



Overview of NC Agricultural Good Flows

Heidi Schweizer

Presentation:

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ARE Extension Agent Educational Series





Background



- Agriculture & agribusiness contributions to the NC economy ([Walden June 2020](#))
 - >16% to NC GDP
 - 772K employees
- NC is feed deficit
- NC is located on the eastern seaboard
 - Access to east coast market
 - Access to international markets



- Domestic customers
- International customers
- Sources of inputs to production
- Threats to demand
- Threats to distribution channels
- Marketing challenges





FAF⁴

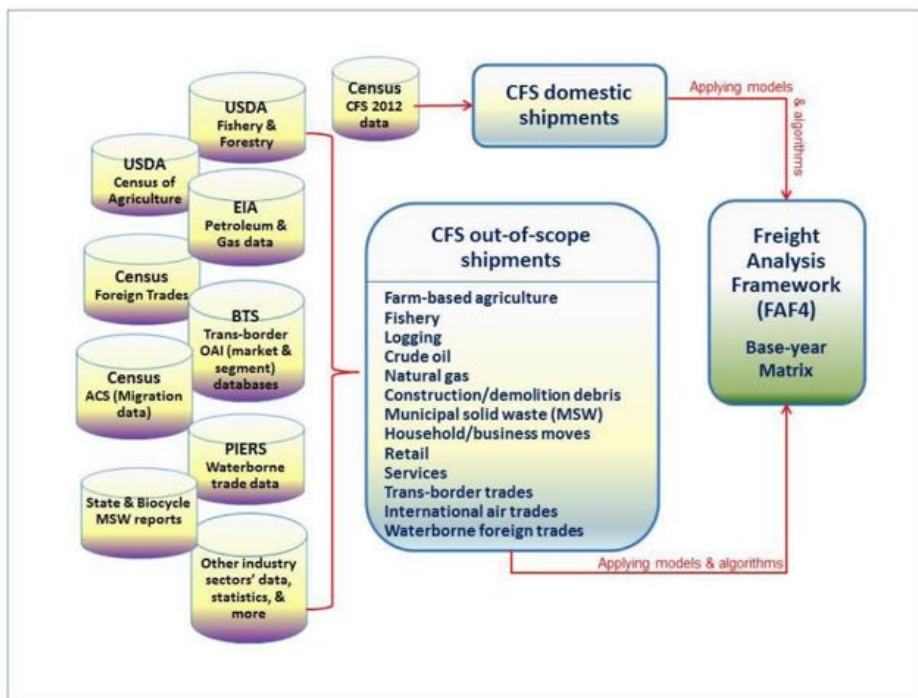


Figure 2-1. Components of the FAF⁴ database.

Model using data from shipper surveys conducted by the US Census & USDOT Bureaus

- Estimates freight flows by commodity types
- Agricultural shipments are out-of-scope of the CFS



Ton-miles

Measures transport demand using both quantity and distance

shipment weight x shipment distance



1 ton-mile = 1 ton of freight moved 1 mile

100 ton-miles = **100 tons of freight** moved 1 mile

100 ton-miles = 1 ton of freight **moved 100 miles**



Standard Classification of Transported Goods (SCTG)

