

Covid-19 Analysis

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5/25/2021

Introduction and Data Source

The Covid-19 pandemic has completely upended life over the past 14 months. What has been interesting, at least in the United States, is the uneven approach by various governments - local, state, and federal - to addressing the emergency and differing opinions on the severity of the virus and the pandemic itself. The United States is a very geographically and culturally diverse nation with each region having different sensibilities and ways of living. While there is significant overlap, the distinctions among the regions are also striking. By looking at the number of cases and deaths within each region and in the United States as whole, a determination can be made if certain regions were more successful with their approach to the virus. Dividing the states into regions and analyzing cases and deaths will give some insight into how regions of the United States were effected by the Covid-19 virus.

In order to explore these ideas, data from John's Hopkins github repository (https://github.com/CSSEGISandData/COVID-19/tree/master/csse_covid_19_data) will be analyzed. Among the many data sets present are two which have time-series data showing the location (county, state, latitude and longitude) for all cases of COVID-19 infections and deaths in the United States. These two will be used in order to explore and gain understanding into geographic trends in COVID-19 cases and deaths.

Data Cleaning and Processing

The data was read in and the variables analyzed for both data sets.

```
url_1 <- "https://github.com/CSSEGISandData/COVID-19/raw/master/csse_covid_19_data/csse_covid_19_time_s
Cases <- read.csv(url_1)
url_2 <- "https://github.com/CSSEGISandData/COVID-19/raw/master/csse_covid_19_data/csse_covid_19_time_s
Deaths <- read.csv(url_2)
```

Immediately, it became clear that tidying would be required (output of initial variables not shown for space). The many columns containing data not pertinent to this analysis were removed and the columns representing the dates were pivoted to rows for both data sets. The entries for the dates were edited and reformatted as Date objects for easier use in analysis. Finally, the two data sets were joined to provide a common location for the data and for use of population data. A summary of the composition of the initial files is provided in the appendix.

```
#Removing unnecessary columns & reformatting Date column
US_cases <- Cases %>%
  select(-c(UID, iso2, iso3, FIPS, Lat, Long_, code3, Combined_Key)) %>%
  pivot_longer(cols=-c(Admin2, Province_State, Country_Region),
               names_to='Date', values_to = "Cases")
```

```

US_cases <- US_cases %>%
  mutate(Date = str_remove(Date, 'X')) %>%
  mutate(Date = mdy(Date))

US_deaths <- Deaths %>%
  select(-c(UID, iso2, iso3, FIPS, Lat, Long_, code3, Combined_Key)) %>%
  pivot_longer(cols=-c(Admin2, Province_State, Country_Region, Population),
               names_to='Date', values_to = "Deaths")

US_deaths <- US_deaths %>%
  mutate(Date = str_remove(Date, 'X')) %>%
  mutate(Date = mdy(Date))

#Joining US_deaths and US_cases
US_combined <- full_join(US_cases, US_deaths)

```

```
## Joining, by = c("Admin2", "Province_State", "Country_Region", "Date")
```

Regional Analysis

New Cases and Deaths

In order to identify regional trends, it is necessary to partition the 50 states and the District of Columbia into regions. While not having equal populations, the regions below do comprise distinct geographic regions with cultural distinctions. Since much is made of the regional differences, states were grouped balancing geographic proximity and cultural commonality.

```

#Region of country based on state
NE_MA <- c("Maine", "New Hampshire", "Vermont", "New York", "Pennsylvania",
           "Massachusetts", "Connecticut", "Rhode Island", "New Jersey",
           "Delaware", "Maryland", "District of Columbia")
South <- c("Virginia", "Kentucky", "Tennessee", "North Carolina", "South Carolina",
           "Georgia", "Florida", "Alabama", "Mississippi", "Louisiana",
           "Texas", "Arkansas", "West Virginia")
MW_PL <- c("Ohio", "Indiana", "Michigan", "Wisconsin", "Minnesota", "Iowa",
           "Missouri", "Oklahoma", "Kansas", "Nebraska", "North Dakota",
           "South Dakota", "Illinois")
West <- c("New Mexico", "Arizona", "California", "Hawaii", "Alaska", "Oregon",
           "Washington", "Idaho", "Montana", "Wyoming", "Colorado", "Utah", "Nevada")

```

Grouping by State and Date allowed for the total number of cases and deaths in each state on each date to be calculated. New columns were added and included the number of new cases (by comparing each dates' cases and deaths to the day before using the lag() function), deaths, and the region each state is located - based on the lists above. Filtering out rows with zero cases resulted in data only adding to potential analysis. The added Region column allowed for visual comparison and contrast in plots and numeric and modeling analysis. Finally, those rows whose region was 'Other' were removed. The data set had cases for US territories and a couple cruise ships which were not included in the analysis.

```

#Region Analysis -
State_data <- US_combined %>% group_by(Province_State, Date) %>%

```

```

summarize(Cases = sum(Cases),
          Deaths = sum(Deaths),
          Population = sum(Population)) %>%
filter(Cases>0)

```

'summarise()' has grouped output by 'Province_State'. You can override using the '.groups' argument.

```

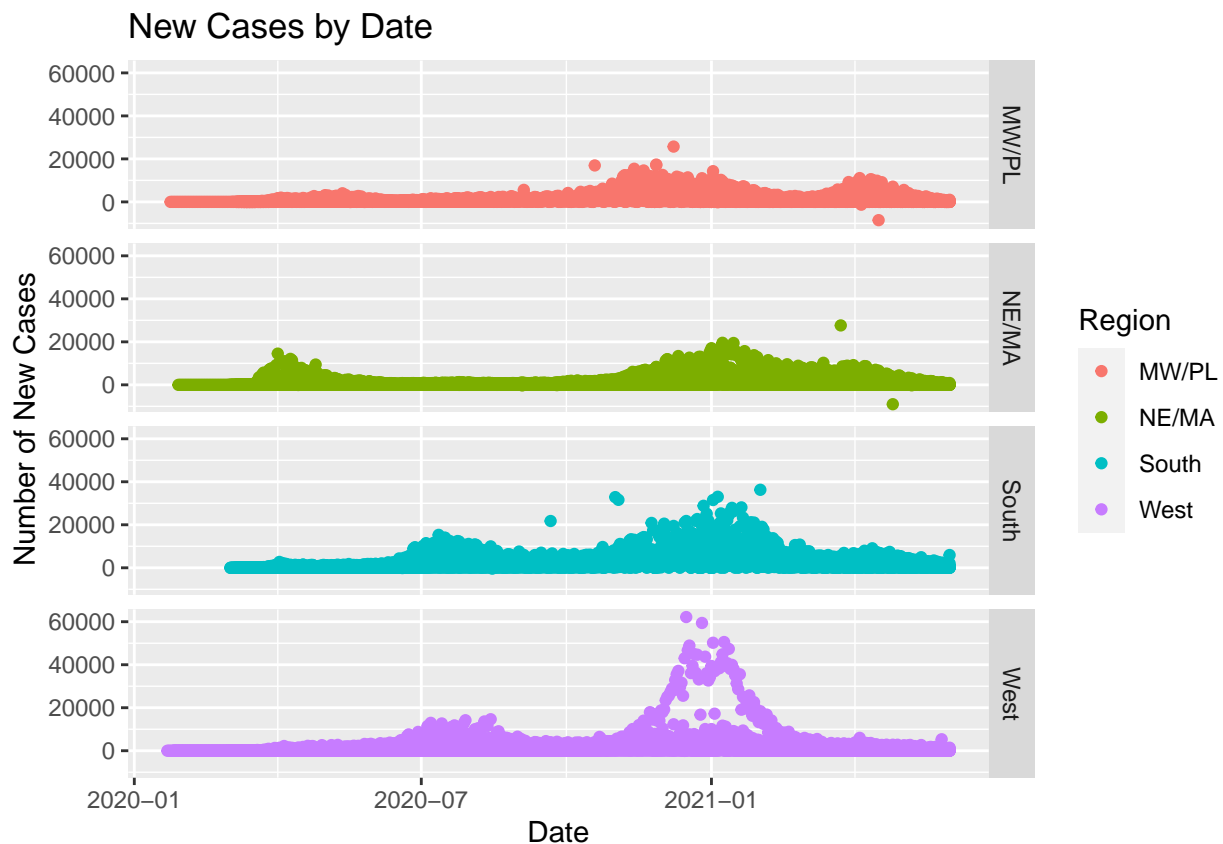
Region_data <- State_data %>%
  mutate(New_cases = Cases - lag(Cases, default=0),
         New_deaths = Deaths - lag(Deaths, default = 0),
         Region = ifelse(is.element(Province_State, NE_MA), "NE/MA",
                          ifelse(is.element(Province_State, South), "South",
                                ifelse(is.element(Province_State, MW_PL), "MW/PL",
                                      ifelse(is.element(Province_State, West), "West",
                                            "Other"))))) %>%
  filter(Region != "Other")

