



# Meeting Food and Water Needs Following a Disaster

Mark Scott – Critical Infrastructure Specialist

DC Homeland Security and Emergency Management Agency

August 13, 2021

# Questions we are addressing

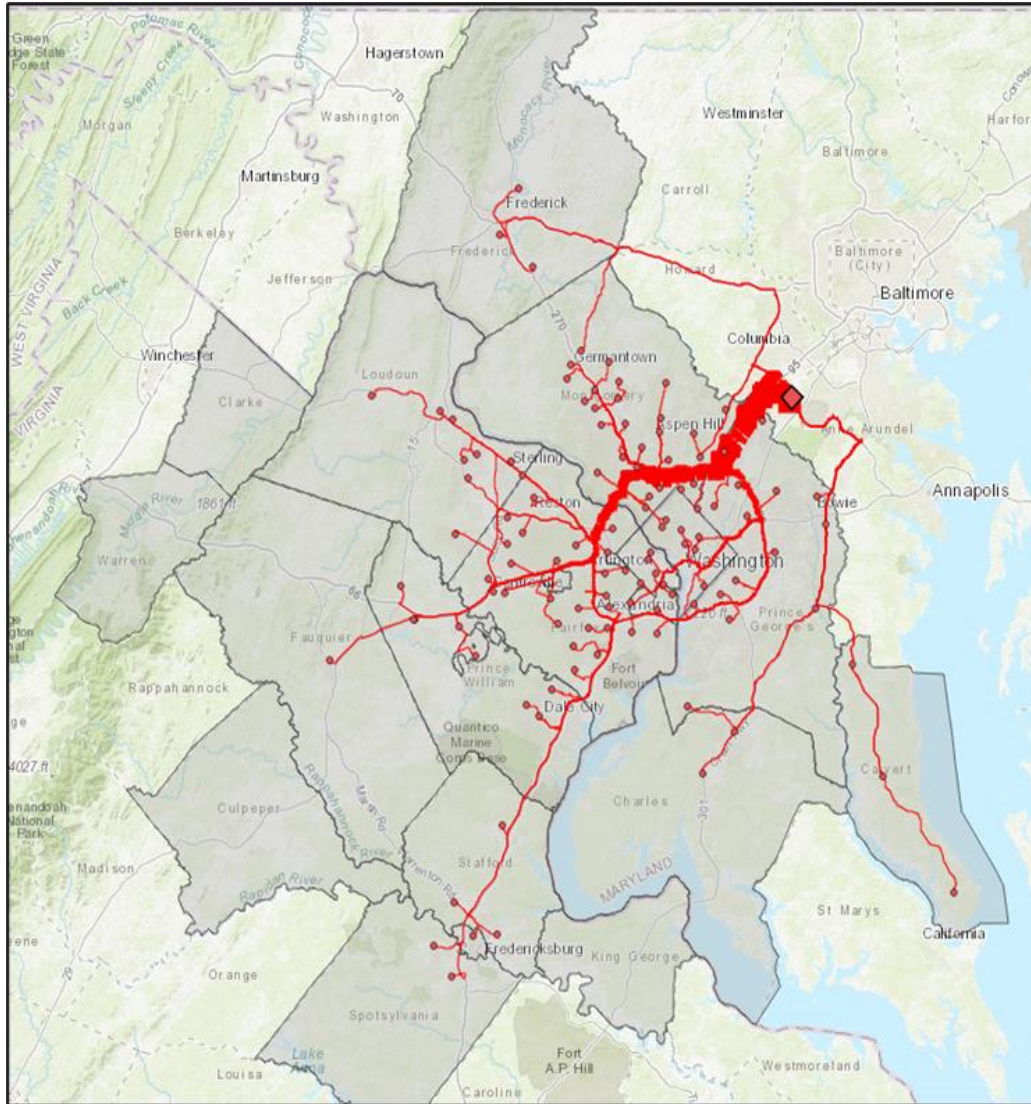
- How do people in the District and surrounding NCR jurisdictions get food and water on “blue sky” days?
- How has the pandemic changed that?
- What could happen to disrupt food and water flows?
- What are the likely food and water needs during and after a catastrophic event?
- How well prepared are we today to meet those needs?
- What should be doing now to better prepare for a disruption of the food and water supply?

