

WORK PLAN

National Weather Service field office gathered data regarding tornado occurrences and their effects from 1950 – 2015 through all states within the United States. We have combined this data set with information regarding state specific agricultural exports in the United States, and aim to answer a few interesting research questions. The data sources for the agricultural exports are the USDA Economic Research Service and the USDA Foreign Agricultural Service.

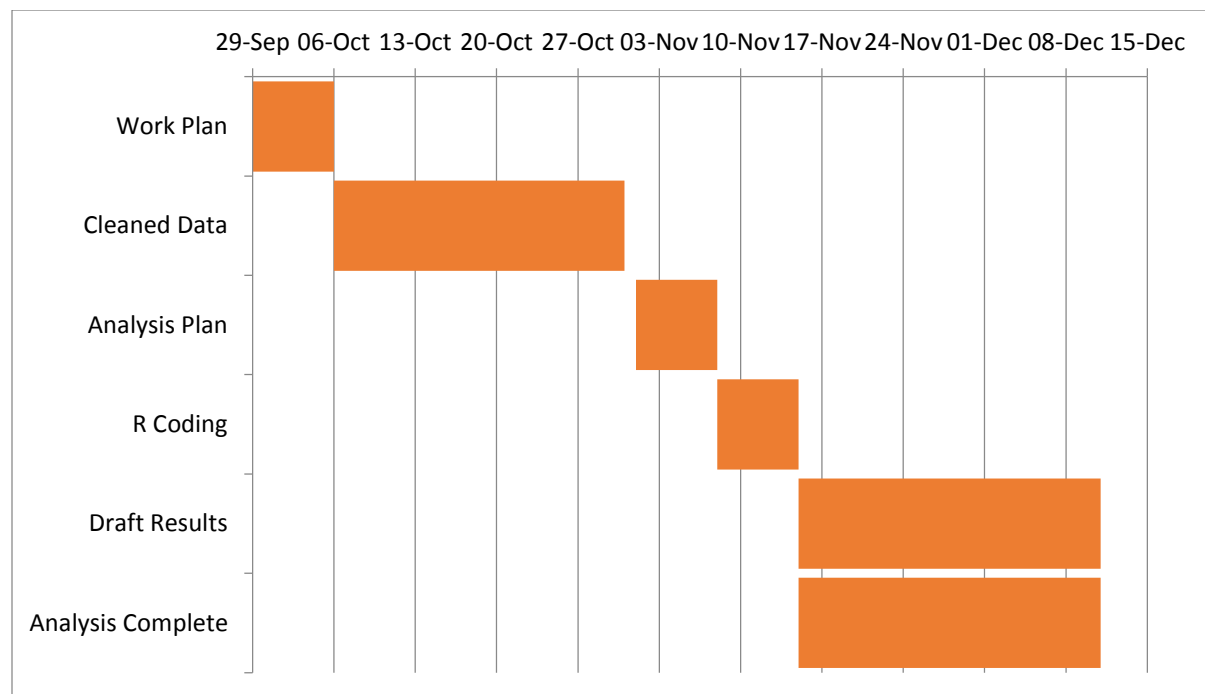
Research Questions:

The following are the research questions we aim to answer through this study:

1. What is the probability that there will be an increase in tornado occurrence in 2017?
2. What is the probability that a tornado occurrence will reduce the agricultural exports in USA in the year 2017? If there is a reduction in the export, how large will the reduction be?
3. Which are the agricultural products that are relatively safer to grow in tornado prone areas?

Planned Timeline:

We have strategically determined the activities our team would accomplish against strict timelines. The GANTT Chart below clearly depicts this:



Project Effort Allocation:

Each member in the team will contribute equally through the course of this project. We have divided the specific tasks to be completed and determined whether they would be done individually, or together as a group.

Task	Individual/Team Contribution
Work Plan	Team members will work together to determine the research questions
Data Cleaning	Team members will work together to determine what data we will include/exclude and clean the data
Analysis	Each team member will analyze one research question and share his/her findings through Github. Team members will review the work of each other and add inputs.
Results	Each team member will document the results based on his/her analysis
Presentation	Each team member will present an equal portion of the project

Target Audience:

The results of our analysis would be beneficial to a number of organizations across the country, some of which are listed below:

1. United States Department of Agriculture
2. National Institute for Occupational Safety and Health
3. Insurance Companies
4. Food Manufacturing Industry

Furthermore, the study might benefit other research groups who are looking to find answers in the same field.