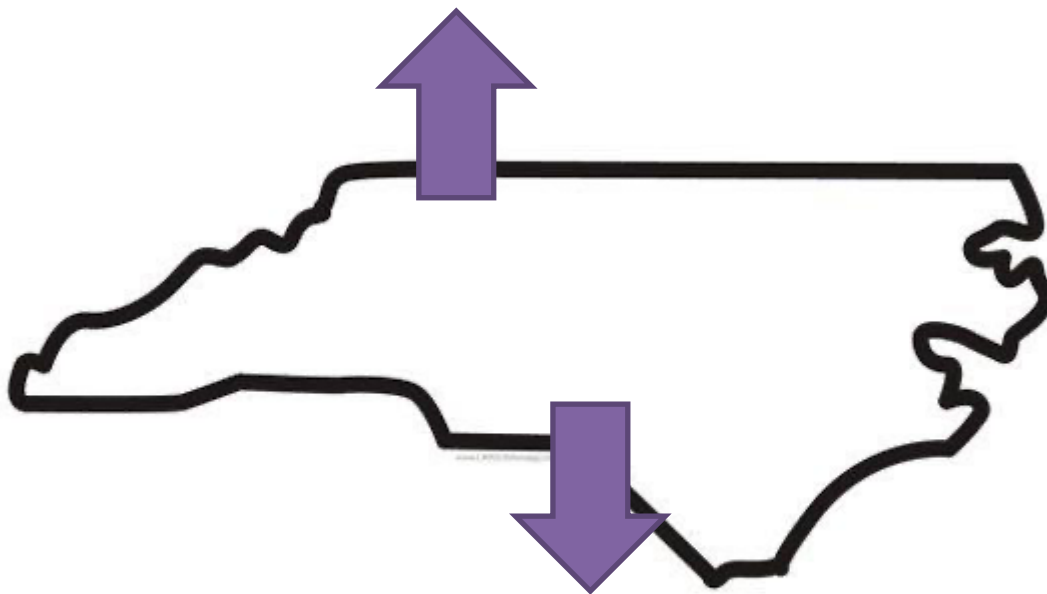
- Animal feed
 - Eggs, honey, and other products of animal origin
 - Pet food, waste from animal feeding
- Cereal grains
 - Wheat, corn, rye, barley, oats, grain sorghum, rice
- Live animals/fish
- Logs
- Meat/seafood Milled grain prods.
 - Flour, meal, bakery products
- Other ag prods
 - Soybeans, peanuts, seeds, vegetables, fruit
- Other foodstuffs
 - Dairy, oils (including soy), processed foods





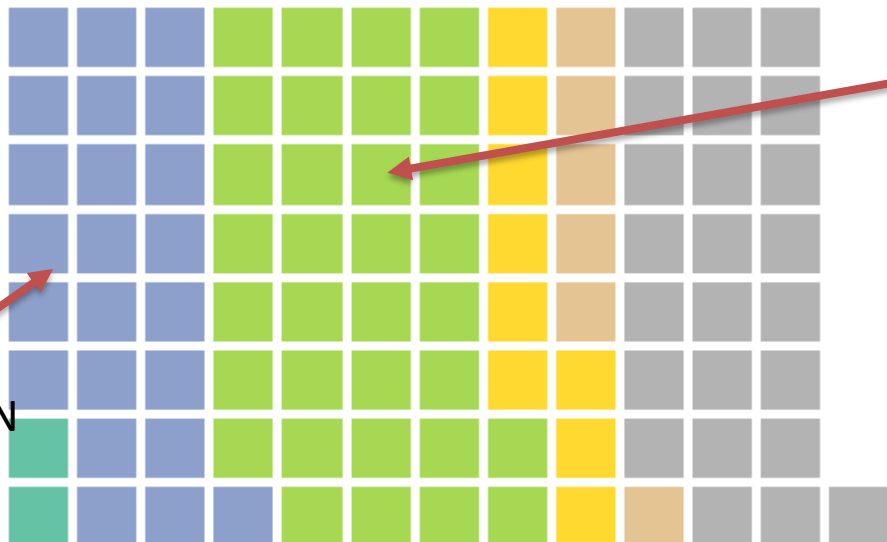
Domestic Ag Exports

Shipments originating in NC to other US states



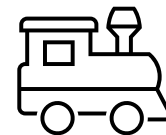


2018 NC domestic ag exports by share of value



GA, IL & PA (> 30%)

- Animal feed: (2%)
- Cereal grains: (1%)
- Live animals/fish: (24%)
- Logs: (<1%)
- Meat/seafood: (33%)
- Milled grain prods.: (10%)
- Other ag prods.: (6%)
- Other foodstuffs: (24%)

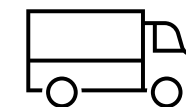


VA, SC & TN (> 87%)

2018 NC domestic ag exports by share of ton-miles



- Animal feed: (5%)
- Cereal grains: (5%)
- Live animals/fish: (19%)
- Logs: (<1%)
- Meat/seafood: (34%)
- Milled grain prods.: (9%)
- Other ag prods.: (7%)
- Other foodstuffs: (21%)



