	241	1096	91	3	24	9	67	2907.
NORTHWESTERN	OMAHA	Region 7	Iowa - 05	Iowa	Monona County, Woodbury County	Little Sioux LB - Nagel DD North	9	5	4	480	372	297	188	777	69	1	6	8	63	2730.
NORTHWESTERN	OMAHA	Region 7	Iowa - 05	Iowa	Monona County	Little Sioux LB & Maple River RB - Intercounty	88	40	35	4724	3864	2796	1936	7519	1064	60	490	72	574	3449.
NORTHWESTERN	OMAHA	Region 7	Iowa - 05	Iowa	Monona County	Little Sioux Wolf Cr RB & W Fork LB - Intercounty	4	10	9	425	345	256	175	681	46	0	0	6	46	6369.
NORTHWESTERN	OMAHA	Region 7	Iowa - 05	Iowa	Monona County	Little Sioux West Fork Ditch RB - Intercounty	6	7	6	749	334	583	168	1332	49	2	15	5	35	990.
NORTHWESTERN	OMAHA	Region 7	Iowa - 05	Iowa	Monona County	Little Sioux LB - Nagel and Intercounty DD	9	2	1	223	210	118	105	342	122	8	70	6	52	1430.
NORTHWESTERN	OMAHA	Region 7	Iowa - 05	Iowa	Monona County, Woodbury	Little Sioux & Wolf Creek	125	82	70	10315	6085	7392	3055	17707	1973	111	938	122	1034	11096.



## System Detail Report




Go

Actions

 Organization contains 'Kansas City'  
 State = 'Missouri'  

FRF

	Division	Organization	FEMA Region	Cong. District	State	County	System Name	FC System ID	Segments	Min Overtopping Event	Flood of Record	Flood of Record Date	Egress Locations	Warning System	Leveed Area Source	Leveed Area Name
	NORTHWESTERN	KANSAS CITY	Region 7	Missouri - 09	Missouri	Boone County	<a href="#">Hartsburg Levee District, Section 1</a>	3605000000	1	5	755000	29-JUL-93	1	No	Other	Hartsburg Levee District, Section 1
	NORTHWESTERN	KANSAS CITY	Region 7	Missouri - 04, Missouri - 06	Missouri	Lafayette County, Saline County	<a href="#">Ben Brown and M W Jenkins</a>	3605000200	1	-	-	-	-	No	Other	Ben Brown and M W Jenkins
	NORTHWESTERN	KANSAS CITY	Region 7	Missouri - 04, Missouri - 06	Missouri	Carroll County	<a href="#">Wakenda Levee District</a>	3605000001	4	10	633000	27-JUL-93	-	No	Other	Wakenda
	NORTHWESTERN	KANSAS CITY	Region 7	Missouri - 09	Missouri	Callaway County	<a href="#">Mokane Levee District</a>	3605000003	1	5	750000	31-JUL-93	15	No	Other	Mokane Levee District
	NORTHWESTERN	KANSAS CITY	Region 7	Missouri - 04	Missouri	Saline County	<a href="#">Miami Levee District No. 1</a>	3605000004	1	5	633000	27-JUL-93	0	No	Other	Miami Levee District No. 1
	NORTHWESTERN	KANSAS CITY	Region 7	Missouri - 06	Missouri	Buchanan County	<a href="#">MRLS 455-L</a>	3605000006	1	100	335000	26-JUL-93	9	No	Other	MRLS 455-L
	NORTHWESTERN	KANSAS CITY	Region 7	Missouri - 04, Missouri - 06	Missouri	Carroll County, Ray County	<a href="#">Baltimore Bend Levee District</a>	3605000007	6	10	633000	27-JUL-93	-	No	Other	Baltimore Cherry Miles Ray Henrietta Crooked





▲ All Leveed Areas are approximate.

**National Levee Database - Interactive Map**

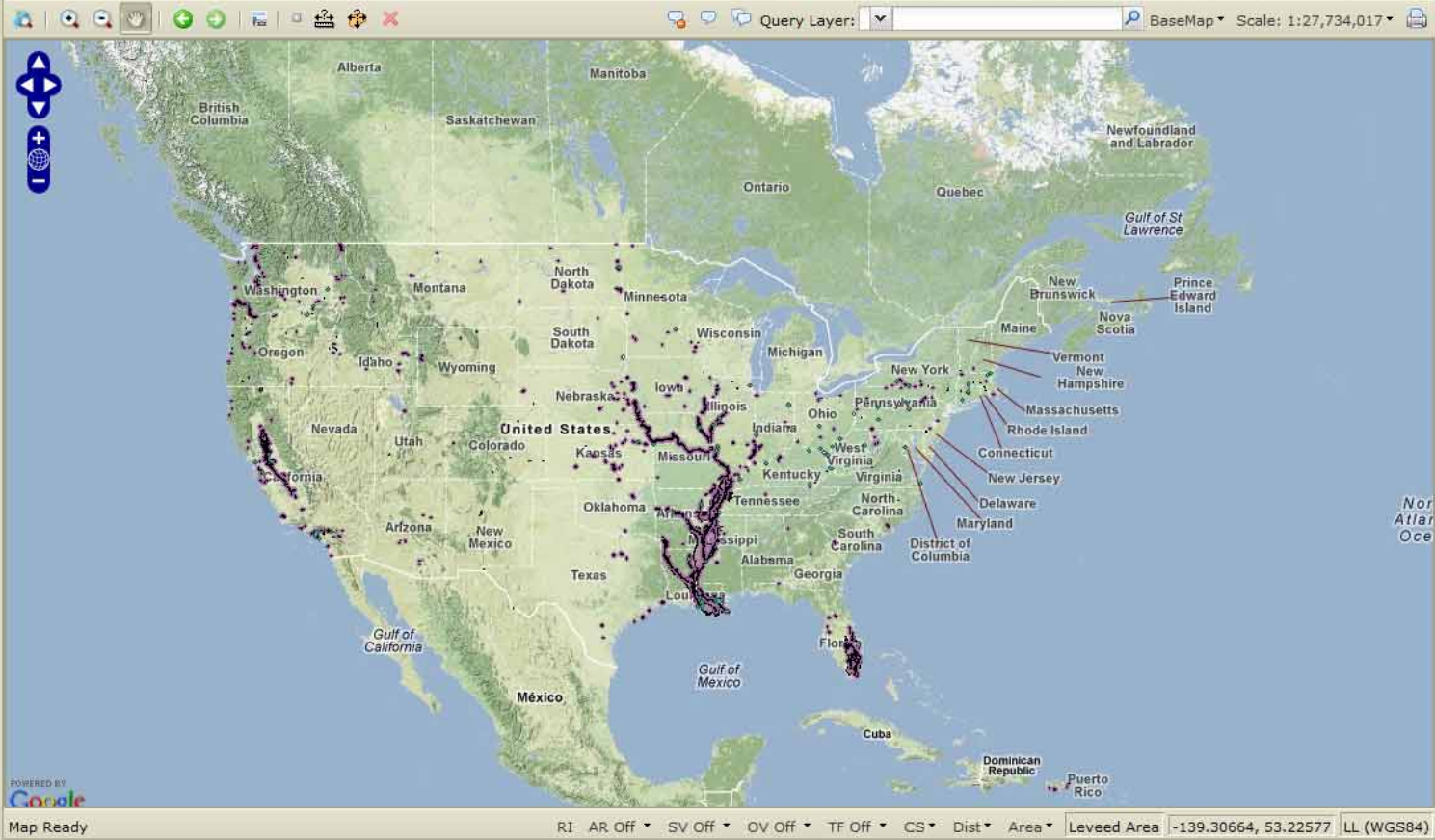
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Expand All Collapse All All Off Redraw

- ESRI ArcOnline Services
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    - Levee Toe Drain
- USACE Civil Works
- Federal
- Imagery
- Real Time Weather
- Precipitation Accumulation
- FEMA
- NRCS Web Services
- US FWS Web Services

Legend

Search



FOR OFFICIAL USE ONLY





⚠ All Leveed Areas are approximate.

**National Levee Database - Interactive Map**

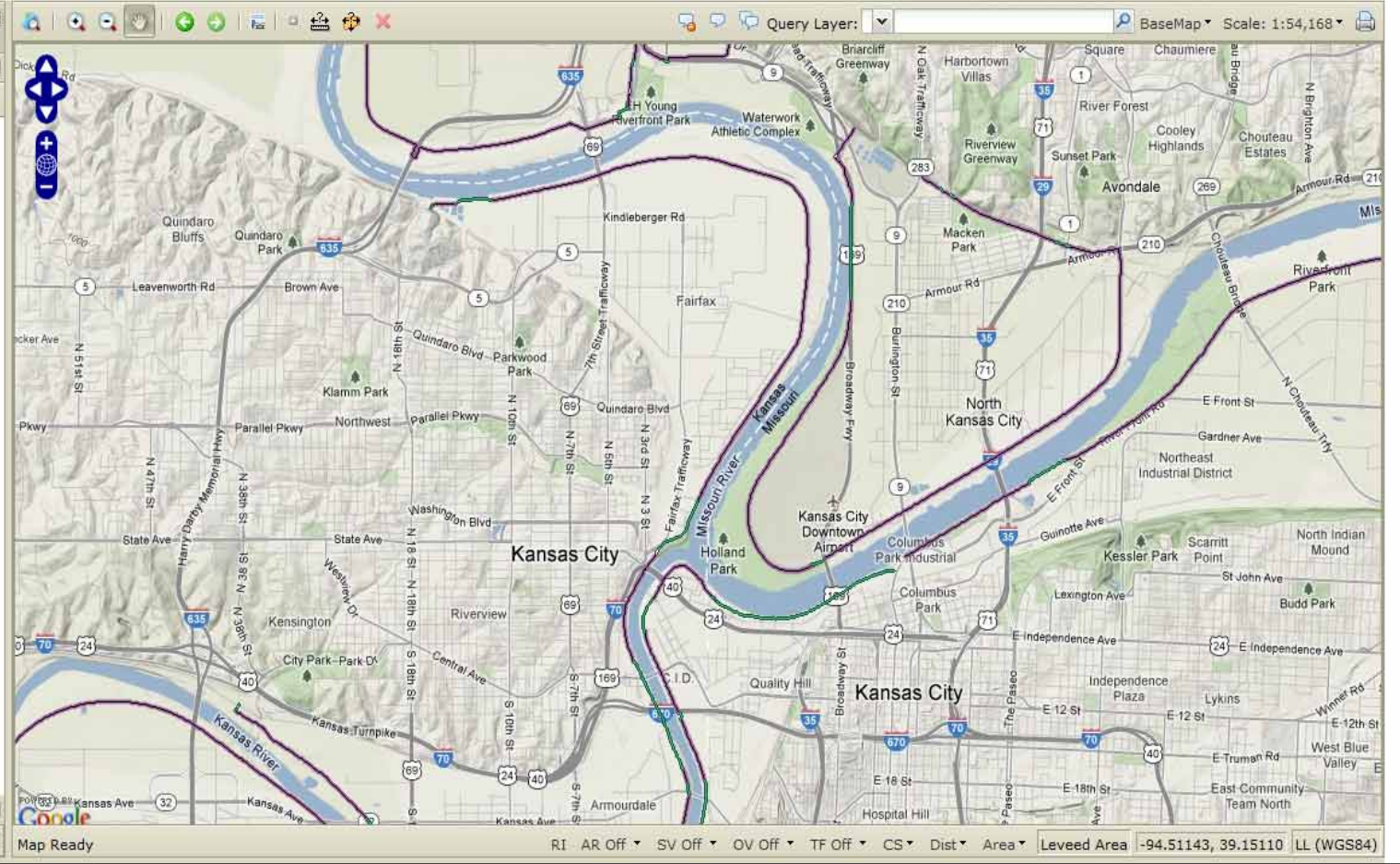
Layers

Expand All Collapse All All Off Redraw

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- FEMA
- NRCS Web Services
- US FWS Web Services
- EPA Web Services
- USGS Web Services

Legend

Search





⚠ All Leveed Areas are approximate. ✕

**National Levee Database - Interactive Map**

Layers

Expand All Collapse All All Off Redraw

- ESRI ArcOnline Services
  - NLD
    - Levee Borehole
    - Levee Centerline
    - Levee Closure Structure
    - Levee Crossing
    - Levee Cross Section
    - Levee Encroachment
    - Levee Flood Wall
    - Levee Gravity Drain
    - Levee Piezometer
    - Leveed Area
    - Levee Pump Station
    - Levee Rehabilitation
    - Levee Relief Well
    - Levee Station
    - Levee Toe Drain
- USACE Civil Works
- Federal
- Imagery
- Real Time Weather
- Precipitation Accumulation
- FEMA
- NRCS Web Services
- US FWS Web Services
- EPA Web Services
- USGS Web Services

Legend

Search

Query Layer: ▾ BaseMap Scale: 1:54,168

Map Ready

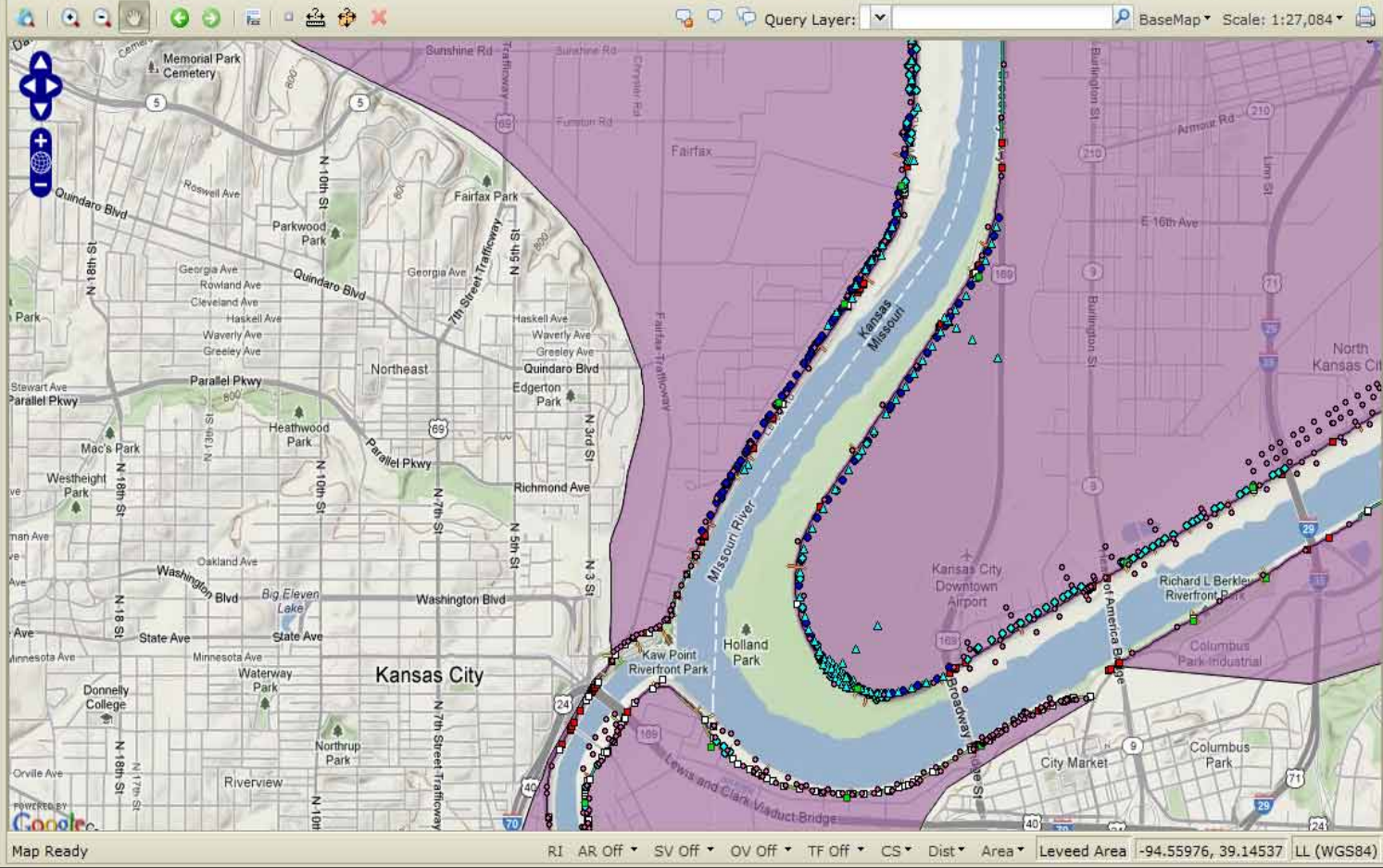
RI AR Off SV Off OV Off TF Off CS Dist Area Leveed Area -94,53409, 39.16041 LL (WGS84)