```

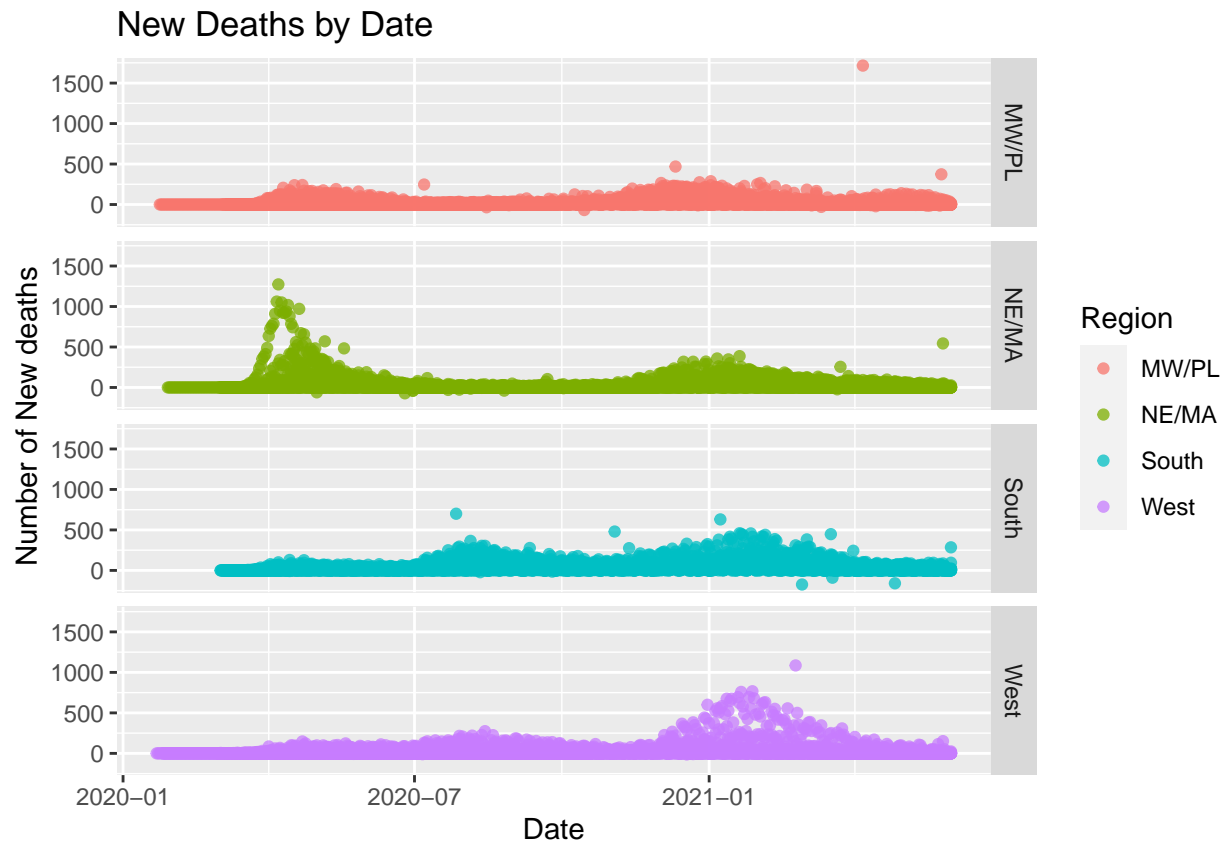
```

ggplot(data=Region_data, alpha = 0.75) +
  geom_point(aes(x=Date, y=New_cases, color=Region))+
  facet_grid(row=vars(Region))+
  labs(title='New Cases by Date',
       x='Date',
       y='Number of New Cases')

```



```
ggplot(data=Region_data) +
  geom_point(aes(x=Date, y=New_deaths, color=Region), alpha=0.75)+
  facet_grid(row=vars(Region))+
  labs(title='New Deaths by Date',
       x='Date',
       y='Number of New deaths')
```



These graphs give insight into the locations of new cases over time, specifically during times of outbreaks. Each peak in both charts represent an “outbreak” of cases during the pandemic. It can be seen that geographic regions correspond to each peak: the first peak coming from New England and Mid-Atlantic states, the second is a mixture of southern and western states, and the third a mixture of all regions. Interestingly, the Midwest and Plains states only saw minor increases in numbers while the other regions saw distinct times of increases case and death counts. It can be noted that as the pandemic continued, the diversity of regions involved in each outbreak increased and tended to change. This indicates that the effects of the pandemic were felt across all geographic regions and each region had experience with outbreak conditions.

It is interesting to see the gap within the cases for the West region around January 2021. There is a similar, though much less pronounced, gap in the Deaths plot for the West region at the same time. This possibly indicates that one state or state(s) within the West region were more effected by the increasing case count at that time than others.

Modeling Cases and Deaths

From the initial data set, entries were grouped by State and Date and the total new cases calculated for each day and each state. Grouping a second time by state resulted in a single total for each state encompassing

the the entirety of the pandemic. Additional columns were added providing the geographic region each state is located and the cases and deaths per million. Those not located in the four main regions labeled 'Other' were removed.

```
Totals_by_state <- State_data %>%
  mutate(New_cases = Cases - lag(Cases, default=0),
         New_deaths = Deaths - lag(Deaths, default = 0))

Totals_by_state <-Totals_by_state %>% group_by(Province_State) %>%
  summarize(Total_Cases = sum(New_cases),
            Total_Deaths = sum(New_deaths),
            Population=mean(Population)) %>%
  mutate(Region = ifelse(is.element(Province_State, NE_MA), "NE/MA",
                           ifelse(is.element(Province_State, South), "South",
                                   ifelse(is.element(Province_State, MW_PL), "MW/PL",
                                           ifelse(is.element(Province_State, West), "West",
                                                  "Other")))),
         Cases_per_mil = Total_Cases * 1000000 / Population,
         Deaths_per_mil = Total_Deaths * 1000000 / Population) %>%
  filter(Region != "Other")
```

