Strawberries

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My Goal

My overall goal is to create a data.frame that will allow me to look at the type of chemical application (fungicide, herbicide, insecticide, or fertilizer) and examine per acre applications in selected states during selected years.

Jear State application black

2015 CA
FL
Angicide #
herbicide

NY
NC
OR
NA
NE
OH
RA
NI
OH
RA
RA
NI
OH
RA
RA
NI
OH
RA
RA
RA
RA
RA
RA
RA
RA

Figure 1: my target data.frame organization

MY STEPS

(1) Read and examine

These data were collected from the USDA database selector: https://quickstats.nass.usda.gov The data were stored online and then downloaded as a CSV file.

The data has 21 columns.

```
[1] "Program"
                            "Year"
                                                "Period"
                                                                     "Week Ending"
##
    [5] "Geo Level"
                            "State"
                                                                     "Ag District"
                                                 "State ANSI"
                                                                     "Zip Code"
    [9] "Ag District Code" "County"
                                                 "County ANSI"
                                                                     "Commodity"
## [13] "Region"
                            "watershed_code"
                                                 "Watershed"
                                                                     "Value"
## [17] "Data Item"
                            "Domain"
                                                 "Domain Category"
## [21] "CV (%)"
```

(2) Remove the columns that only had NAs

This leaves 12 columns.

```
## [1] "Program" "Year" "Period" "Geo Level"
## [5] "State" "State ANSI" "watershed_code" "Commodity"
## [9] "Data Item" "Domain Category" "Value"
```

(3) Remove the columns that provide no new information

"Program" and "Geo Level" have only 1 value. And "State ANSI" is a duplicate of "State" This leaves 8 columns.

```
## [1] "Year" "Period" "State" "Commodity"
## [5] "Data Item" "Domain" "Domain Category" "Value"
```

(4) Select the rows that contain "Strawberries" & only the rows where the 'Period' = "YEAR". Then eliminate the Period and Commodity column.

NOTE: The Period column has three values: "MARKETING YEAR", "YEAR", and "YEAR - AUG FORE-CAST." We are only keeping the records where Period = "YEAR" so that we have a consistent comparison. This leaves 6 columns.

```
## [1] "Year" "State" "Data Item" "Domain"
## [5] "Domain Category" "Value"
```

(5)