Week-9-entry

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Document

Answer the following questions in an R Markdown file,

1. What is the topic that you have finalized? (Answer in 1 or 2 sentences),

The topic I have chosen to finalise on would be on Deforestation in Brazil and how it affects the food supply.

2. What are the data sources that you have curated so far? (Answer 1 or 2 sentences).

The data sources I have curated are as follows:

```
library(tidytuesdayR)
library(tidyverse)
```

```
## ── Attaching core tidyverse packages ──────────────────────── tidyverse 2.0.0 ──
## ✔ dplyr     1.1.3     ✔ readr     2.1.4
## ✔ forcats   1.0.0     ✔ stringr   1.5.0
## ✔ ggplot2   3.4.4     ✔ tibble    3.2.1
## ✔ lubridate 1.9.3     ✔ tidyr     1.3.0
## ✔ purrr     1.0.2
## ── Conflicts ────────────────────────────────────────── tidyverse_conflicts() ──
## ✖ dplyr::filter() masks stats::filter()
## ✖ dplyr::lag()    masks stats::lag()
## ℹ Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflic
ts to become errors
```

```
read_csv("brazil_loss.csv")
```

```
## Rows: 13 Columns: 14
## ── Column specification ────────────────────────────────────────────────────────
## Delimiter: ","
## chr  (2): entity, code
## dbl (12): year, commercial_crops, flooding_due_to_dams, natural_disturbances...
##
## ℹ Use `spec()` to retrieve the full column specification for this data.
## ℹ Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
## # A tibble: 13 × 14
##    entity code   year commercial_crops flooding_due_to_dams natural_disturbances
##    <chr>  <chr> <dbl>            <dbl>                <dbl>                 <dbl>
##  1 Brazil BRA    2001           280000                    0                     0
##  2 Brazil BRA    2002           415000                79000                 35000
##  3 Brazil BRA    2003           550000                    0                 35000
##  4 Brazil BRA    2004           747000                26000                 22000
##  5 Brazil BRA    2005           328000                17000                 26000
##  6 Brazil BRA    2006           188000                17000                 26000
##  7 Brazil BRA    2007            79000                 9000                 22000
##  8 Brazil BRA    2008            52000                    0                 17000
##  9 Brazil BRA    2009            57000                 9000                 31000
## 10 Brazil BRA    2010           100000                    0                 44000
## 11 Brazil BRA    2011            52000                17000                 87000
## 12 Brazil BRA    2012           118000                17000                 52000
## 13 Brazil BRA    2013            87000                    0                 13000
## # ℹ 8 more variables: pasture <dbl>, selective_logging <dbl>, fire <dbl>,
## #   mining <dbl>, other_infrastructure <dbl>, roads <dbl>,
## #   tree_plantations_including_palm <dbl>, small_scale_clearing <dbl>
```

```
soybean_use <- read_csv("soybean_use.csv")
```

```
## Rows: 9897 Columns: 6
## ── Column specification ────────────────────────────────────────────────────────
## Delimiter: ","
## chr (2): entity, code
## dbl (4): year, human_food, animal_feed, processed
##
## ℹ Use `spec()` to retrieve the full column specification for this data.
## ℹ Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
soybean_use %>%
  filter(entity == "Brazil")
```

```
## # A tibble: 53 × 6
##    entity code   year human_food animal_feed processed
##    <chr>  <chr> <dbl>      <dbl>       <dbl>     <dbl>
##  1 Brazil BRA    1961       3000       46000    137000
##  2 Brazil BRA    1962       3000       65000    167000
##  3 Brazil BRA    1963       4000       80000    191000
##  4 Brazil BRA    1964       4000       68000    216000
##  5 Brazil BRA    1965       6000       68000    284000
##  6 Brazil BRA    1966       8000       60000    376000
##  7 Brazil BRA    1967       9000       49000    400000
##  8 Brazil BRA    1968       9000       89000    454000
##  9 Brazil BRA    1969      12000       92000    590000
## 10 Brazil BRA    1970      20000       65000    985000
## # ℹ 43 more rows
```

```
vegetable_oil <- read_csv("vegetable_oil.csv")
```

```
## Rows: 143832 Columns: 5
## ── Column specification ────────────────────────────────────────────────────────
## Delimiter: ","
## chr (3): entity, code, crop_oil
## dbl (2): year, production
##
## ℹ Use `spec()` to retrieve the full column specification for this data.
## ℹ Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
vegetable_oil %>%
  filter(entity == "Brazil")
```

```
## # A tibble: 702 × 5
##    entity code   year crop_oil        production
##    <chr>  <chr> <dbl> <chr>                <dbl>
##  1 Brazil BRA    1961 Soybean              21594
##  2 Brazil BRA    1961 Sesame                  NA
##  3 Brazil BRA    1961 Linseed              8456
##  4 Brazil BRA    1961 Palm                 3993
##  5 Brazil BRA    1961 Rapeseed                4
##  6 Brazil BRA    1961 Groundnut           91808
##  7 Brazil BRA    1961 Cottonseed         116230
##  8 Brazil BRA    1961 Coconut (copra)      1071
##  9 Brazil BRA    1961 Olive, virgin           NA
## 10 Brazil BRA    1961 Safflower               NA
## # ℹ 692 more rows
```