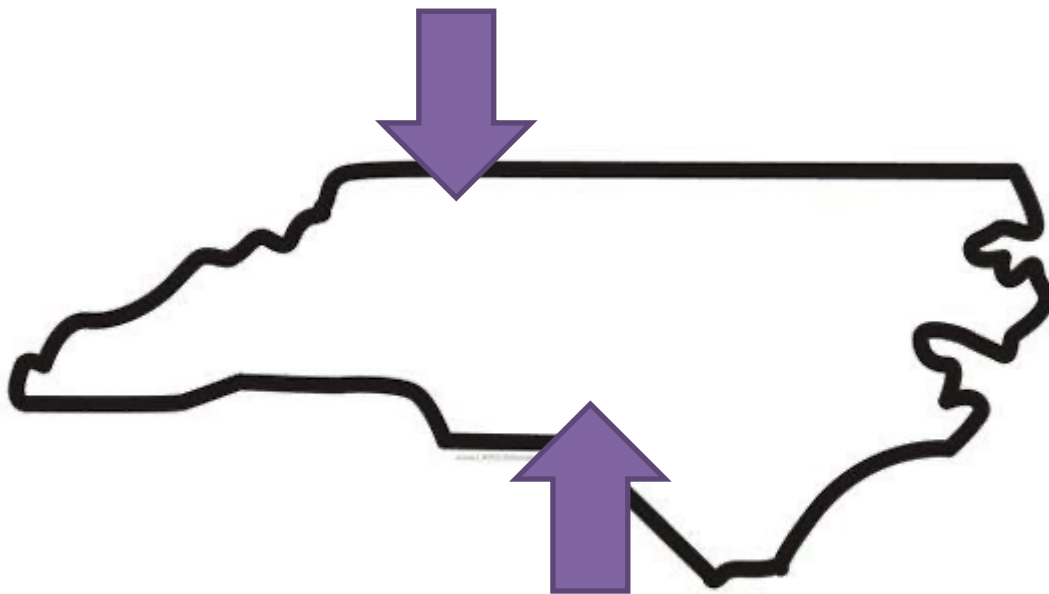
>95%





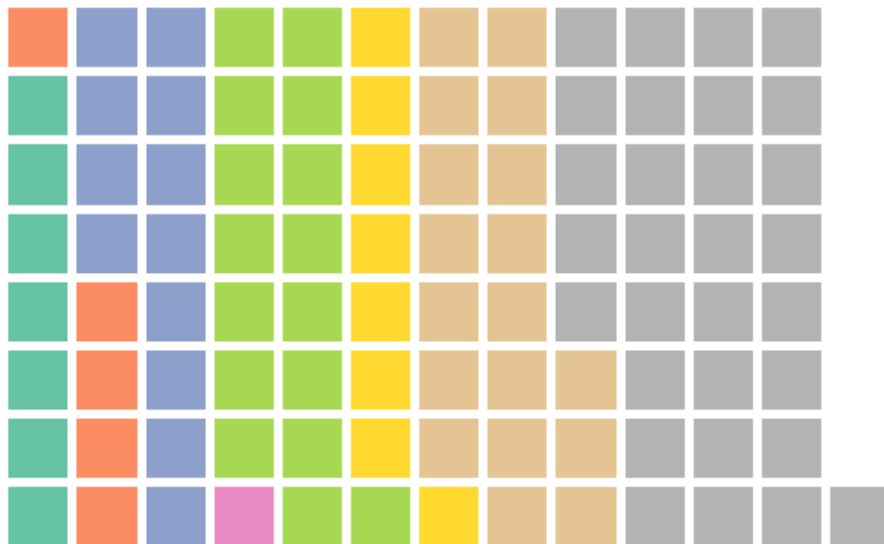
Domestic Ag Imports

Shipments from other US states terminating in NC

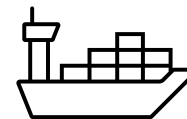
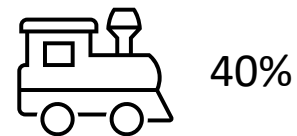




