

From State to National: Damage Assessment Collection and Coordination



June 5th, 2023

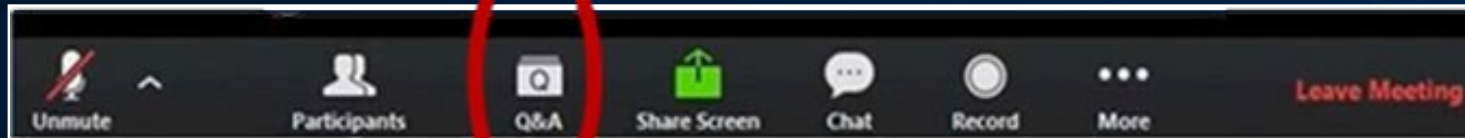
National Alliance for Public Safety GIS (NAPSG) Foundation

napsgfoundation.org | [@napsgfoundation](https://twitter.com/napsgfoundation)

Webinar Prep

Due to the large attendance, all participants are muted for the duration of the session to prevent background noise.

- Please use the Q&A functionality within Zoom for questions that are relevant to the whole group.
- We will address these Q&A throughout the webinar!



A copy of the slides, associated links, and a recording of this webinar will be provided on the NAPSG Foundation website next week.

Agenda

01

Introduction

NAPSG Foundation

02

State & Local

Daniel Stoelb,
OR DEM

03

Federal

Melodie O'Hanlon,
FEMA

04

Wrap Up

01 | Introduction

About NAPSG Foundation

- 501(c)(3) non-profit organization established in 2005
- +20,000 members: Public Safety Officials, Operators, and GIS Staff
 - Mostly in the US, but spans the globe
- All training, tools, best practices and other resources provided at no cost



esri

NACCHO
National Association of County & City Health Officials

NSGIC
National States Geographic Information Council

ICMA



NAPSG Foundation Mission



Advance Geospatial

technology and capabilities for and with the public safety community



Foster Adoption

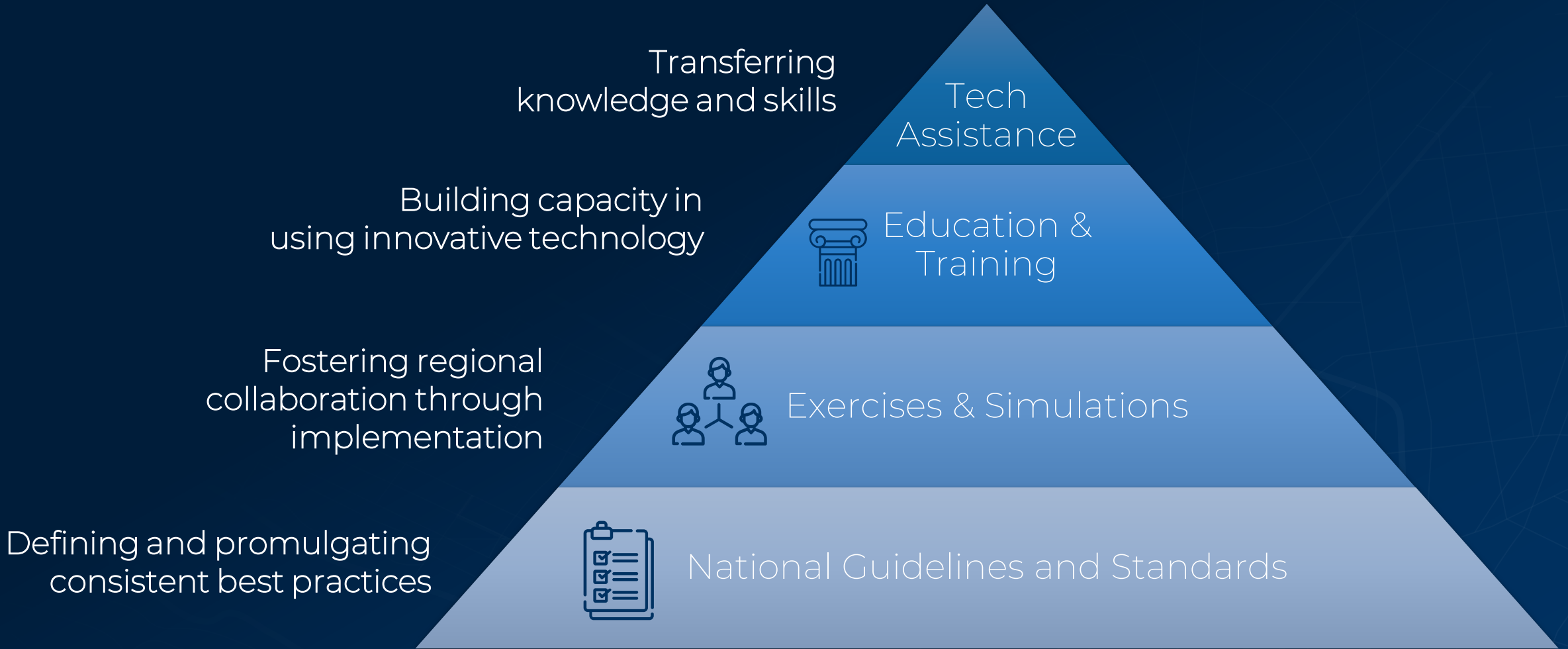
of geospatial tools, information, and best practices for planning, daily operations, and disasters



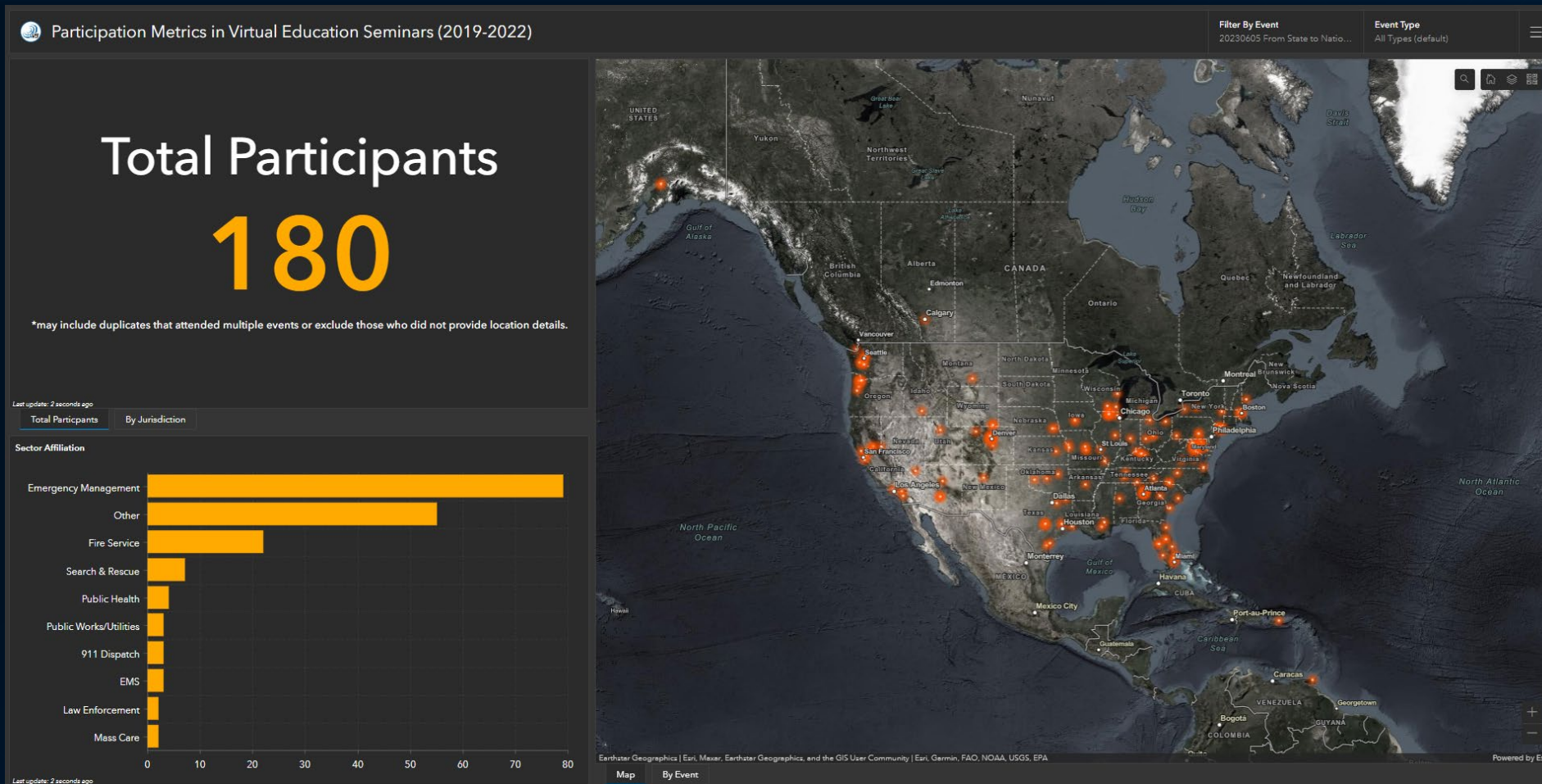
Bridge the Gaps

across agencies and disciplines, to better protect the communities they serve

How Do We Do It



Local Focus – National Reach



02 | State and Local



OREGON DEPARTMENT OF
EMERGENCY MANAGEMENT

Damage Assessment Project Overview

Daniel Stoelb, GIS Program Coordinator



Project Basics

- Create a tool based upon existing commercial-off-the-shelf (COTS) solutions.
- Focus on damage assessment for individual assistance (homes) and business impacts.
- Gather data in a uniform format – using GIS.
- Visualize data through reports and dashboards.
- Make a tool that is easy to use.