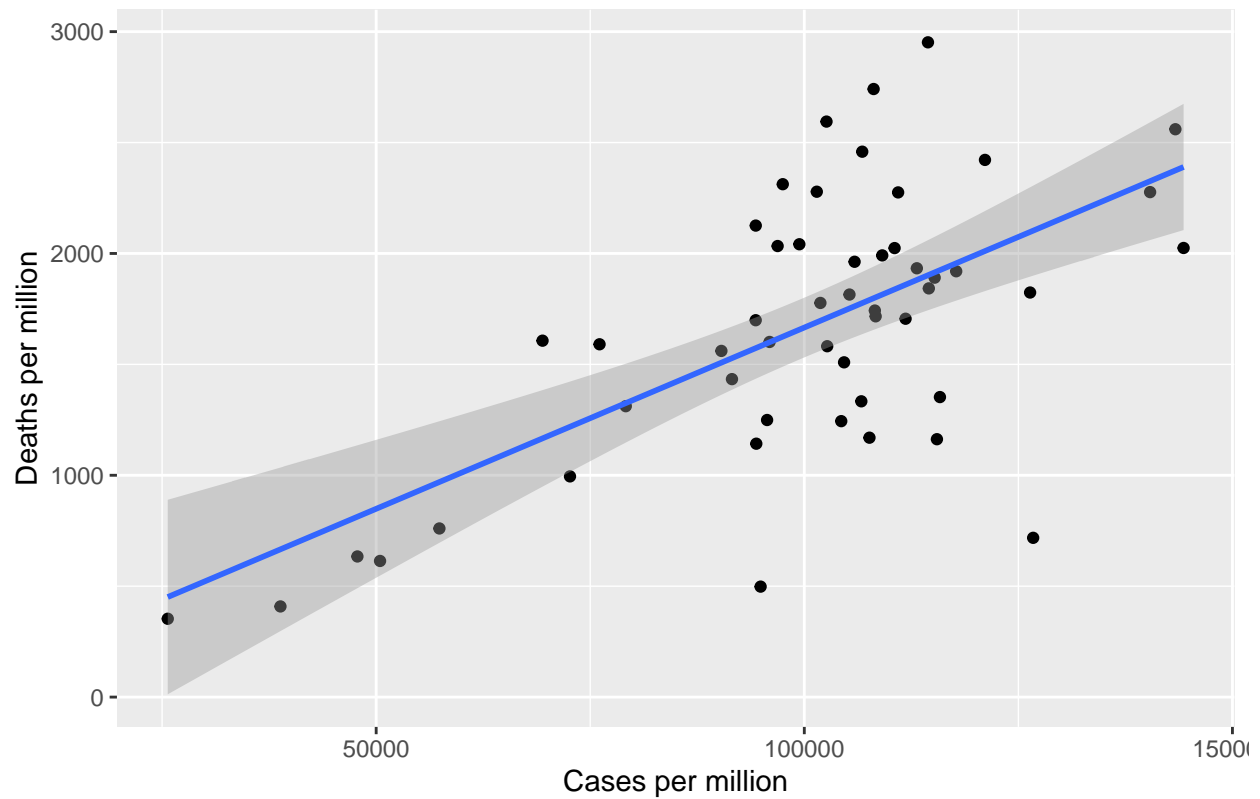
Modeling and Plotting

Linear models were created for a number of data sub-groups: the US as a whole and the four regions defined above. Each linear model describes the linear relationship between Cases per million and Deaths per million. All five grouping show similar, positive associations and approximate linear trends within their scatterplots and confirmed through subsequent modeling.

```
ggplot(data=Totals_by_state, aes(x=Cases_per_mil, y=Deaths_per_mil))+
  geom_point()+
  geom_smooth(method='lm')+
  labs(title='Deaths per Million vs Cases per Million for the US',
       x='Cases per million',
       y='Deaths per million')
```

```
## 'geom_smooth()' using formula 'y ~ x'
```

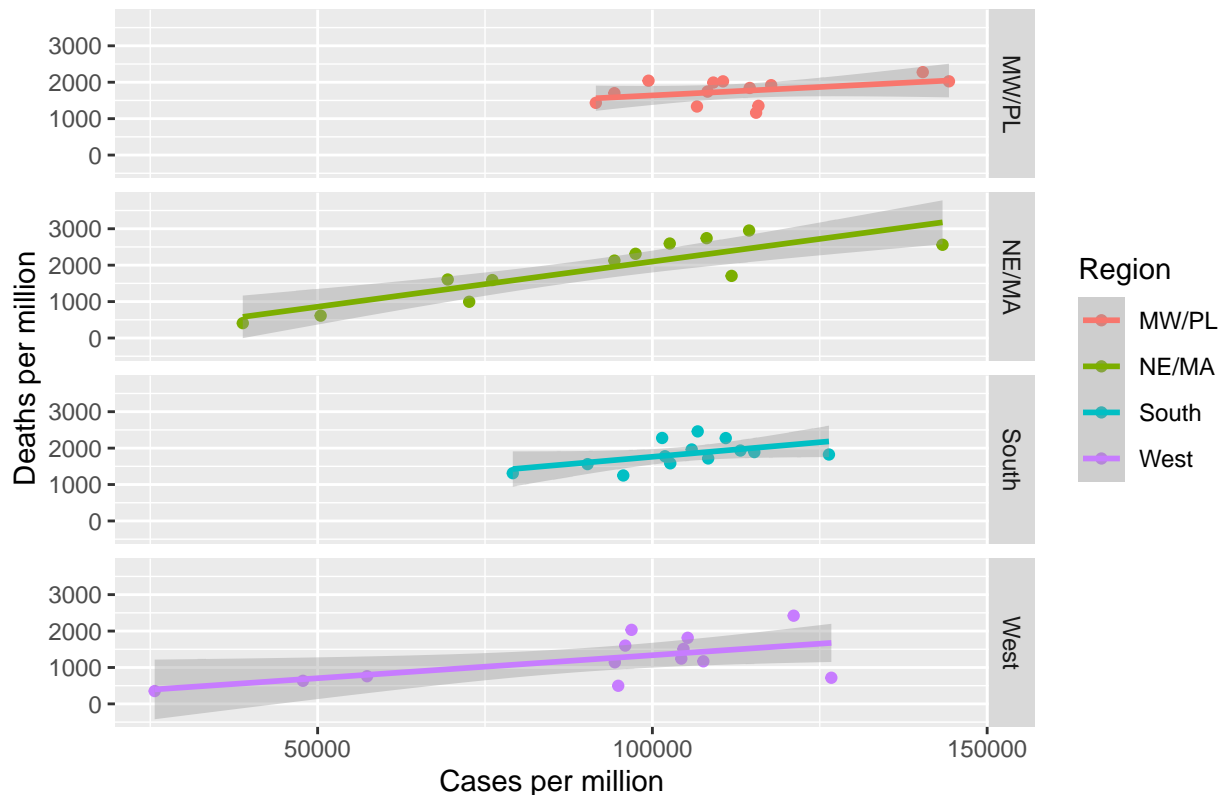
Deaths per Million vs Cases per Million for the US



```
ggplot(data=Totals_by_state, aes(x=Cases_per_mil, y=Deaths_per_mil,color=Region))+  
  geom_point()+  
  facet_grid(row=vars(Region))+  
  geom_smooth(method='lm')+  
  labs(title='Deaths per Million vs Cases per Million by Region',  
        x='Cases per million',  
        y='Deaths per million')
```

```
## 'geom_smooth()' using formula 'y ~ x'
```

Deaths per Million vs Cases per Million by Region



Examining the scatter plots above reveal some interesting results. First, it is clear that a positive trend exists between cases per million and deaths per million. This is expected and makes sense. When dealing with a lethal virus, it can be expected that as cases rise so will deaths. When broken down by region, more patterns emerge. The Midwest and Plains region had the most concentrated high number of cases per million while the Western region has much more spread, indicating that it is the most diverse region in terms of cases per million. The Northeast/Mid-Atlantic region saw the most variation for both cases and deaths per million.

