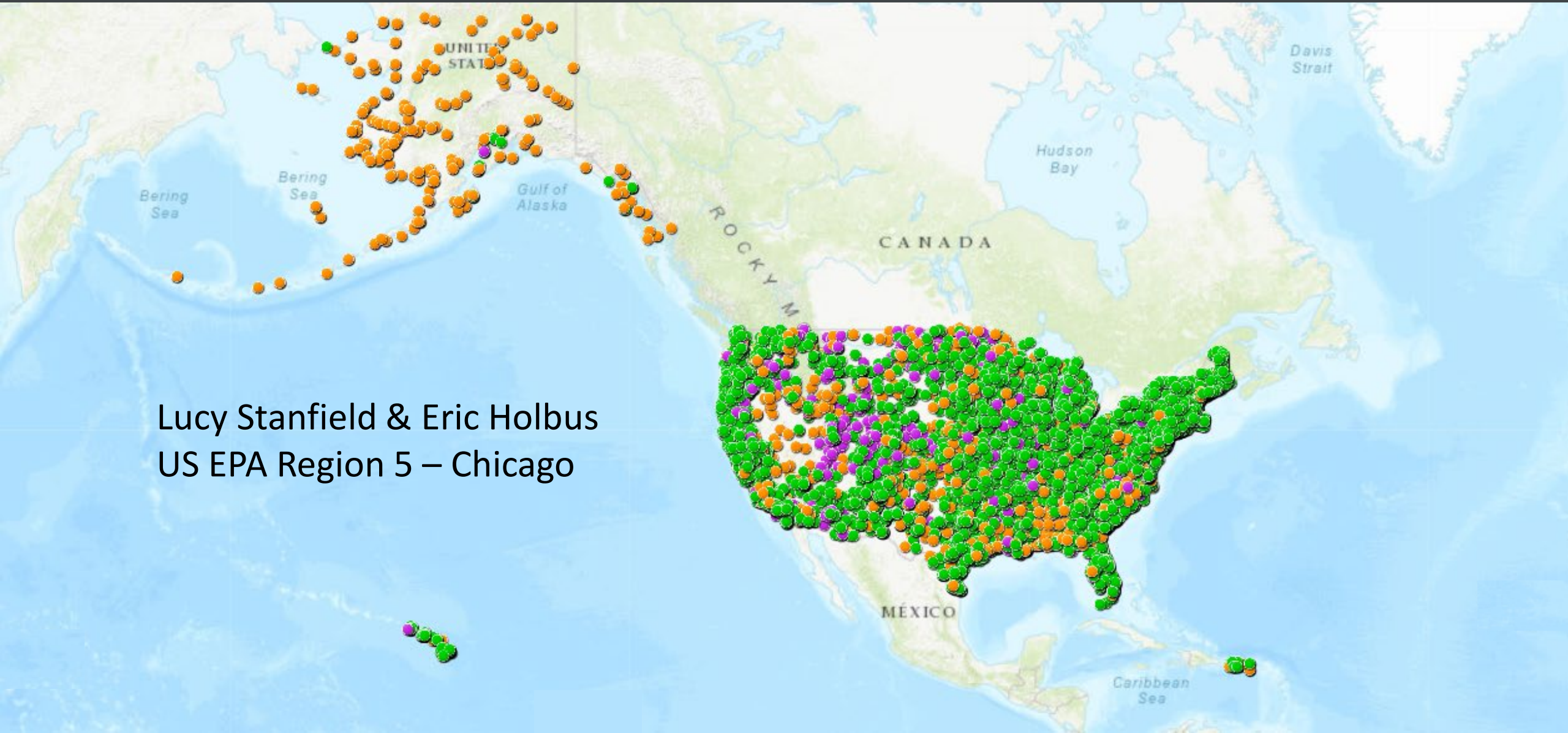




U.S. EPA Disaster Debris Recovery Tool

www.epa.gov/debris-recovery-map



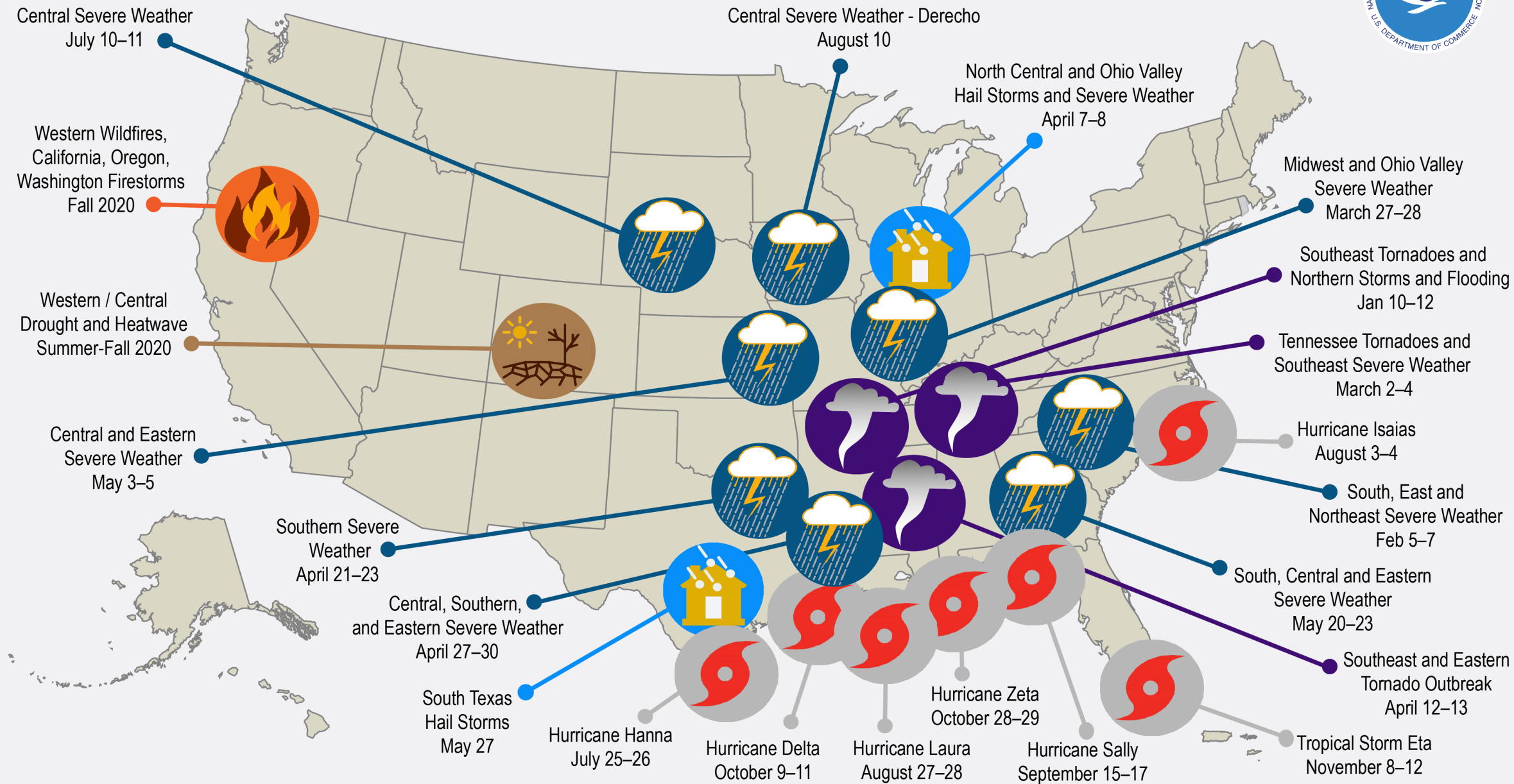
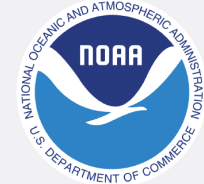
Lucy Stanfield & Eric Holbus
US EPA Region 5 – Chicago

Disaster Debris Recovery Tool

- ✓ A national public dataset for disaster planning & emergency response, and sustainable materials management
- ✓ Advances multiple environmental objectives:
 - Provides more opportunities to divert waste going to landfills
 - Identifies appropriate disposal sites for certain wastes, reducing landfill contamination
 - Fosters more resilience and faster recovery opportunities for impacted communities



U.S. 2020 Billion-Dollar Weather and Climate Disasters



This map denotes the approximate location for each of the 22 separate billion-dollar weather and climate disasters that impacted the United States during 2020.



PLANNING FOR NATURAL DISASTER DEBRIS



Planning for Natural Disaster Debris

management units or closed units that are reopened have appropriate siting restrictions and controls in place.

After the amounts and types of debris are forecasted, planners should assess the area's capacity to manage the anticipated debris. Waste management facilities, including reuse, recycling, combustion, and disposal facilities, should be inventoried, along with their daily and overall capacities for each debris stream they are permitted to receive. Each facility's ability to manage additional debris beyond their normal or permitted daily load should be evaluated.

Planners should keep in mind that a waste management facility may be impacted by a disaster, as well, which could affect its ability to manage debris.

Planners are also encouraged to check the compliance histories of potential facilities with their state, local, or tribal officials or use EPA's Enforcement and Compliance History Online (ECHO) national database to search compliance and enforcement information for regulated

Figure 5. Debris Management Hierarchy



After the amounts and types of debris are forecasted, planners should assess the area's capacity to manage the anticipated debris. Waste management facilities, including reuse, recycling, combustion, and disposal facilities, should be inventoried, along with their daily and overall capacities for each debris stream they are permitted to receive.