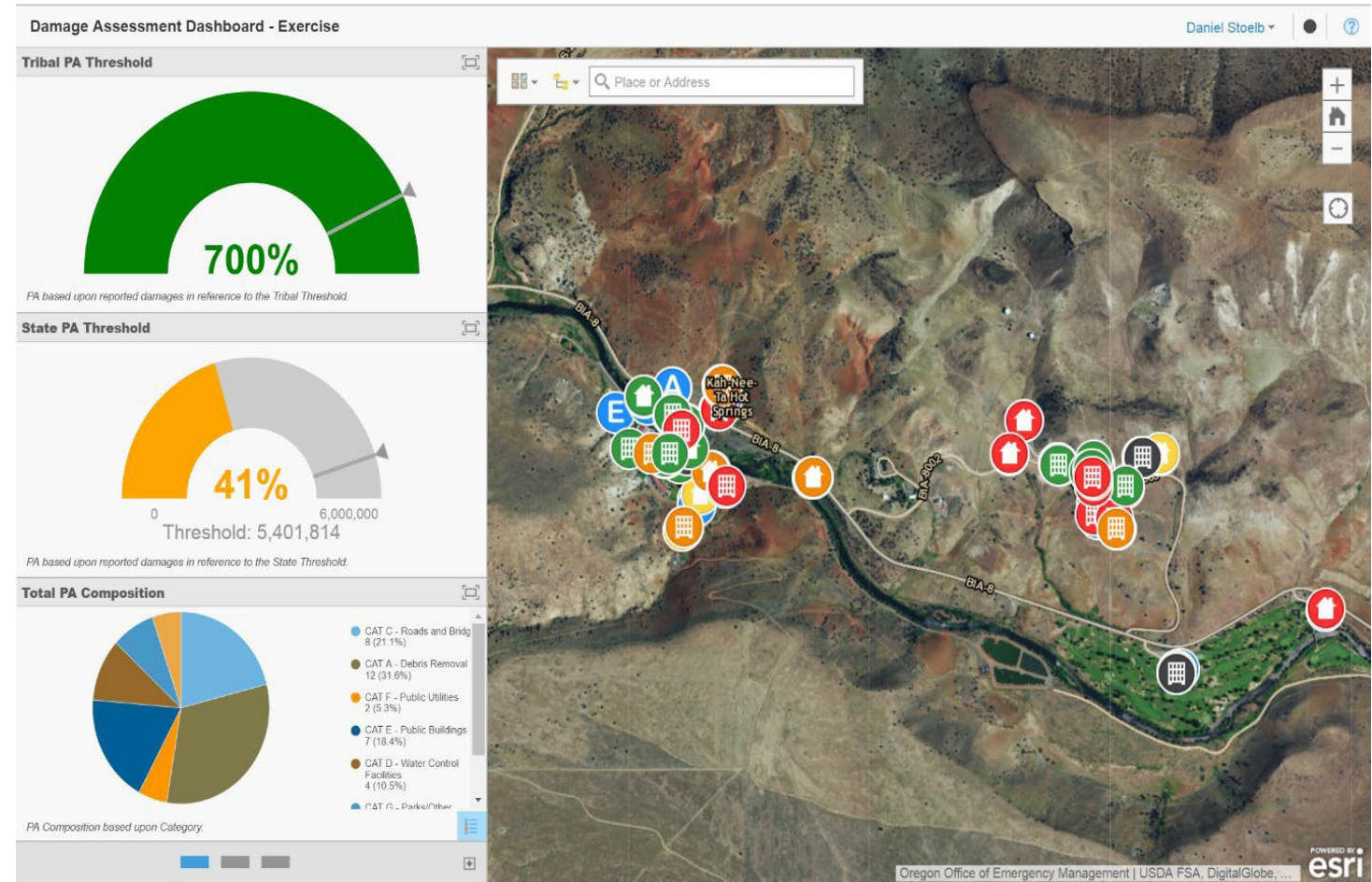
Why We Did this Project

- Critical data being gathered
- Share with partners
- Common format for data
- Reduces discrepancies/redundant efforts
- Understand what is being reported
- Helps streamline reporting to FEMA for disaster funding requests



A Little History of Using GIS for Damage Assessment

- Exercise at Oregon Prepared in 2016
- Participants installed Collector for ArcGIS on devices and grouped into 30 teams
- Information collected at various points in and around Kah-Nee-Ta resort for simulated public assistance impacts
- Data visualized in dashboards in real-time to “paint the picture” for damage impacts





A Little History of Using GIS for Damage Assessment

- 2020 Oregon Wildfires
- Multiple jurisdictions involved creating data using GIS forms/solutions
- Multiple partners generating different datasets showing disaster impacts





2020 Wildfires Lessons Learned

- Data gathered in GIS, but included different fields of data
- Lack of standardization of data
- Hard to determine what was being reported due to field naming and/or lack of specific sets of data being collected
- Redundant efforts/duplicated data
- 8 counties – 8 different sets of data with seldom any overlap
- Lack of business impact information being gathered





Damage Assessment Hub Site

- Main location to find details about the project and materials for data collection and display
- Main page includes reference documentation for the project:
 - Damage Assessment Users Guide
 - Form Documentation
- Secured access for users of the system
- Solution uses Survey123 and QuickCapture for consistent data collection



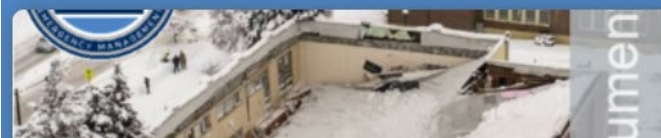
Oregon Damage Assessment Project

Q Sign In



Master hub site for the damage assessment project as a part of the Oregon Department of Emergency Management's Damage Assessment Project Initiative. This content includes details regarding the surveys for this project in addition to instructional guides and reference documentation. To view additional details, please sign in to ArcGIS Online using the top right navigation option.

Project Documents





Secured Access

- Access granted using ArcGIS Online Accounts
 - Accounts already on ArcGIS Online can be invited into relevant groups
 - If an account is needed, OEM can create as many accounts as necessary for that jurisdiction
- Groups on ArcGIS Online grant specific access for a jurisdiction

A screenshot of the ArcGIS Online interface showing two groups. Each group entry includes a letter 'B' in a square icon, the group name, the owner, creation and update dates, visibility settings, and a description. A 'Delete group' button is visible for each group.

Baker County Damage Assessment Field Workers Delete group
Owner: Oregon_OEM
Created: Mar 18, 2021 Last updated: Mar 18, 2021 Viewable by: Everyone (public)
Any organization Field workers for collecting damage assessment data for Baker County

Baker County Damage Assessment Reviewers Delete group
Owner: Oregon_OEM
Created: Mar 18, 2021 Last updated: Mar 18, 2021 Viewable by: Everyone (public)
Any organization Damage assessment reviewers group for Baker County



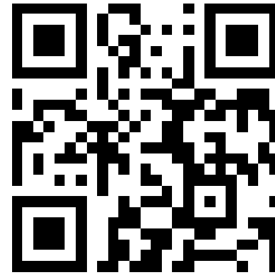
Field Workers Group

- Group is used to collect damage assessment data for your jurisdiction
- Access to Forms and Training tab on Hub Site
- Includes:
 - Access templates to download to their devices
 - View recorded trainings on how to install the surveys to their device

Forms and Training

This page includes relevant links to the forms and trainings on how to install and operate the surveys on your device.

Survey Templates



Damage Assessment QuickCapture Form

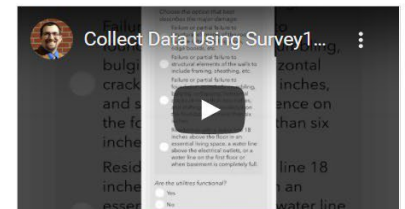
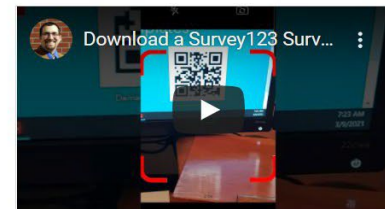


Damage Assessment Form (IA)



Public Damage Assessment Form (IA)

Instructional Guides





Reviewers Group

- Group is used to review field-collected (and public submissions if wanted) damage assessment data for your jurisdiction
- Access to your jurisdiction's tab on Hub Site
- Includes:
 - Access to collected data for business and home impacts (to view and download)
 - Attachment viewer for seeing images taken from damage assessments
 - Review dashboards for reviewing and approving damage assessments for your jurisdiction
 - Substantial damage dashboard for reviewing damages in the floodplain (for floodplain managers and delegates only)



Reviewers Group

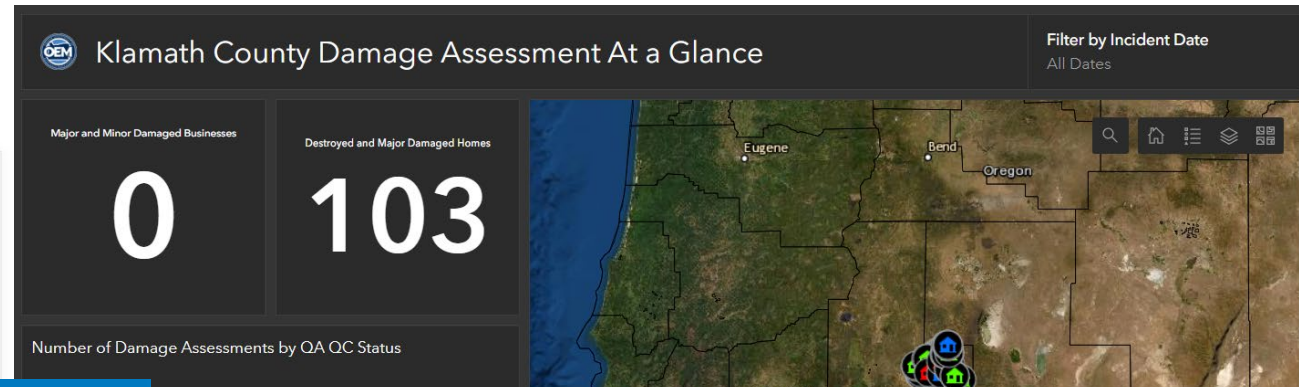
Klamath County

Below are available datasets and visualizations based upon Klamath County damage assessment data gathered.



Klamath County Individual Assistance Survey Template Reports

This file contains information regarding the damage assessments for home and business impacts.



Klamath County Damage Assessments Attachment Viewer

Klamath County Individual Assistance

Welcome!

View a location's attachments

In addition to browsing through location details and attachments, use the following methods to explore the map:

Okay

Klamath County Damage Assessment Review Dashboard

Filter by Home Damage Category: No data | Filter by Business Damage Category: No data | Filter by Incident Date: All Dates

Damage Assessment Reports

- 0.5 miles north of Cameron Dr ams Oregon Pines intersection, left side.0
Property Type:
Damage Category: Home: destroyed
Report Type:
Submitted User: Oregon_OEM
Last Reviewed Date: 9/8/2021, 1:19 PM
QA/QC Completed: yes
- 30955 Oregon Pines Rd
Property Type:
Damage Category: Home: destroyed
Report Type:
Submitted User: Oregon_OEM
Last Reviewed Date: 9/8/2021, 1:20 PM
QA/QC Completed: yes
- 35021 Lloyd Low Trail
Property Type:
Damage Category: Home: major
Report Type:
Submitted User: Oregon_OEM
Last Reviewed Date: 9/8/2021, 1:19 PM
QA/QC Completed: yes
- 35229 Lloyd Low Trail
Property Type:
Damage Category: Home: unaffected
Report Type:...