⚠ All Leveed Areas are approximate. ✕

National Levee Database - Interactive Map

- Layers
- Legend
- Borehole
  - ▬ Rehabilitation Line
  - Pump Station
  - ▲ Piezometer
  - Levee Encroachment
  - Levee Station
  - Levee Relief Well
  - Levee Crossing
  - ▬ Toe Drain
  - ▬ Gravity Drain
  - ▬ Flood Wall
  - ▬ Cross Section
  - ▬ Closure Structure
  - ▬ Levee Centerline
  - Leveed Area





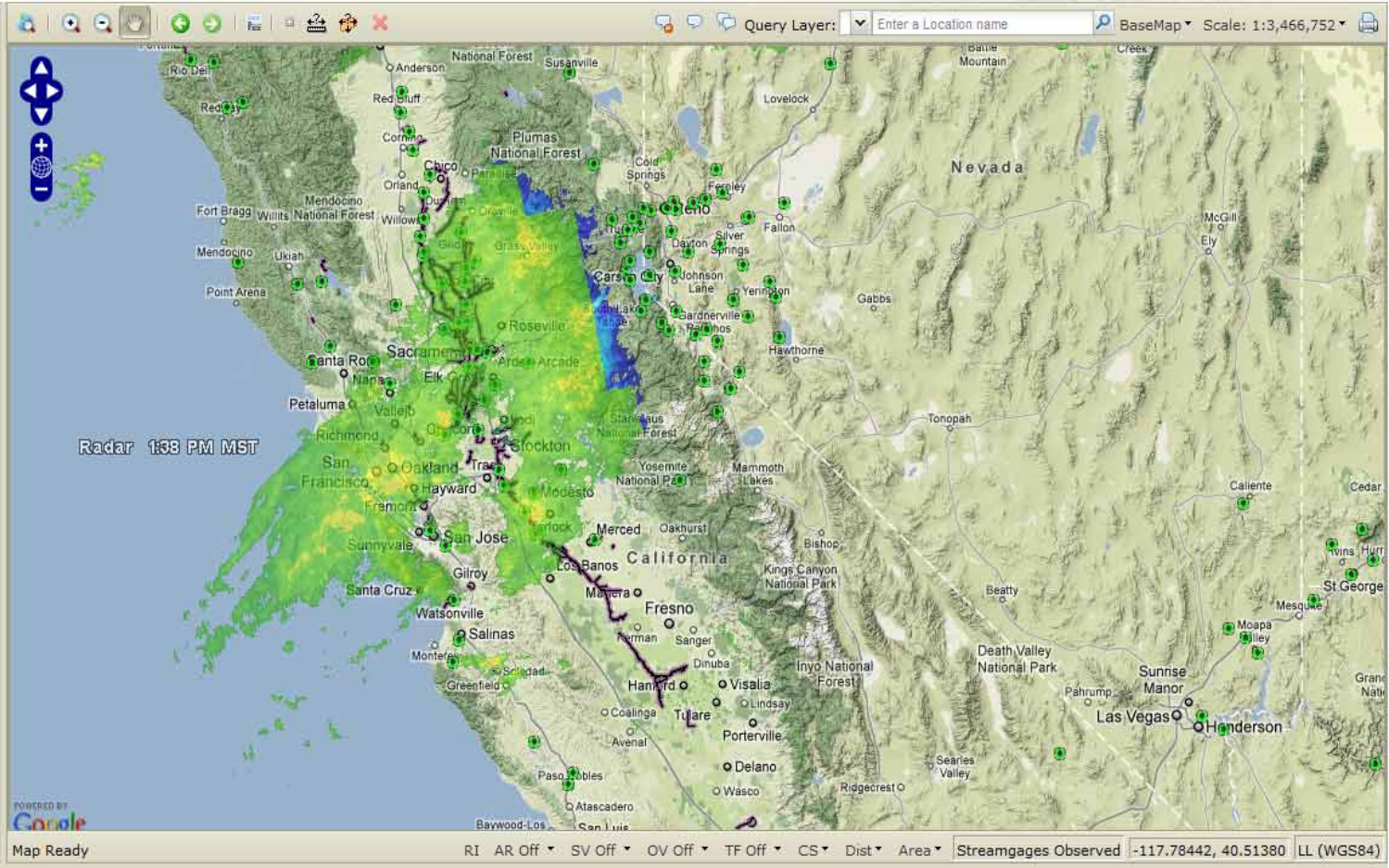
⚠ All Leveed Areas are approximate. ✕

**National Levee Database - Interactive Map**

Layers

Legend

- NOAA AHPS Observed
- Major Flooding
- Moderate Flooding
- Minor Flooding
- Near Flood Stage
- No Flooding
- Obs. > 24 hrs
- Flood Wall
- Closure Structure
- Levee Centerline



# Other Sources of Information

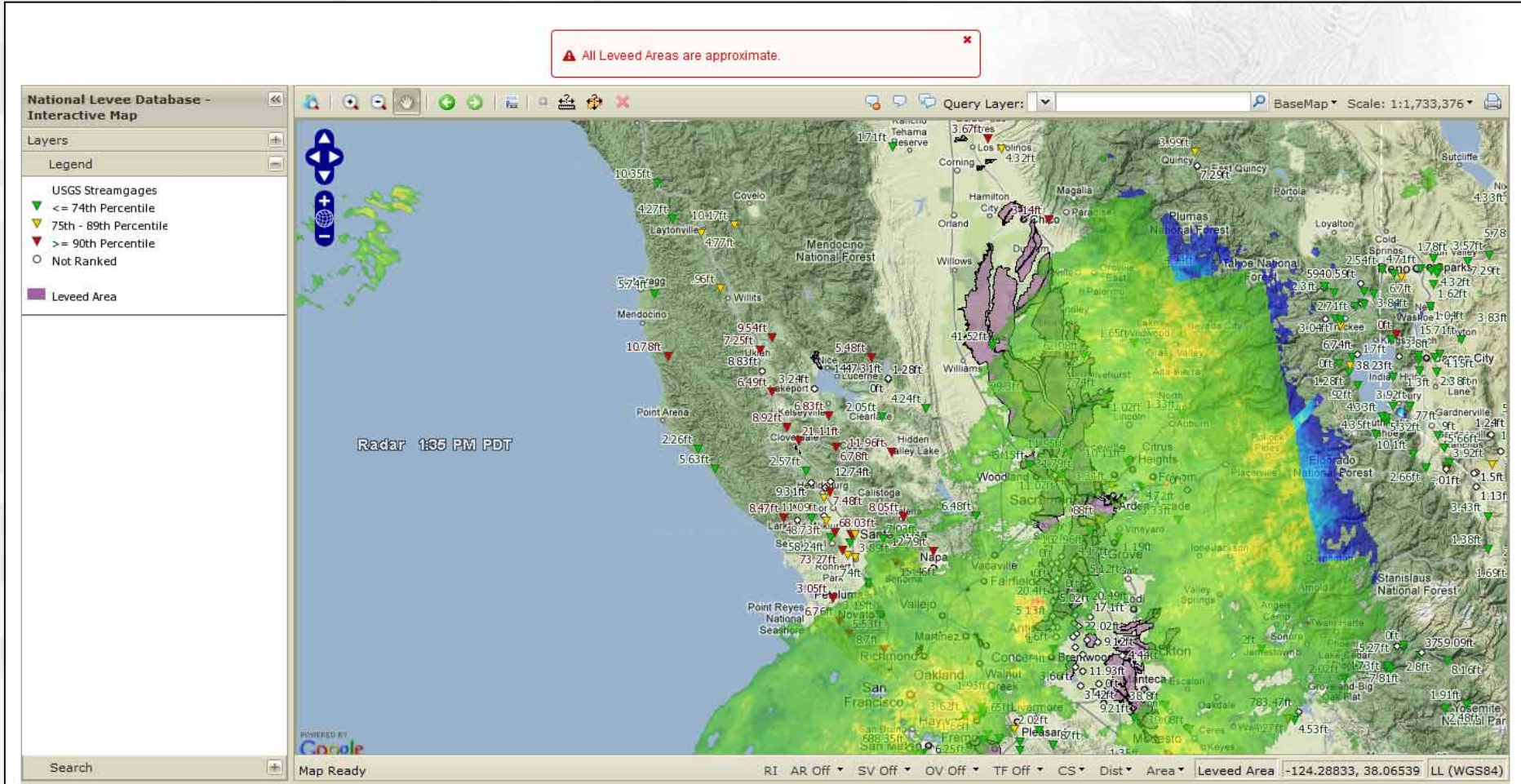
## Integration of Databases

- DOT
  - ▶ Fiber Optic Lines
  - ▶ Regional Fiber Optic Lines
  - ▶ Oil and Gas Pipeline
  - ▶ Electric Transmission Line
- EPA
  - ▶ Regulated Facilities
  - ▶ EPA Regions
- NOAA
  - ▶ Stream gages Observed
  - ▶ Steam gages Forecasted
  - ▶ River Outlook
  - ▶ Real Time Radar
- NPS
  - ▶ Historic Properties





# Real-Time Data Integration



# Data Integration with other services

**National Levee Database - Interactive Map**

Warning: All Leveed Areas are approximate.

Layers:

- ESRI ArcOnline Services
  - NLD
    - Levee Borehole
    - Levee Centerline
    - Levee Closure Structure
    - Levee Crossing
    - Levee Cross Section
    - Levee Encroachment
    - Levee Distress Point
    - Levee Flood Fight
    - Levee Flood Wall
    - Levee Gravity Drain
    - Levee Piezometer
    - Leveed Area
    - Levee Pump Station
    - Levee Rehabilitation
    - Levee Relief Well
    - Levee Sand Boil
    - Levee Station
    - Levee Toe Drain
- USACE Civil Works
- Federal
- Imagery
- Real Time Weather
- Precipitation Accumulation
- FEMA
- NRCS Web Services
- US FWS Web Services

Legend

Search

Map Ready

Query Layer: Enter Levee Name

BaseMap Scale: 1:13,542

Map Labels: Gateway Center, Natomas Corporate Center, Sutter Health, American River, Sacramento River, Yolo County Park, Riverbend Nature Area, Lighthouse Dr, West Side Hwy, Garden Hwy.

Map Controls: RI AR Off SV On OV Off TF Off CS Dist Area Levee Centerline -121.50999, 38.60178 LL (WGS84)

Google © 2012 Google Report a problem Image Date: August 2007



# Applications



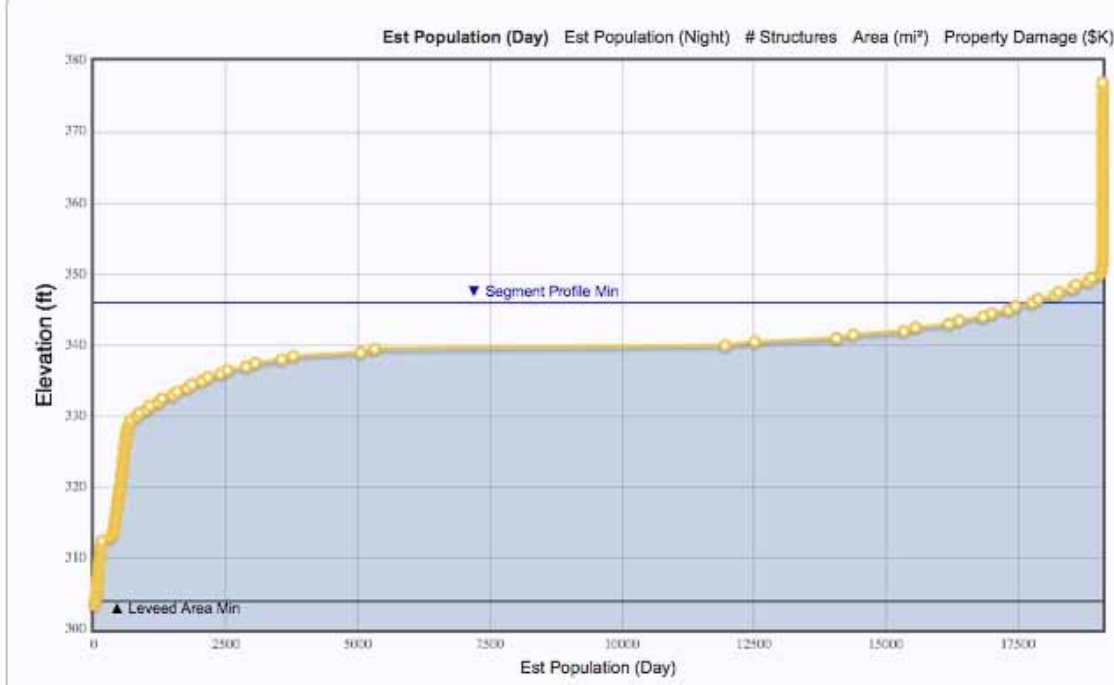
Example

Screenings and other database integrations (HSIP and HAZUS)





Elevations (NAVD88)



hide

### Data Source

Entry	Description
x NLD - Base Consequence Data Source	priority hazus

### Elevation Range

Available Range: 303.5 to 377 ft

Leveed Area Min: 304 ft

Segment Profile Min: 346 ft

System Profile Min: ft

Segment Max: ft

Toggle Data [+]