April 2019

EPA 530-F-19-003



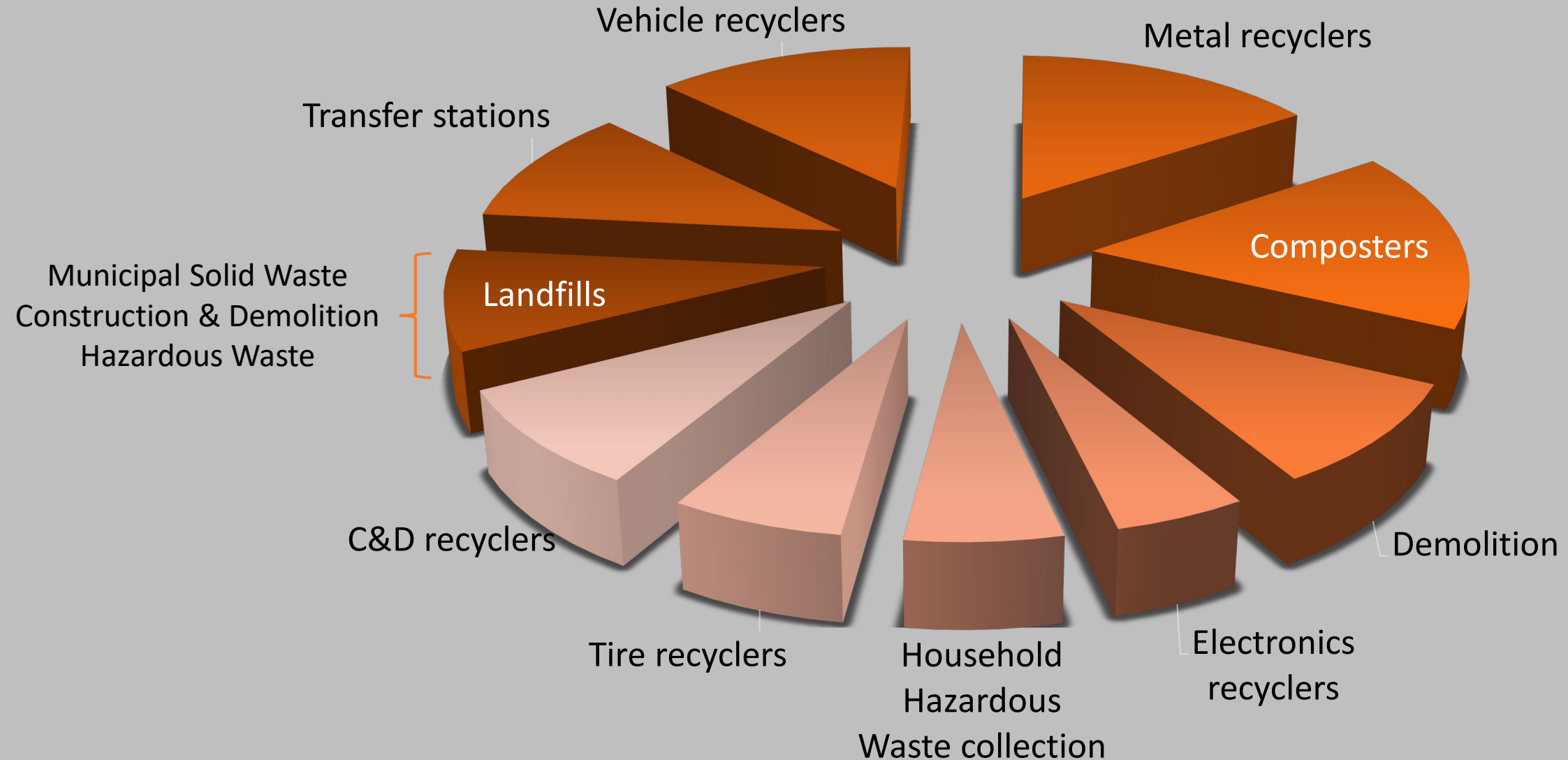
exterminators), as well as their compliance histories, should also be compiled.

To help planners determine debris management options, I-WASTE provides a searchable list of treatment and disposal facilities, which was largely compiled using data from EPA and publicly available sources, a downloadable KMZ file with the same geolocated facilities suitable for incorporation into GIS visualization and analysis, and useful resources on recycling various materials. The facilities contained within I-WASTE include:



20,000 unique facilities nationally

Only Hazardous Waste Landfills are collected by EPA



Some of the 400 Data Sources...