Note: list items with a red background require review.

Last update: a few seconds ago

Record Review Update Form

Please select a record using the list on the left.

Legend

Klamath County Individual Assistance Survey Template Reports

- Business: major
- Business: minor
- Business: unaffected
- Business: inaccessible
- Home: destroyed
- Home: major
- Home: minor
- Home: affected
- Home: unaffected
- Home: inaccessible

How To Use This Dashboard

Click on the record on the list on the left side of the screen to open the form record in the second panel.

This will display the record information collected from the submitted form (either from QuickCapture or Survey123).

To determine address information for QuickCapture collected data, you can click on the "Recalculate" button under any location field to calculate an estimated address for that location. These fields can be updated as necessary after this process to ensure it reflects the proper address and location information.

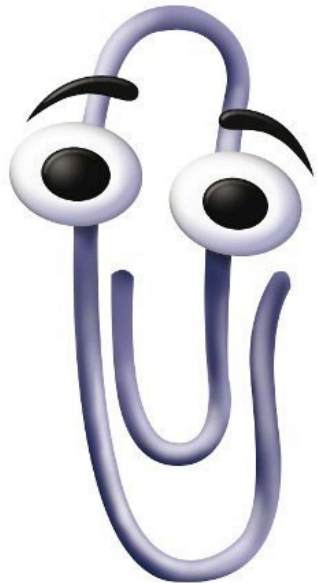
Next, update any other text and information as necessary, then change the QA/QC Reviewed field to "Yes" to indicate the record has been reviewed and approved for your jurisdiction. Then hit the "Submit" button to finalize the updates for the record. Completed records will display as a green



Questions?

Main Damage Assessment Hub Site:

<https://oregon-damage-assessment-project-geo.hub.arcgis.com/>



Daniel Stoelb

GIS Program Coordinator

503-378-3234 (desk)

971-719-0917 (cell)

Daniel.Stoelb@oem.oregon.gov



03 | Federal

FEMA Preliminary Damage Assessment on FACT

Field Assessment and Collection Tools (FACT) PDA | June 5, 2023



FEMA

What is FACT?

- FACT – Field Assessment and Collection Tools
- GIS system based on ArcGIS Enterprise Portal
- Hosts multiple application suites
- Secured system rated Mod-Mod-Mod, behind the FEMA firewall, with an Authority to Operate (ATO)



PDA Operations Start Date: *

Date

Coordinates of the damage: *

Open map below to **place pin on the structure**, not in the street.

28.563°N 81.682°W



▼ Location Information:

Street Address:

16507 Caravaggio Loop

City/Town:

Montverde

State/Territory: *

Verify the state is correct before submission (State is case sensitive)

PDA Tool Suite

- System of Record for FEMA Preliminary Damage Assessments
- Individual Assistance AND Public Assistance
- 10 Regions + HQ
- Utilize:
 - Survey123
 - Quick Capture
 - Field Maps
 - Web apps
 - Custom Reporting Application



DISCLAIMER: The following information is not for public release. This information should not be considered the final report. For the most updated PDA results, visit the [PDA Reporting application](#)

Immediate Needs

2

Last update: a few seconds ago

Assessments with Immediate Needs

Level of Damage Assessed: **Destroyed**

Address: **Beaver Flat Trl, Absarokee, Montana**

Created User: **jared.ryan1**

Description: **Homeowner cannot access home. Further flooding could cause more issues for neighborhood. Need state assistance**

Level of Damage Assessed: **Major**

Address: **Ballwater Rd, Absarokee, Montana**

Created User: **jared.ryan1**

Description: **Wife is in wheelchair. Ramp washed away. Insurance only wants to pay for steps. No flood insurance**

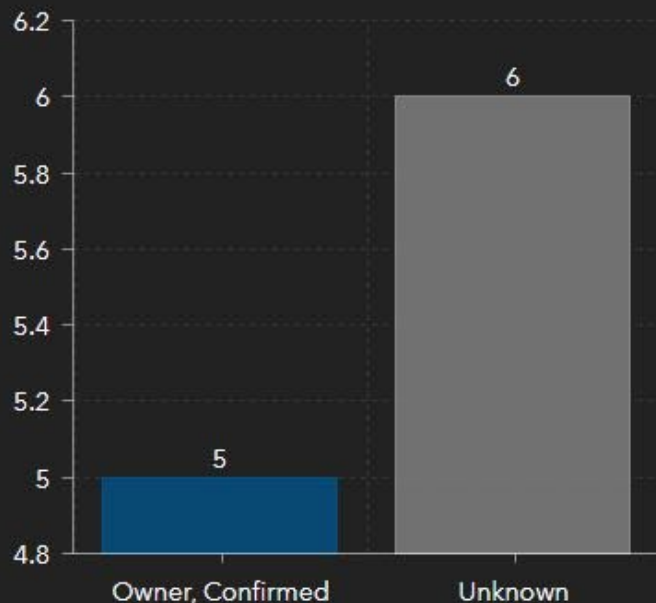
- Click to pan and zoom to points
- Click to remove filter on selection

Last update: a few seconds ago

Needs Review

Immediate Needs

Owner/Renter - Field Team Confirmed



Last update: a few seconds ago

Owner/Renter

Has Insurance

Has Flood Insurance

Total Residences Assessed

11

Last update: a few seconds ago

1 of 2

image1-20220624-182645.jpg

Attachments

image1-20220624-182645.jpg

Absarokee

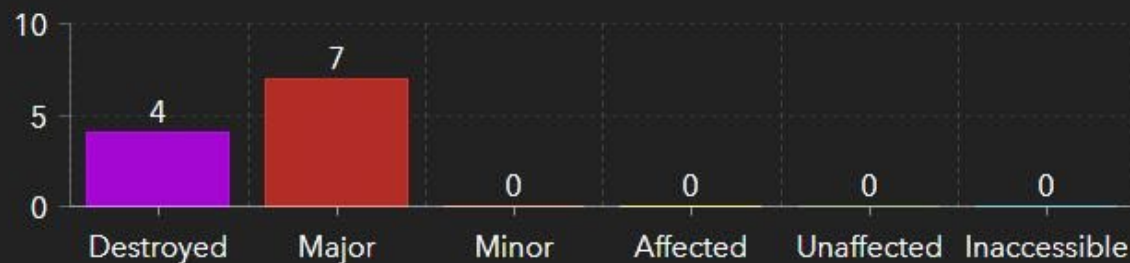
Highway

4000 ft

4000 ft

S Beaver Creek

Bureau of Land Management, Esri Canada, Esr...



Last update: a few seconds ago

Filter dashboard by PDA ID:

- All PDA IDs
- All PDA IDs
- FACTSPRNT2-PA
- FACTSPRNT4-PA
- R1PD264
- R2PD230-PR
- R3PD233
- R4PD473
- R4PD479
- R4PD480-GA
- R4PD482
- R4PD483
- R4PD485

Damage Sites Needing Review



Last update: a few seconds ago

Damage Sites Needing Review

Applicant Name: Clay county
 Category: Debris Removal (A)
 Address: , , Kentucky
 Submitted User:

Applicant Name: Clay
 Category: Debris Removal (A)
 Address: , , Kentucky
 Submitted User:

Applicant Name: Clay county
 Category: Debris Removal (A)
 Address: , , Kentucky

- Click to pan and zoom to points
- Click to remove filter on selection

Last update: a few seconds ago

Needs Review Large Projects

5 of 5

last_edited_date 10/24/2022

Collection Type

image1-20220809-132809.jpg

6 of 6

Attachments

- image1-20220809-132457.jpg
- image1-20220809-132513.jpg
- image1-20220809-132613.jpg

Esri, HERE, Garmin, USGS, NGA, EPA, ...

Debris Removal (A)

\$50,217

2 Surveys
Last update: a few seconds ago

Emergency Protective Measures (B)

\$36,205

3 Surveys
Last update: a few seconds ago

Roads and Bridges (C)

\$1,966,130

41 Surveys
Last update: a few seconds ago

Category D: 0

Last update: a few seconds ago

Category E: 0

Last update: a few seconds ago

Utilities (F)

\$95,000

3 Surveys
Last update: a few seconds ago

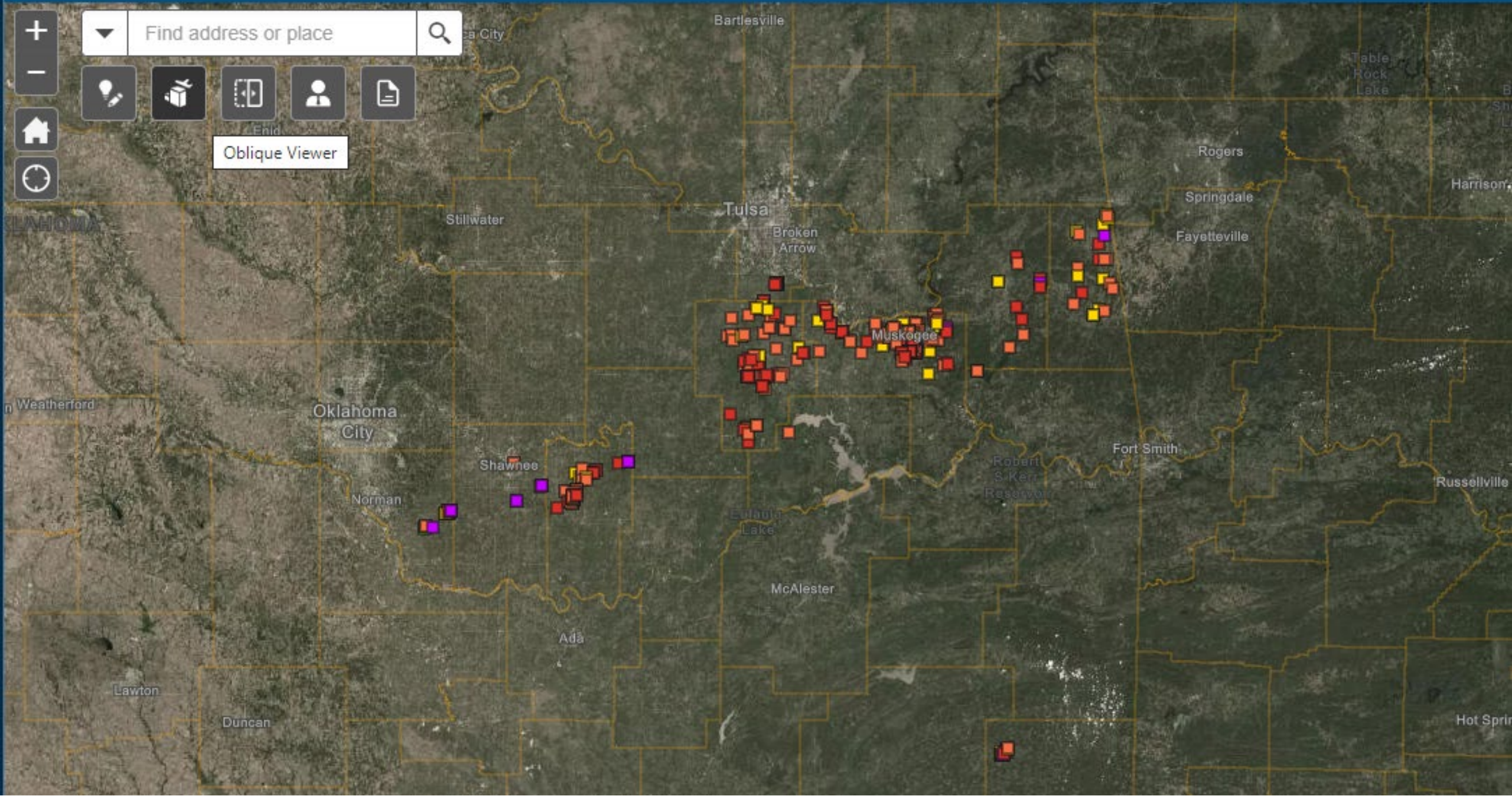
Beaches, Parks, Transit & Other (G)