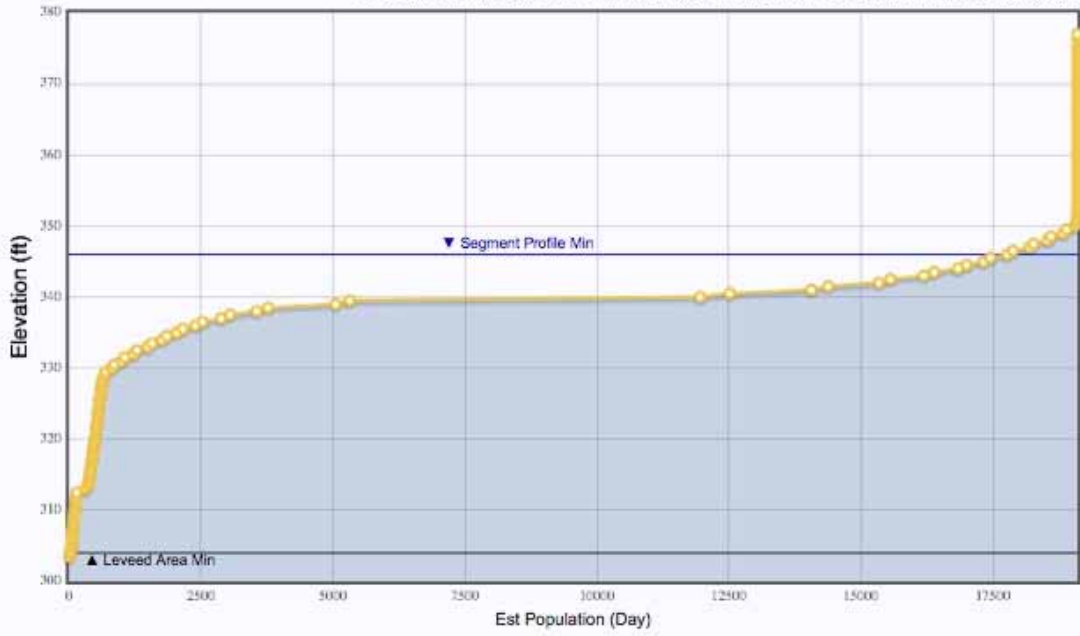


Levee Screening Tool (LST) - Levee Screening Risk Assessment 3.08 Consequences

Login :: Identify Yourself to the ... Levee Screening Tool (LST) - Le...

Most Visited Getting Started Latest Headlines USACE Pers NLD\_Com IT Web Meeting Lo... HTTP NLD Bookmarks

Est Population (Day) Est Population (Night) # Structures Area (mi²) Property Damage (\$K)



Data Source

Entry	Description
x NLD - Base Consequence Data Source	priority hazus

Elevation Range

Available Range: 303.5 to 377 ft

Leveed Area Min: 304 ft

Segment Profile Min: 346 ft

System Profile Min: ft

Segment Max: ft

Toggle Data [-]

Elevation (ft)	Est Population (Day)	Est Population (Night)	# Structures	Area (mi²)	Property Damage (\$K)
303.5	0	0	0	0	0
304	23.235912771533	31.417391517913	15.4118067978967	.04973	2843.89151782464
304.5	39.7326075348998	54.3556323703987	26.7487881240985	.097568	4924.60436018038
305	47.7599978061843	65.5461079325207	32.2962139780437	.11946	5980.40681967609
305.5	53.4076139706033	73.1067528476525	35.8387103240752	.132819	6735.05046607495
306	58.871822927288	80.6043090002913	39.5778042222221	.146757	7431.04035716563
306.5	65.3185818186635	88.6238030921869	43.6787035122072	.160656	8183.8630687203
307	70.3634346023843	95.1292525775384	46.9392882495411	.174131	8817.52248069021
307.5	76.6259509630582	103.327308446495	51.1400753085073	.186641	9582.24382844944
308	82.4580696567082	111.058801679027	55.1068196694815	.200425	10295.85435580013
308.5	87.244130450012	117.391183874797	58.3390524913756	.21278	10926.18468582415
309	91.4781480001239	123.523649063213	61.4452184297959	.226139	11486.26005889444
309.5	97.7364616152712	132.801802072873	66.0364695899861	.243089	12314.88124464404
310	107.084552584751	146.738029220952	73.2603540110635	.273359	13835.77711513771
310.5	116.222777307392	158.014969002032	79.1785461136366	.296718	15193.23080175895
311	123.770000348777	166.982560733029	83.8960255415612	.317761	16215.74308575978
311.5	130.42306334825	175.771316791177	88.4145116312794	.335753	17200.2353904987

### Critical Infrastructure Summary

Infrastructure Type ▲	# Structures	View Details
Airports	1	
Chemicals Industry	2	
Colleges and Universities	3	
Correctional Facilities	1	
Electric Generating Units	1	
Electric Substations	3	
FBI	1	
Fire Stations	2	
Hazmat Locations	1	
Hospitals	1	
Law Enforcement	3	
Museums	2	
Oil Gas Facilities	2	
Schools	9	
Sewage Treatment Facilities	2	
US Oil Gas Wells	1	

1 - 16

Comments

Cancel

### Critical Infrastructure Summary

Infrastructure Type	# Structures	View Details
Airports	1	
Chemicals Industry	2	
Colleges and Universities	3	
Correctional Facilities	1	
Electric Generating Units	1	
Electric Substations	3	
FBI	1	
Fire Stations	2	
Hazmat Locations	1	
Hospitals	1	
Law Enforcement	3	
Museums	2	
Oil Gas Facilities	2	
Schools	9	
Sewage Treatment Facilities	2	
US Oil Gas Wells	1	

1 - 16

### Infrastructure Details

Infrastructure Type	Sub-type	Name	Bounds
Law Enforcement	Paducah Police Dept. Headquarters	POLICE DEPT	
Law Enforcement	F.B.I. Paducah Resident Office	FEDERAL BUREAU OF INVESTIGATION (FBI)	
Law Enforcement	Mccracken County Sheriff's Dept. Headquarters	SHERIFFS OFFICE	

1 - 3

Comments

Current Selected Elevation: 304 feet MSL NAVD88

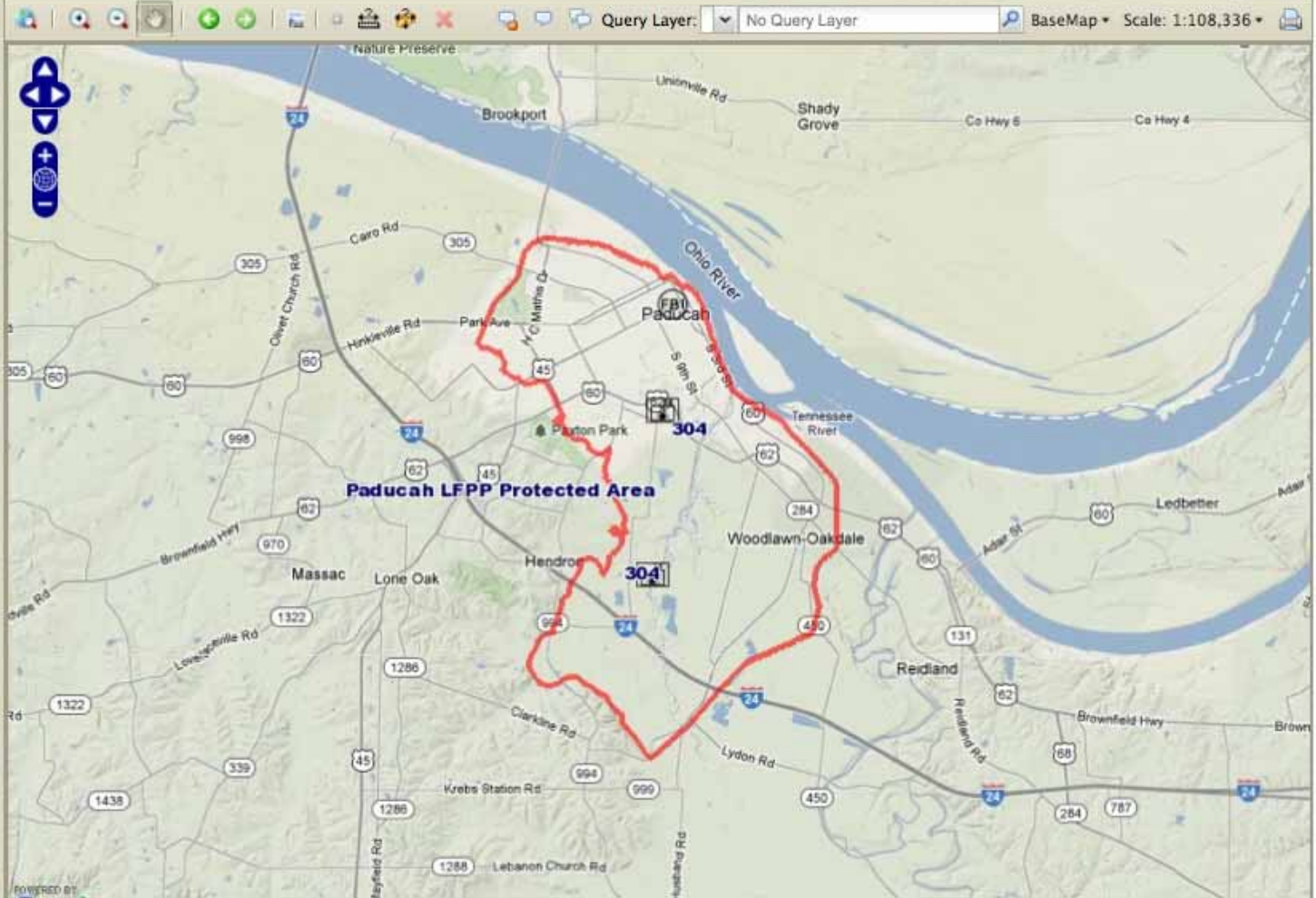
Pop-out

Levee Screening Tool - Interactive Map

Layers

Legend

- Chemical Industry
- FBI
- Current Inundation Area
- Current Leveed Area



Example

Emergency Management - Mobile





Layers

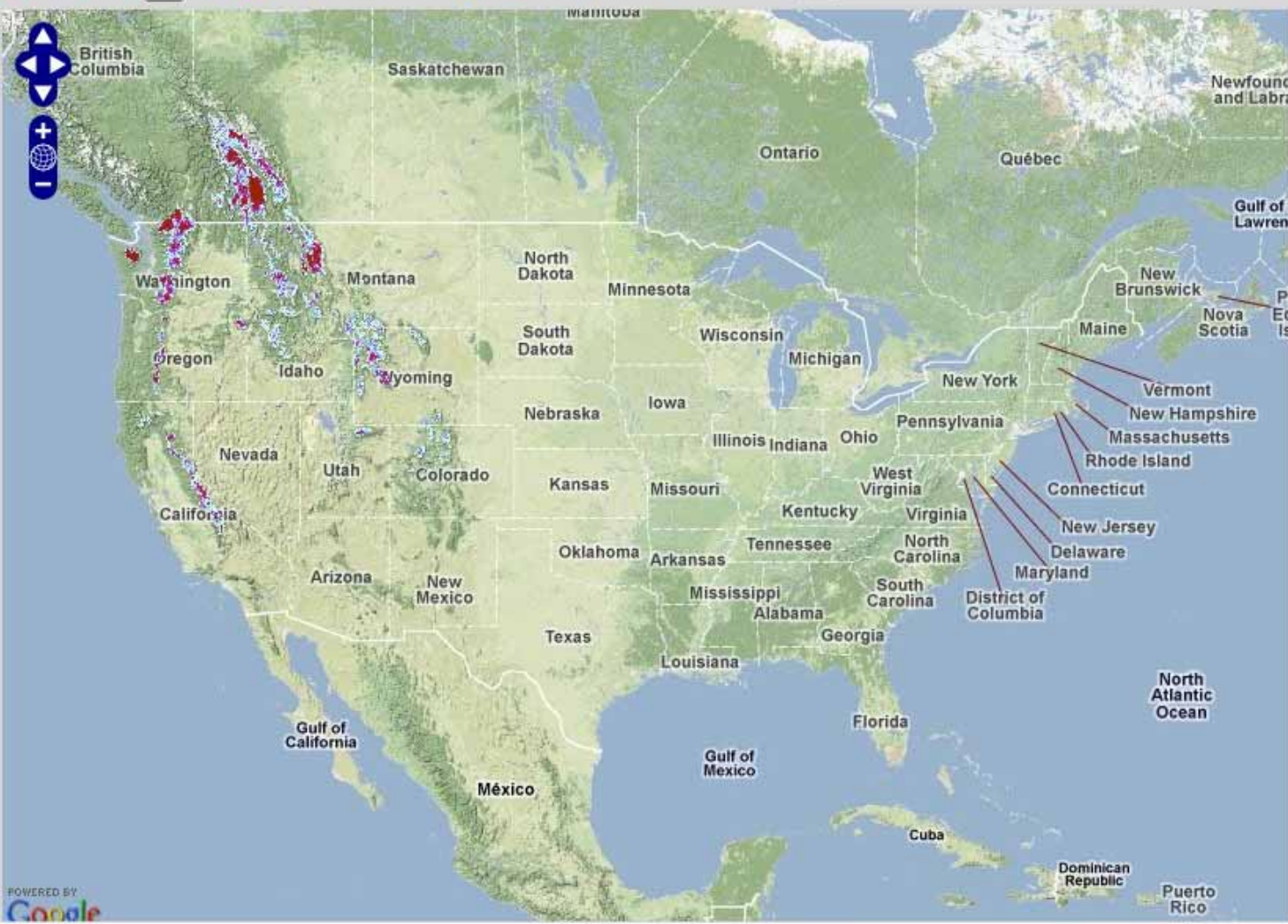
Expand All Collapse All All Off Redraw

- ESRI ArcOnline Services
- Current Operations
- 2011 Spring Flooding
- USACE Civil Works
- USACE Military
- NOAA Stormtracks
- Federal
- US Data
- World Base Map
- Imagery
  - USGS Shaded Relief
  - Daily Planet
  - Snow Water Eq. (SWE) (in.)
  - Snow Depth (in.)
- USGS Web Services
- NRCS Web Services
- US FWS Web Services
- EPA Web Services
- World Realtime Data
- NOAA Web Services
- Real Time Weather

Legend

Search

Map navigation icons: Home, Previous View, Next View, Pan, Zoom In, Zoom Out, Full Screen, Print, Refresh, Close, Query Layer:  BaseMap >>



Map Ready RI AR Off SV Off OV Off TF Off CS Dist Area Active Fires -130.42969, 20.46819 LL (WGS84)