# Food and Water project basics

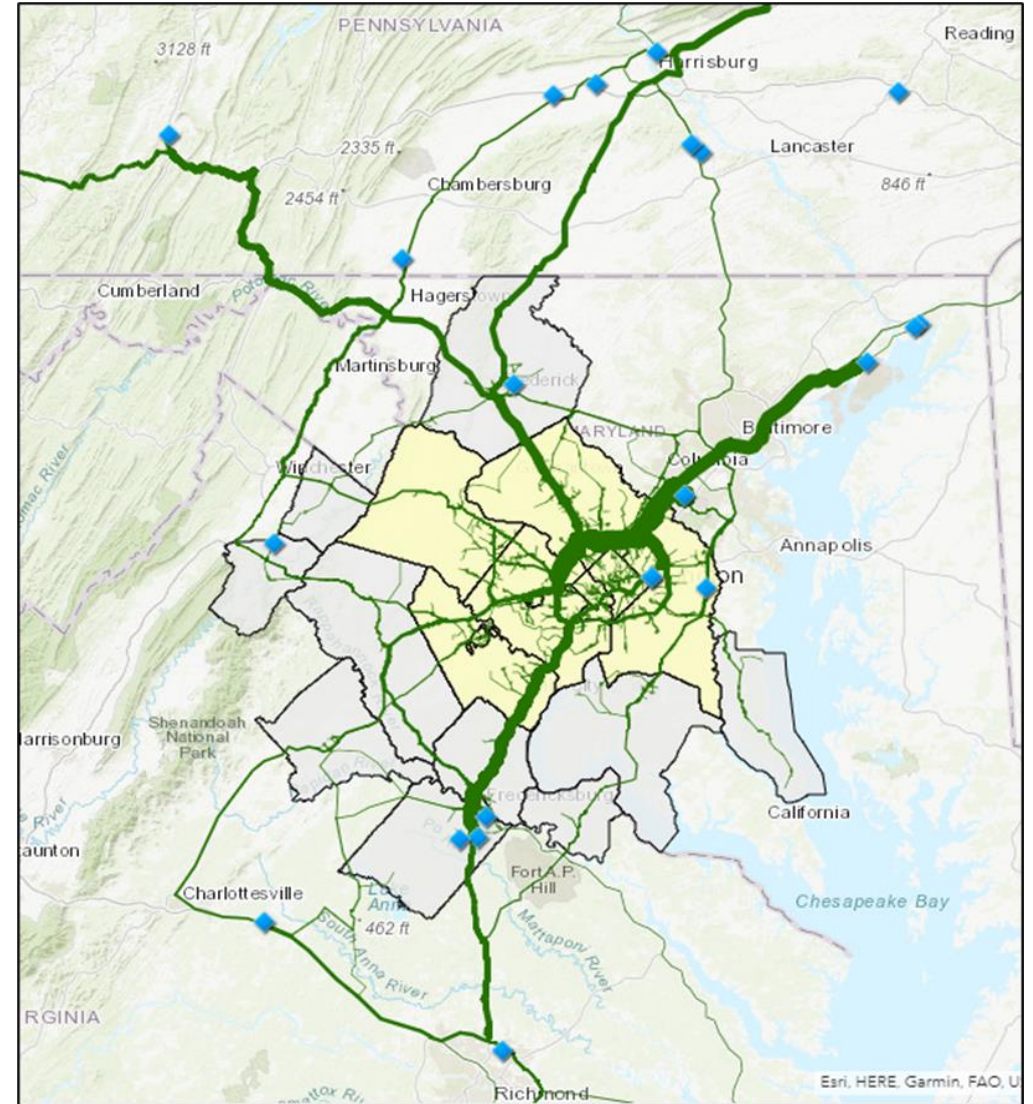
- Funded by FEMA's Regional Catastrophic Preparedness Grant Program
- Managed by DC HSEMA, in collaboration with MWCOG
- Goal is to better prepare the region for addressing food and water needs during and after a disaster
- Guided by a Technical Advisory Committee comprised of regional food and water partners
- Current project will continue through 9/30/2022; additional funding is being sought to implement project findings

# Project tasks

- **Task 1:** Characterize the regional food and water supply chains and evaluate their resilience during catastrophic events
- **Task 2:** Identify short- and long-term food and water supply needs following a disaster
- **Task 3:** Develop online interactive tools that provide situational awareness and information-sharing to support management of food and water supply during and following a disaster
- **Task 4:** Recommend a regional food and water supply delivery and restoration plan
- **Task 5:** Recommend actions to implement the delivery and restoration plan
- **Task 6:** Convene a regional Stakeholder Summit