\$4,800

1 Surveys
Last update: a few seconds ago

DISCLAIMER: The following information is not for public release. This information should not be considered the final report. For the most updated PDA results, visit the PDA Reporting application

Map navigation and search controls including zoom in (+), zoom out (-), search bar (Find address or place), and various tool icons (lightbulb, box, phone, person, document, home, refresh). A tooltip for 'Oblique Viewer' is visible over the 'phone' icon.



PDA Reporting Application – Cost Estimates for IA & PA



 Sensitive Personally Identifiable Information Not Allowed ([What is this?](#))

[Sign In to View Reports](#)

[Home](#) [Individual Assistance \(IA\) ▾](#) [Public Assistance \(PA\) ▾](#) [FACT ▾](#)

PDA Reporting Application

The FACT PDA Reporting Application Version is the official source of all Preliminary Damage Assessment cost estimates and calculations to inform the Regional Administrator's Validation and Recommendation (RVAR). The PDA Reporting Application applies FEMA policy to FEMA PDA data and produces reports for both Individual Assistance (IA) and Public Assistance (PA) PDAs accordingly. IA users may adjust several calculation factors on the Search Parameters and Options tab of the Individuals and Households Program (IHP) Cost Projection Calculator report, including Average Damage Award amounts and Other Needs Assistance (ONA) rates. All reports are exportable in pdf format.



Preliminary Damage Assessment (PDA) Reporting Application Version 4.3.2
An official website of the **U.S. Department of Homeland Security**

[FEMA](#)
[Privacy](#)
[Accessibility](#)
[Plug-Ins](#)

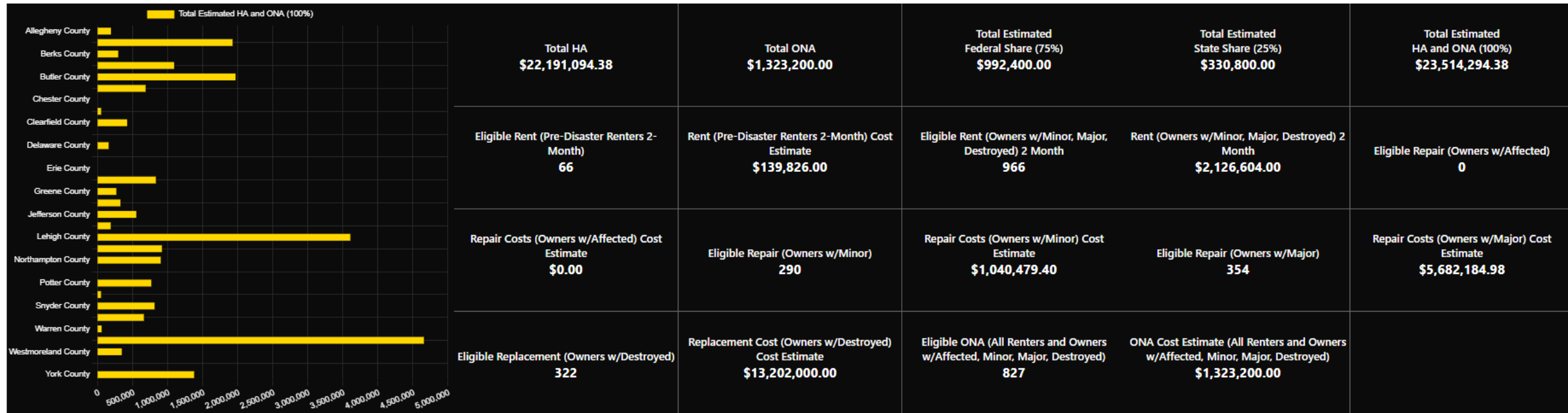
[Ready.gov](#)
[FOIA](#)
[No FEAR Act](#)
[Report Disaster Fraud](#)

[DHS.gov](#)
[USA.gov](#)
[Inspector General](#)

Individuals and Households Program (IHP) Cost Projection Calculator

Individuals and Households Program (IHP) Cost Projection Calculator

SEARCH PARAMETERS AND OPTIONS SEARCH RESULTS SUMMARY PDA NUMBERS **COST ESTIMATE BY COUNTY** COST ESTIMATE SUMMARY EXPORT



County	Total HA	Total ONA	Total Estimated Federal Share (75%)	Total Estimated State Share (25%)	Total Estimated HA and ONA (100%)
All Counties	\$22,191,094.38	\$1,323,200.00	\$992,400.00	\$330,800.00	\$23,514,294.38
Eligible Rent (Pre-Disaster Renters 2-Month)	66	Rent (Pre-Disaster Renters 2-Month) Cost Estimate	966	Rent (Owners w/Minor, Major, Destroyed) 2 Month	0
		\$139,826.00		\$2,126,604.00	
Repair Costs (Owners w/Affected) Cost Estimate	\$0.00	Eligible Repair (Owners w/Minor)	Repair Costs (Owners w/Minor) Cost Estimate	Eligible Repair (Owners w/Major)	Repair Costs (Owners w/Major) Cost Estimate
		290	\$1,040,479.40	354	\$5,682,184.98
Eligible Replacement (Owners w/Destroyed)	322	Replacement Cost (Owners w/Destroyed) Cost Estimate	Eligible ONA (All Renters and Owners w/Affected, Minor, Major, Destroyed)	ONA Cost Estimate (All Renters and Owners w/Affected, Minor, Major, Destroyed)	
		\$13,202,000.00	827	\$1,323,200.00	

Show/Hide Column: County Name - Eligible Rent (Pre-Disaster Renters 2-Month) - Rent (Pre-Disaster Renters 2-Month) Cost Estimate - Eligible Rent (Owners w/Minor, Major, Destroyed) 2 Month - Rent (Owners w/Minor, Major, Destroyed) 2 Month - Eligible Repair (Owners w/Affected) - Repair Costs (Owners w/Affected) Cost Estimate - Eligible Repair (Owners w/Minor) - Repair Costs (Owners w/Minor) Cost Estimate - Eligible Repair (Owners w/Major) - Repair Costs (Owners w/Major) Cost Estimate - Eligible Replacement (Owners w/Destroyed) - Replacement Cost (Owners w/Destroyed) Cost Estimate - Total HA - Eligible ONA - ONA Cost Estimate - Total ONA - Total Estimated Federal Share (75%) - Total Estimated State Share (25%) - Total Estimated HA and ONA (100%)

Search:

County Name	Eligible Rent (Pre-Disaster Renters 2-Month)	Rent (Pre-Disaster Renters 2-Month) Cost Estimate	Eligible Rent (Owners w/Minor, Major, Destroyed) 2 Month	Rent (Owners w/Minor, Major, Destroyed) 2 Month	Eligible Repair (Owners w/Affected)	Repair Costs (Owners w/Affected) Cost Estimate	Eligible Repair (Owners w/Minor)	Repair Costs (Owners w/Minor) Cost Estimate	Eligible Repair (Owners w/Major)	Repair Costs (Owners w/Major) Cost Estimate	Eligible Replacement (Owners w/Destroyed)	Replacement Cost (Owners w/Destroyed) Cost Estimate	Total HA	Eligible ONA	ONA Cost Estimate	Total ONA	Total Estimated Federal Share (75%)	Total Estimated State Share (25%)
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Individuals and Households Program (IHP) Cost Projection Calculator

[SEARCH PARAMETERS AND OPTIONS](#)
 [SEARCH RESULTS SUMMARY](#)
 [PDA NUMBERS](#)
 [COST ESTIMATE BY COUNTY](#)
 [COST ESTIMATE SUMMARY](#)
 [EXPORT](#)

Estimated Housing Assistance (HA)	Number of Households (uninsured)	Cost	Total Cost	Category Total Cost
Temporary Housing				
Rent (Pre-Disaster Renters) (Owners w/Minor, Major or Destroyed) - 2 month	1032	\$2,085.29	\$2,266,430.00	
Total Temporary Housing:				\$2,266,430.00
Repair Assistance				
Repair Costs (Owners w/Affected)	0	\$1,500.00	\$0.00	
Repair Costs (Owners w/Minor)	290	\$3,587.86	\$1,040,479.40	
Repair Costs (Owners w/Major)	354	\$16,051.37	\$5,682,184.98	
Total Repair Assistance:				\$6,722,664.38
Replacement Assistance				
Replacement Costs (Owners w/Destroyed)	322	\$41,000.00	\$13,202,000.00	
Total Replacement Assistance:				\$13,202,000.00
Total Estimated Housing Assistance (HA)	1998		\$22,191,094.38	\$22,191,094.38

Estimated Other Needs Assistance (ONA)	Number of Households (uninsured)	Cost	Total Cost	Category Total Cost
Other Needs Assistance (ONA)				
ONA (All Renters and Owners w/Affected, Minor, Major, and Destroyed)	827	\$1,600.00	\$1,323,200.00	
Total Estimated ONA:	827		\$1,323,200.00	\$1,323,200.00

Cost Estimate Summary	Total Cost
Total Estimated ONA (75% Federal Share)	\$992,400.00
Total Estimated ONA (25% State Share)	\$330,800.00
Total Estimated HA and ONA (75% Federal Share)	\$23,183,494.38
Total Estimated HA and ONA (100% Costs)	\$23,514,294.38