UOC

Freeboard Values

CorpsMap UOC

Layers

- Expand All Collapse All All Off Redraw
- ESRI ArcOnline Services
- Current Operations
  - Current Events
    - National Common Operating Plan
      - Event
      - Open FEMA JFOs (as of 20 APR 2011)
      - PRT
      - C2 Nodes
    - CISP
      - DSAC 1 Dams
  - Past Events
  - NOAA Streamgages Observed
  - NOAA Streamgages Forecast
    - Major Flooding
    - Moderate Flooding
    - Minor Flooding
    - Near Flood Stage
    - No Flooding
    - Observed > 24 hrs.
  - Nationwide Fires
  - ENGLink Events
  - Current US News Items
  - Current World News Items
  - Tsunami Warnings - Pacific
  - FEMA Major Disaster Declaration
  - FEMA Emergency Declarations
- 2011 Spring Flooding

Legend

Search

Query Layer: Office or Contact

BaseMap

Map Ready RI AR Off SV Off OV Off TF Off CS Dist Area

Open FEMA JFOs (as of 20 APR 2011) -85.16602, 35.67515 LL

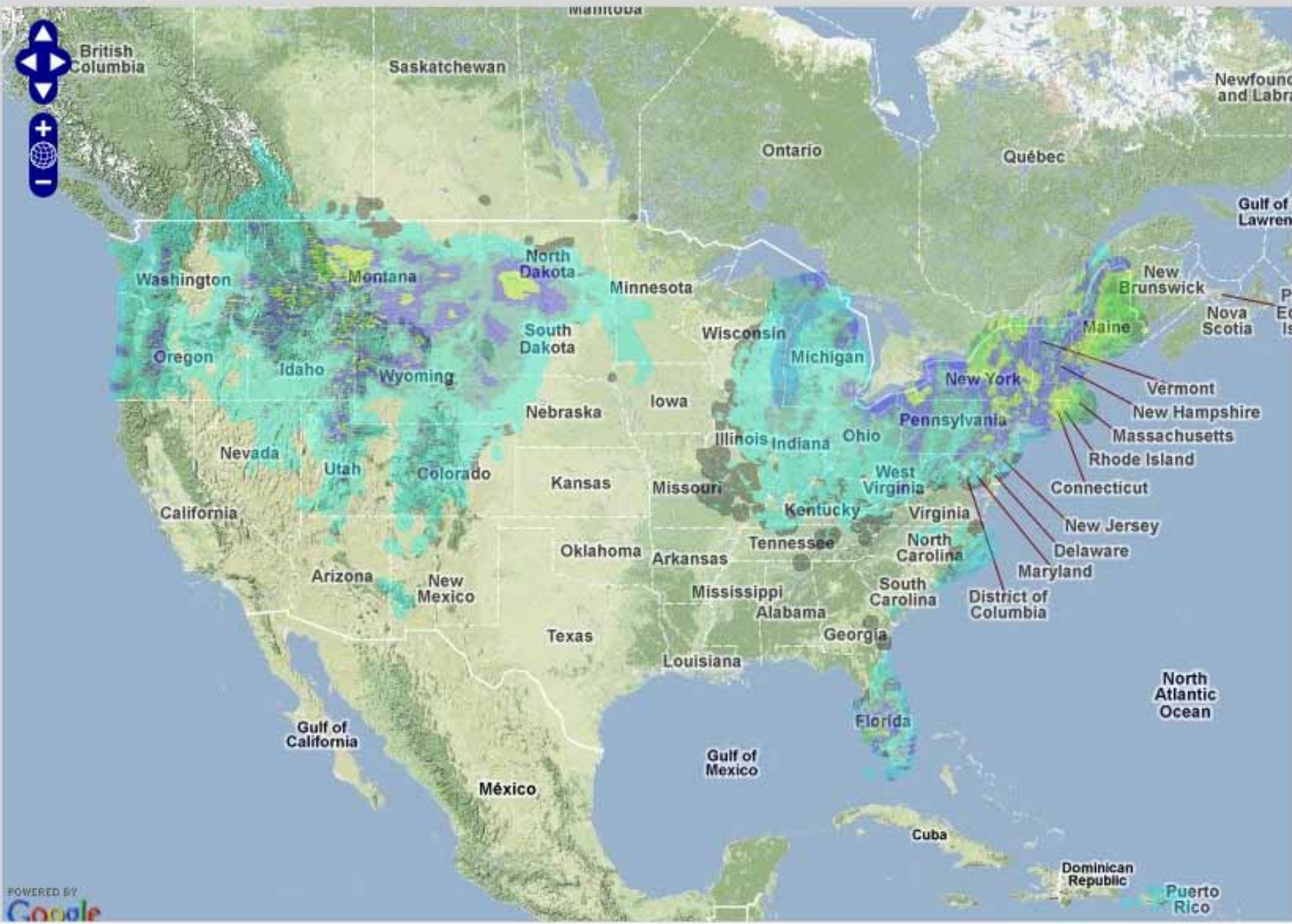


- NOAA
  - NWS AHPS Gridded 1 Day P
  - Drought Monitoring Precip La
  - Drought Monitoring Precip La
- Precipitation Accumulation
  - National Marine Sanctuaries
  - Tide and Current Gages
  - QPF: Day1
  - QPF: Day1 - Contours
  - QPF: Day2
  - QPF: Day2 - Contours
  - QPF: Day3
  - QPF: Day3 - Contours
  - QPF: Days 1-2 (48hr)
  - QPF: Days 1-2 (48hr) Contou
  - QPF: Days 1-3 (72hr)
  - QPF: Days 1-3 (72hr) Contou
  - QPF: Days 4-5 (48hr)
  - QPF: Days 4-5 (48hr) Contou
  - QPF: Days 1-5 (120hr)
  - QPF: Days 1-5 (120hr) Conto
  - Significant River Flood Outloc

- NPS
- USFWS
- USGS
- US Data
- World Base Map
- Imagery

Legend

Search



POWERED BY Google

Map Ready

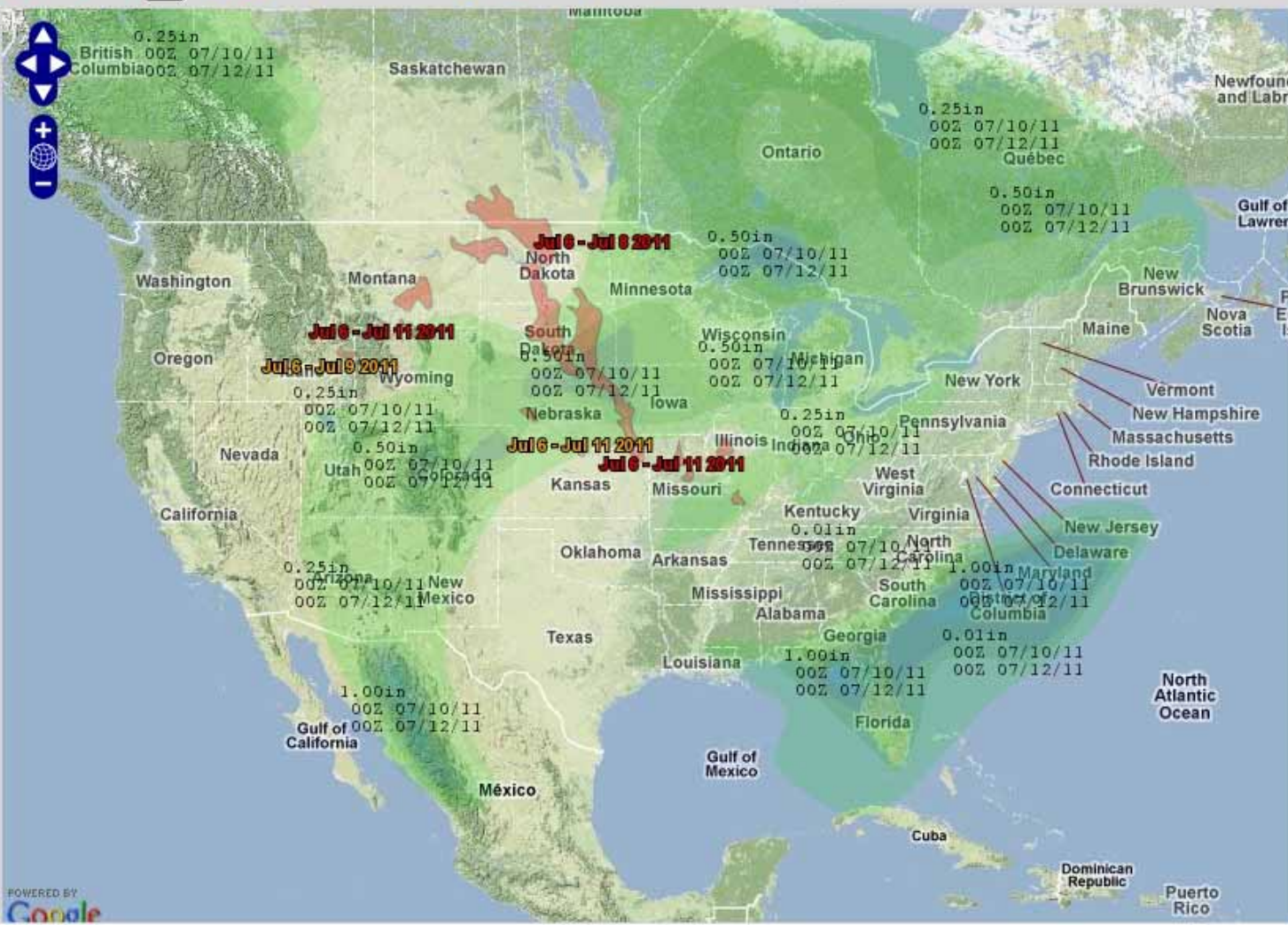
RI AR Off SV Off OV Off TF Off CS Dist Area 0.00000, 0.00000 LL (WGS84)



Layers

- ▶ EPA
- ▶ FEMA
- ▶ National Atlas
- ▶ NOAA
  - NWS AHPS Gridded 1 Day P
  - Drought Monitoring Precip La
  - Drought Monitoring Precip La
  - ▶ Precipitation Accumulation
    - National Marine Sanctuaries
    - Tide and Current Gages
    - QPF: Day1
    - QPF: Day1 - Contours
    - QPF: Day2
    - QPF: Day2 - Contours
    - QPF: Day3
    - QPF: Day3 - Contours
    - QPF: Days 1-2 (48hr)
    - QPF: Days 1-2 (48hr) Contou
    - QPF: Days 1-3 (72hr)
    - QPF: Days 1-3 (72hr) Contou
    - QPF: Days 4-5 (48hr)
    - QPF: Days 4-5 (48hr) Contou
    - QPF: Days 1-5 (120hr)
    - QPF: Days 1-5 (120hr) Conto
    - Significant River Flood Outloc
- ▶ NPS
- ▶ USFWS
- ▶ USGS
- ▶ IIS Data

Search



Map Ready

RI AR Off SV Off OV Off TF Off CS Dist Area 0.00000, 0.00000 LL (WGS84)



UOC

Freeboard Values

CorpsMap UOC

Layers

Expand All Collapse All All Off Redraw

- ESRI ArcOnline Services
- Current Operations
- 2011 Spring Flooding
- USACE Civil Works
- USACE Military
- NOAA Stormtracks
- Federal
  - Census
  - DOT
  - EPA
  - FEMA
  - National Atlas
  - NOAA
  - NPS
  - USFWS
  - USGS
    - 24K Quad
    - 100K Quad
    - 250K Quad
    - USGS NHD WMS
    - USGS Stream Gages
    - Earthquakes - Last 7 Days
      - Magnitude > 7
      - Magnitude > 5
      - Magnitude > 2.5
    - USGS Water Quality Stations
  - US Data
  - World Race Map

Legend

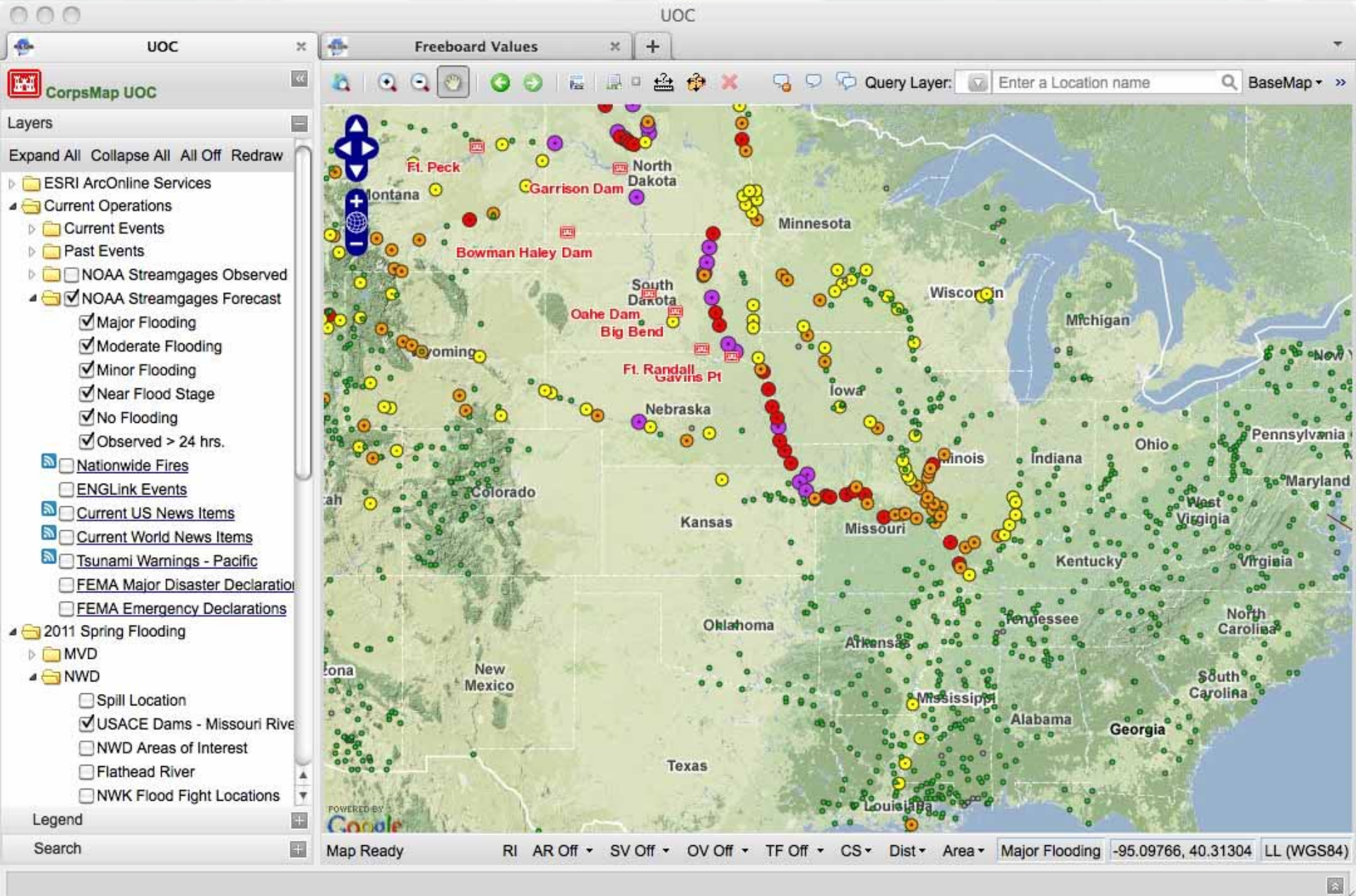
Search

Query Layer: BaseMap














Map Ready

RI AR Off SV Off OV Off TF Off CS Dist Area Magnitude > 2.5 -130.34180, 38.13456 LL (WGS84)