Maybe most interestingly, within each region there were no outlier states. Each grouping, roughly, followed the linear models for the region. This gives an indication that 1) the states were grouped in to regions somewhat appropriately, and 2) each region followed their trend with little exception.

```
US_model <- lm(Totals_by_state$Deaths_per_mil~Totals_by_state$Cases_per_mil)
MW_data <- Totals_by_state %>% filter(Region == 'MW/PL')
MW_model <-lm(MW_data$Deaths_per_mil~MW_data$Cases_per_mil)
South_data <- Totals_by_state %>% filter(Region == 'South')
South_model <-lm(South_data$Deaths_per_mil~South_data$Cases_per_mil)
West_data <- Totals_by_state %>% filter(Region == 'West')
West_model <-lm(West_data$Deaths_per_mil~West_data$Cases_per_mil)
NE_data <- Totals_by_state %>% filter(Region == 'NE/MA')
NE_model <-lm(NE_data$Deaths_per_mil~NE_data$Cases_per_mil)

labels <- c('US', 'Midwest/Plains','Northeast/MidAtlantic', 'South', 'West')
R2 <- c(round(summary(US_model)$r.squared,4),
        round(summary(MW_model)$r.squared,4),
        round(summary(NE_model)$r.squared,4),
        round(summary(South_model)$r.squared,4),
        round(summary(West_model)$r.squared,4))
```

```

Slopes <- c(round(as.numeric(US_model$coef[2]),4),
            round(as.numeric(MW_model$coef[2]),4),
            round(as.numeric(NE_model$coef[2]),4),
            round(as.numeric(South_model$coef[2]),4),
            round(as.numeric(West_model$coef[2]),4))

summary_info <- data.frame(labels,R2,Slopes)

knitr::kable(summary_info[1:5,1:3], caption='Summary of Regression Models',
              col.names=c('Region','R-Sq','Slope'), align='c')

```

Table 1: Summary of Regression Models

Region	R-Sq	Slope
US	0.4098	0.0163
Midwest/Plains	0.1742	0.0092
Northeast/MidAtlantic	0.7536	0.0248
South	0.2711	0.0160
West	0.3470	0.0126

Comparing the outcomes of the linear models provides some more clarity to the analysis from the plots above. For the US as a whole, the linear model was moderately predictive ($R\text{-Sq} = .4097$) and showed a relationship of approximate 1 additional death per million for every 10 cases per million, on average. Looking at the regional models, Northeast and the Mid-Atlantic region had the most predictive model ($R\text{-Sq} = .75$) and the highest rate of predicted deaths per million by cases per million (slope = 0.025). The other three regions had models which varied in their predictive power, but were all worse than the US as a whole. While having similar rates of about 1 death per million for every additional 10 cases per million on average, their predictive differences indicate that other factors are effecting the rate of deaths per million beyond cases per million. Putting it together, while similar slopes for all the models are seen, only the Northeast region model provides some predictive understanding for how deaths per million can be determined from cases per million.

Conclusion, Questions, and Bias

America is a geographically and culturally diverse nation. It therefore should not be surprising that different regions felt the effects of the pandemic at different times and to different degrees. It can be noted that those regions with many large, urban areas - Northeast/Mid-Atlantic, West, and South - were the regions feeling the outbreak times more acutely. The Northeast/Mid-Atlantic region felt the early effects most strongly, possibly due to the number of crowded, urban areas, colder spring weather conditions, and limited knowledge of the virus at that moment in time. As time went on, other regions felt similar but less pronounced effects, possibly due to increased knowledge of the virus, how to deal with cases, and improved weather. The spike in the winter on 2021 effected all regions but was felt strongly in the West.

The regional distinctions were also present in the linear modeling analysis. Only the Northeast region provided a model capable of strong, confident prediction. Again, we can subscribe some of this to cultural similarity and close geographic proximity of that region. The other regions had more geographic spread (account for a variety of weather conditions) and potentially had more cultural and political variety allowing for more variation within these regional data groupings and therefore less predictive models.

Further analysis is definitely needed to get more meaningful results. Increasing the number of regions to six or seven could create regions with more common political and weather situations. Given the effect these

factors have shown on dealing with the virus, accounting for them better could yield different and more more meaningful results.

A major source of bias is the division of the states in to regions. Divisions accounting for weather, politics, and geographic similarity (or other potential contributing factors) better could remove many confounding variables from the analysis. A more objective metric to make distinctions would be necessary to provide more objective, meaningful results. There is also some element of confirmation bias as so much of these ideas have been widely publicized.

Appendix and Session Information

```
summary(Cases)
```

```
##      UID                iso2                iso3                code3
##  Min.      :    16  Length:3342      Length:3342      Min.      : 16.0
##  1st Qu.:84018106  Class :character  Class :character  1st Qu.:840.0
##  Median :84029206  Mode  :character  Mode  :character  Median :840.0
##  Mean   :83429923                                     Mean   :834.5
##  3rd Qu.:84046118                                     3rd Qu.:840.0
##  Max.   :84099999                                     Max.   :850.0
##
##      FIPS      Admin2      Province_State      Country_Region
##  Min.      :   60  Length:3342      Length:3342      Length:3342
##  1st Qu.:19076  Class :character  Class :character  Class :character
##  Median :31012  Mode  :character  Mode  :character  Mode  :character
##  Mean   :33043
##  3rd Qu.:47130
##  Max.   :99999
##  NA's   :10
##      Lat      Long_      Combined_Key      X1.22.20
##  Min.      :-14.27  Min.      :-174.16  Length:3342      Min.      :0.0000000
##  1st Qu.: 33.90  1st Qu.: -97.80  Class :character  1st Qu.:0.0000000
##  Median : 38.01  Median : -89.49  Mode  :character  Median :0.0000000
##  Mean   : 36.72  Mean   : -88.64                                     Mean   :0.0002992
##  3rd Qu.: 41.58  3rd Qu.: -82.31                                     3rd Qu.:0.0000000
##  Max.   : 69.31  Max.   : 145.67                                     Max.   :1.0000000
##
##      X1.23.20      X1.24.20      X1.25.20      X1.26.20
##  Min.      :0.0000000  Min.      :0.0000000  Min.      :0.0000000  Min.      :0.0000000
##  1st Qu.:0.0000000  1st Qu.:0.0000000  1st Qu.:0.0000000  1st Qu.:0.0000000
##  Median :0.0000000  Median :0.0000000  Median :0.0000000  Median :0.0000000
##  Mean   :0.0002992  Mean   :0.0005984  Mean   :0.0005984  Mean   :0.001496
##  3rd Qu.:0.0000000  3rd Qu.:0.0000000  3rd Qu.:0.0000000  3rd Qu.:0.0000000
##  Max.   :1.0000000  Max.   :1.0000000  Max.   :1.0000000  Max.   :1.0000000
##
##      X1.27.20      X1.28.20      X1.29.20      X1.30.20
##  Min.      :0.0000000  Min.      :0.0000000  Min.      :0.0000000  Min.      :0.0000000
##  1st Qu.:0.0000000  1st Qu.:0.0000000  1st Qu.:0.0000000  1st Qu.:0.0000000
##  Median :0.0000000  Median :0.0000000  Median :0.0000000  Median :0.0000000
##  Mean   :0.001496  Mean   :0.001496  Mean   :0.001795  Mean   :0.001795
##  3rd Qu.:0.0000000  3rd Qu.:0.0000000  3rd Qu.:0.0000000  3rd Qu.:0.0000000
```

[illegible]