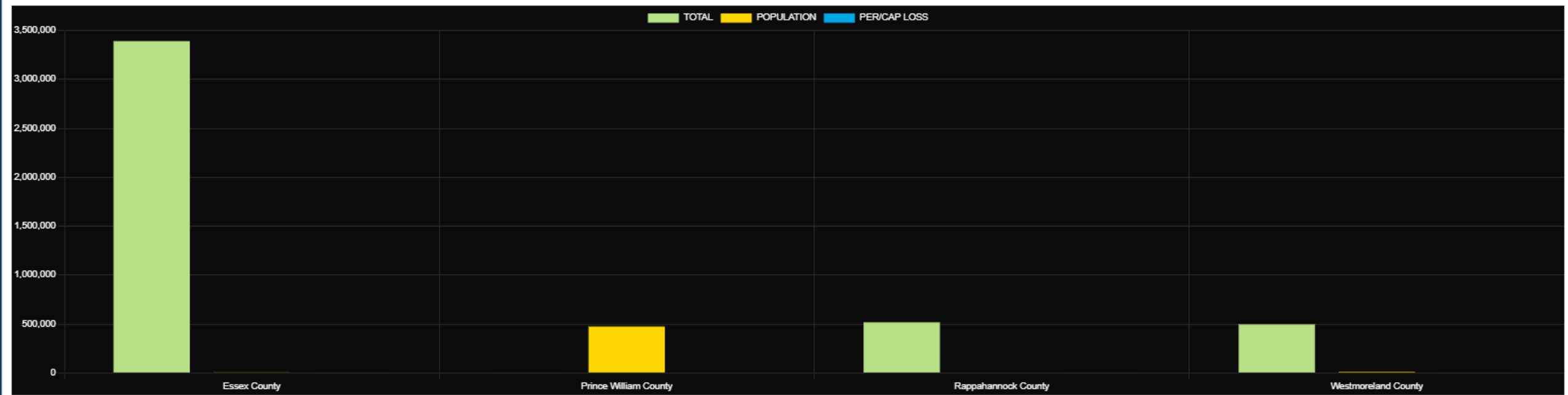
Show/Hide Column: JURISDICTION - [CATEGORY A](#) - [CATEGORY B](#) - [CATEGORY C](#) - [CATEGORY D](#) - [CATEGORY E](#) - [CATEGORY F](#) - [CATEGORY G](#) - [TOTAL](#)

Search:

JURISDICTION	CATEGORY A	CATEGORY B	CATEGORY C	CATEGORY D	CATEGORY E	CATEGORY F	CATEGORY G	TOTAL
Essex County	\$200,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,200,000.00	\$0.00	\$3,400,000.00
Prince William County	\$100.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$100.00
Rappahannock County	\$0.00	\$0.00	\$0.00	\$525,000.00	\$0.00	\$0.00	\$0.00	\$525,000.00

Master Summary

SEARCH PARAMETERS AND OPTIONS SEARCH RESULTS SUMMARY COST THRESHOLD SUMMARY **STATE SUMMARY** ESTIMATE OF ELIGIBLE PA EXPORT



Show/Hide Column: COUNTY - CATEGORY A - CATEGORY B - CATEGORY C - CATEGORY D - CATEGORY E - CATEGORY F - CATEGORY G - TOTAL - POPULATION - PER/CAP LOSS

Search:

COUNTY NAME	CATEGORY A	CATEGORY B	CATEGORY C	CATEGORY D	CATEGORY E	CATEGORY F	CATEGORY G	TOTAL	POPULATION	PER/CAP LOSS
Essex County	\$200,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,200,000.00	\$0.00	\$3,400,000.00	10,599	\$320.78
Prince William County	\$100.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$100.00	482,204	\$0.00
Rappahannock County	\$0.00	\$0.00	\$0.00	\$525,000.00	\$0.00	\$0.00	\$0.00	\$525,000.00	7,348	\$71.45
Westmoreland County	\$140,000.00	\$125,000.00	\$180,000.00	\$54,555.00	\$0.00	\$0.00	\$4,545.00	\$504,100.00	18,477	\$27.28
Statewide Total	\$340,100.00	\$125,000.00	\$180,000.00	\$579,555.00	\$0.00	\$3,200,000.00	\$4,545.00	\$4,429,200.00	8,631,393	\$0.51

Showing 1 to 4 of 4 entries

Previous 1 Next

Master Summary

SEARCH PARAMETERS AND OPTIONS SEARCH RESULTS SUMMARY COST THRESHOLD SUMMARY STATE SUMMARY ESTIMATE OF ELIGIBLE PA EXPORT

[ESSEX COUNTY](#)
 [PRINCE WILLIAM COUNTY](#)
 [RAPPAHANNOCK COUNTY](#)
 [WESTMORELAND COUNTY](#)

TABLE A. ESTIMATE OF ELIGIBLE PUBLIC ASSISTANCE

PDA Conducted: 6/7/2021 - 5/22/2023 County of: **Westmoreland County** County Population: **18,477** State/Territory: Virginia

Show/Hide Column: [APPLICANT](#) - [CATEGORY A](#) - [CATEGORY B](#) - [CATEGORY C](#) - [CATEGORY D](#) - [CATEGORY E](#) - [CATEGORY F](#) - [CATEGORY G](#) - [TOTAL](#) - [POPULATION](#) - [PER/CAP LOSS](#)

Search:

APPLICANT	CATEGORY A	CATEGORY B	CATEGORY C	CATEGORY D	CATEGORY E	CATEGORY F	CATEGORY G	TOTAL	POPULATION	PER/CAP LOSS
gov	\$140,000.00	\$0.00	\$25,000.00	\$54,555.00	\$0.00	\$0.00	\$0.00	\$219,555.00	18,477	\$11.88
Gov	\$0.00	\$125,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,545.00	\$129,545.00	18,477	\$7.01
Gov B	\$0.00	\$0.00	\$155,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$155,000.00	18,477	\$8.39
*TOTAL:	\$140,000.00 (\$140,000.00 total)	\$125,000.00 (\$125,000.00 total)	\$180,000.00 (\$180,000.00 total)	\$54,555.00 (\$54,555.00 total)	\$0.00 (\$0.00 total)	\$0.00 (\$0.00 total)	\$4,545.00 (\$4,545.00 total)	\$504,100.00 (\$504,100.00 total)	18,477 (18,477 total)	\$27.28 (\$27.28 total)

Showing 1 to 3 of 3 entries

Previous 1 Next

*The two numbers in the the totals row correspond to the page total and the cumulative total for all results respectively

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Preliminary Damage Assessments

English

Reports & Guide | How to Conduct a PDA | **Digital Damage Surveys** | Additional Resources

Preliminary Damage Assessments (PDAs) are conducted to enable FEMA — as well as state, local, tribal, and territorial partners — to determine the magnitude of damage and impact of disasters.

PDA Reports
[View all Preliminary Damage Assessment \(PDA\) reports](#) for major disaster declaration requests.

PDA Guide
[View the PDA Guide](#) — a standard framework for conducting PDAs following a disaster — and related

Current Options for Streamlining with SLTT

- Survey Templates – [Preliminary Damage Assessments | FEMA.gov](#)
- Templates are downloadable in .xls format.
- Collect damage information in the same data format as FEMA.
- Add questions that are important to your jurisdiction.
- Import File Geodatabase from any GIS
 - External Data Validation Tool: **Florida**
 - Field Maps: **Montana**

How to Share IDA Data with FEMA

- FEMA can accept IDA geospatial datasets from SLTT partners.
- Fact sheet identifies how to share initial damage assessment data with FEMA Regions.
- FEMA will upload data into FACT for validation and records management.
- Recommended file format is a file geodatabase (.gdb) or excel (.csv).



FEMA Fact Sheet

How to Share Initial Damage Assessment Geospatial Datasets with FEMA

FEMA can accept initial damage assessment (IDA) geospatial datasets from state, tribal, and territorial (STT) governments. The dataset will be uploaded to FEMA's Field Assessment and Collection Tools (FACT) System for review by the FEMA Regional Office as part of a virtual Joint Preliminary Damage Assessment (PDA) or to inform and coordinate an in-person Joint PDA.

Digital Damage Assessment Surveys

- FEMA utilizes a digital damage assessment survey to collect damage information during Joint Preliminary Damage Assessments (PDA).
- The templates for FEMA's surveys are publicly available on [FEMA.gov/PDA](https://www.fema.gov/pda) for state, local, tribal, and territorial (SLTT) jurisdictions to use when seeking to adopt digital damage surveys for their initial or windshield assessment operations.
- SLTT jurisdictions may edit the templates and add any additional questions, as desired. As posted, the templates allow jurisdictions to collect the same data during the IDA that FEMA will need to review, assess, and validate during the Joint PDA.