State environmental agencies



National associations



Federal databases



RCRAInfo



and Tribal facilities



Indiana Department of Environmental Management

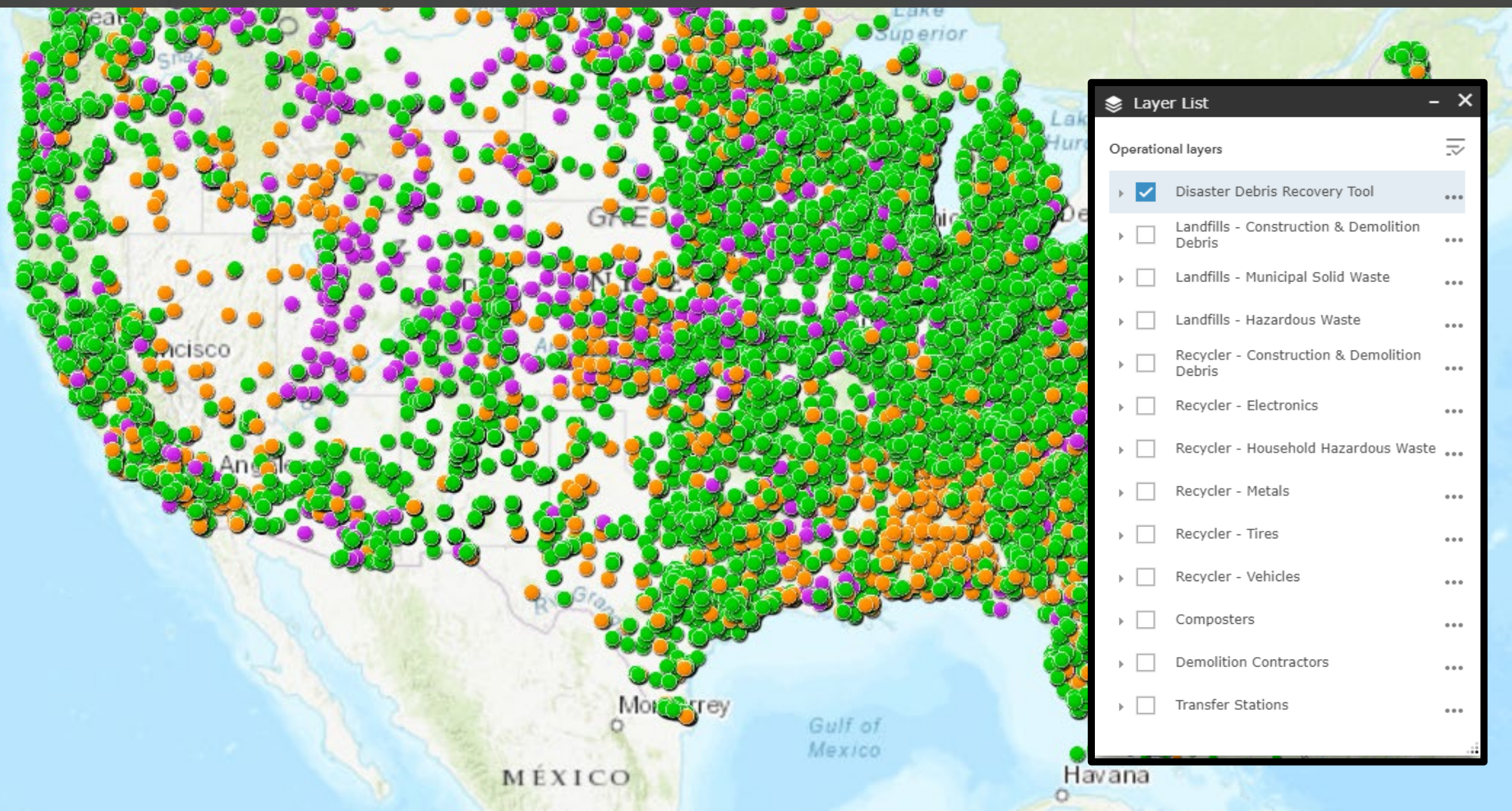
Indiana Registered E-Cycle Recyclers



Name of Recycler	County	City	Address	State	Zip Code	Website (If Provided)	Phone Number
C & I Electronics Co., Inc.	Vanderburgh	Evansville	1700 North Lafayette Avenue	IN	47711	http://www.candielelectronics.com	812-423-9166
C.A.R.S. (Child Adult Resource Services)	Parke	Rockville	201 Dormeyer Avenue	IN	47872	http://www.cars-services.org	765-569-2076
Cascade Asset Management	Marion	Indianapolis	5125 Decatur Boulevard, Suite F	IN	46241	http://www.cascade-assets.com	608-222-6208
CloudBlue	Marion	Indianapolis	5345 Decatur Boulevard	IN	46241	http://cloudblue.com	623-207-5918
COM2 Recycling Solutions	DuPage	Carol Stream	500 Kehoe Blvd	IL	60188	http://www.com2recycling.com	630-653-2662
Dynamic Recycling, Inc.	La Crosse	Onalaska	N5549 County Road Z	WI	54650	http://www.dynamicrecycling.com	608-781-4030
Ecotech Management	Suffolk	Holbrook	935 Lincoln Ave	NY	11741	http://www.ecotechmanagement.com/	510-917-2185
Electronics Recycling International (ERI)	Hendricks	Plainfield	3100 Reeves Road	IN	46168	https://eridirect.com/	202-380-5636
Fort Wayne Recycling, LLC	Allen	Fort Wayne	12592 Volterra Cove	IN	46845	N/A	260-414-8578
Green Earth Electronics Recycling, LLC	Berrien	St. Joseph	4200 Niles Road	MI	49085	http://www.greenearth1.com	269-326-1232
Green Wave Computer Recycling	Marion	Indianapolis	9206 E 33rd St	IN	46235	http://gwcri.com/	317-899-0000
IMS Electronics Recycling, Inc.	Franklin	Grove City	3423 Southpark Place Suite D	OH	43123	http://imselectronics.com	858-848-2401
Janice's Recycling Services	Kosciusko	Syracuse	37 Ems D228 Lane	IN	46567	facebook.com/janicesrecyclingservice	574-658-3992
Noble County Disposal	Noble	Albion	1973 E US 6	IN	46701	http://ncdisposal.com/	800-292-9098
OmniSource Electronics Recycling	Allen	Fort Wayne	219 Murray St.	IN	46803	http://omniscrap.com/	260-456-0512
Oscar Winski eRecycling	Tippecanoe	Lafayette	1449 Veterans Memorial Parkway East	IN	47904	http://www.oscarwinski.com/erecycling	765-421-2856
RecycleForce	Marion	Indianapolis	1255 Roosevelt Ave	IN	46202	http://www.recycleforce.org	317-532-1367
Recycling Works, Inc.	Elkhart	Elkhart	605 Mason Street	IN	46514	N/A	574-293-3751
Regency Technologies	Summit	Twinsburg	1831 Highland Road	OH	44087	www.regencytechnologies.com	440-287-7432
Re-Teck	Tarrant	Grand Prairie	905 Avenue T	TX	75050	N/A	214-988-7300
Technology Recyclers	Marion	Indianapolis	4000 Bethel Avenue	IN	46203	https://tech-recyclers.com/	800-237-3887
Trinity Metals	Marion	Indianapolis	6400 English Avenue	IN	46219	http://trinitymetals.net/	317-358-8265
Universal Recycling Technologies, LLC	Rock	Janesville	2535 Beloit Ave	WI	53546	https://urtsolutions.com/	608-314-8113