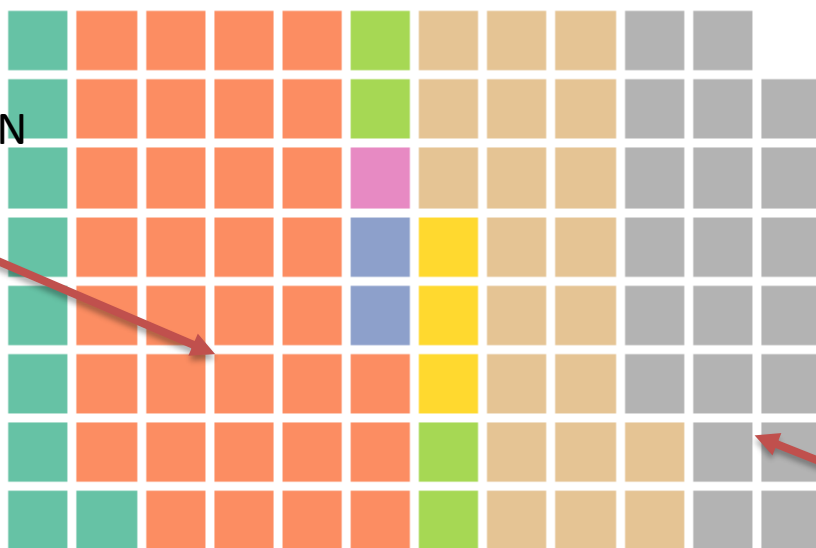
2018 NC domestic ag imports by share of value



- Animal feed: (8%)
- Cereal grains: (5%)
- Live animals/fish: (13%)
- Logs: (1%)
- Meat/seafood: (16%)
- Milled grain prods.: (8%)
- Other ag prods.: (18%)
- Other foodstuffs: (31%)



2018 NC domestic ag imports by share of ton-miles



- Animal feed: (9%)
- Cereal grains: (35%)
- Live animals/fish: (2%)
- Logs: (2%)
- Meat/seafood: (5%)
- Milled grain prods.: (4%)
- Other ag prods.: (21%)
- Other foodstuffs: (22%)



multimodal

MI, OH & IN (> 80%)