Process for Submitting IDA Data to The FEMA Regional Office

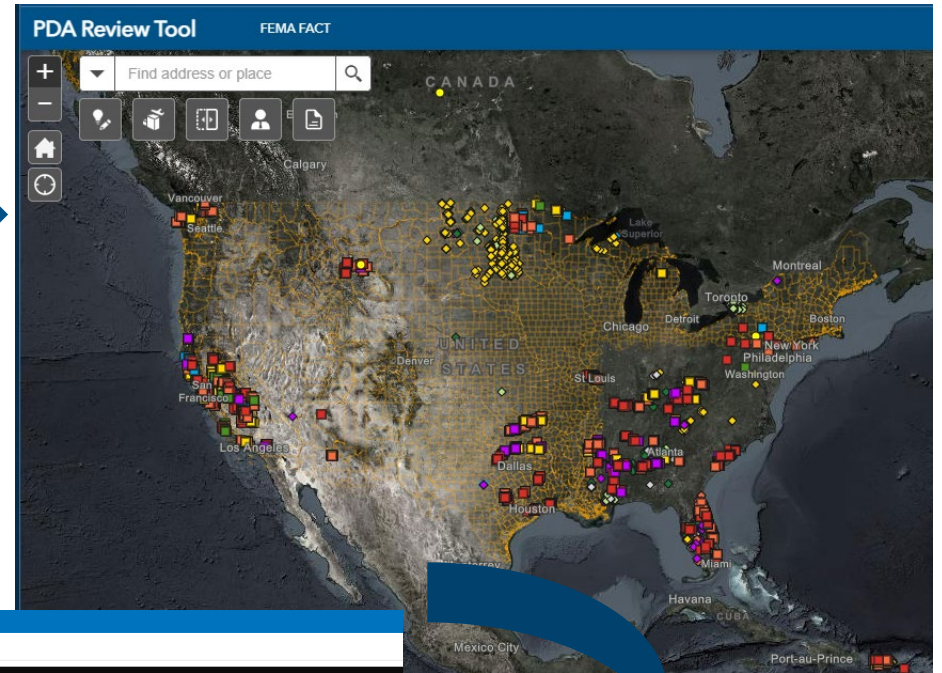
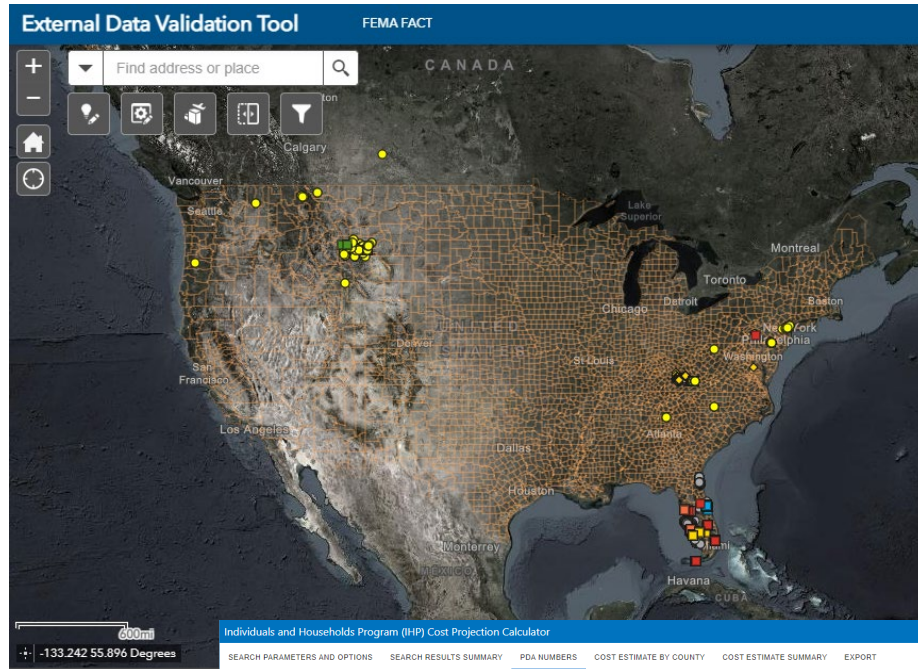
- Following a disaster, an STT may choose to use the [digital survey template](#) for the initial assessment of damages, as outlined in 44 CFR § 206.33(a), to request a Joint PDA.
- When requesting a Joint PDA, STT emergency management officials may choose to coordinate with their geospatial information systems (GIS) counterparts in order to download a file geodatabase (.gdb) version of the IDA dataset. This file format is the most efficient way for FEMA to review IDA data.
 - A file geodatabase file format of the data is especially helpful as it allows FEMA to review photos associated with each damage location on the map.
 - Excel files (.csv) are a secondary option but are not preferred since this format will not transmit photos. Without photos, FEMA cannot visualize damages to inform the strategy of a field operation or virtually assess damages during a remote assessment.
- Once FEMA has uploaded the STT's file geodatabase (.gdb) into the FACT System, the Regional Office will determine, in coordination with the STT, whether the Joint PDA will be in-person, virtual, or a hybrid of each.
 - For virtual PDAs, the STT file geodatabase dataset can be validated directly within the FACT System in conjunction with a pre-arranged virtual collaboration/meeting platform.
 - For in-person PDAs, the FEMA PDA Coordinator and Field Assessors can review damage points on the map in order to build a common operating picture prior to before deploying to the field.



October 2021 | 1 of 1

Where does my initial damage assessment data go?