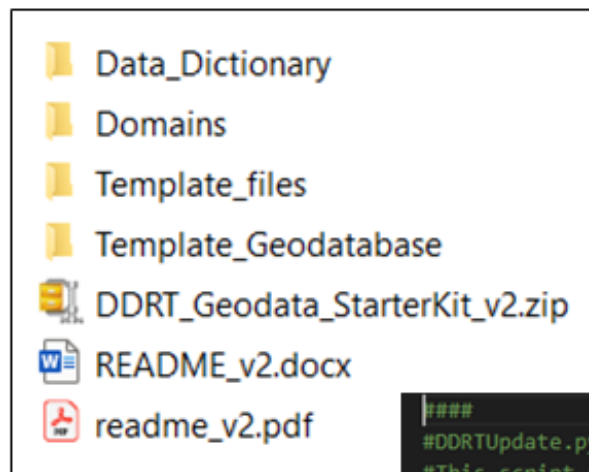
U.S. EPA Disaster Debris Recovery Tool





Data Collection & Coordination

- Facility data was collected over several years
- Coordination between EPA, state, tribal and local partners
- Created a “starter kit” for EPA staff
- EPA contractors created a Python script to validate and combine data from all 10 regional geodatabases and send weekly emails



```
####  
#DDRTUpdate.py  
#This script is designed to:  
# Fetch updates from any/all regional hosted  
# Written for Python 3.x  
####  
import os, sys  
import pandas as pd  
import html, re  
  
import __main__  
#This is where cross project libraries reside  
sys.path.append(r"D:\public\data\ags_autoupda  
  
import Geoplatform_Publishing3.Utilities,Geop  
  
### Beginning of stuff added for logging and
```


Data/Tool users:



Illinois Environmental Protection Agency



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY



DDRT layer added to ER viewers

The image displays a screenshot of the EPA Region 8 TERA Viewer interface, which is overlaid on the EPA Region 6 PDO Viewer. The main map area shows a geographical view of the region with various colored dots representing different types of facilities and activities. The interface includes a sidebar on the left with a list of layers, a top navigation bar, and a bottom status bar.

EPA Region 8 TERA Viewer Sidebar:

- ☐ Education - HIFLD
- ☐ Emergency Services
- ☐ Energy
- ☐ Transportation
- ☐ Transportation - Colorado
- ☐ Transportation - Montana
- ☐ Transportation - North Dakota
- ☐ Transportation - South Dakota
- ☐ Transportation - Utah
- ☐ T&E Critical Habitat - USFWS
- ☐ Environmental T&E
- ☐ Wetlands - NWI
- ☐ Geological
- ☐ Geographic Response Plan
- ☐ Current Weather
- ☐ Natural Hazards
- ☐ Places
- ☐ Federal and State Lands
- ☐ Boundary
- ☐ Environmental Justice Areas
- ☐ Air Now - Air Quality Index (AQI)
- ☒ National Disaster Recovery Tool
 - Custom
 - ☐ Landfills & Recyclers
 - ☐ Landfills
 - ☐ Recyclers
 - ☐ Other
- ☒ Region 8 Mask

EPA Region 6 PDO Viewer Layers:

- ☐ Site Sketch
- ☐ Operations
- ☐ Facilities
- ☒ EPA
 - ☒ Disaster Debris Recovery Data
 - Landfills & Recyclers
 - Landfills
 - Recyclers
 - Other
 - ☐ WebEOC NRC
 - ☐ USCG/EPA Boundary
 - ☐ County Boundary
 - ☐ Water System Sources
 - ☐ FEMA Flood 2015 Assessment
 - ☐ Boundaries - Urban
 - ☐ Boundaries - Federal
 - ☐ Education
 - ☐ Emergency Services

