

Part One: Creating a Turkey Supply Chain

Background

Turkeys are an important part of Iowa's agricultural tapestry. According to the Iowa Turkey Federation, Iowa farmers raise approximately 12 million turkeys annually, placing Iowa 7th in the nation for turkeys raised. That state is also home to two processing facilities, Tyson Foods and West Liberty Foods. Between these two facilities, over 15.5 million turkeys are processed annually, placing Iowa 6th in the nation in turkey processing. The Iowa turkey industry supports over 38,000 jobs and contributes \$10.64 billion in total economic activity across that state.

To get turkeys from the farm to your fork is an incredible feat. Precise logistics and efficient supply chains are essential factors in the availability of food to consumers around the world.

Activity Instructions

On the next page, you will find lists of careers, locations, inputs/supports, and outputs associated with turkey production.

- 1. Using at least five from each list, create a supply chain web on page 3 to show to the connections between each.***
- 2. Circle the items you use from each list.***
- 3. Color code each category on your web. Some items, like truck driver, may be listed more than once in the web, but only count as one item from the list. Feel free to add other careers, locations, inputs/outputs as you see fit.***

A brief example is available on the next page.

Gobble Up! Turkey Learning Unit
High School Activity 3: Farm to Global
Turkey Supply Chain

Careers

- Animal Science Specialist
- Hatchery Worker
- Truck Driver
- Farmer
- Veterinarian
- Food Safety Inspector
- Meat Cutter
- Processing Plant Manager
- Genetic Researcher
- Distribution and Supply Chain Manager
- Sales Associate
- Building Inspector
- Turkey Nutritionist
- Marketer

- Restaurant
- Turkey Processing Plant
- Agricultural University
- Local Government
- Feed Mill
- Food Company
- Consumer

Inputs & Outputs

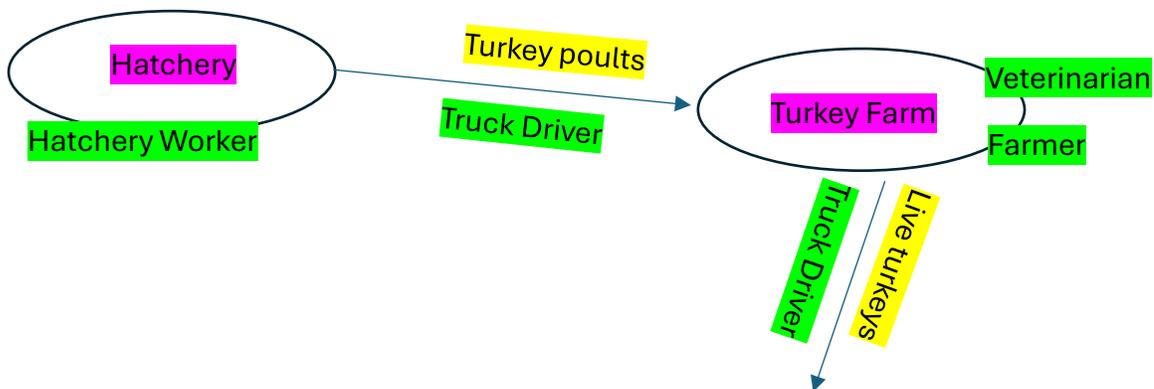
- Turkey Poults
- Turkey Feed
- Water
- Metal and Building Supplies
- Labor
- Market Knowledge
- Consumer Preferences
- Infrastructure/Road Network
- Manure
- Whole Turkeys
- Turkey Deli Meat
- Turkey Byproducts (Organs, Feathers, Skins, etc.)
- Nutrition (Vitamins & Calories)

Locations

- Turkey Farm
- Hatchery
- Transportation Company
- Grocery Store

Food Supply Web Example:

Locations Inputs/Outputs Careers



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Your Supply Chain Web:

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Part Two: Identifying Disruptions in the Turkey Supply Chain

Using the SPEED acronym, identify possible disruptions that could impact the turkey supply chain for each category.

Social:

Political:

Economic:

Environmental:

Demographic:

Write a response paragraph to the following prompt: What does a global food system look like that is both efficient and resilient?