Food Supply Chain Resilience
DC Food Policy Council - 2/7/2018
Background

• Scope: analyze resiliency of District food supply chain (defined as “activities associated with the flow and transformation of goods from raw materials to end-users”)

• Desired outcome: understanding of what is needed to ensure availability of food for District residents following a catastrophic event

• Principle investigator: DC Homeland Security and Emergency Management Agency (HSEMA)

• Conducted under FEMA Technical Assistance Program
Study outline

• Part I:
  – Characterize the food supply chain
  – Identify risks and vulnerabilities
  – Complete by May 31, 2018

• Part II:
  – Conduct stakeholder outreach
  – Analyze capabilities of the supply chain for managing risk
  – Draw conclusions about level of resiliency
  – Make recommendations
  – Complete by (TBD)
Characterizing the District food supply chain

- Describing supply chain components:
  - Demand nodes - where consumers obtain their food
  - Supply nodes - where food is staged for distribution
  - Demand-supply links - how food gets from supply node to demand node

- Using available data and information:
  - Existing DC data
  - Open source documents
  - Other jurisdiction plans
  - Supply chain impacts from recent catastrophic events
Food supply chain overview
Identifying risks and vulnerabilities

- Identifying threats and hazards that could affect the entire supply chain
- Identifying vulnerabilities for each supply chain component
- Modeling impacts from a catastrophic hurricane scenario
Some key questions

• Where are the primary food distribution centers?
• What are the key transportation routes for food delivery into the District?
• What is the breakdown of where DC residents get their food, by source (demand node)?
• Which supply chain components are in high-hazard areas? How many of these are in low income/food insecure areas?
• What are the key interdependencies with other sectors such as transportation, fuel, water, power, and communications?
• How is the food supply chain evolving? How will this affect its resilience?
How we can use the results

• Conduct further analysis to validate findings and determine level of resiliency

• Strengthen existing emergency operations plans, including integrating the food sector into existing emergency plans and exercises.

• Leverage stakeholder outreach (private sector) by building relationships and identifying ways to support them during emergency events.

• Support other policy and planning initiatives (DC Food Policy, Resiliency Office, MWCOG Food Value Chain, neighboring jurisdictions outside NCR)
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