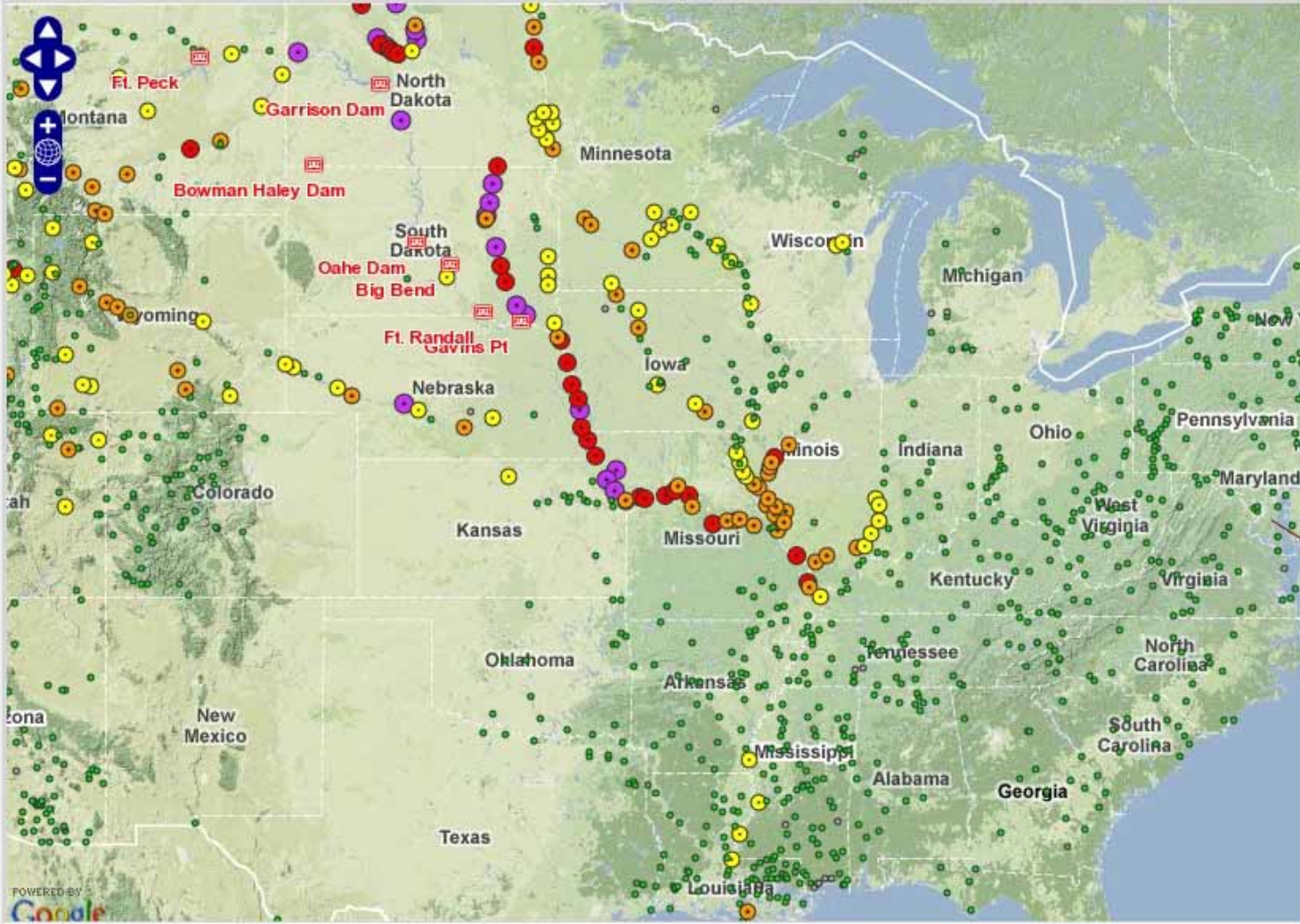






-  USACE Dams
-  NOAA AHPS Forecast
-  Obs. > 24 hrs
-  NOAA AHPS Forecast
-  No Flooding
-  NOAA AHPS Forecast
-  Near Flood Stage
-  NOAA AHPS Forecast
-  Minor Flooding
-  NOAA AHPS Forecast
-  Moderate Flooding
-  NOAA AHPS Forecast
-  Major Flooding

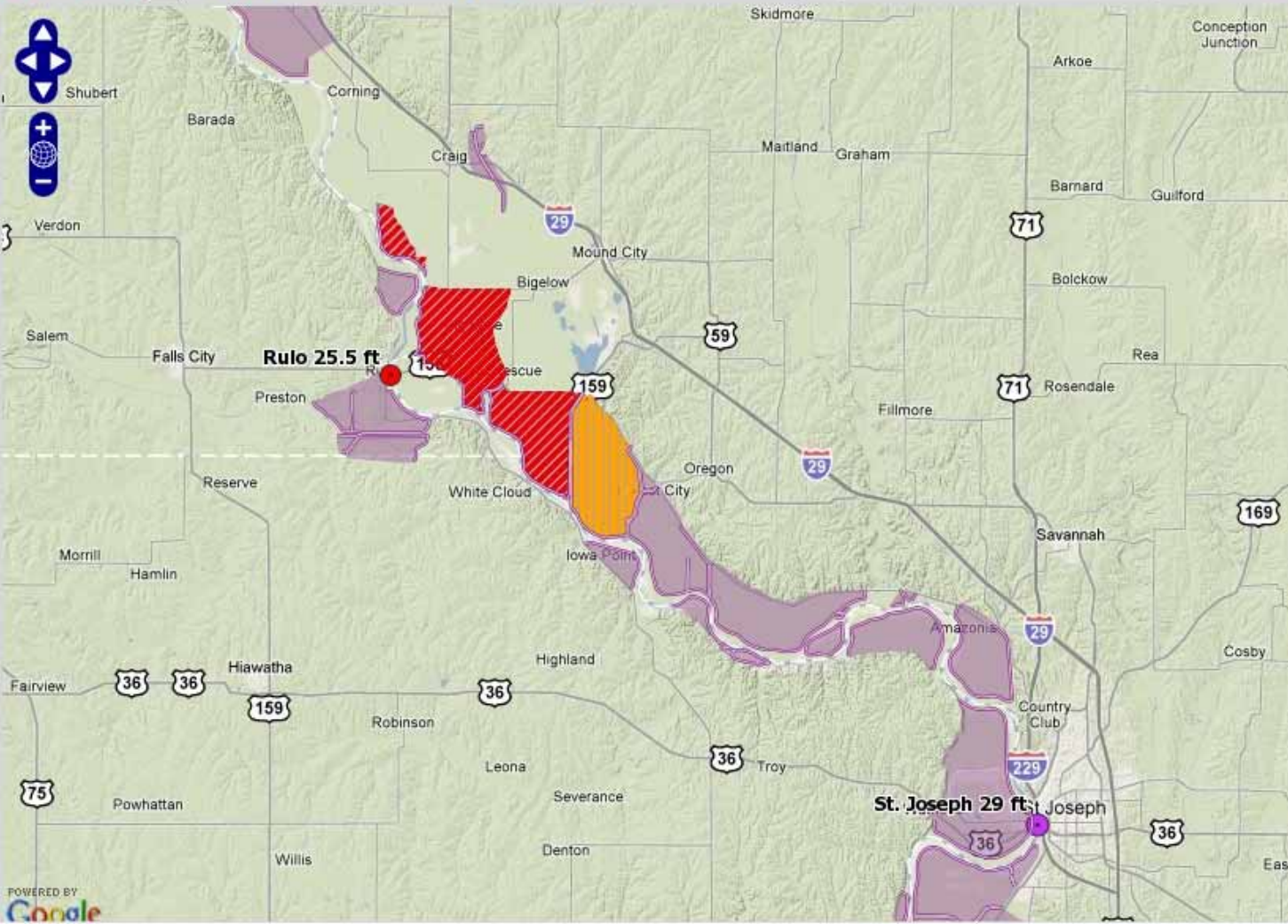
Map navigation tools: Home, Previous, Next, Full Screen, Print, Refresh, Close, Query Layer:  BaseMap >>



Map Ready    RI AR Off    SV Off    OV Off    TF Off    CS    Dist    Area    Major Flooding    -95.09766, 40.31304    LL (WGS84)

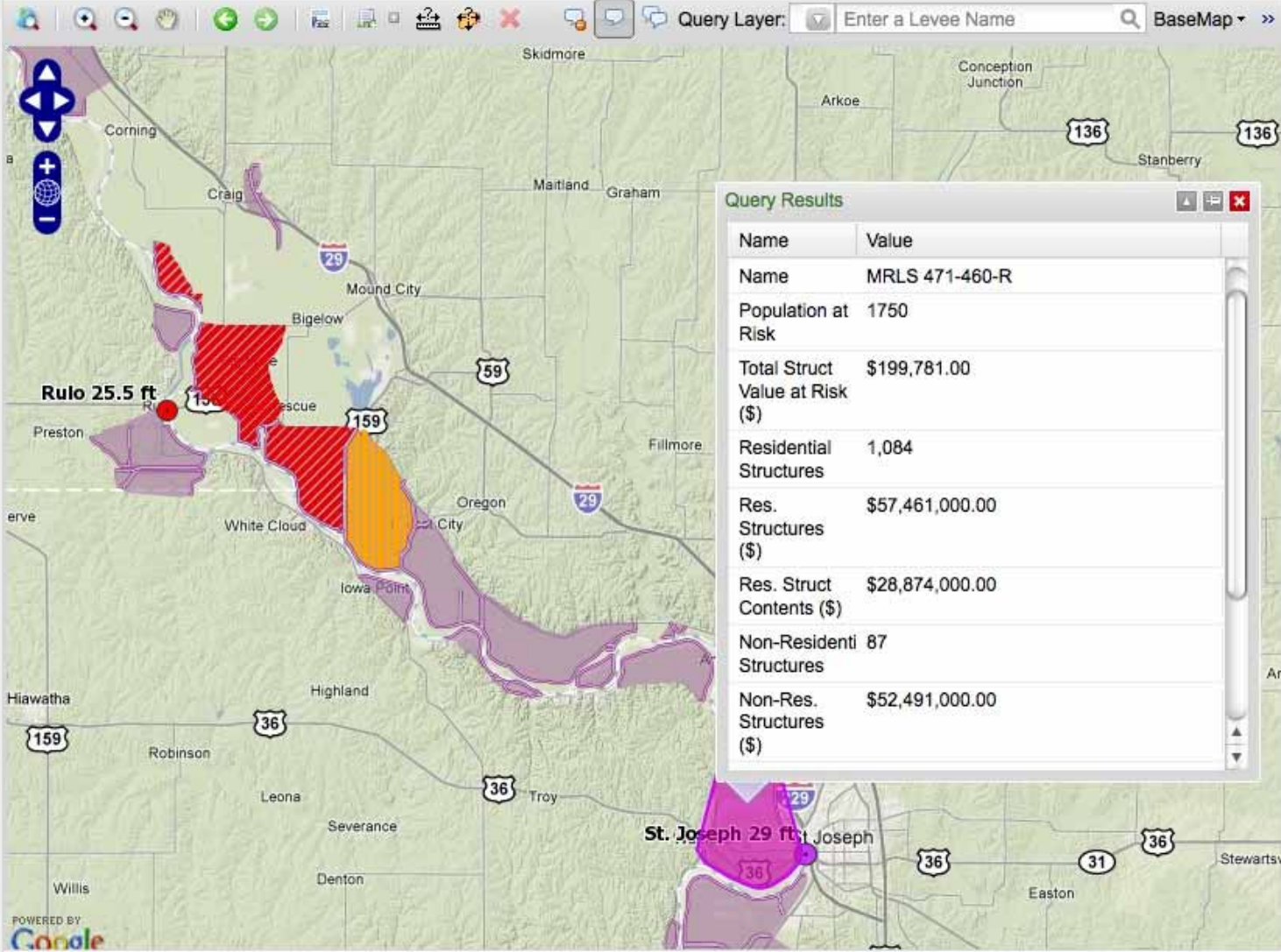


-  Levee Centerline
-  NOAA AHPS Forecast
-  Obs. > 24 hrs
-  NOAA AHPS Forecast
-  No Flooding
-  NOAA AHPS Forecast
-  Near Flood Stage
-  NOAA AHPS Forecast
-  Minor Flooding
-  NOAA AHPS Forecast
-  Moderate Flooding
-  NOAA AHPS Forecast
-  Major Flooding
-  Flood Wall
-  Protected Area - Status
-  Not Overtopped
-  Close or Watching
-  Overtopped
-  Breach
-  Protected Area





- ESRI ArcOnline Services
- Current Operations
- 2011 Spring Flooding
- USACE Civil Works
- USACE Military
- NOAA Stormtracks
- Federal
- US Data
- World Base Map
- Imagery
- USGS Web Services
- NRCS Web Services
- US FWS Web Services
- EPA Web Services
- World Realtime Data
- NOAA Web Services
- Real Time Weather





















