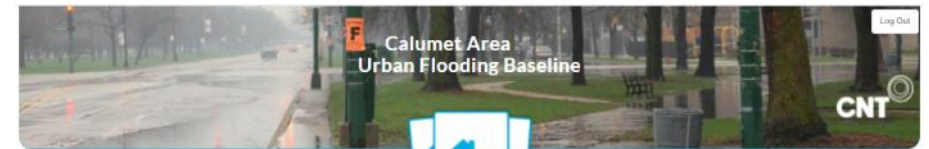


Calumet Stormwater Collaborative
Update 8/6/2021

Calumet Urban Flooding Baseline

The screenshot shows the top navigation bar with links for 'About', 'Maps & Analysis', 'User Guide', and 'Flood Stories & Photos'. Below the navigation is a search bar with three tabs: 'Where is it flooding?', 'Why is it flooding?', and 'What is the impact?'. A section titled 'Select a map layer to see where flooding occurs and what is impacted' contains checkboxes for 'Catchment areas' and 'Flow paths'. The main map area displays a street grid with a green outline highlighting a specific area. To the right of the map is a 'FLOOD INDICATORS' panel with several radio button options: 'Composite Value', 'Problem Areas', 'Flood photos', 'Insurance Claims' (which is selected), 'Repetitive flood claims', 'Preliminary Flood Insurance Rate Maps', and 'National Hazard Flood layer'. Below this is a 'Third party indices' section with 'FloodFactor™ at Risk Properties' selected, and a 'Characteristics of high flood area' section with 'Median age of development' and 'Property elevation' selected.

