<https://vimeo.com/434221066>

<https://www.statisticshowto.com/probability-and-statistics/hypothesis-testing/anova/>

| **Independent Variable** | **Dependent Variable** | **Chart** | **Questions/Type of Analysis** |
| --- | --- | --- | --- |
| Household Income to Poverty Ratio   * Above Poverty Level * Below Poverty Level | **Food Insecurity** (measured in percentage)  Subset: **Food insecurity prevalence** (categorical, measured in 3 levels)   * FOOD INSECURITY: BELOW U.S. NATIONAL AVERAGE (<10.7%) * FOOD INSECURITY: NEAR U.S. NATIONAL AVERAGE (10.7%) * FOOD INSECURITY: ABOVE U.S. NATIONAL AVERAGE (>10.7%) | * Percent of People by Ratio of Income to Poverty Level: 1970 to 2020.xlsx * Dataset2\_Poverty by Region: 1959 to 2020.xlsx | How does the category of ratio of income to poverty level relate to food insecurity?   * ANOVA?   How much does the % or number of people below the poverty line influence the food insecurity?   * Simple Stepwise/Hierarchical Regression (1 IV: % or # of people of people below poverty) |
| Families With and Without Children   * Adults Only * Adults AND Children   OR  Household Composition   * With Children < 18 * With No Children < 18 * With Elderly | <https://www.ers.usda.gov/topics/food-nutrition-assistance/food-security-in-the-u-s/key-statistics-graphics/#householdtype> | What does 2020 data seem to suggest about the prevalence of FI related to household composition? |
| [Increase in] Cost of Living  (percentage, based on year)   * Can be broken down based on category (All Items, Goods, Housing, Utilities, Other) | * Dataset1\_RPP Stats | * Repeated Measures ANOVA |
| Ethnicity/Race   * White, non-Hispanic * Black, non-Hispanic * Hispanic * Other, non-Hispanic | <https://www.ers.usda.gov/topics/food-nutrition-assistance/food-security-in-the-u-s/key-statistics-graphics/#householdtype> | What does 2020 data seem to suggest about the prevalence of FI related to ethnicity? |
| Area of Residence   * Inside Metropolitan Area * Outside Metropolitan Area | <https://www.ers.usda.gov/topics/food-nutrition-assistance/food-security-in-the-u-s/key-statistics-graphics/#householdtype> | What does 2020 data seem to suggest about the prevalence of FI related to area of residence? |

Note: Use Data Viz like Tableau to graph trends in Feeding America charts (grouped by every two years)