

# Module 3 Instructor Notes

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## Data

`producers_race_2017_ID.csv`

These data were downloaded from the [USDA NASS QuickStats tool](#) with the following parameters:

- Program: CENSUS
- Sector: DEMOGRAPHICS
- Group: PRODUCERS
- Commodity: PRODUCERS
- Category: PRODUCERS
  
- Data Item:
  - PRODUCERS, (ALL) - NUMBER OF PRODUCERS
  - PRODUCERS, (ALL), FEMALE - NUMBER OF PRODUCERS
  - PRODUCERS, (ALL), MALE - NUMBER OF PRODUCERS
  - PRODUCERS, AMERICAN INDIAN OR ALASKA NATIVE - NUMBER OF PRODUCERS
  - PRODUCERS, ASIAN - NUMBER OF PRODUCERS
  - PRODUCERS, BLACK OR AFRICAN AMERICAN - NUMBER OF PRODUCERS
  - PRODUCERS, HISPANIC - NUMBER OF PRODUCERS
  - PRODUCERS, NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER - NUMBER OF PRODUCERS
  - PRODUCERS, WHITE - NUMBER OF PRODUCERS
  
- Domain: TOTAL
- Geographic Level: COUNTY
- State: IDAHO
- Year: 2017

#### **commodities\_ID\_2017.csv**

These data were downloaded from the [USDA NASS QuickStats tool](#) with the following parameters:

- Program: CENSUS
- Sector: CROPS
- Group: All
- Commodity: All
- Category:
  - AREA BEARING
  - AREA HARVESTED
- Data Item: All
- Domain: TOTAL
- Geographic Level: COUNTY
- State: IDAHO
- Year: 2017

#### **num\_farms\_areafiltered\_tenure\_1997\_2017\_ID.csv**

These data were downloaded from the [USDA NASS QuickStats tool](#) with the following parameters:

- Program: CENSUS
- Sector:
  - DEMOGRAPHICS
  - ECONOMICS
- Group: FARMS & LAND & ASSETS
- Commodity: FARM OPERATIONS
- Category: OPERATIONS
- Data Item: FARM OPERATIONS - NUMBER OF OPERATIONS
- Domain:
  - AREA OPERATED
  - TENURE
  - TOTAL
- Geographic Level: COUNTY
- State: IDAHO
- Year:
  - 1997

– 2017

And were cleaned with the following code:

```
# data file downloaded from QuickStats
size <- read.csv("data/num_farms_area_tenure_1997_2017_ID.csv")

size_filt <-
  dplyr::filter(size,
                 Domain.Category %in%
                   unique(size[which(size$Year == 1997), "Domain.Category"]))

write.csv(size_filt, "data/num_farms_areafiltered_tenure_1997_2017_ID.csv")
```

## Teaching notes

- In this module, students start to manipulate whole columns instead of single numbers. They may miss this transition if they aren't reading the handout.
- I had students add the data for their counties to a shared Google sheet so that students could compare their counties with others. You may wish to record data in a different way. If you do, you will want to find and replace mentions of the shared Google sheet throughout these modules.
- I had students email me their finished PDFs. If you have a different way of collecting assignments, you will want to change the instructions at the end of the module to reflect that.