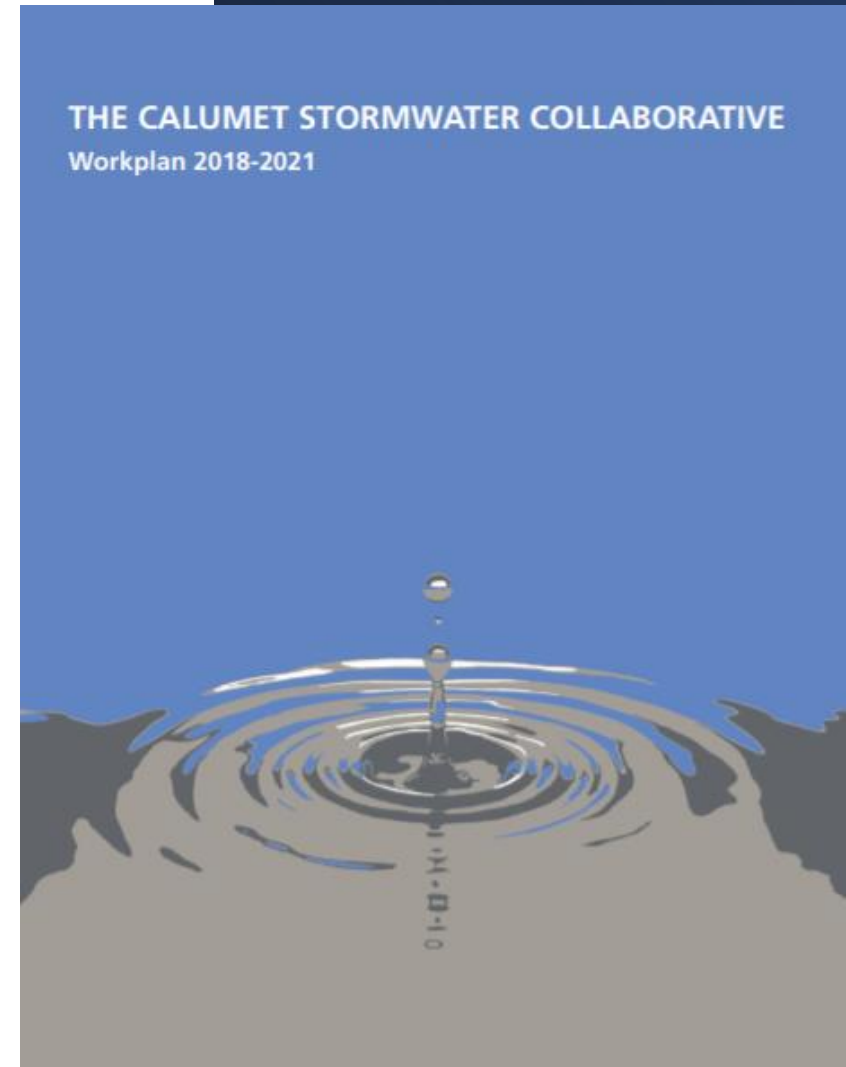


Administrator View of All Uploads

This screenshot shows a map interface with a grid of blue location markers. A pop-up window is open over one of the markers, displaying the address 'Mary Evans 14201 Woodlawn Ave, Dorton, IL 60419, USA'. Below the map are several filter and control elements: 'Event date between' with two date input fields, 'Posted by' with a dropdown menu set to 'Mary Evans', and an 'Exclude' section with checkboxes for 'User deleted data' and 'Unapproved data'. There are also 'Clear Filter' and 'Download CSV' buttons.

Background

- Workplan
- Began in 2019
- Accomplishments
 - Beta web tool
 - Data Collection Pilot



Engagement

- Advisory Group
- Data Collectors
- All compensated



Beta Website

URBAN FLOODING BASELINE

About Maps & Analysis User Guide Flood Stories & Photos CNT

Where is it flooding? Why is it flooding? What is the impact?

Select a map layer to see where flooding occurs and what is impacted

Catchment areas Flow paths

Midlothian Markham Harvey

146th St 147th St 148th St 149th St 150th St 151st St 152nd St 153rd St 154th St 155th St 156th St 157th St 158th St 159th St 160th St 161st St 162nd St 163rd St 164th St 165th St 166th St 167th St 168th St

Provenance Rd Kedzie Ave Dixie Hwy Center Ave

Lawndale Ave

146th St 147th St 148th St 149th St 150th St 151st St 152nd St 153rd St 154th St 155th St 156th St 157th St 158th St 159th St 160th St 161st St 162nd St 163rd St 164th St 165th St 166th St 167th St 168th St

Search

FLOOD INDICATORS:

- Composite Value ?
- Problem Areas ?
- Flood photos ?
- Insurance Claims ?
- Repetitive flood claims ?
- Preliminary Flood Insurance Rate Maps ?
- National Hazard Flood layer ?

Third party indices:

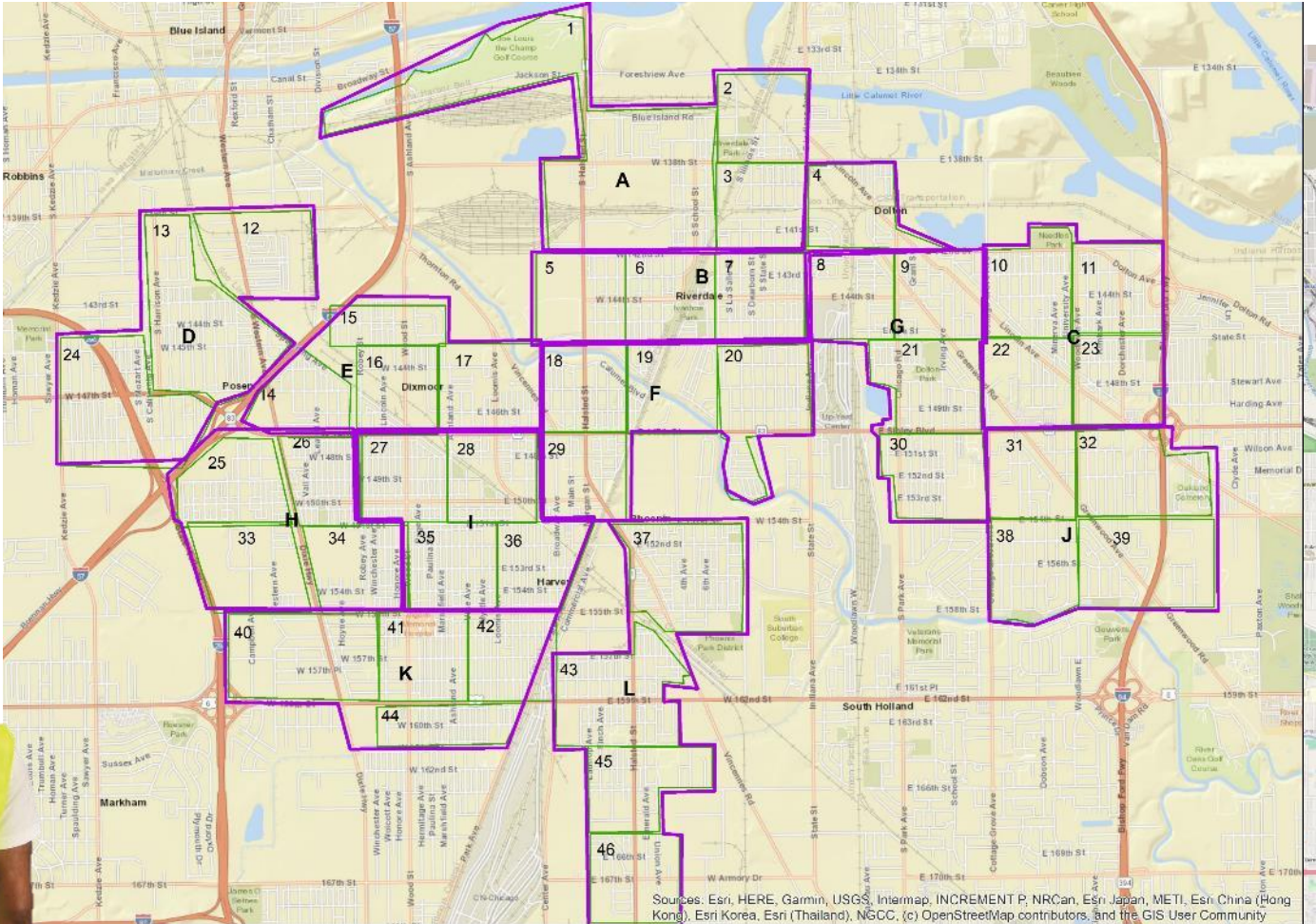
- FloodFactorTM at Risk Properties ?