##	Mean	:0.004788	Mean	:0.004788	Mean	:0.004788	Mean	:0.005087
##	3rd Qu.:	0.000000	3rd Qu.:	0.000000	3rd Qu.:	0.000000	3rd Qu.:	0.000000
##	Max.	:2.000000	Max.	:2.000000	Max.	:2.000000	Max.	:2.000000
##								
##	X2.28.20		X2.29.20		X3.1.20		X3.2.20	
##	Min.	:0.000000	Min.	:0.000000	Min.	:0.000000	Min.	:0.000000
##	1st Qu.:	0.000000	1st Qu.:	0.000000	1st Qu.:	0.000000	1st Qu.:	0.000000
##	Median	:0.000000	Median	:0.000000	Median	:0.000000	Median	:0.000000
##	Mean	:0.005087	Mean	:0.007481	Mean	:0.009575	Mean	:0.01646
##	3rd Qu.:	0.000000	3rd Qu.:	0.000000	3rd Qu.:	0.000000	3rd Qu.:	0.000000
##	Max.	:2.000000	Max.	:6.000000	Max.	:9.000000	Max.	:14.00000
##								
##	X3.3.20		X3.4.20		X3.5.20		X3.6.20	
##	Min.	:0.000000	Min.	:0.000000	Min.	:0.000000	Min.	:0.000000
##	1st Qu.:	0.000000	1st Qu.:	0.000000	1st Qu.:	0.000000	1st Qu.:	0.000000
##	Median	:0.000000	Median	:0.000000	Median	:0.000000	Median	:0.000000
##	Mean	:0.02244	Mean	:0.03232	Mean	:0.05536	Mean	:0.07121
##	3rd Qu.:	0.000000	3rd Qu.:	0.000000	3rd Qu.:	0.000000	3rd Qu.:	0.000000
##	Max.	:21.00000	Max.	:31.00000	Max.	:51.00000	Max.	:58.00000
##								
##	X3.7.20		X3.8.20		X3.9.20		X3.10.20	
##	Min.	:0.0000	Min.	:0.0000	Min.	:0.0000	Min.	:0.0000
##	1st Qu.:	0.0000	1st Qu.:	0.0000	1st Qu.:	0.0000	1st Qu.:	0.0000
##	Median	:0.0000	Median	:0.0000	Median	:0.0000	Median	:0.0000
##	Mean	:0.1209	Mean	:0.1556	Mean	:0.178	Mean	:0.2343
##	3rd Qu.:	0.0000	3rd Qu.:	0.0000	3rd Qu.:	0.0000	3rd Qu.:	0.0000
##	Max.	:71.0000	Max.	:83.0000	Max.	:98.0000	Max.	:116.0000
##								
##	X3.11.20		X3.12.20		X3.13.20		X3.14.20	
##	Min.	:0.0000	Min.	:0.0000	Min.	:0.0000	Min.	:0.0000
##	1st Qu.:	0.0000	1st Qu.:	0.0000	1st Qu.:	0.0000	1st Qu.:	0.0000
##	Median	:0.0000	Median	:0.0000	Median	:0.0000	Median	:0.0000
##	Mean	:0.3444	Mean	:0.4761	Mean	:0.6655	Mean	:0.8944
##	3rd Qu.:	0.0000	3rd Qu.:	0.0000	3rd Qu.:	0.0000	3rd Qu.:	0.0000
##	Max.	:190.0000	Max.	:270.0000	Max.	:328.0000	Max.	:387.0000
##								
##	X3.15.20		X3.16.20		X3.17.20		X3.18.20	
##	Min.	:0.0000	Min.	:0.0000	Min.	:0.0000	Min.	:0.0000
##	1st Qu.:	0.0000	1st Qu.:	0.0000	1st Qu.:	0.0000	1st Qu.:	0.0000
##	Median	:0.0000	Median	:0.0000	Median	:0.0000	Median	:0.0000
##	Mean	:0.9674	Mean	:1.404	Mean	:1.955	Mean	:2.751
##	3rd Qu.:	0.0000	3rd Qu.:	0.0000	3rd Qu.:	0.0000	3rd Qu.:	0.0000
##	Max.	:387.0000	Max.	:488.0000	Max.	:569.0000	Max.	:562.0000
##								
##	X3.19.20		X3.20.20		X3.21.20		X3.22.20	
##	Min.	:0.0000	Min.	:0.0000	Min.	:0.0000	Min.	:0.0000
##	1st Qu.:	0.0000	1st Qu.:	0.0000	1st Qu.:	0.0000	1st Qu.:	0.0000
##	Median	:0.0000	Median	:0.0000	Median	:0.0000	Median	:0.0000
##	Mean	:4.096	Mean	:6.003	Mean	:7.801	Mean	:10.44
##	3rd Qu.:	0.0000	3rd Qu.:	1.0000	3rd Qu.:	1.0000	3rd Qu.:	1.0000
##	Max.	:798.0000	Max.	:1334.0000	Max.	:1872.0000	Max.	:2765.00
##								
##	X3.23.20		X3.24.20		X3.25.20		X3.26.20	
##	Min.	:0.0	Min.	:0.00	Min.	:0.0	Min.	:0.00

```

## 1st Qu.: 0.0 1st Qu.: 0.00 1st Qu.: 0.0 1st Qu.: 0.00
## Median : 0.0 Median : 0.00 Median : 0.0 Median : 0.00
## Mean : 13.8 Mean : 16.98 Mean : 20.6 Mean : 25.94
## 3rd Qu.: 2.0 3rd Qu.: 2.00 3rd Qu.: 3.0 3rd Qu.: 3.75
## Max. :3626.0 Max. :4465.00 Max. :5475.0 Max. :6713.00
##
## X3.27.20 X3.28.20 X3.29.20 X3.30.20
## Min. : 0.00 Min. : 0.00 Min. : 0.00 Min. : 0.00
## 1st Qu.: 0.00 1st Qu.: 0.00 1st Qu.: 0.00 1st Qu.: 0.00
## Median : 1.00 Median : 1.00 Median : 1.00 Median : 1.00
## Mean : 31.53 Mean : 37.41 Mean : 43.06 Mean : 49.67
## 3rd Qu.: 4.00 3rd Qu.: 6.00 3rd Qu.: 7.00 3rd Qu.: 8.00
## Max. :8037.00 Max. :9275.00 Max. :10411.00 Max. :11669.00
##
## X3.31.20 X4.1.20 X4.2.20 X4.3.20
## Min. : 0.00 Min. : 0.0 Min. : 0.00 Min. : 0.00
## 1st Qu.: 0.00 1st Qu.: 0.0 1st Qu.: 0.00 1st Qu.: 0.00
## Median : 2.00 Median : 2.0 Median : 2.00 Median : 3.00
## Mean : 57.54 Mean : 67.2 Mean : 76.84 Mean : 86.51
## 3rd Qu.: 9.00 3rd Qu.: 11.0 3rd Qu.: 12.00 3rd Qu.: 14.00
## Max. :13691.00 Max. :16396.0 Max. :18279.00 Max. :20119.00
##
## X4.4.20 X4.5.20 X4.6.20 X4.7.20
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 0.0 1st Qu.: 0.0 1st Qu.: 0.0 1st Qu.: 1.0
## Median : 3.0 Median : 4.0 Median : 4.0 Median : 4.0
## Mean : 96.2 Mean : 105.1 Mean : 114.5 Mean : 123.7
## 3rd Qu.: 16.0 3rd Qu.: 18.0 3rd Qu.: 20.0 3rd Qu.: 22.0
## Max. :21936.0 Max. :23813.0 Max. :25620.0 Max. :26874.0
##
## X4.8.20 X4.9.20 X4.10.20 X4.11.20
## Min. : 0.0 Min. : 0.0 Min. : 0.00 Min. : 0.00
## 1st Qu.: 1.0 1st Qu.: 1.0 1st Qu.: 1.00 1st Qu.: 1.00
## Median : 5.0 Median : 5.0 Median : 6.00 Median : 6.00
## Mean : 133.1 Mean : 143.8 Mean : 154.14 Mean : 162.85
## 3rd Qu.: 24.0 3rd Qu.: 26.0 3rd Qu.: 28.75 3rd Qu.: 30.75
## Max. :28062.0 Max. :30044.0 Max. :32050.00 Max. :33959.00
##
## X4.12.20 X4.13.20 X4.14.20 X4.15.20
## Min. : 0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 1 1st Qu.: 1.0 1st Qu.: 1.0 1st Qu.: 1.0
## Median : 7 Median : 7.0 Median : 8.0 Median : 8.0
## Mean : 171 Mean : 179.1 Mean : 187.7 Mean : 195.3
## 3rd Qu.: 32 3rd Qu.: 35.0 3rd Qu.: 37.0 3rd Qu.: 39.0
## Max. :35571 Max. :36961.0 Max. :38006.0 Max. :38965.0
##
## X4.16.20 X4.17.20 X4.18.20 X4.19.20
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0.00
## 1st Qu.: 1.0 1st Qu.: 1.0 1st Qu.: 1.0 1st Qu.: 2.00
## Median : 8.0 Median : 9.0 Median : 9.0 Median : 10.00
## Mean : 204.3 Mean : 214.2 Mean : 222.5 Mean : 230.31
## 3rd Qu.: 41.0 3rd Qu.: 44.0 3rd Qu.: 46.0 3rd Qu.: 47.75
## Max. :39985.0 Max. :41322.0 Max. :42523.0 Max. :43705.00
##