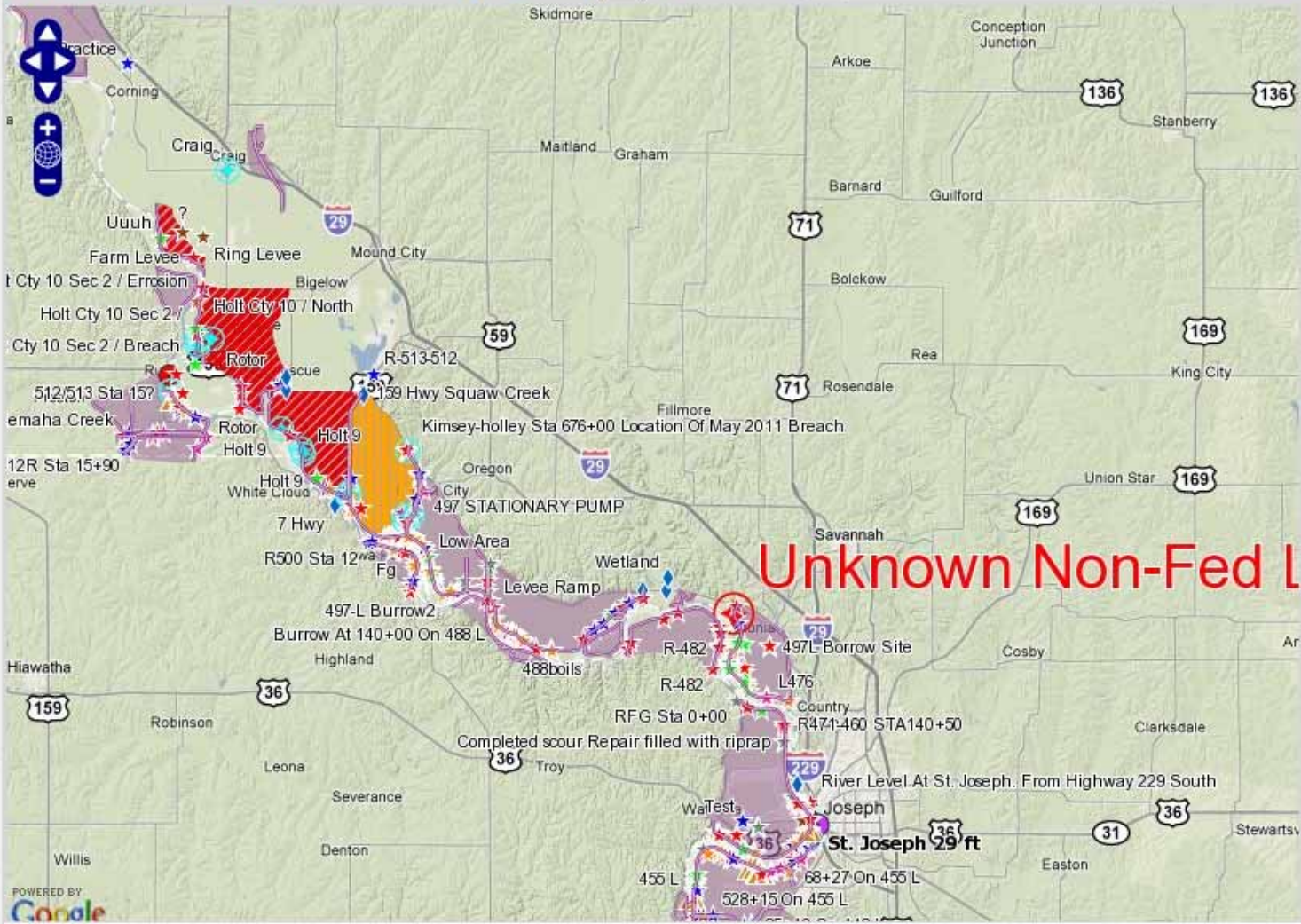
Query Results

Name	Value
Name	MRLS 471-460-R
Population at Risk	1750
Total Struct Value at Risk (\$)	\$199,781.00
Residential Structures	1,084
Res. Structures (\$)	\$57,461,000.00
Res. Struct Contents (\$)	\$28,874,000.00
Non-Residenti Structures	87
Non-Res. Structures (\$)	\$52,491,000.00

Layers

Legend

-  Levee Centerline
-  NWK Flood Fight Locations
-  Urgent
-  Structure
-  Seepage
-  Sand Boils
-  Pumps
-  River or Freeboard Gage
-  Relief Well
-  Miscellaneous
-  Levee Failure Point
-  High Water Mark
-  Flood Fight Point
-  Cracking
-  Burrows
-  Backwater Flooding
-  NOAA AHPS Forecast
-  Obs. > 24 hrs
-  NOAA AHPS Forecast
-  No Flooding
-  NOAA AHPS Forecast
-  Near Flood Stage
-  NOAA AHPS Forecast
-  Minor Flooding
-  NOAA AHPS Forecast
-  Moderate Flooding
-  NOAA AHPS Forecast
-  Major Flooding
-  Flood Wall
-  Protected Area - Status
-  Not Overtopped



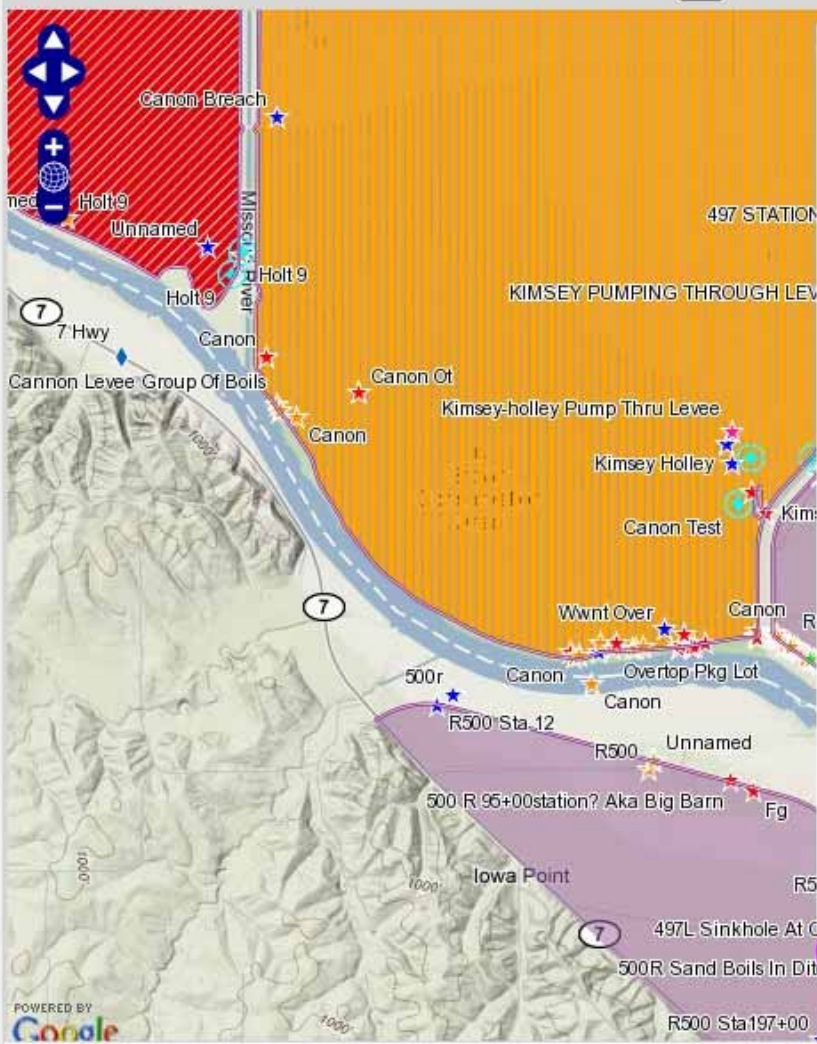


Layers

Expand All Collapse All All Off Redraw

- ESRI ArcOnline Services
- Current Operations
- 2011 Spring Flooding
  - MVD
  - NWD
    - Spill Location
    - USACE Dams - Missouri River
    - NWD Areas of Interest
    - Flathead River
    - NWK Flood Fight Locations
    - Missouri River Basin
    - Ongoing Flood Fight
  - Inundation Models
  - Bismark
  - North Dakota Emergency Services
  - North Dakota Imagery (2009)
  - North Dakota Hydrology
  - North Dakota Contours
  - Leveed Area - Reported Conc
- USACE Civil Works
- USACE Military
- NOAA Stormtracks
- Federal
- US Data
- World Base Map
- Imagery
- USGS Web Services
- NRCS Web Services

Search



Query Results

Name	Value
Caption	a line of sand boils in the drainage ditch. it looks like a sand lense surfaces here
Notes	
Collection	Sand Boil Point
Item	500R Sand Boils In Ditch
Date (CDT)	24 Jun 12:42 pm
Image/Video	
Caption	sand boils in the ditch
Notes	



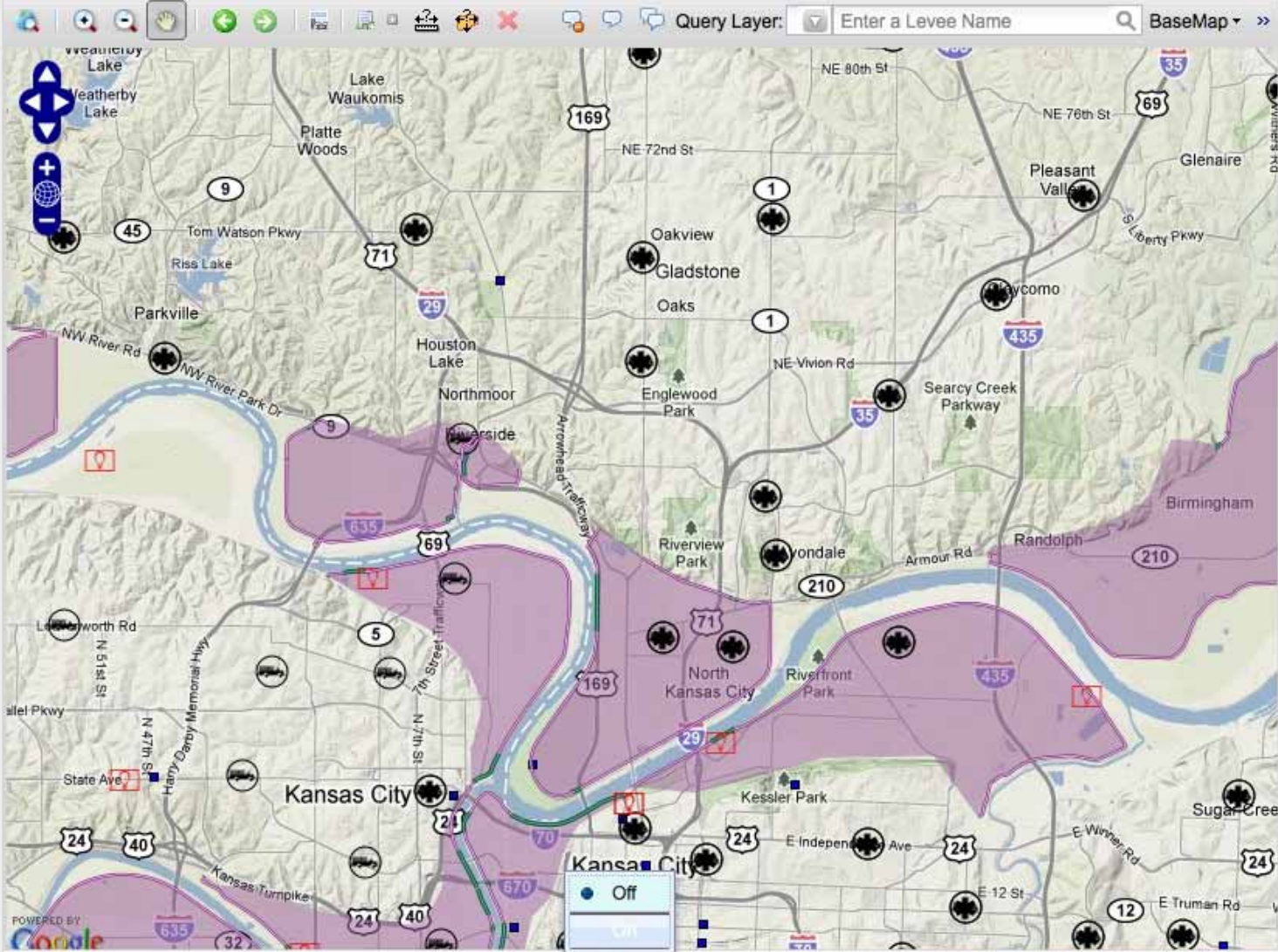
Layers

Expand All Collapse All All Off Redraw

- ESRI ArcOnline Services
- Current Operations
- 2011 Spring Flooding
- USACE Civil Works
- USACE Military
- NOAA Stormtracks
- Federal
- US Data
- World Base Map
- Imagery
- USGS Web Services
- NRCS Web Services
- US FWS Web Services
- EPA Web Services
- World Realtime Data
- NOAA Web Services
- Real Time Weather

Legend

Search



Map Ready RI AR Off SV Off OV Off TF Off CS Dist Area Leveed Area -94.58439, 39.08664 LL (WGS84)



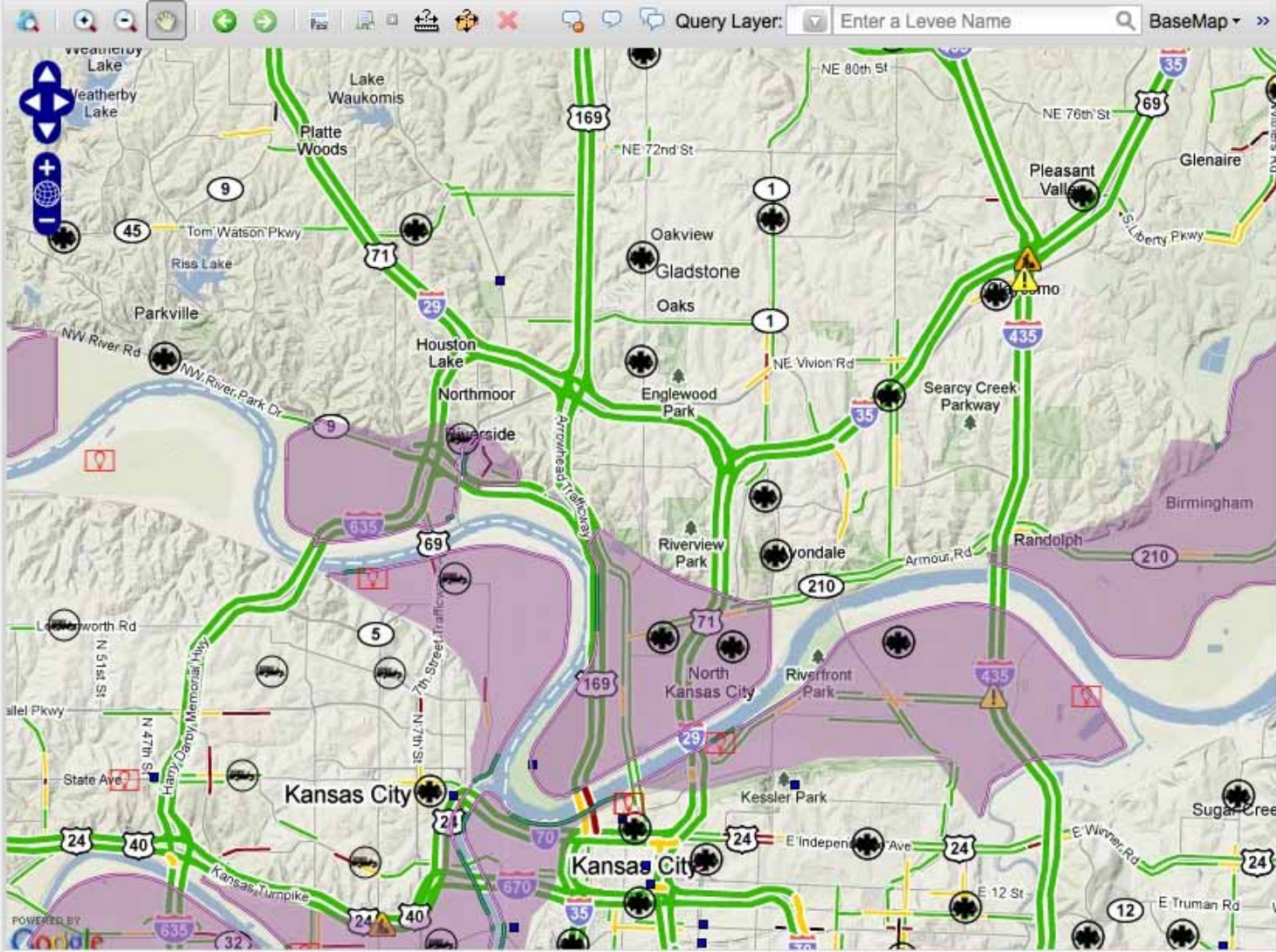
Layers

Expand All Collapse All All Off Redraw

- ESRI ArcOnline Services
- Current Operations
- 2011 Spring Flooding
- USACE Civil Works
- USACE Military
- NOAA Stormtracks
- Federal
- US Data
- World Base Map
- Imagery
- USGS Web Services
- NRCS Web Services
- US FWS Web Services
- EPA Web Services
- World Realtime Data
- NOAA Web Services
- Real Time Weather

