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## Stat 245 – Tidy Dataset

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```
bihs_household <- readxl::read_excel('BIHS_household_2011_15.xlsx')
bihs_child <- readxl::read_excel('BIHS_child_health_2011_15.xlsx')</pre>
```

## Food Security

## **Summary Statistics**

fs <- bihs\_household %>% select(fcs, dd\_1\_wheat, dd\_2\_wheat, dd\_3\_tubers, dd\_4\_cereals, dd\_5\_vegetables
Summary of Food Consumption Score

pander::pander( summary(fs\$fcs, fs\$hhs\_total) )

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
18	51.5	63	64.83	79.5	112	11

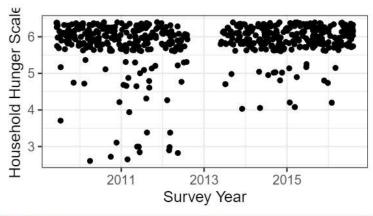
Summary of Total Household Hunger Scale

pander::pander( summary(fs\$hhs\_total) )

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
3	6	6	5.828	6	6	10

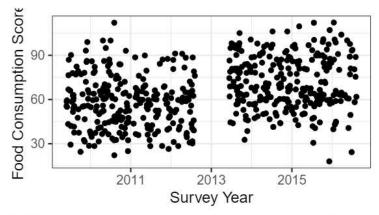
## **Data Exploration Plots**

gf\_jitter(hhs\_total - survey\_year, data = bihs\_household, ylab = "Household Hunger Scale", xlab = "Surv

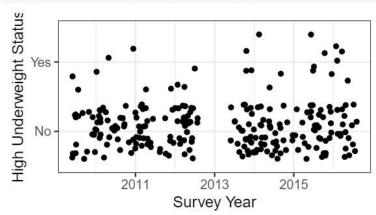


gf\_jitter(fcs ~ survey\_year, data = bihs\_household, xlab = "Survey Year", ylab = "Food Consumption Scor

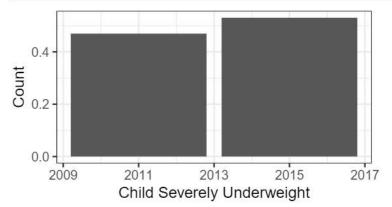
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gf\_jitter(underweight\_high ~ survey\_year, data = bihs\_child, xlab = "Survey Year", ylab = "High Underweight\_high ~ survey\_year, data = bihs\_child, xlab = "Survey Year", ylab = "High Underweight\_high ~ survey\_year, data = bihs\_child, xlab = "Survey Year", ylab = "High Underweight\_high ~ survey\_year, data = bihs\_child, xlab = "Survey Year", ylab = "High Underweight\_high ~ survey\_year, data = bihs\_child, xlab = "Survey Year", ylab = "High Underweight\_high ~ survey\_year, data = bihs\_child, xlab = "Survey Year", ylab = "High Underweight\_high ~ survey\_year, data = bihs\_child, xlab = "Survey Year", ylab = "High Underweight\_high ~ survey\_year, data = bihs\_child, xlab = "Survey Year", ylab = "High Underweight\_high ~ survey\_year, data = bihs\_child, xlab = "Survey Year", ylab = "High Underweight\_high ~ survey\_year, data = bihs\_child, xlab = "Survey Year", ylab = "High Underweight\_high ~ survey\_year, data = bihs\_child, xlab = "Survey Year", ylab = "High Underweight\_high ~ survey\_year, data = bihs\_child, xlab = "Survey Year", ylab = "High Underweight\_high ~ survey\_year, data = bihs\_child, xlab = "Survey Year", ylab = "High Underweight\_high ~ survey\_year, data = bihs\_child, xlab = "Survey Year", ylab = "High Underweight\_high ~ survey\_year, data = bihs\_child, xlab = "Survey Year", ylab = "High Underweight\_high ~ survey\_year, data = bihs\_child, xlab = bihs



underweight <- bihs\_child %>% select(underweight\_high, survey\_year)
require(ggplot2)
gf\_bar(...prop..~survey\_year, data = underweight, xlab = "Child Severely Underweight", ylab = "Count")



ggplot(underweight) + geom\_bar(aes(x = survey\_year, y = ..prop.., group = 1), stat = 'count')

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