Characteristics of high flood area:

- Median age of development ?
- Property elevation ?

Data Collection Pilot

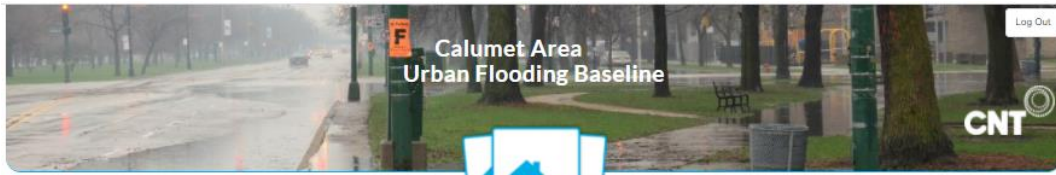
- Simplifying process
- Storm events
- Collecting stories
- Safety



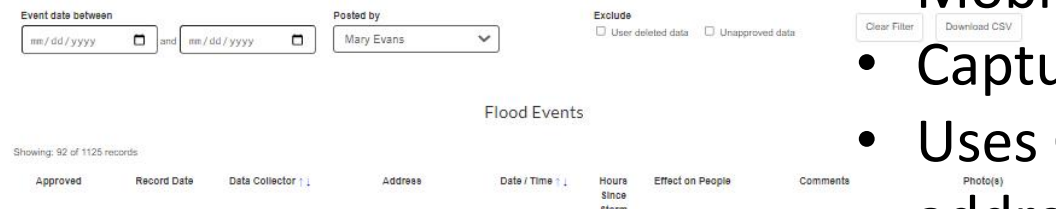
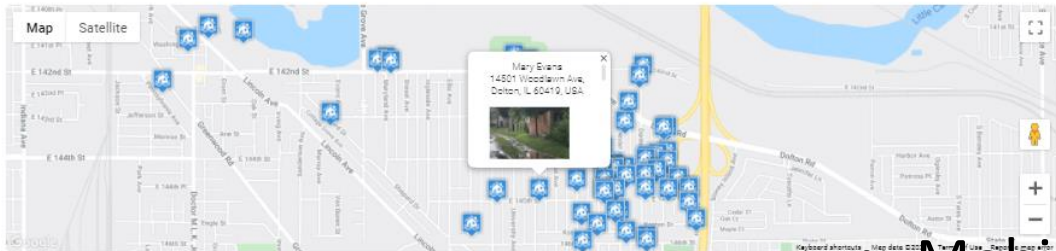
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Data Collection Leader Regions (A-L)
 Data Collector Regions (1-46)