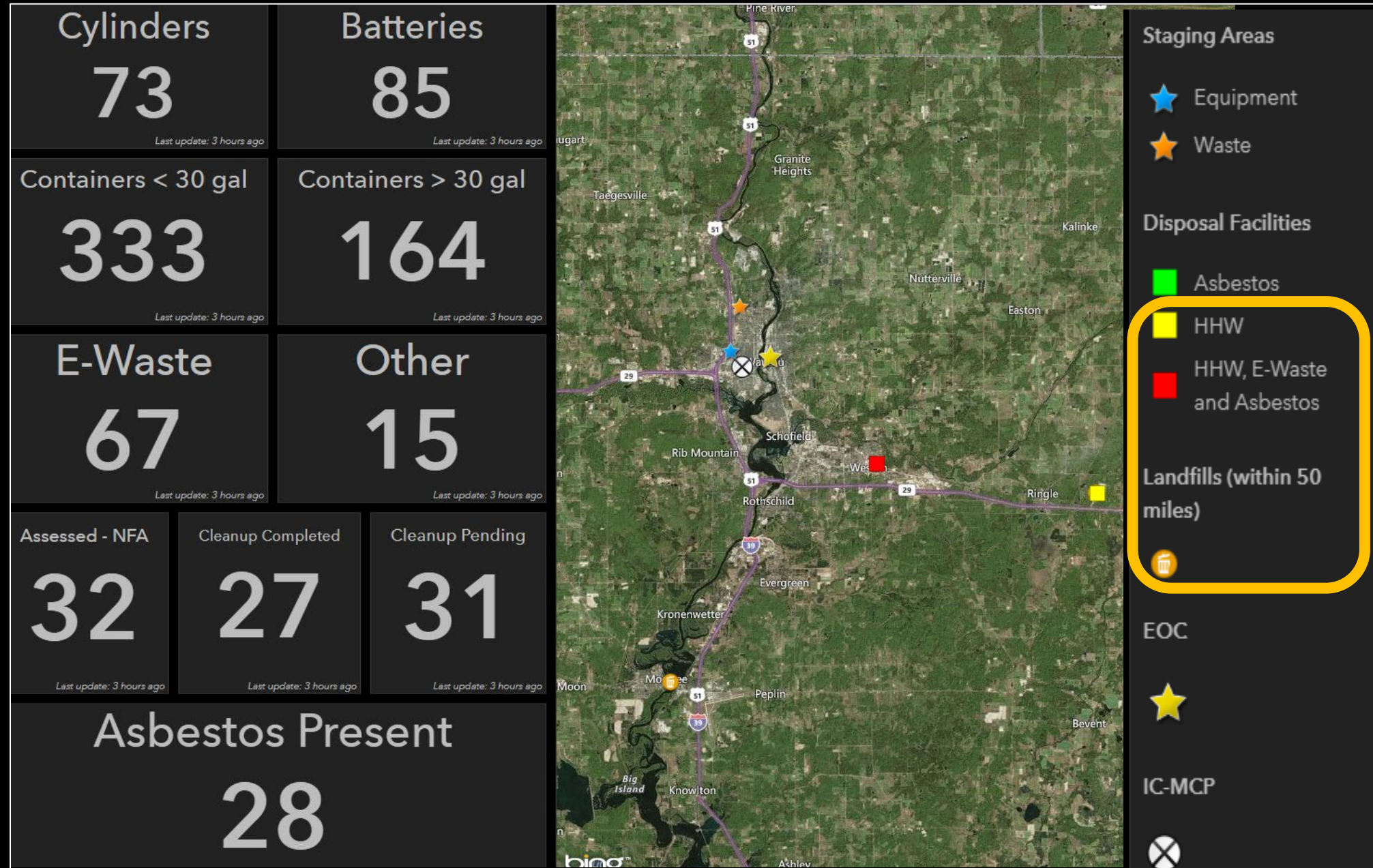
Region VII - Emergency Response Dashboard:

- Response & Planning
- Oil Planning Viewer
- OSC Outreach Viewer
- USFWS IPaC
- Response.EPA.Gov

Legend:

- Significant Field Activities**
 - Emergency Responses
 - Ongoing Removals
 - Site Investigations/Recons
- EPA Disaster Debris Recovery Data**
 - Facility Type
 - Landfills & Recyclers
 - Landfills
 - Recyclers
 - Other

EPA Region 5 IMT Exercise – Operations Dashboard & Viewer - May 2018



Mille Lacs Band of Ojibwe



EMERGENCY OPERATIONS PLAN

October 2018

Prepared by:
Monte Fronk, Coordinator
Mille Lacs Tribal Police Dept.
Tribal Emergency Management
(320)532-3430

Annex J	Debris Clearance	J-1
	Purpose.....	J-1
	Responsibilities	J-1
	Policies and Procedures	J-1
	Supporting Documents	J-3