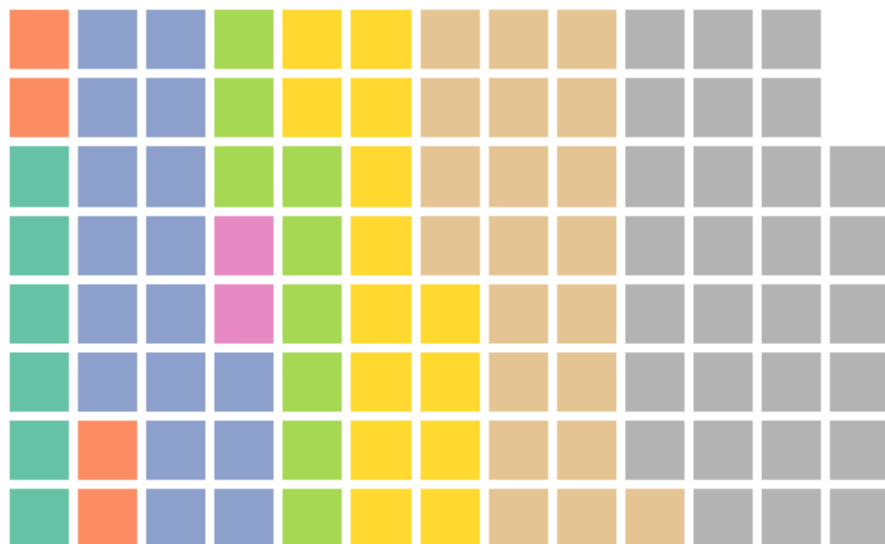
Local Ag Movements

Shipments from originating *and* terminating in NC

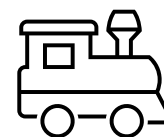




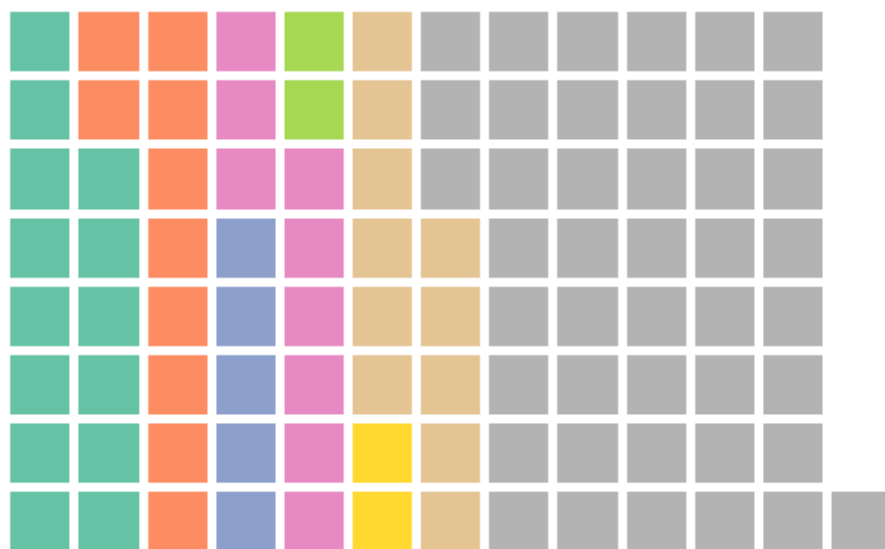
2018 ag shipments within NC by share of value



- Animal feed: (7%)
- Cereal grains: (5%)
- Live animals/fish: (18%)
- Logs: (2%)
- Meat/seafood: (9%)
- Milled grain prods.: (15%)
- Other ag prods.: (21%)
- Other foodstuffs: (30%)



2018 ag shipments within NC by share of ton-miles



- Animal feed: (14%)
- Cereal grains: (11%)
- Live animals/fish: (5%)
- Logs: (10%)
- Meat/seafood: (2%)
- Milled grain prods.: (2%)
- Other ag prods.: (12%)
- Other foodstuffs: (45%)