Data Collection App

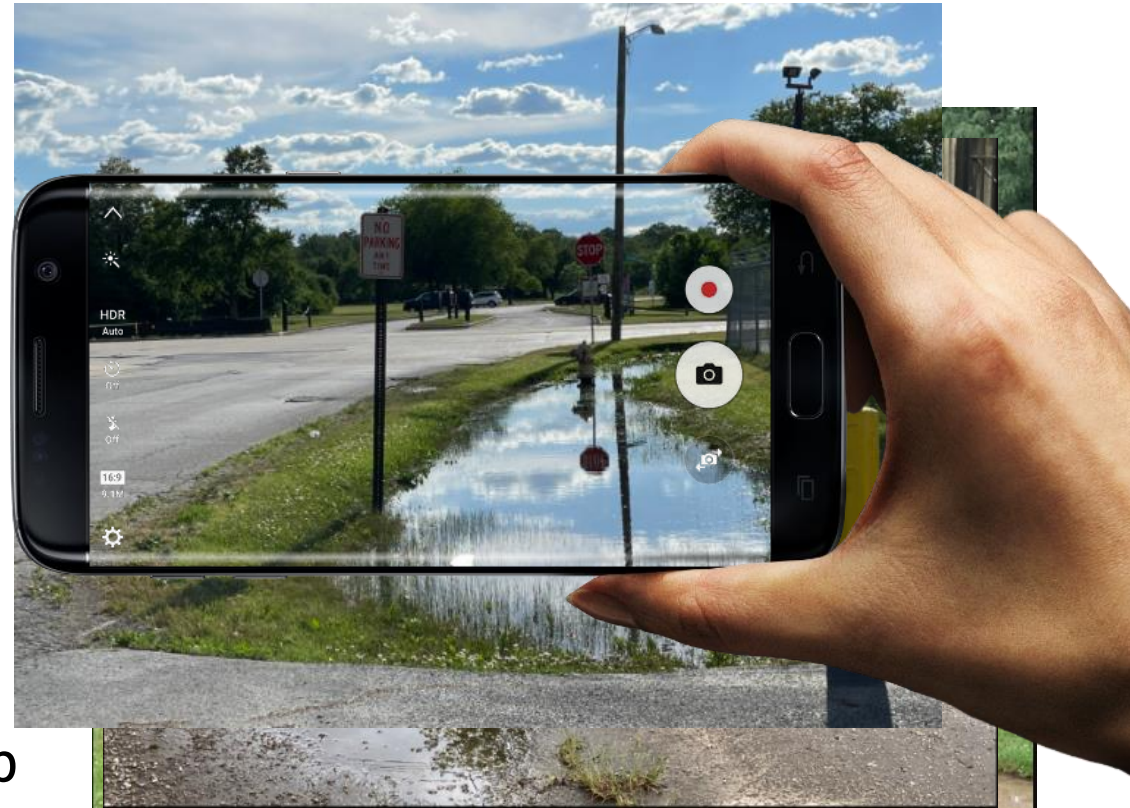


Administrator View of All Uploads



Showing: 92 of 1125 records

Approved	Record Date	Data Collector	Address	Date / Time	Hours Since Storm	Effect on People	Comments	Photo(s)
<input checked="" type="checkbox"/>	2021-07-11 23:28:22.317305	Mary Evans	14501 Dante Ave, Dolton, IL 60419, USA	07/11/2021 06:24 PM	3	Rainwater gathered in depression of street at corner. Could be a hazard his car to turn the corner and not see the puddle which could hide debris.	N/A	



- Mobile web app
- Captures device location
- Uses Google Maps for orientation and address search
- Uses camera app for photos
- Admin Tool to track and evaluate data
- 15 data collectors
- Nearly 1,000 locations with flooding
- Over 1,500 photos taken

Next Steps

- Develop narrative
- Beta test with PW (September) and advocates (ongoing)
- Continue data collection in the fall
- Resolve data sharing questions