Legend

Search



Map Ready RI AR Off SV Off OV Off TF On CS Dist Area Leveed Area -94.58439, 39.08664 LL (WGS84)



**National Levee Database - Interactive Map**

Layers

Expand All Collapse All All Off Redraw

- ESRI ArcOnline Services
- NLD
- USACE Civil Works
- Federal
  - EPA
  - FEMA
  - National Atlas
  - NOAA
  - NPS
  - USFWS
  - USGS
- US Data
- World Base Map
- Imagery
  - USGS Quads
  - Daily Planet
  - Nationwide Prime
  - Imagery Metadata
  - NEXRAD Radar
  - USGS DEM
  - USGS Shaded Relief
  - SWE Inches (Daily)
- Real Time Weather
  - Animated Weather Radar
  - USGS Natural Hazards System
  - Animated IR Satellite
  - Snow Amount Forecast
  - Local Storm Reports

Legend

Search

Query Layer: No Query Layer BaseMap Scale: 1:13,542

Map Ready

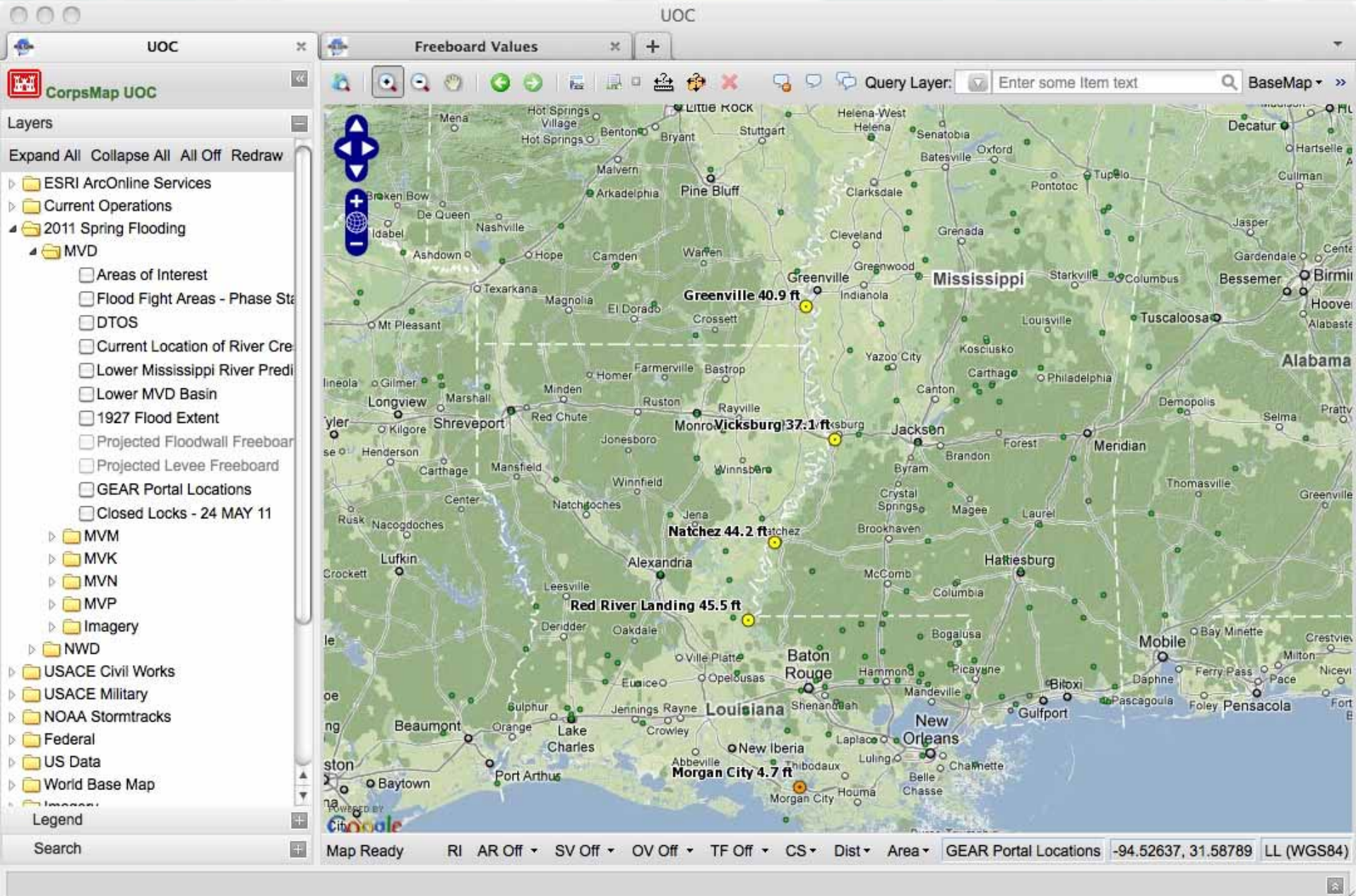
RI AR Off SV On OV Off TF Off CS Dist Area No Query Layer -94.57928, 39.12064 LL (WGS84)

Example

Freeboard









Layers

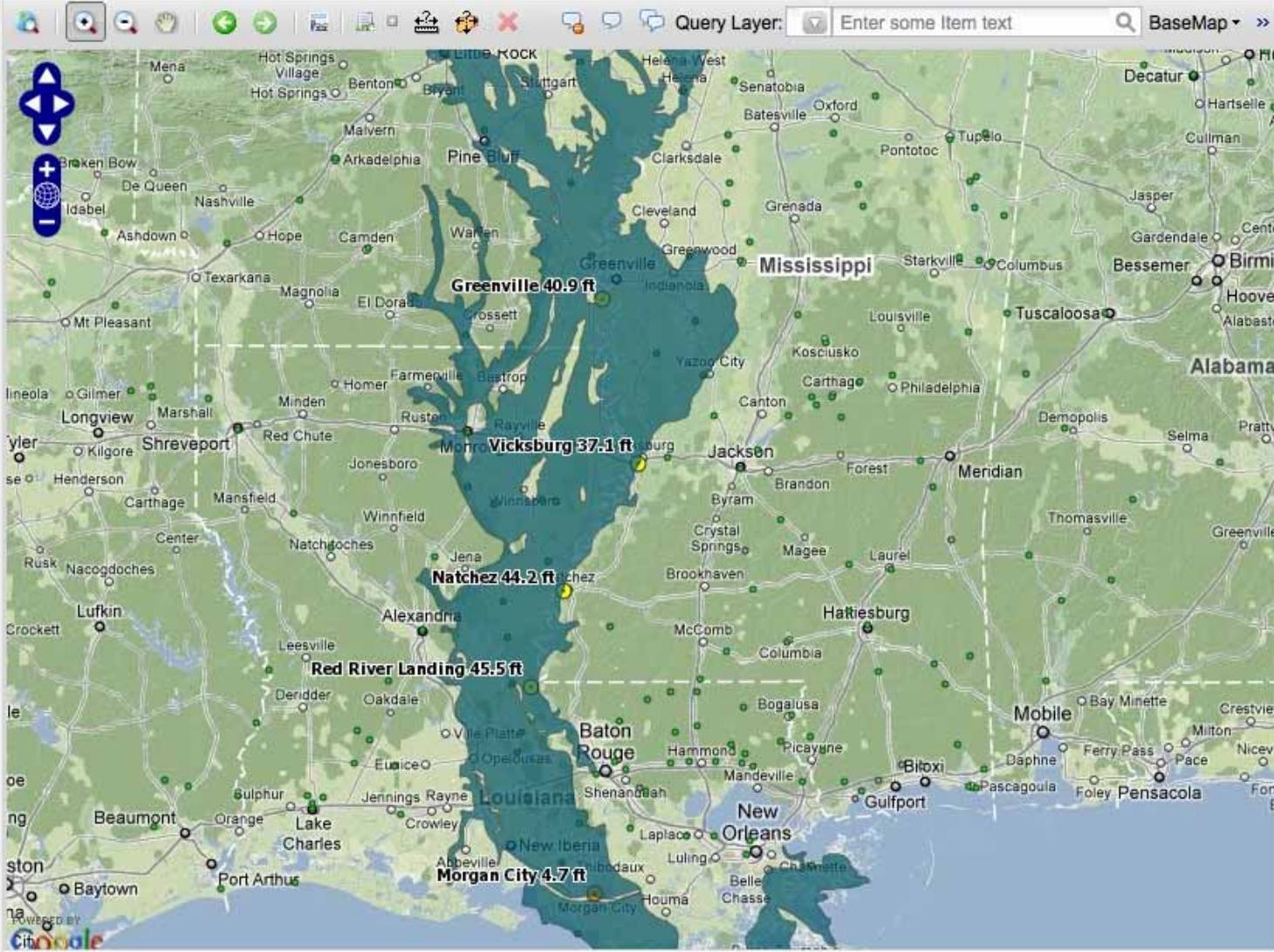
Expand All Collapse All All Off Redraw

- ESRI ArcOnline Services
- Current Operations
- 2011 Spring Flooding
  - MVD
    - Areas of Interest
    - Flood Fight Areas - Phase St
    - DTOS
    - Current Location of River Cre
    - Lower Mississippi River Predi
    - Lower MVD Basin
    - 1927 Flood Extent
    - Projected Floodwall Freeboar
    - Projected Levee Freeboard
    - GEAR Portal Locations
    - Closed Locks - 24 MAY 11

- MVM
- MVK
- MVN
- MVP
- Imagery
- NWD
- USACE Civil Works
- USACE Military
- NOAA Stormtracks
- Federal
- US Data
- World Base Map

Legend

Search



Map Ready RI AR Off SV Off OV Off TF Off CS Dist Area GEAR Portal Locations -94.52637, 31.58789 LL (WGS84)



Layers

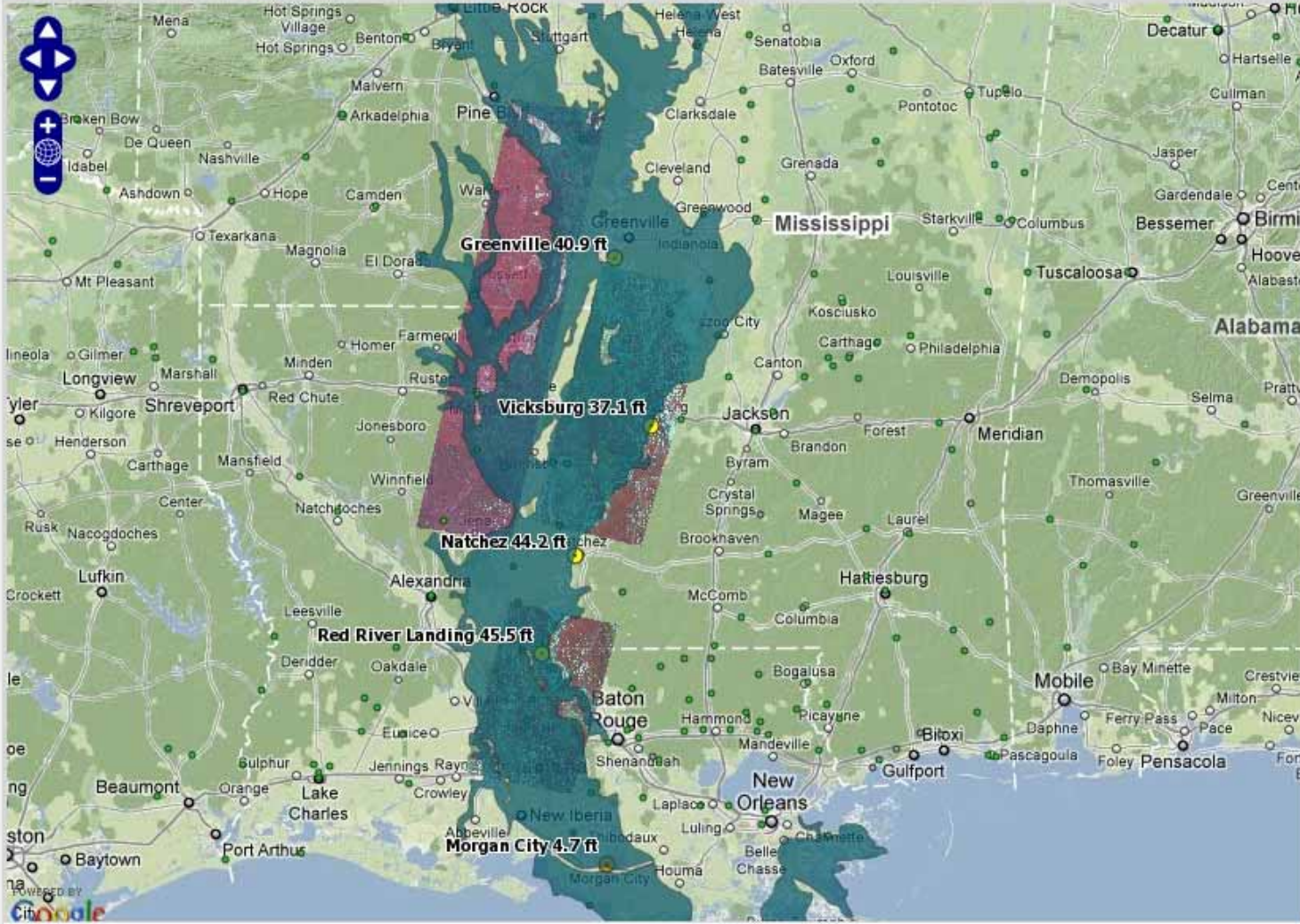
- Radarsat Imagery (May 01)
- Radarsat Imagery (May 03)
- SCANSar Imagery (May 04)
- SPOT Imagery (May 04)
- SPOT Imagery (May 04)
- SPOT Imagery (May 04)
- DMCI Imagery (May 04)
- SPOT Imagery (May 07)
- SPOT Imagery (May 08)
- New Madrid Video Flight
- SPOT Imagery (May 09)
- SPOT Imagery (May 09)
- SPOT Imagery (May 09)
- TerraSAR (May 09)
- SPOT Imagery (May 11)
- SPOT Imagery (May 11)
- SPOT Imagery (May 12)
- SPOT Imagery (May 16)
- SPOT Imagery (May 17)
- SPOT Imagery (May 19)
- SPOT Imagery (May 22)
- SPOT Imagery (May 23)
- SPOT Imagery (May 24)
- SPOT Imagery (May 24)
- SPOT Imagery (May 25)