G. Final Disposal Sites within 50 miles:

Household hazardous waste collector, C&D landfill, MSW landfill	East Central Solid Waste Commission	1756 180 th Ave Mora, MN 55051	320-444-6818
Tire recycler	John's Used Tire	11708 180 th St Milaca, MN 56353	320-362-0642
Vehicle recycler	Bud Jones & Sons Auto Salvage	31787 US Hwy 169 Onamia, MN 56359	320-532-3552
Electronics recycler	Mercury Technologies of Minnesota Inc.	1110 Holstein Dr. NE Pine City, MN 55063	320-629-7888
Composter	Morrison County Compost Sites	W River Rd Little Falls, MN 56345	320-631-2862
Demolition Contractor	Waste Management of Minnesota, Inc.	7968 Industrial Park Rd Baxter, MN 56425	630-572-2448



EPA DDRT Bay Area Pilot Region 9

Find address or place



Layer List

Layers

- ☒ Landfill Construction Demolition Debris
 -
- ☒ DDRT Bay Area
 - Landfills & Recovery
 - Landfill only
 - Recovery only
- ☐ Recycler Construction Demolition Debris
 -
- ☐ Landfills Municipal Solid Waste
- ☐ Landfills Hazardous Waste
- ☐ Recycler Electronics
- ☐ Recycler Household Hazardous Waste

± -119.0

60mi



San Francisco Fleet Week Exercise



**Related Topics:** [Large-Scale Residential Demolition](#)

CONTACT US

SHARE



Disaster Debris Recovery Tool

EPA has developed this interactive mapping tool of twelve types of recyclers and landfills that manage disaster debris. This tool provides information and locations of over 20,000 facilities capable of managing different materials which may be found in disaster debris. The tool was created in EPA Region 5 in 2010 and has expanded to include data for all 50 states, Puerto Rico and US Virgin Islands.

The tool can be used by disaster response, recovery and planning experts to advance the safe recovery, recycling and disposal of disaster debris. It is expanding coverage of states and territories to support sustainable disaster debris management. The national dataset and tool were developed in collaboration with staff from all ten EPA regions and headquarters to support sustainable materials management for disaster planning and emergency response.

Webinars

[View the slides and listen to a recording about the national tool held on June 18, 2020.](#)

[View the training about the R5 tool from Dec. 18, 2018.](#)

Disaster Debris Recovery Tool

- [Web map \(tools & downloadable data\)](#)
- [National data layer \(feature service\) for GIS](#)

Web App and National Layer on ArcGIS Online

Content

Groups

1 - 5 of 5

Filters

Only search in U.S. EPA

Categories

Air

Climate Indicators

Emergencies (4)

Green Living

Health and Safety

Land, Waste, and Cleanup (5)

Pesticides, Chemicals, and Toxics

Water

Boundaries

Item Type

Maps

Layers

Scenes

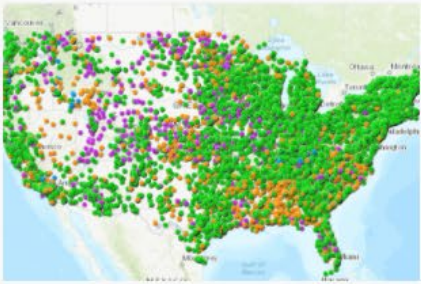
Apps

Tools

Files

Notebooks

> Date modified




Map - Disaster Debris Recovery Tool

Web Map by SEGS_GPO

This is the web map for the Disaster Debris Recovery Tool (DDRT).

Created: May 6, 2020 Updated: Jun 17, 2020 View Count: 7,438

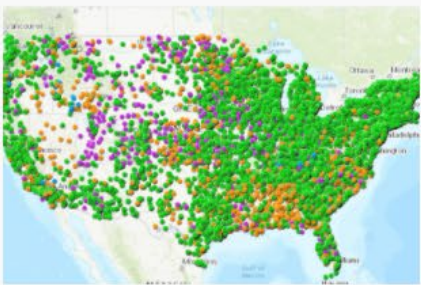


FAC - National Disaster Debris Recovery Facilities (EPA)

Feature Layer by SEGS_GPO

This SEGS item contains national-scale Disaster Debris Recovery Data for the United States. These vector data were organized to promote the proper recovery, recycling, and disposal of disaster debris management.

Created: Jun 12, 2020 Updated: Mar 31, 2021 View Count: 8,200



Disaster Debris Recovery Tool

Web Mapping Application by SEGS_GPO

This Web Mapping Application allows users to view data from the Disaster Debris Recovery Tool.

Created: May 19, 2020 Updated: Mar 16, 2021 View Count: 7,406



Info



[U.S. EPA Disaster Debris Recovery Tool webpage](#)

NEW VIDEOS [DDRT Overview Video](#) & [DDRT Tutorial Video](#)

[DDRT Tips and Tricks tutorial \(PDF\)](#)

[Training webinar with presentations \(June 2020\)](#)

[DDRT Documentation](#)

[Send Feedback](#)

Disclaimer - These facilities and their locations are provided for informational purposes only. The facilities mentioned in this database are not certified or approved by US EPA. EPA does not guarantee the accuracy or completeness of this information. EPA is not responsible for errors or omissions. The use of the ArcGIS Online mapping product does not constitute endorsement or recommendation of any commercial product by the Government. Users should contact a company directly to confirm that a company is required permits, available to accept waste, and what types of waste they accept.