Routing from distribution center to retail locations for a top grocery brand



Grocery routing for all brands by total market share served

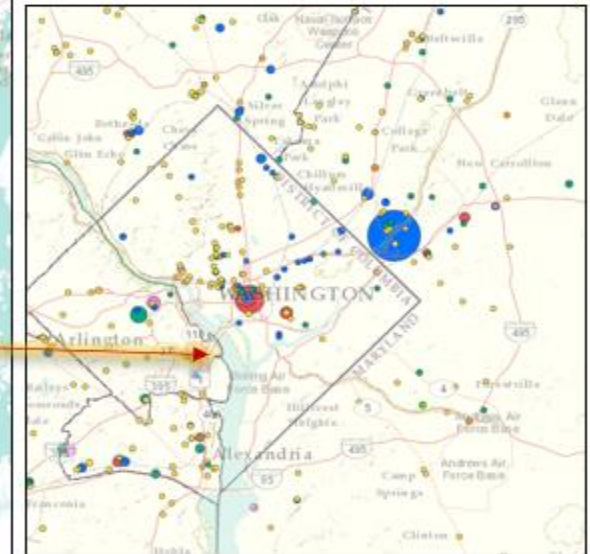
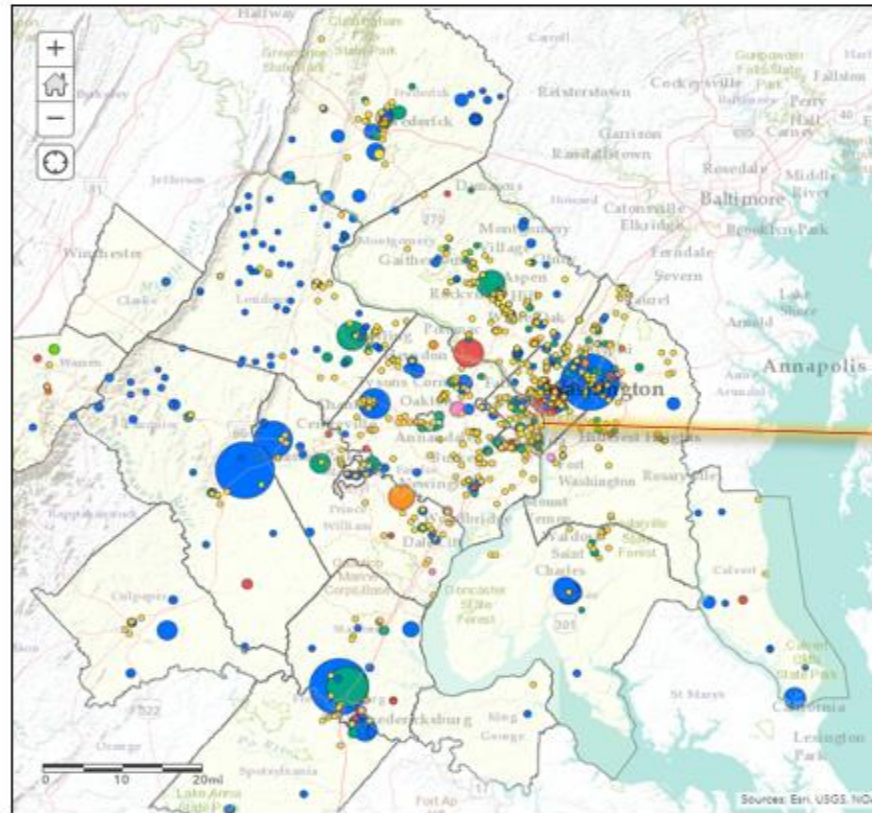
# Supply chain analysis – food processors

- Concentrations of Food processors (by revenue)

## Food Processors

### Processor Type

- Bakery and Grain
- Beverages
- Dairy and Eggs
- Meat and Seafood
- Produce and Produce Products
- Coffee and Tea
- Condiments and Oils
- Other Food



# Some initial observations

- COVID exacerbated the region's food insecurity problem
- The commercial food supply chain was mostly resilient in the face of the pandemic
- Post-pandemic, distribution centers and flow sources will likely remain heavily dependent on grocery flows originating in Eastern Pennsylvania
- Online purchases for pick-up or home delivery increased during the pandemic; 54% increase from 2019; making up 7.4% of all grocery sales
- For emergencies affecting food availability, improvements are needed in planning, messaging, information-sharing, and partnership building

# Points of intersection with FARM

- Analyzing supply chain shows us how to make those systems more resilient
- We recognize that expanding the local food economy will improve resilience against a food supply disruption
- Understanding your mission and the needs you have identified helps us as emergency managers more effectively execute our preparedness mission





Questions?

# For more information



**Mark Scott**

**Critical Infrastructure Specialist**

Resilience Bureau

DC Homeland Security and Emergency Management Agency  
2720 Martin Luther King, Jr. Avenue SE, Washington, DC 20032

Mobile: 202-369-7132

[mark.scott@dc.gov](mailto:mark.scott@dc.gov)