99%



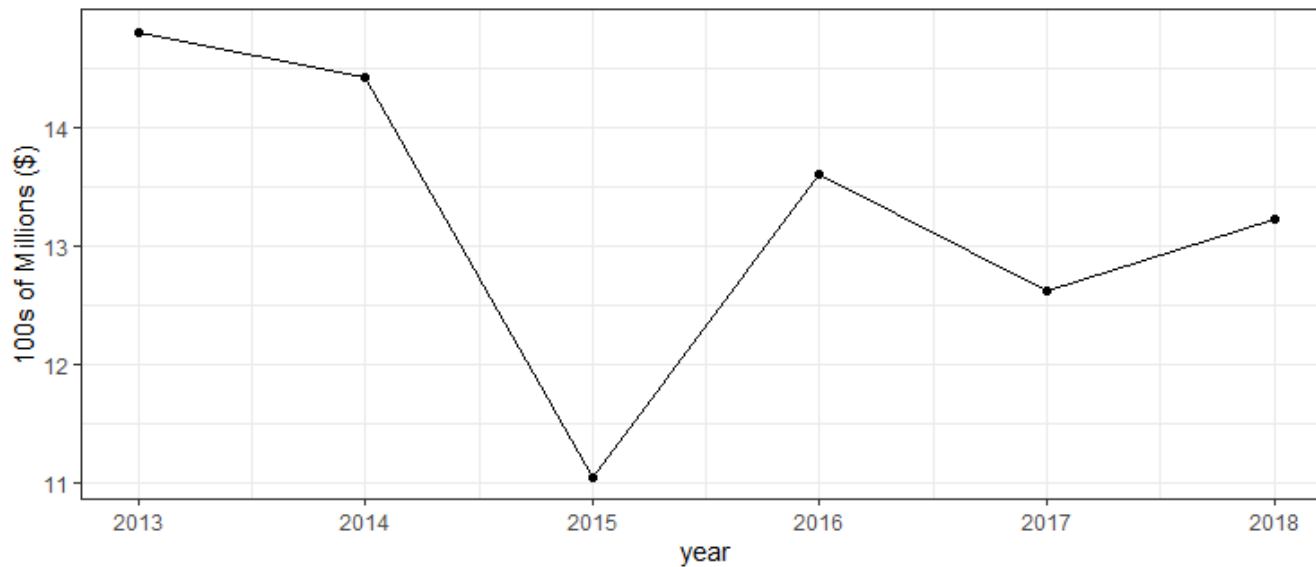
NC Ag Exports

Shipments originating in NC to other countries



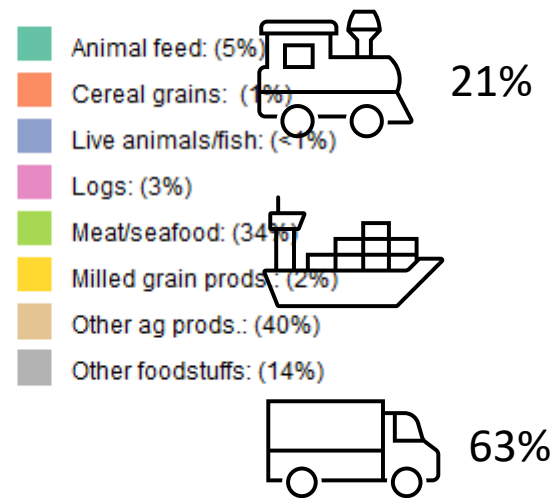
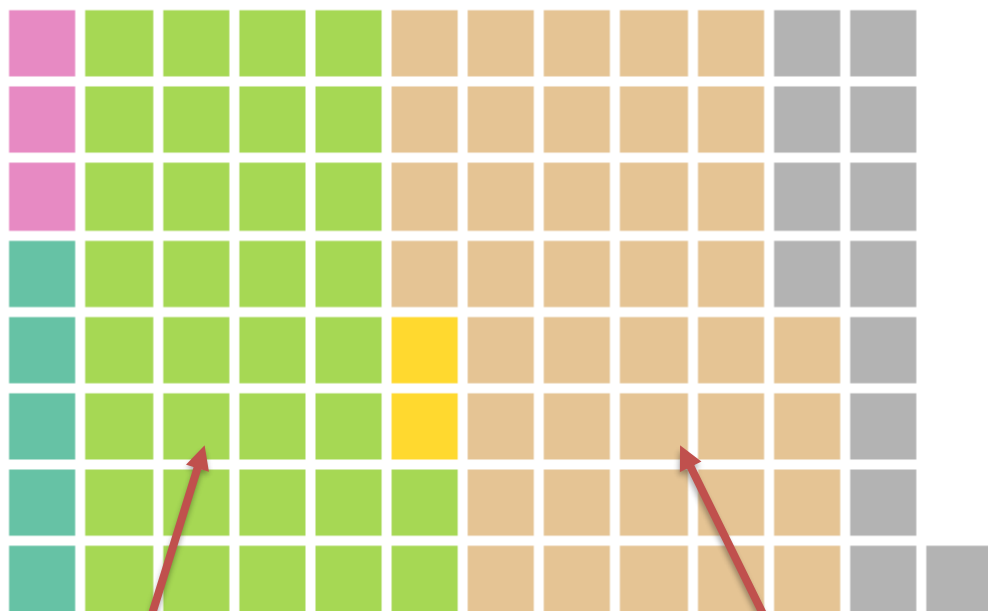


Ag exports originating in NC





2018 ag exports originating in NC by share of value



46% East Asia
 15% Europe
 11% SE Asia & Oceania
 10% Rest of Americas

34% East Asia
 24% Europe
 13% SE Asia & Oceania
 8% Canada
 7% Mexico



US Exit Regions



Photo source is @NCPorts twitter page: [Link](#)

- Meat/seafood [shares of value]
 - VA 37%
 - NC 22%
 - SC 19%
- Other ag prods. [shares of value]
 - VA 52%
 - SC 23%
 - NC 9%



Feel free to reach out with questions!

Heidi Schweizer

4221D Nelson Hall
hschwei@ncsu.edu
919.515.5276