SLTT IDA Dataset




FEMA

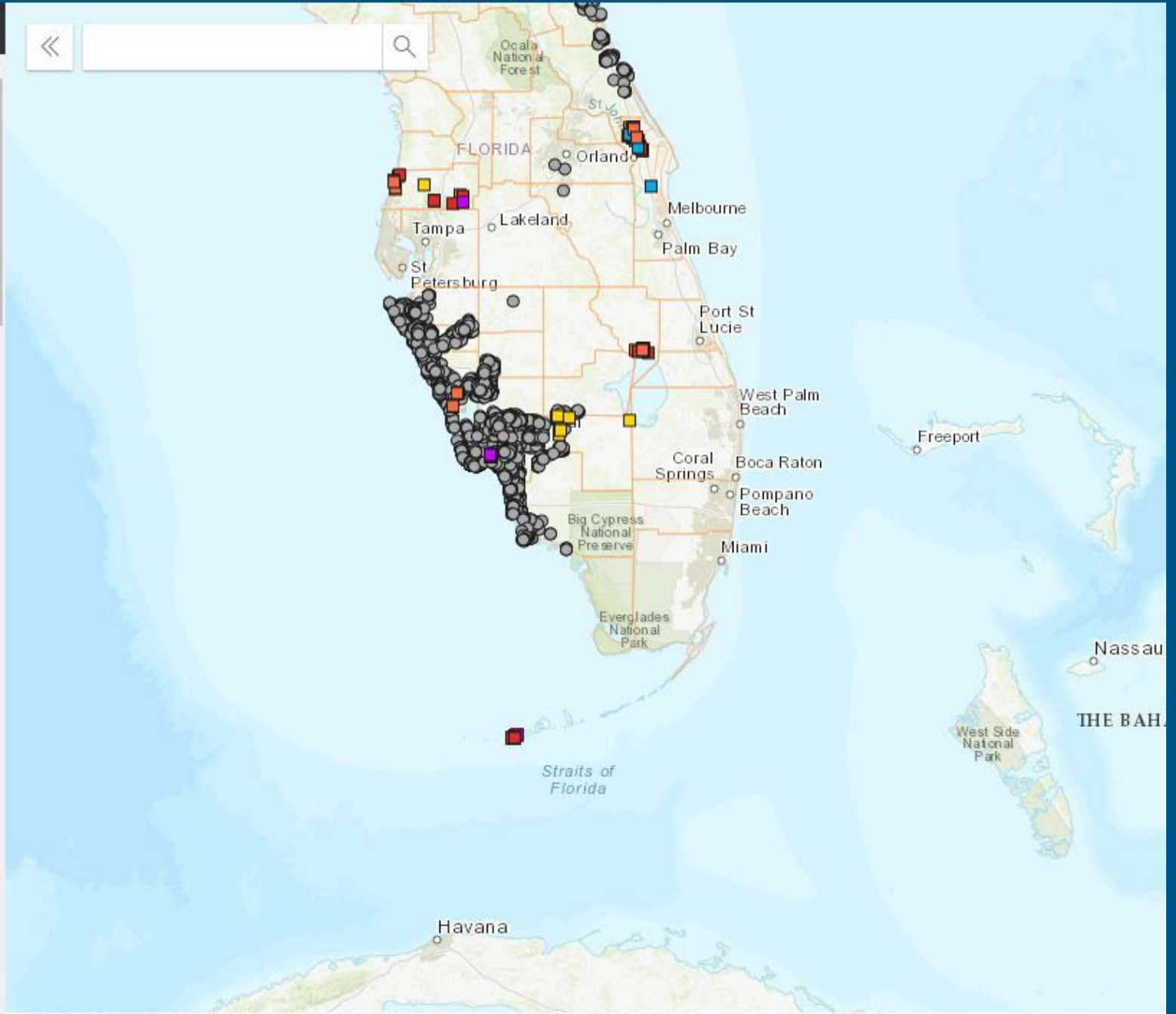
External Data Validation Tool

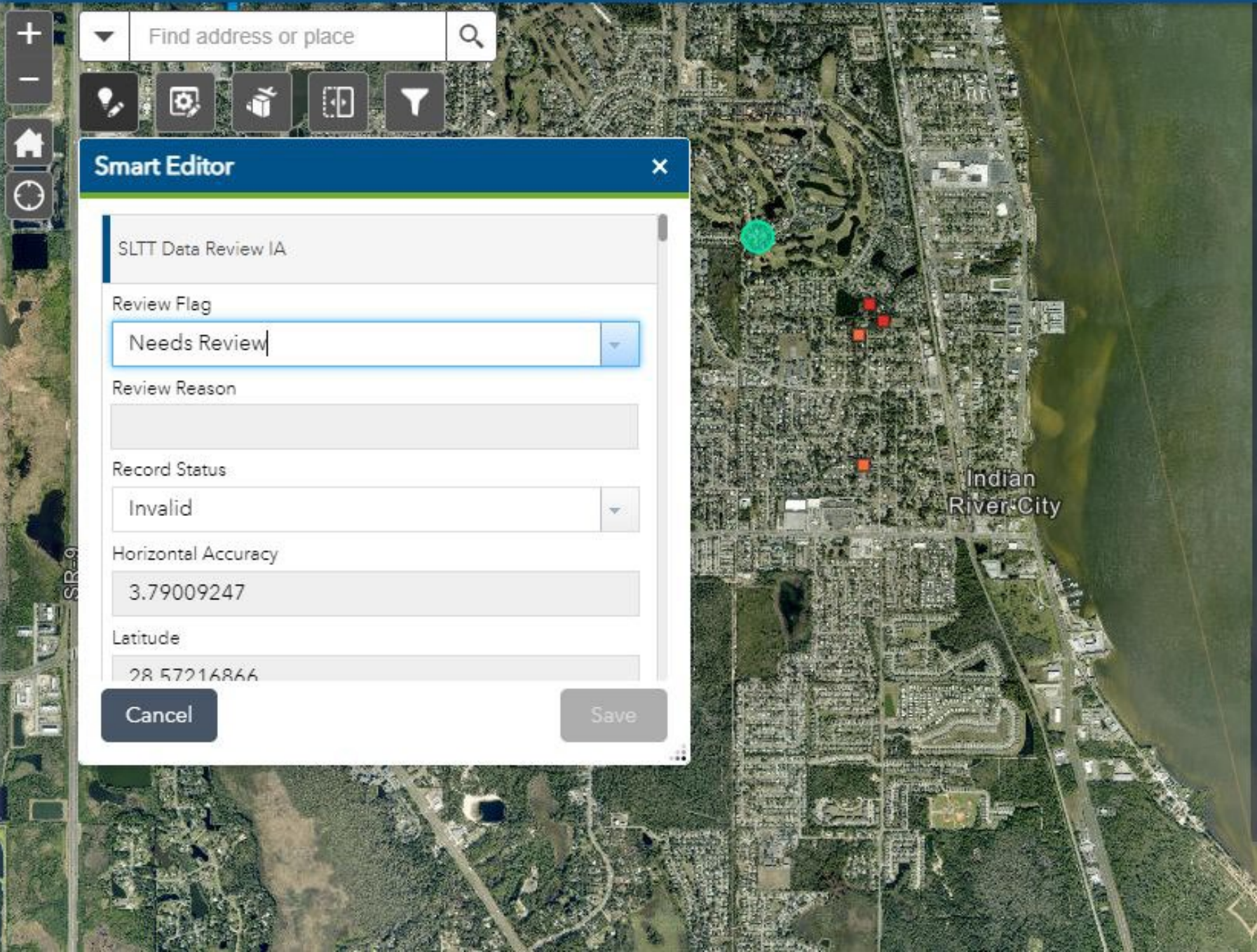
Florida



FEMA

SLTT Data Review IA 





Find address or place



Smart Editor

SLTT Data Review IA

Review Flag
Needs Review

Review Reason

Record Status
Invalid

Horizontal Accuracy
3.79009247

Latitude
28.57216866

Cancel

Save

Indian River City

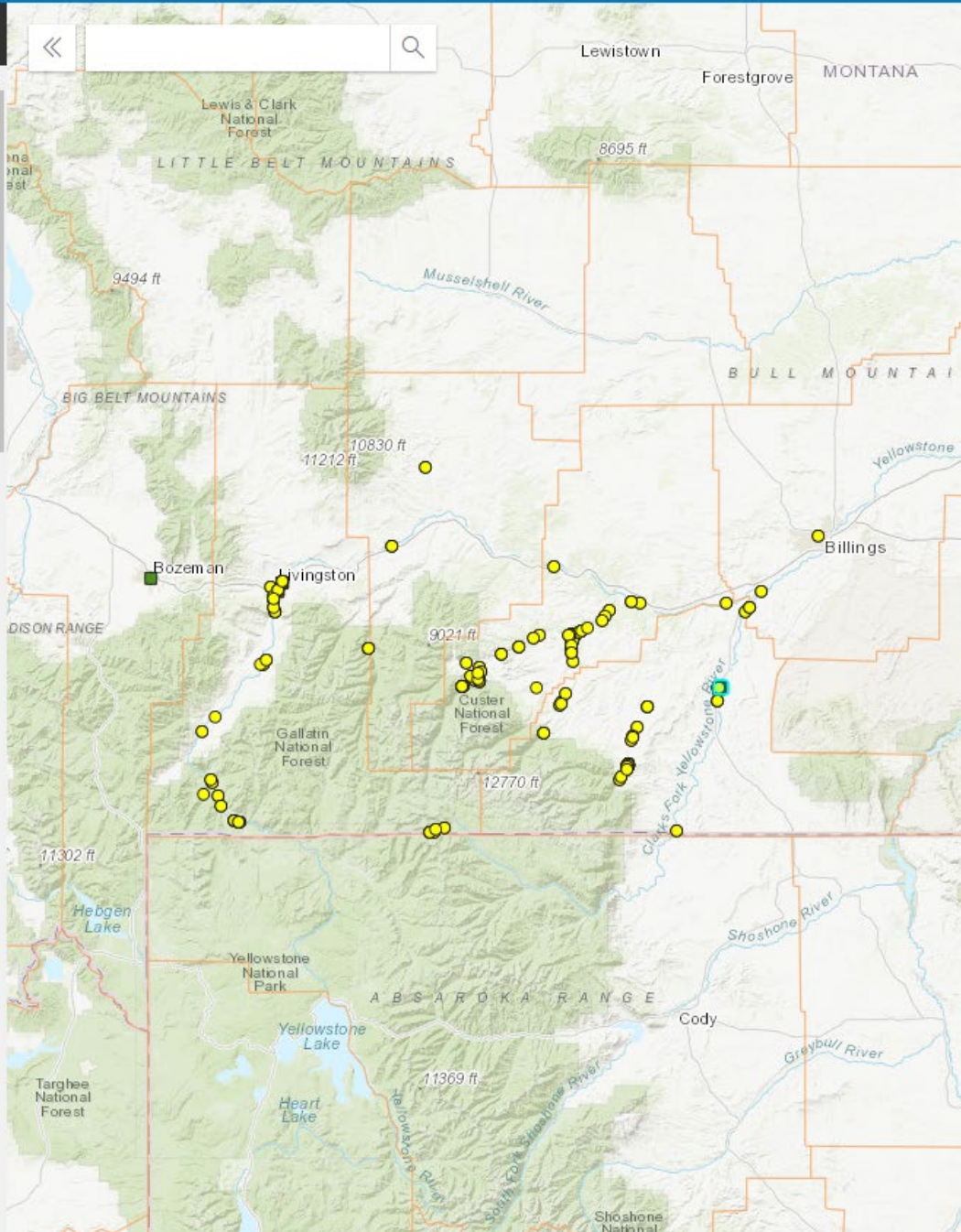
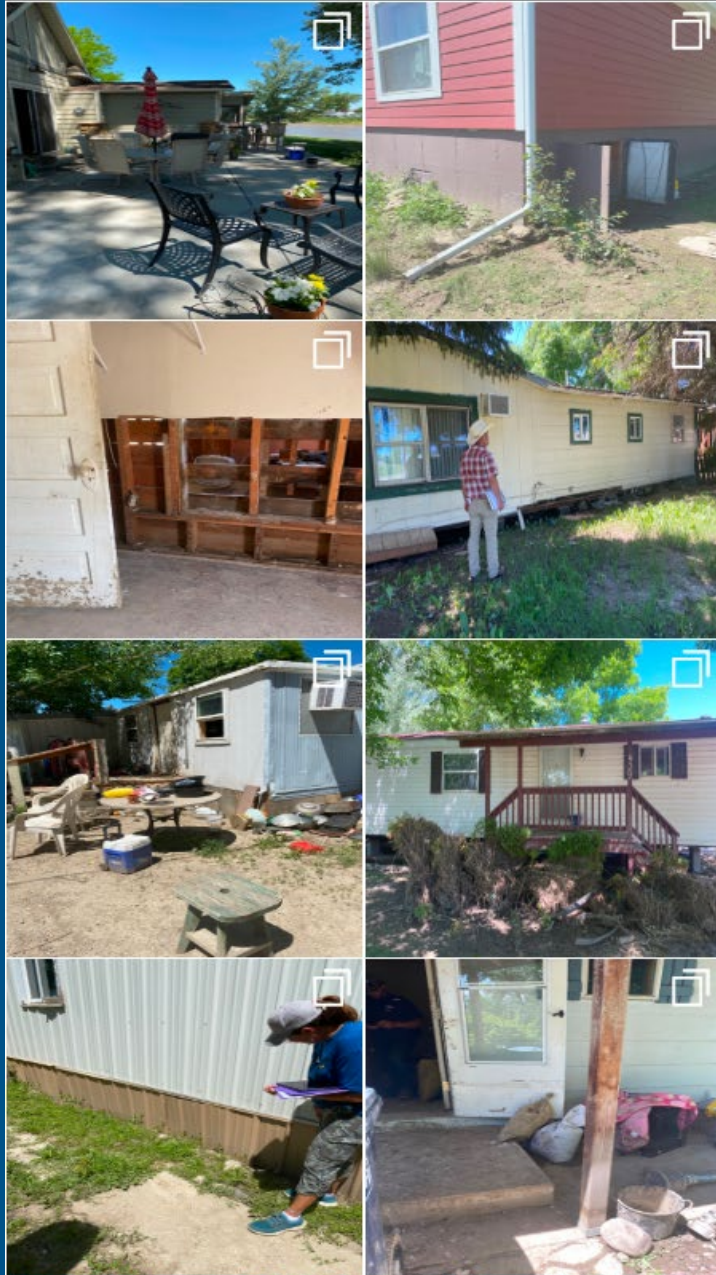
Field Maps