```

##	X4.20.20	X4.21.20	X4.22.20	X4.23.20
##	Min. : 0.0	Min. : 0	Min. : 0.0	Min. : 0.0
##	1st Qu.: 2.0	1st Qu.: 2	1st Qu.: 2.0	1st Qu.: 2.0
##	Median : 10.0	Median : 11	Median : 11.0	Median : 12.0
##	Mean : 239.2	Mean : 247	Mean : 255.6	Mean : 265.7
##	3rd Qu.: 49.0	3rd Qu.: 52	3rd Qu.: 54.0	3rd Qu.: 58.0
##	Max. : 44828.0	Max. : 45569	Max. : 46455.0	Max. : 47703.0
##				
##	X4.24.20	X4.25.20	X4.26.20	X4.27.20
##	Min. : 0.0	Min. : 0.0	Min. : 0.00	Min. : 0.0
##	1st Qu.: 2.0	1st Qu.: 2.0	1st Qu.: 2.25	1st Qu.: 3.0
##	Median : 12.0	Median : 13.0	Median : 13.00	Median : 14.0
##	Mean : 275.4	Mean : 284.5	Mean : 292.39	Mean : 299.5
##	3rd Qu.: 60.0	3rd Qu.: 63.0	3rd Qu.: 65.00	3rd Qu.: 68.0
##	Max. : 48668.0	Max. : 49800.0	Max. : 50618.00	Max. : 51408.0
##				
##	X4.28.20	X4.29.20	X4.30.20	X5.1.20
##	Min. : 0.0	Min. : 0.0	Min. : 0.0	Min. : 0.0
##	1st Qu.: 3.0	1st Qu.: 3.0	1st Qu.: 3.0	1st Qu.: 3.0
##	Median : 14.0	Median : 15.0	Median : 16.0	Median : 16.0
##	Mean : 306.8	Mean : 314.8	Mean : 323.5	Mean : 333.9
##	3rd Qu.: 70.0	3rd Qu.: 73.0	3rd Qu.: 75.0	3rd Qu.: 79.0
##	Max. : 51965.0	Max. : 52302.0	Max. : 53032.0	Max. : 53936.0
##				
##	X5.2.20	X5.3.20	X5.4.20	X5.5.20
##	Min. : 0.0	Min. : 0.0	Min. : 0.0	Min. : 0.0
##	1st Qu.: 3.0	1st Qu.: 3.0	1st Qu.: 3.0	1st Qu.: 3.0
##	Median : 16.0	Median : 17.0	Median : 18.0	Median : 18.0
##	Mean : 342.1	Mean : 349.4	Mean : 356.6	Mean : 363.9
##	3rd Qu.: 82.0	3rd Qu.: 85.0	3rd Qu.: 87.0	3rd Qu.: 90.0
##	Max. : 54637.0	Max. : 55236.0	Max. : 55862.0	Max. : 56202.0
##				
##	X5.6.20	X5.7.20	X5.8.20	X5.9.20
##	Min. : 0.0	Min. : 0.00	Min. : 0.0	Min. : 0.0
##	1st Qu.: 4.0	1st Qu.: 4.00	1st Qu.: 4.0	1st Qu.: 4.0
##	Median : 19.0	Median : 20.00	Median : 20.0	Median : 21.0
##	Mean : 371.3	Mean : 379.50	Mean : 387.5	Mean : 395.1
##	3rd Qu.: 92.0	3rd Qu.: 95.75	3rd Qu.: 98.0	3rd Qu.: 100.8
##	Max. : 56457.0	Max. : 56898.00	Max. : 57365.0	Max. : 57811.0
##				
##	X5.10.20	X5.11.20	X5.12.20	X5.13.20
##	Min. : 0.0	Min. : 0.0	Min. : 0.0	Min. : 0.0
##	1st Qu.: 4.0	1st Qu.: 4.0	1st Qu.: 4.0	1st Qu.: 4.0
##	Median : 21.0	Median : 22.0	Median : 22.0	Median : 23.0
##	Mean : 400.7	Mean : 406.5	Mean : 413.3	Mean : 419.4
##	3rd Qu.: 102.0	3rd Qu.: 104.0	3rd Qu.: 107.0	3rd Qu.: 110.0
##	Max. : 58171.0	Max. : 58523.0	Max. : 58779.0	Max. : 58865.0
##				
##	X5.14.20	X5.15.20	X5.16.20	X5.17.20
##	Min. : 0.0	Min. : 0.0	Min. : 0.0	Min. : 0.0
##	1st Qu.: 5.0	1st Qu.: 5.0	1st Qu.: 5.0	1st Qu.: 5.0
##	Median : 24.0	Median : 24.0	Median : 25.0	Median : 25.0
##	Mean : 427.5	Mean : 434.9	Mean : 442.1	Mean : 447.6
##	3rd Qu.: 113.0	3rd Qu.: 116.0	3rd Qu.: 119.8	3rd Qu.: 121.8

##	Max.	:59241.0	Max.	:59905.0	Max.	:61212.0	Max.	:62218.0
##								
##	X5.18.20		X5.19.20		X5.20.20		X5.21.20	
##	Min.	: 0.0	Min.	: 0.0	Min.	: 0.0	Min.	: 0.0
##	1st Qu.:	5.0	1st Qu.:	5.0	1st Qu.:	5.0	1st Qu.:	6.0
##	Median :	26.0	Median :	26.0	Median :	27.0	Median :	28.0
##	Mean :	454.3	Mean :	460.6	Mean :	467.4	Mean :	475.1
##	3rd Qu.:	123.0	3rd Qu.:	126.0	3rd Qu.:	130.8	3rd Qu.:	135.0
##	Max.	:63690.0	Max.	:64691.0	Max.	:66213.0	Max.	:67551.0
##								
##	X5.22.20		X5.23.20		X5.24.20		X5.25.20	
##	Min.	: 0.0	Min.	: 0.0	Min.	: 0.0	Min.	: 0.0
##	1st Qu.:	6.0	1st Qu.:	6.0	1st Qu.:	6.0	1st Qu.:	6.0
##	Median :	29.0	Median :	29.0	Median :	30.0	Median :	30.0
##	Mean :	482.1	Mean :	488.5	Mean :	494.5	Mean :	500.1
##	3rd Qu.:	138.0	3rd Qu.:	141.0	3rd Qu.:	146.8	3rd Qu.:	148.8
##	Max.	:68949.0	Max.	:70417.0	Max.	:72010.0	Max.	:73097.0
##								
##	X5.26.20		X5.27.20		X5.28.20		X5.29.20	
##	Min.	: 0.0	Min.	: 0.0	Min.	: 0.0	Min.	: 0.0
##	1st Qu.:	6.0	1st Qu.:	6.0	1st Qu.:	6.0	1st Qu.:	7.0
##	Median :	31.0	Median :	32.0	Median :	33.0	Median :	34.0
##	Mean :	505.9	Mean :	511.5	Mean :	518.2	Mean :	525.5
##	3rd Qu.:	152.0	3rd Qu.:	156.0	3rd Qu.:	159.0	3rd Qu.:	162.8
##	Max.	:73819.0	Max.	:74521.0	Max.	:75306.0	Max.	:76266.0
##								
##	X5.30.20		X5.31.20		X6.1.20		X6.2.20	
##	Min.	: 0.0	Min.	: 0.0	Min.	: 0.0	Min.	: 0.0
##	1st Qu.:	7.0	1st Qu.:	7.0	1st Qu.:	7.0	1st Qu.:	7.0
##	Median :	35.0	Median :	35.0	Median :	36.0	Median :	37.0
##	Mean :	532.6	Mean :	538.2	Mean :	543.5	Mean :	549.9
##	3rd Qu.:	167.0	3rd Qu.:	169.0	3rd Qu.:	173.0	3rd Qu.:	174.8
##	Max.	:77119.0	Max.	:77925.0	Max.	:78495.0	Max.	:79673.0
##								
##	X6.3.20		X6.4.20		X6.5.20		X6.6.20	
##	Min.	: 0.0	Min.	: 0.0	Min.	: 0.0	Min.	: 0.0
##	1st Qu.:	7.0	1st Qu.:	7.0	1st Qu.:	8.0	1st Qu.:	8.0
##	Median :	37.0	Median :	38.0	Median :	39.0	Median :	39.0
##	Mean :	555.8	Mean :	562.3	Mean :	569.9	Mean :	576.2
##	3rd Qu.:	177.0	3rd Qu.:	180.8	3rd Qu.:	186.0	3rd Qu.:	191.0
##	Max.	:80204.0	Max.	:80713.0	Max.	:81344.0	Max.	:81924.0
##								
##	X6.7.20		X6.8.20		X6.9.20		X6.10.20	
##	Min.	: 0.0	Min.	: 0.0	Min.	: 0.0	Min.	: 0.0
##	1st Qu.:	8.0	1st Qu.:	8.0	1st Qu.:	8.0	1st Qu.:	8.0
##	Median :	41.0	Median :	41.0	Median :	42.0	Median :	43.0
##	Mean :	581.6	Mean :	586.9	Mean :	592.4	Mean :	598.7
##	3rd Qu.:	195.0	3rd Qu.:	196.8	3rd Qu.:	199.5	3rd Qu.:	204.0
##	Max.	:82427.0	Max.	:82819.0	Max.	:83271.0	Max.	:83585.0
##								
##	X6.11.20		X6.12.20		X6.13.20		X6.14.20	
##	Min.	: 0.0	Min.	: 0.0	Min.	: 0.0	Min.	: 0.0
##	1st Qu.:	9.0	1st Qu.:	9.0	1st Qu.:	9.0	1st Qu.:	9.0
##	Median :	45.0	Median :	45.0	Median :	46.0	Median :	47.0

