



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)

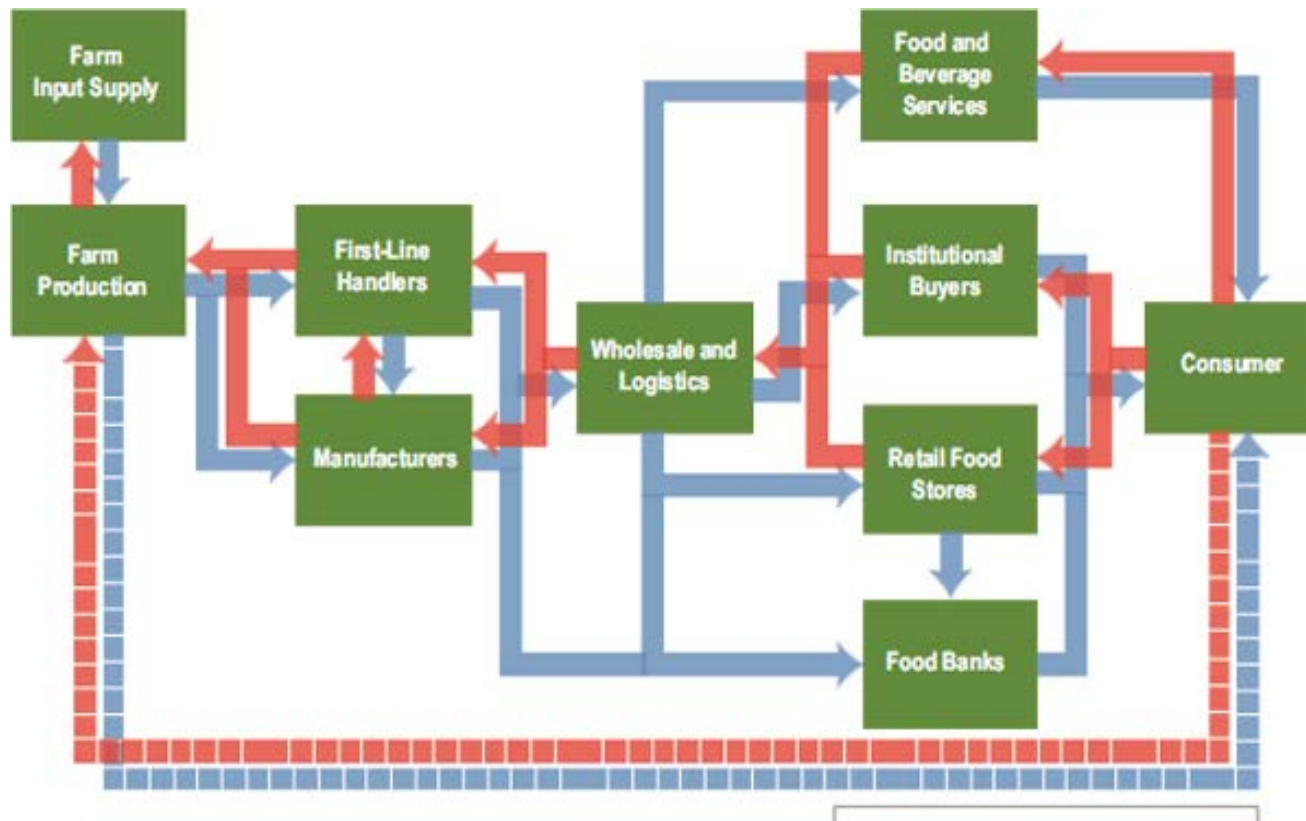


Characterizing the District food supply chain

- 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

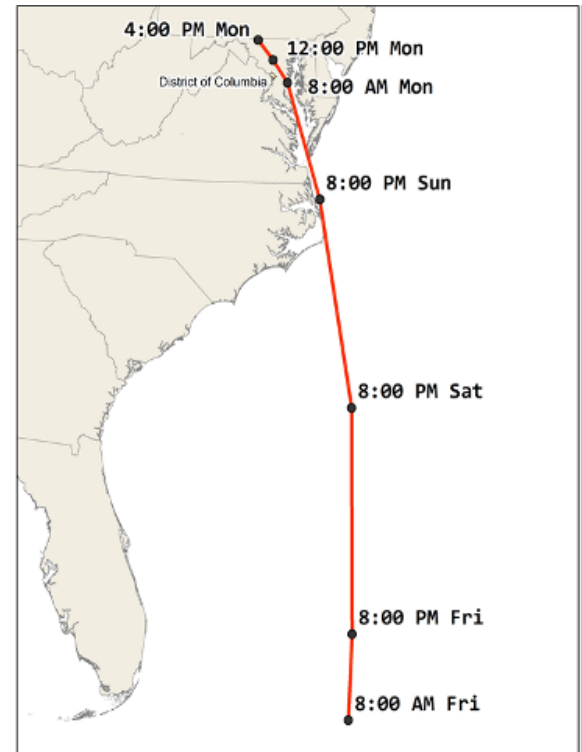


Food supply chain overview



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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