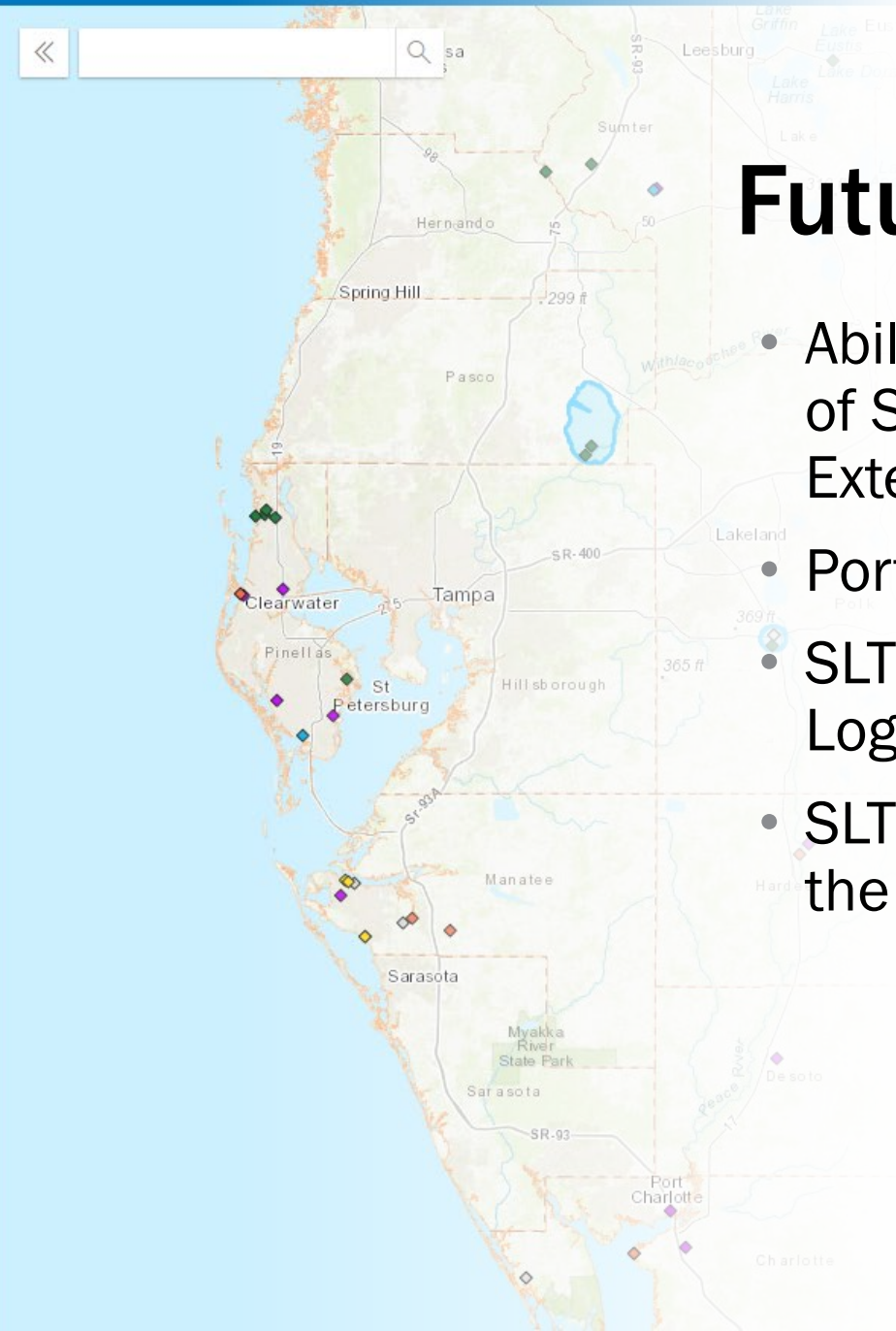
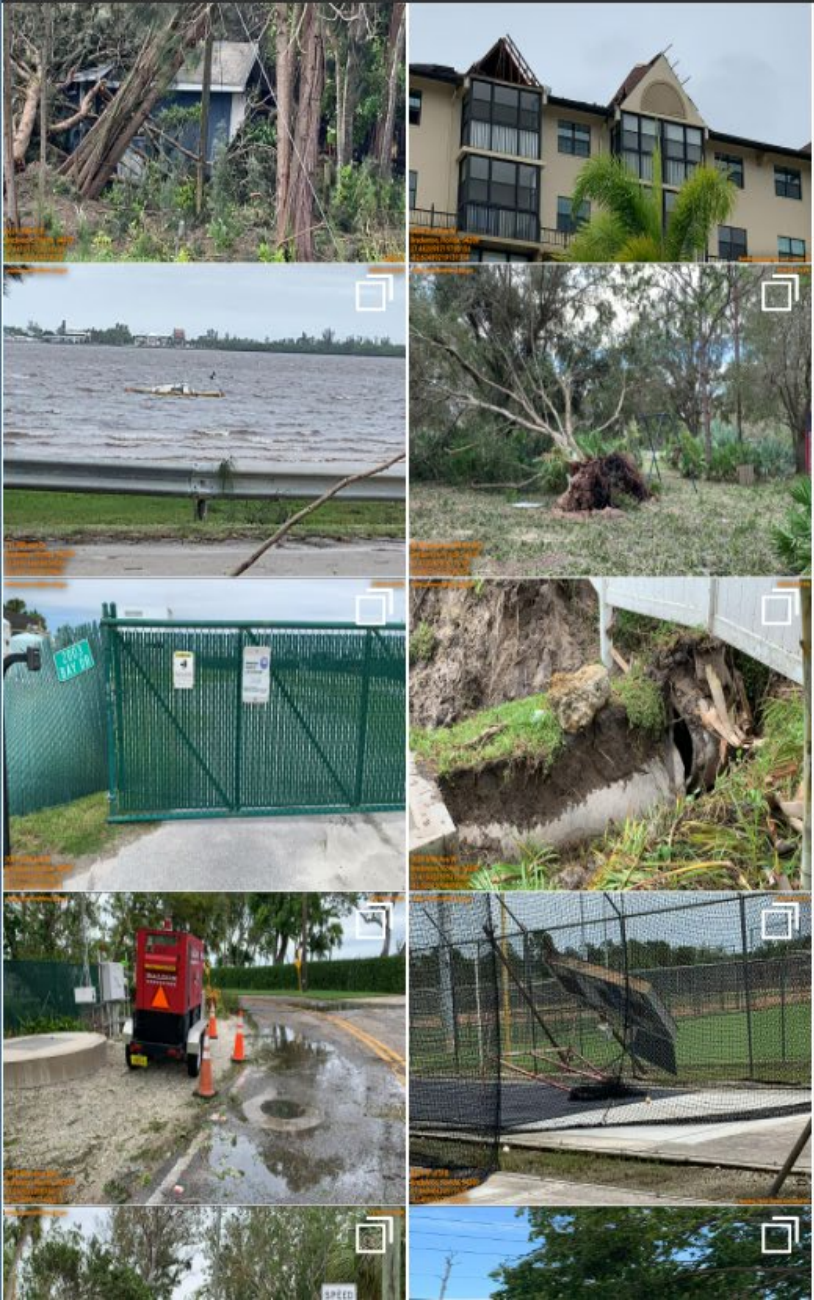
Montana



FEMA

SLTT Data Review IA





Future

- Ability to automate sharing of SLTT IDA data into FACT External validation tool
- Portal collaboration
- SLTT partner tools via Login.gov
- SLTT accessible version of the Reporting App

Contacts

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PDA Technical Specialist/PDA Product Owner

Jonathan.Montenegro@fema.dhs.gov



FEMA

04 | Wrap Up

Call to Action

- Connect with your partners, e.g., SLTT, **FEMA RGC**, and Regional PDA Coordinators
- Visit the Oregon Damage Assessment Hub to get a jump start or borrow ideas for your programs
<https://oregon-damage-assessment-project-geo.hub.arcgis.com/>
- Download the FEMA S123 template PDA Tool Suite
<https://www.fema.gov/fact-sheet/how-share-initial-damage-assessment-geospatial-datasets-fema>



FEMA Regional Geospatial Contacts

Region I:

FEMA_Region1_GIS@fema.dhs.gov

Region II:

r02-rrcc-giul@fema.dhs.gov

Region III:

Fema-R3-GIS@fema.dhs.gov

Region IV:

R4-GIS@fema.dhs.gov

Region V:

fema-r5-gis@fema.dhs.gov

Region VI:

R06-rrcc-giul@fema.dhs.gov

Region VII:

R7-RS-GIS@fema.dhs.gov

Region VIII:

FEMA-R8-GIS@fema.dhs.gov

Region IX:

FEMA-R9-GIUL@fema.dhs.gov

Region X:

FEMA-R10-GIS@fema.dhs.gov



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Region	IA PDA Coordinators	PA PDA Coordinators
1	Sam Harvey Katie Brayshaw	Anna Swenson Rob Irby
2	Malcolm Hardy Amit Patel Kelly Higgs	Walt Ziegler Theresa Casazza
3	John Donahue	Cassandra Newman Kristin Schmitz
4	Cordell Ewell Khin Htwe Robert Broadwater	Lee Edge Phillip Jones Cynthia Belton
5	Scott Richardson Richard Foody	Catherine Warren
6	Susan Muhlbauer Chance Macneill	Matthew Wadsworth
7	Jim Yost Cory Fast	Marcus Friedrich
8	April Lipinski Trena Morse	Jean Petkovsek Jordan Christianson
9	Tina Rafferty Brian Bui Andrea (Shahdy) Monemzadeh	
10	Nika Herford Leah Lubin	Mariko Kobayashi Nic Granum

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Oregon Damage Assessment Project

Master hub site for the damage assessment project as a part of the Oregon Department of Emergency Management's Damage Assessment Project Initiative. This content includes details regarding the surveys for this project in addition to instructional guides and reference documentation. To view additional details, please sign in to ArcGIS Online using the top right navigation option.

Project Documents

Damage Assessment Reference Guide

Damage assessment reference guide. Includes details regarding what damage assessment is and recommendations on how to conduct an assessment.

View

Form Design Template

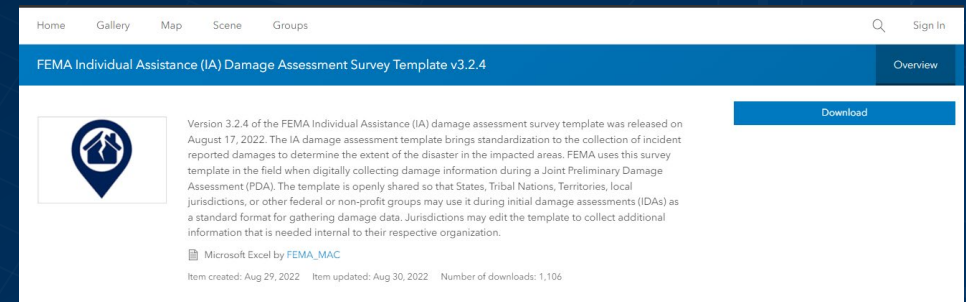
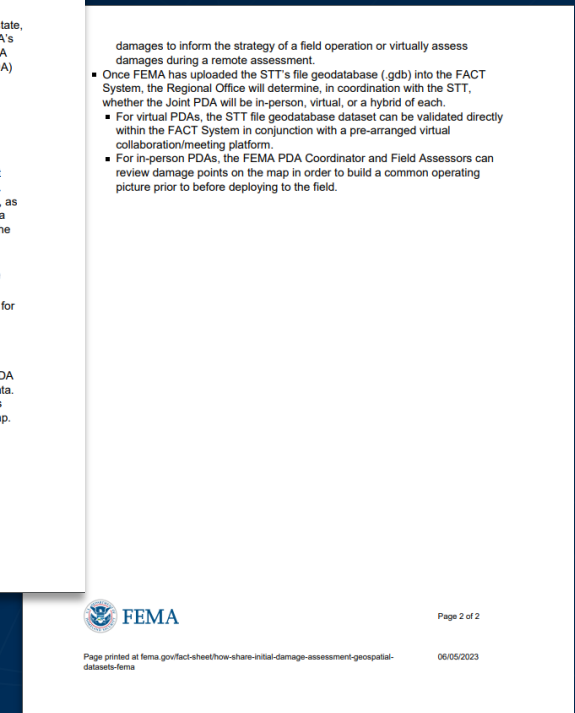
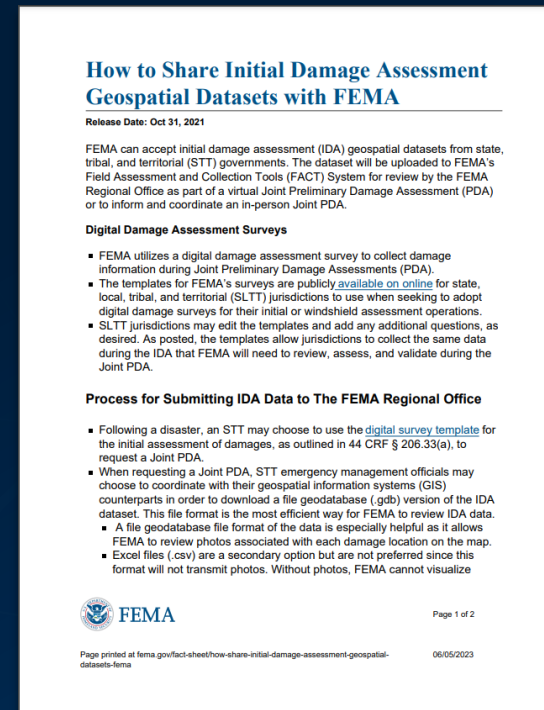
Indicates the form design template for the Damage Assessment Project. Displays what data are collected on each form for damage assessment.

View

Explore Feeds Manage Privacy

Call to Action

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*November 16 & 17
at the Dubois Center,
University of North Carolina
Charlotte*



THANKS!

Do you have any questions?
tmartin@publicsafetygis.org
napsgfoundation.org/

@napsgfoundation