##	Mean	:	605.6	Mean	:	613.0	Mean	:	620.6	Mean	:	626.3
##	3rd Qu.:		208.8	3rd Qu.:		215.8	3rd Qu.:		218.8	3rd Qu.:		222.0
##	Max.	:	83978.0	Max.	:	84249.0	Max.	:	84581.0	Max.	:	84906.0
##												
##	X6.15.20			X6.16.20			X6.17.20			X6.18.20		
##	Min.	:	0.0	Min.	:	0.0	Min.	:	0.0	Min.	:	0.0
##	1st Qu.:		9.0	1st Qu.:		10.0	1st Qu.:		10.0	1st Qu.:		10.0
##	Median	:	48.0	Median	:	49.0	Median	:	50.0	Median	:	51.0
##	Mean	:	632.2	Mean	:	639.3	Mean	:	647.4	Mean	:	655.9
##	3rd Qu.:		224.8	3rd Qu.:		230.0	3rd Qu.:		232.5	3rd Qu.:		236.8
##	Max.	:	85184.0	Max.	:	85538.0	Max.	:	85858.0	Max.	:	86179.0
##												
##	X6.19.20			X6.20.20			X6.21.20			X6.22.20		
##	Min.	:	0.0	Min.	:	0	Min.	:	0.00	Min.	:	0.0
##	1st Qu.:		11.0	1st Qu.:		11	1st Qu.:		11.25	1st Qu.:		12.0
##	Median	:	52.5	Median	:	53	Median	:	54.00	Median	:	55.0
##	Mean	:	665.4	Mean	:	675	Mean	:	682.53	Mean	:	692.1
##	3rd Qu.:		243.0	3rd Qu.:		246	3rd Qu.:		253.25	3rd Qu.:		256.0
##	Max.	:	86551.0	Max.	:	86885	Max.	:	87177.00	Max.	:	87424.0
##												
##	X6.23.20			X6.24.20			X6.25.20			X6.26.20		
##	Min.	:	0.0	Min.	:	0.0	Min.	:	0.00	Min.	:	0.0
##	1st Qu.:		12.0	1st Qu.:		12.0	1st Qu.:		12.25	1st Qu.:		13.0
##	Median	:	56.5	Median	:	58.0	Median	:	60.00	Median	:	62.0
##	Mean	:	703.2	Mean	:	714.0	Mean	:	726.05	Mean	:	739.8
##	3rd Qu.:		262.0	3rd Qu.:		269.8	3rd Qu.:		275.50	3rd Qu.:		281.8
##	Max.	:	88512.0	Max.	:	89633.0	Max.	:	91577.00	Max.	:	93391.0
##												
##	X6.27.20			X6.28.20			X6.29.20			X6.30.20		
##	Min.	:	0.0	Min.	:	0.0	Min.	:	0.0	Min.	:	0.0
##	1st Qu.:		13.0	1st Qu.:		13.0	1st Qu.:		14.0	1st Qu.:		14.0
##	Median	:	63.0	Median	:	65.0	Median	:	66.0	Median	:	68.0
##	Mean	:	752.2	Mean	:	764.4	Mean	:	776.7	Mean	:	790.6
##	3rd Qu.:		287.0	3rd Qu.:		289.0	3rd Qu.:		296.0	3rd Qu.:		304.0
##	Max.	:	95385.0	Max.	:	97918.0	Max.	:	100958.0	Max.	:	103850.0
##												
##	X7.1.20			X7.2.20			X7.3.20			X7.4.20		
##	Min.	:	0.0	Min.	:	0.0	Min.	:	0.0	Min.	:	0.0
##	1st Qu.:		15.0	1st Qu.:		15.0	1st Qu.:		16.0	1st Qu.:		16.0
##	Median	:	70.0	Median	:	72.0	Median	:	74.0	Median	:	76.0
##	Mean	:	806.1	Mean	:	823.1	Mean	:	838.4	Mean	:	852.1
##	3rd Qu.:		309.8	3rd Qu.:		319.8	3rd Qu.:		328.0	3rd Qu.:		336.0
##	Max.	:	105665.0	Max.	:	107792.0	Max.	:	107806.0	Max.	:	107826.0
##												
##	X7.5.20			X7.6.20			X7.7.20			X7.8.20		
##	Min.	:	0.0	Min.	:	0.0	Min.	:	0.0	Min.	:	0.0
##	1st Qu.:		17.0	1st Qu.:		18.0	1st Qu.:		18.0	1st Qu.:		18.0
##	Median	:	77.5	Median	:	79.0	Median	:	81.0	Median	:	84.0
##	Mean	:	867.3	Mean	:	880.2	Mean	:	898.3	Mean	:	916.3
##	3rd Qu.:		342.5	3rd Qu.:		350.5	3rd Qu.:		360.0	3rd Qu.:		369.5
##	Max.	:	115024.0	Max.	:	116570.0	Max.	:	120764.0	Max.	:	123256.0
##												
##	X7.9.20			X7.10.20			X7.11.20			X7.12.20		
##	Min.	:	0	Min.	:	0.0	Min.	:	0.0	Min.	:	0.0

```

## 1st Qu.: 20 1st Qu.: 20.0 1st Qu.: 21.0 1st Qu.: 21.0
## Median : 86 Median : 89.0 Median : 92.0 Median : 95.0
## Mean : 935 Mean : 955.4 Mean : 973.4 Mean : 990.8
## 3rd Qu.: 379 3rd Qu.: 394.0 3rd Qu.: 403.0 3rd Qu.: 413.5
## Max. :124992 Max. :127439.0 Max. :130394.0 Max. :133549.0
##
## X7.13.20 X7.14.20 X7.15.20 X7.16.20
## Min. : 0.0 Min. : 0.0 Min. : 0 Min. : 0.0
## 1st Qu.: 22.0 1st Qu.: 23.0 1st Qu.: 24 1st Qu.: 25.0
## Median : 97.0 Median : 99.5 Median : 103 Median : 107.0
## Mean : 1008.5 Mean : 1028.8 Mean : 1049 Mean : 1071.9
## 3rd Qu.: 422.8 3rd Qu.: 432.8 3rd Qu.: 444 3rd Qu.: 455.8
## Max. :136357.0 Max. :140576.0 Max. :143207 Max. :147678.0
##
## X7.17.20 X7.18.20 X7.19.20 X7.20.20
## Min. : 0 Min. : 0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 26 1st Qu.: 27 1st Qu.: 28.0 1st Qu.: 29.0
## Median : 111 Median : 115 Median : 117.0 Median : 119.0
## Mean : 1094 Mean : 1112 Mean : 1130.3 Mean : 1148.9
## 3rd Qu.: 468 3rd Qu.: 478 3rd Qu.: 487.5 3rd Qu.: 498.8
## Max. :150424 Max. :153152 Max. :155917.0 Max. :159045.0
##
## X7.21.20 X7.22.20 X7.23.20 X7.24.20
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 30.0 1st Qu.: 31.0 1st Qu.: 32.0 1st Qu.: 34.0
## Median : 122.0 Median : 126.0 Median : 130.0 Median : 134.0
## Mean : 1168.2 Mean : 1189.3 Mean : 1209.8 Mean : 1231.7
## 3rd Qu.: 510.2 3rd Qu.: 518.8 3rd Qu.: 531.8 3rd Qu.: 545.8
## Max. :162025.0 Max. :165134.0 Max. :166868.0 Max. :168935.0
##
## X7.25.20 X7.26.20 X7.27.20 X7.28.20
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 35.0 1st Qu.: 36.0 1st Qu.: 37.0 1st Qu.: 37.0
## Median : 139.0 Median : 143.5 Median : 146.0 Median : 152.0
## Mean : 1251.2 Mean : 1267.6 Mean : 1284.6 Mean : 1304.4
## 3rd Qu.: 555.8 3rd Qu.: 565.8 3rd Qu.: 572.8 3rd Qu.: 582.8
## Max. :172325.0 Max. :174017.0 Max. :176028.0 Max. :178642.0
##
## X7.29.20 X7.30.20 X7.31.20 X8.1.20
## Min. : 0.0 Min. : 0.0 Min. : 0.00 Min. : 0.0
## 1st Qu.: 38.0 1st Qu.: 40.0 1st Qu.: 40.25 1st Qu.: 41.0
## Median : 156.0 Median : 160.0 Median : 163.50 Median : 166.0
## Mean : 1325.9 Mean : 1346.1 Mean : 1366.69 Mean : 1383.5
## 3rd Qu.: 592.8 3rd Qu.: 606.8 3rd Qu.: 615.75 3rd Qu.: 627.5
## Max. :183456.0 Max. :186036.0 Max. :188541.00 Max. :190857.0
##
## X8.2.20 X8.3.20 X8.4.20 X8.5.20
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 42.0 1st Qu.: 43.0 1st Qu.: 43.0 1st Qu.: 45.0
## Median : 169.0 Median : 172.0 Median : 177.0 Median : 179.5
## Mean : 1397.1 Mean : 1410.8 Mean : 1428.3 Mean : 1444.6
## 3rd Qu.: 638.8 3rd Qu.: 648.8 3rd Qu.: 660.8 3rd Qu.: 673.8
## Max. :192177.0 Max. :193877.0 Max. :195805.0 Max. :198165.0
##

