

Assignment 6

Task 1:

- Key variables that could be interesting for visualizing distribution of food categories:
 - Category Field: Food Product Category
 - Value Field: # of Units, Total Weight in lbs, Total Cost
- Distribution of food weight across different categories in Tableau (as a highlight table):

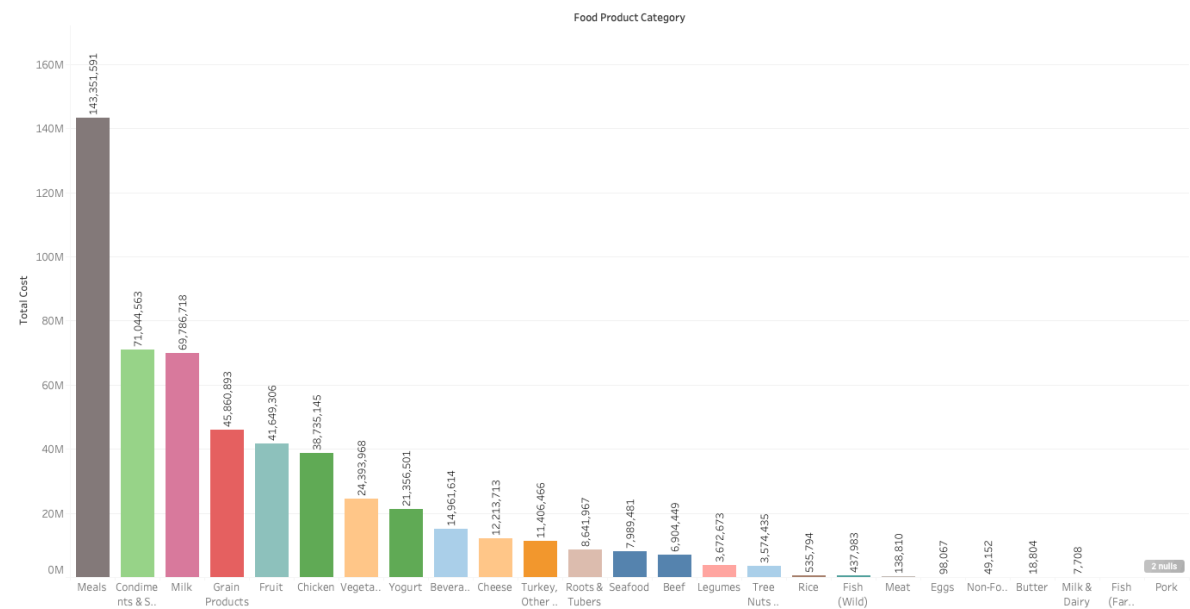
Task 1

Food Product Category	Total Weight in lbs
Milk	155,600,902
Meals	70,742,840
Fruit	55,584,537
Beverages	45,373,355
Condiments & Snacks	42,042,533
Grain Products	30,519,696
Vegetables	24,547,509
Chicken	19,815,752
Yogurt	12,493,757
Legumes	7,159,724
Cheese	6,765,731
Roots & Tubers	6,284,743
Turkey, Other Poultry	4,751,410
Beef	4,451,953
Seafood	3,325,294
Tree Nuts & Seeds	2,763,858
Rice	1,340,245
Eggs	541,347
Pork	271,118
Fish (Wild)	215,002
Fish (Farm-Raised)	171,669
Meat	118,543
Milk & Dairy	47,431
Butter	40,836
Non-Food	6,144

Task 2:

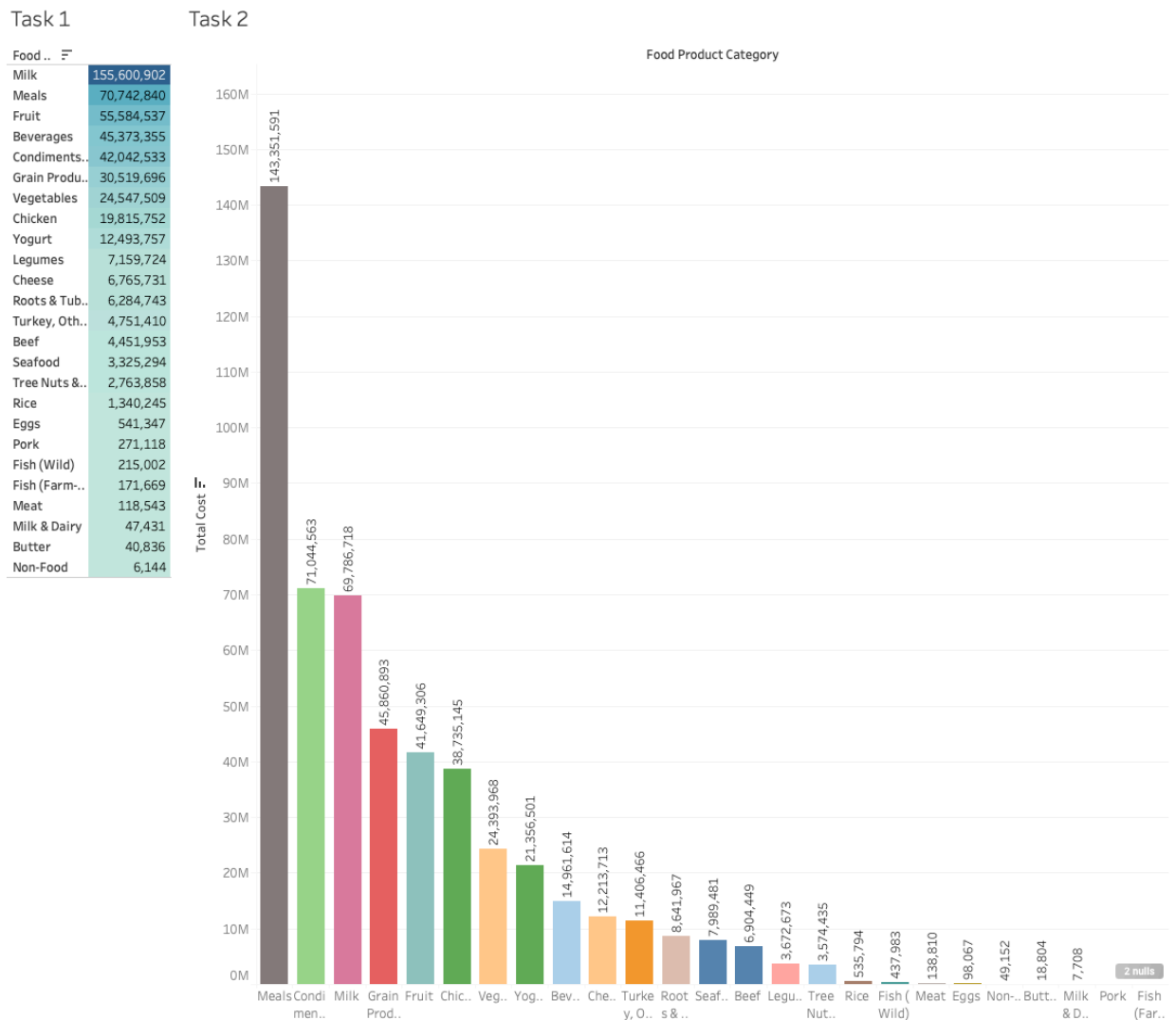
- Distribution of food cost across different categories in Tableau (as a bar chart):

Task 2



Task 3:

- Dashboard designed in Tableau:



Description of insights derived from visualizations:

For my description of insights, I'll be focusing on the food product categories with the highest total cost and highest total weight, "Meals" and "Milk", respectively.

"Meals" appears to be a significant food category across both visualizations as it has the highest total cost and second highest total weight. It makes sense that the "Meals" category has the highest total cost because making meals involve diverse ingredients, preparation, packaging, and labor. "Meals" probably has a lower total weight than "Milk" because some of the food components that make up the meals likely weigh less than milk does.

“Milk” also seems to be an important food category across both visualizations as it has the highest total weight and third highest total cost, despite it being a liquid food category. This was surprising to me at first, but it makes sense after considering that the food purchasing agency is the Administration for Children’s Services and that milk is viewed as an essential superfood (and thus has a higher consumption volume) for growing children. Milk also has a heavier weight than most other beverages and some solid foods due to the presence of solids such as proteins, sugars, and minerals in milk.