Tips and Tricks for using the Disaster Debris Recovery Tool (rev. Aug. 2020)

This document provides a brief step-by-step tutorial of the map data and tools.

Overview

The Disaster Debris Recovery Tool is an interactive mapping tool of 12 types of recovery facilities, recyclers and landfills that manage disaster debris. This tool provides information and locations of over 20,000 facilities throughout the United States, Puerto Rico and US Virgin Islands. The tool can be used by disaster response, recovery and planning experts to advance the safe recovery, recycling, and disposal of disaster debris. For more information, see the EPA webpage (<https://www.epa.gov/large-scale-residential-demolition/disaster-debris-recovery-tool>).

Top 10 Tips and Tricks

1. Explore the map tools
2. Search by Category and view and export the data
3. View the legend and turn facility layers on/off
4. Learn more about one facility
5. Search by Shape for facilities within 25 miles of an incident
6. Find driving directions to a facility
7. Add data to the map
8. Draw one or more incident locations or staging areas
9. Bookmark a location
10. Print a map

Disaster Debris Recovery Tool Overview



New
videos

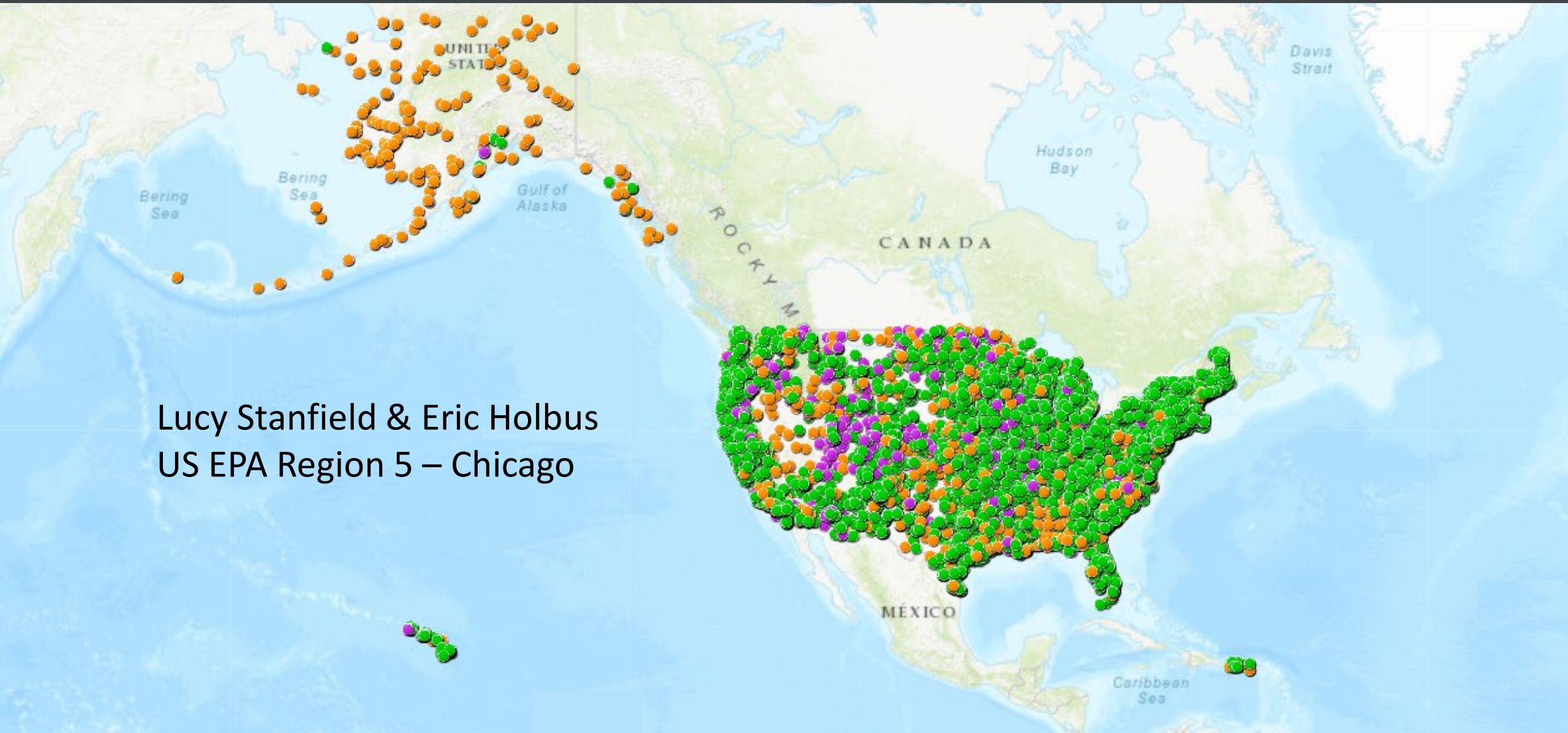
Disaster Debris Recovery Tool Tutorial





U.S. EPA Disaster Debris Recovery Tool

www.epa.gov/debris-recovery-map



Lucy Stanfield & Eric Holbus
US EPA Region 5 – Chicago