- ▶ NWD
- ▶ USACE Civil Works
- ▶ USACE Military

Legend

Search

Map navigation icons: Home, Previous, Next, Full Screen, Print, Refresh, Close, Query Layer:  BaseMap >>



Map Ready RI AR Off SV Off OV Off TF Off CS Dist Area GEAR Portal Locations -95.07568, 34.73258 LL (WGS84)



Layers

- Closed Locks - 24 MAY 11
- ▶  MVM
- ▶  MVK
- ▶  MVN
- ▶  MVP
- ▶  Imagery
- ▶  NWD
- ▶  USACE Civil Works
  - Corps Project Notebook
  - All NID Dams
  - DTOS Home Locations
  - Corps Dams
  - Corps Reservoirs
  - Hydroelectric Dams
  - Coastal Inventory Database (ER)
  - Shoreline Protection System
  - ▶  Modeling Mapping & Consequence
  - ▶  Navigation
  - ▶  F&C SDR
    - ▶  National Levee Database
      - Levee Survey
      - Levee Borehole
      - Levee Centerline
      - Levee Closure Structure
      - Levee Crossing
      - Levee Cross Section
      - Levee Encroachment
      - Levee Flood Wall

Query Layer:  BaseMap >>





Layers

- MVD
  - Areas of Interest
  - Flood Fight Areas - Phase St
  - DTOS
  - Current Location of River Cre
  - Lower Mississippi River Predi
  - Lower MVD Basin
  - 1927 Flood Extent
  - Projected Floodwall Freeboard
  - Projected Levee Freeboard
  - GEAR Portal Locations
  - Closed Locks - 24 MAY 11
- MVM
- MVK
- MVN
- MVP
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  - Corps Dams
  - Corps Reservoirs
  - Hydroelectric Dams
  - Coastal Inventory Database (ER
  - Shoreline Protection System
- Modeling Mapping & Consequence
- Navigation

Search



Query Layer:

BaseMap >>



POWERED BY Google

Map Ready RI AR Off SV Off OV Off TF Off CS Dist Area Projected Levee Freeboard -90.47241, 32.65788 LL (WGS84)

Floodwall Segment Summary

Levee Segment Summary

Gage Stages

Tabular Form

Cancel

Submit

Location	Input Stage	Navd88	River Mile ▲	Current Forecasted Stage	Current Forecast Time
St. Louis	<input type="text"/>	379.75	1,133.6	31.4	12:00 pm 07 Jul
Chester	<input type="text" value="35.8"/>	341.10	1,063.5	34.4	12:00 pm 07 Jul
Cape Girardeau	<input type="text" value="43"/>	305.11	1,005.5	38.3	12:00 pm 07 Jul
Thebes	<input type="text" value="42.2"/>	300.40	997.3	36.9	12:00 pm 07 Jul
New Madrid	<input type="text" value="50"/>	255.85	888.9	27.3	12:00 pm 07 Jul
Tiptonville	<input type="text" value="51.7"/>	245.37	870.7	29.6	12:00 pm 07 Jul
Caruthersville	<input type="text" value="49.5"/>	235.73	846.6	28.1	12:00 pm 07 Jul
OSCEOLA	<input type="text" value="47.5"/>	209.55	783.5	23	12:00 pm 07 Jul
Memphis	<input type="text" value="50"/>	184.00	734.5	23.6	12:00 pm 07 Jul
Helena	<input type="text" value="55.4"/>	141.55	663.0	32.8	12:00 pm 07 Jul
Arkansas City	<input type="text" value="49.4"/>	96.33	553.7	29.3	12:00 pm 07 Jul
Greenville	<input type="text" value="60.2"/>	74.71	531.2	40.9	06:00 pm 07 Jul
Vicksburg	<input type="text" value="42"/>	46.13	435.7	37.1	06:00 pm 07 Jul
Natchez	<input type="text" value="57.6"/>	17.29	362.0	44.2	12:00 am 09 Jul
Baton Rouge	<input type="text" value="41.1"/>	-0.37	228.4	29.2	06:00 am 09 Jul
New Orleans	<input type="text" value="16.1"/>	-0.71	102.8	11.1	06:00 am 09 Jul

Floodwall Segment Summary

Levee Segment Summary

Gage Stages



Go

Reports

3. River Mile vs Freeboard Chart



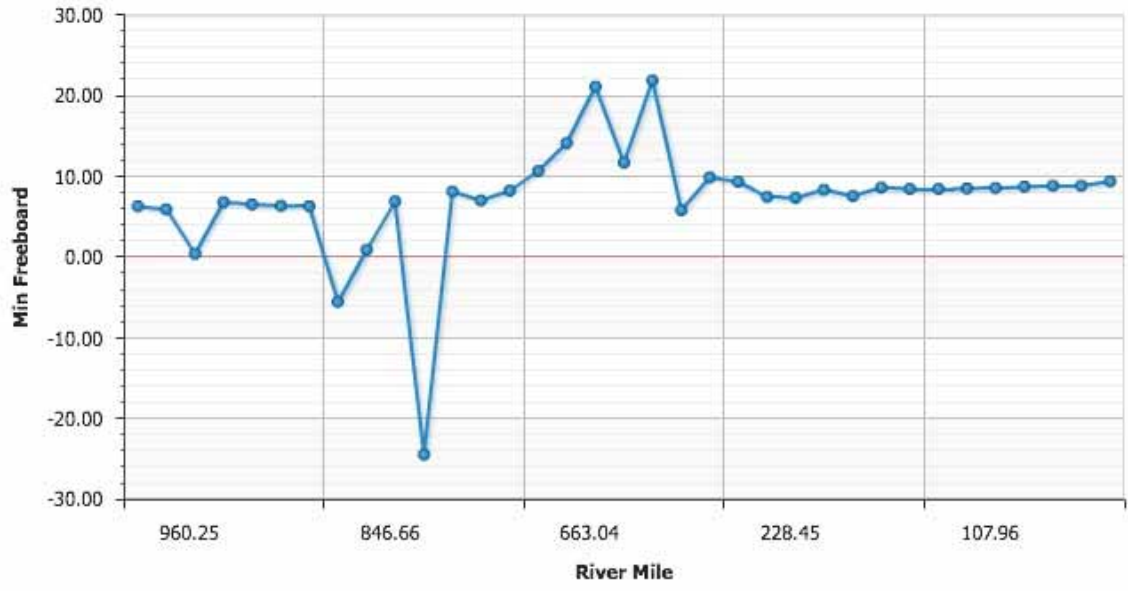
Rows

100

Actions



Edit Chart





Floodwall Segment Summary

Levee Segment Summary

Gage Stages

Reports **2. Highlighted**
 100

- Warning**
- Overtop**

Segment	Floodwall Name	Length	Flood Source	River Basin	Segment Start River Mile	Segment End River Mile	Segment Minimum Top Elev	Segment Maximum Top Elev
Mound City to Cairo Levee 5/7+00 to 8/4+00	Cairo	-	Ohio River	Ohio River	960.07	960.25	336.28	
Mound City to Cairo 8/4+00 to 10/0+00	-	-	-	-	959.59	960.05	335.71	
Mound City to Cairo 8/4+00 to 10/0+00	Cairo	-	Ohio River	Ohio River	955.26	960.03	330.33	
Cairo to Cache River Diversion Channel 10/0+00 to 14/17+00	Cairo	-	Ohio River	Ohio River	955.15	955.26	335.11	
Cairo to Cache River Diversion Channel 10/0+00 to 14/17+00	-	-	-	-	955.04	955.15	334.81	
City of Hickman, KY Floodwall	Hickman	-	Mississippi River	Mississippi	922.32	922.35	323.54	
City of Hickman, KY Levee	Hickman	-	Mississippi River	Mississippi	922.00	922.32	323.44	
Point Pleasant to MO AR State								

Floodwall Segment Summary

Levee Segment Summary

Gage Stages

1 row(s) updated, 0 row(s) inserted.

Tabular Form

Cancel

Submit

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Floodwall Segment Summary

Levee Segment Summary

Gage Stages



Go

Reports

3. River Mile vs Freeboard Chart



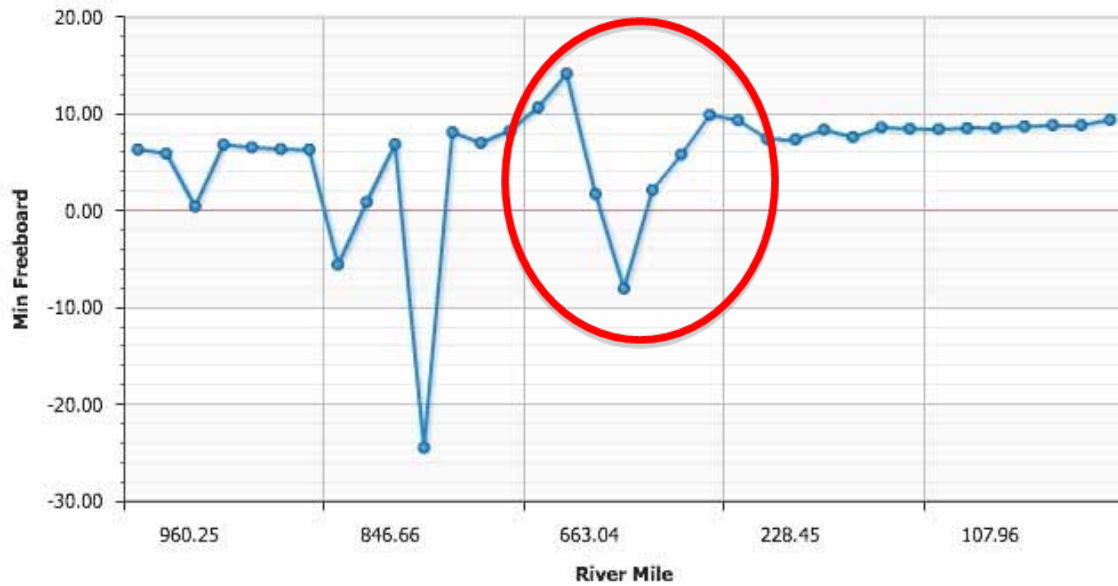
Rows

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Actions

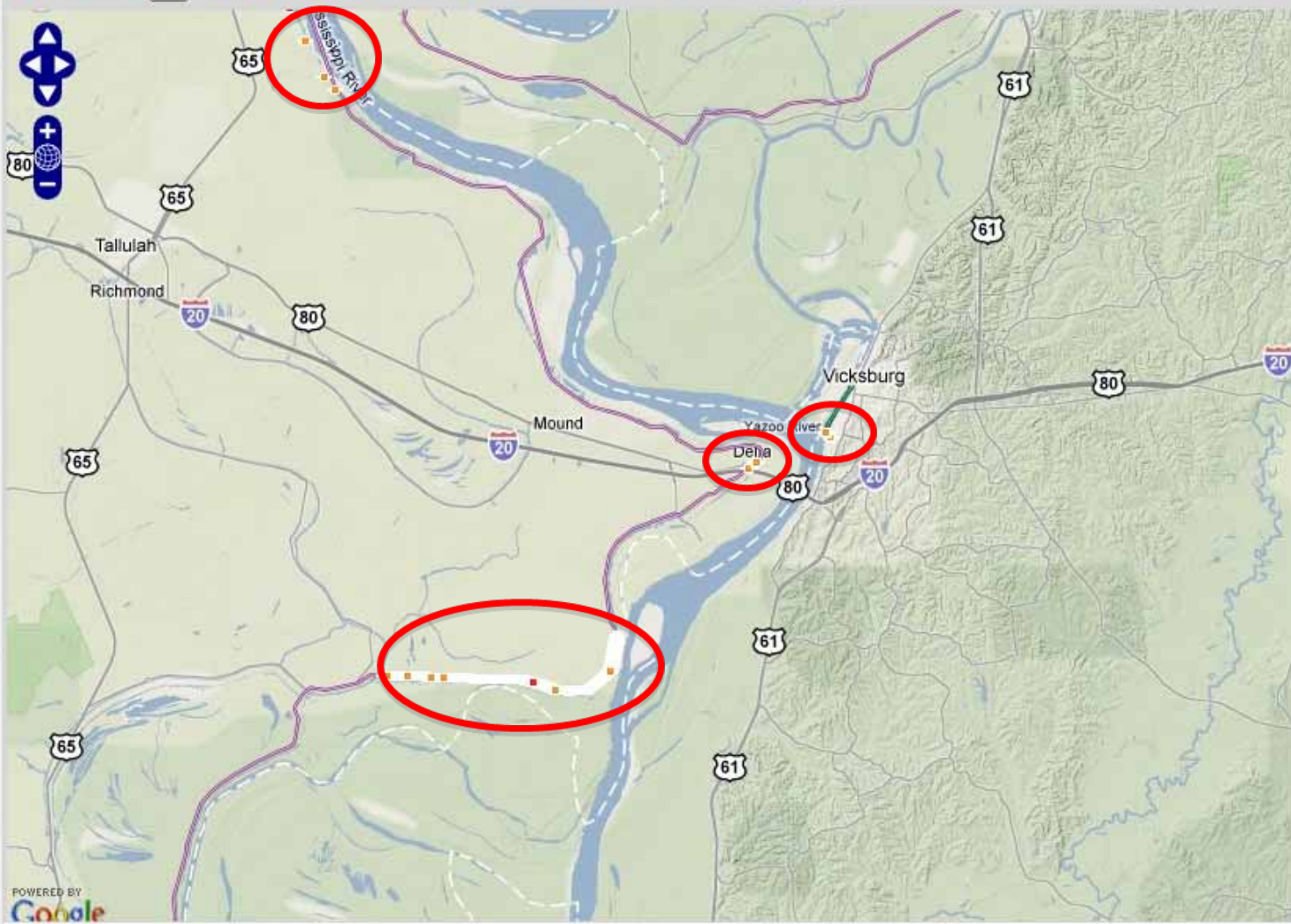


Edit Chart





- Layers
- Expand All Collapse All All Off Redraw
- ESRI ArcOnline Services
  - Current Operations
  - 2011 Spring Flooding
    - MVD
      - Areas of Interest
      - Flood Fight Areas - Phase St
      - DTOS
      - Current Location of River Cre
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  - USACE Civil Works
  - USACE Military
  - NOAA Stormtracks
  - Federal
  - US Data
  - World Base Map
  - Imagery
- Legend



# Questions?