```


##	X8.6.20	X8.7.20	X8.8.20	X8.9.20
##	Min. : 0.0	Min. : 0.0	Min. : 0.0	Min. : 0.0
##	1st Qu.: 46.0	1st Qu.: 47.0	1st Qu.: 49.0	1st Qu.: 49.0
##	Median : 183.5	Median : 188.0	Median : 192.0	Median : 196.0
##	Mean : 1462.4	Mean : 1480.1	Mean : 1496.3	Mean : 1510.0
##	3rd Qu.: 684.8	3rd Qu.: 695.8	3rd Qu.: 704.8	3rd Qu.: 716.8
##	Max. :201200.0	Max. :204258.0	Max. :206778.0	Max. :208563.0
##				
##	X8.10.20	X8.11.20	X8.12.20	X8.13.20
##	Min. : 0.0	Min. : 0.00	Min. : 0	Min. : 0
##	1st Qu.: 50.0	1st Qu.: 51.25	1st Qu.: 53	1st Qu.: 54
##	Median : 199.5	Median : 202.50	Median : 205	Median : 209
##	Mean : 1524.3	Mean : 1538.64	Mean : 1555	Mean : 1571
##	3rd Qu.: 723.5	3rd Qu.: 731.00	3rd Qu.: 740	3rd Qu.: 753
##	Max. :210543.0	Max. :210874.00	Max. :214283	Max. :214425
##				
##	X8.14.20	X8.15.20	X8.16.20	X8.17.20
##	Min. : 0.0	Min. : 0	Min. : 0	Min. : 0.0
##	1st Qu.: 55.0	1st Qu.: 57	1st Qu.: 57	1st Qu.: 58.0
##	Median : 213.0	Median : 216	Median : 219	Median : 221.0
##	Mean : 1590.3	Mean : 1604	Mean : 1616	Mean : 1627.1
##	3rd Qu.: 768.8	3rd Qu.: 773	3rd Qu.: 783	3rd Qu.: 790.5
##	Max. :218831.0	Max. :220867	Max. :221971	Max. :223230.0
##				
##	X8.18.20	X8.19.20	X8.20.20	X8.21.20
##	Min. : 0.0	Min. : 0.0	Min. : 0.0	Min. : 0
##	1st Qu.: 59.0	1st Qu.: 60.0	1st Qu.: 61.0	1st Qu.: 62
##	Median : 224.5	Median : 228.0	Median : 232.0	Median : 235
##	Mean : 1640.5	Mean : 1654.7	Mean : 1667.9	Mean : 1682
##	3rd Qu.: 796.0	3rd Qu.: 806.8	3rd Qu.: 815.8	3rd Qu.: 830
##	Max. :224105.0	Max. :225827.0	Max. :227346.0	Max. :229054
##				
##	X8.22.20	X8.23.20	X8.24.20	X8.25.20
##	Min. : 0.0	Min. : 0.00	Min. : 0.0	Min. : 0
##	1st Qu.: 63.0	1st Qu.: 63.25	1st Qu.: 64.0	1st Qu.: 66
##	Median : 240.5	Median : 241.50	Median : 245.0	Median : 247
##	Mean : 1695.4	Mean : 1705.62	Mean : 1716.5	Mean : 1729
##	3rd Qu.: 839.0	3rd Qu.: 851.00	3rd Qu.: 858.8	3rd Qu.: 866
##	Max. :230662.0	Max. :231695.00	Max. :232893.0	Max. :233777
##				
##	X8.26.20	X8.27.20	X8.28.20	X8.29.20
##	Min. : 0	Min. : 0.0	Min. : 0.0	Min. : 0.0
##	1st Qu.: 67	1st Qu.: 69.0	1st Qu.: 70.0	1st Qu.: 71.0
##	Median : 250	Median : 255.0	Median : 261.0	Median : 264.0
##	Mean : 1742	Mean : 1755.7	Mean : 1769.7	Mean : 1782.5
##	3rd Qu.: 877	3rd Qu.: 889.5	3rd Qu.: 897.5	3rd Qu.: 908.8
##	Max. :235386	Max. :236986.0	Max. :238458.0	Max. :239756.0
##				
##	X8.30.20	X8.31.20	X9.1.20	X9.2.20
##	Min. : 0.0	Min. : 0	Min. : 0.0	Min. : 0.0
##	1st Qu.: 72.0	1st Qu.: 73	1st Qu.: 73.0	1st Qu.: 74.0
##	Median : 267.5	Median : 270	Median : 273.5	Median : 279.0
##	Mean : 1792.8	Mean : 1803	Mean : 1815.9	Mean : 1828.2
##	3rd Qu.: 914.5	3rd Qu.: 926	3rd Qu.: 931.0	3rd Qu.: 944.8

```

## Max. :240749.0 Max. :241768 Max. :242521.0 Max. :243935.0
##
## X9.3.20 X9.4.20 X9.5.20 X9.6.20
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 76.0 1st Qu.: 77.0 1st Qu.: 79.0 1st Qu.: 79.0
## Median : 284.5 Median : 290.0 Median : 293.0 Median : 295.0
## Mean : 1841.4 Mean : 1856.5 Mean : 1869.4 Mean : 1878.8
## 3rd Qu.: 959.5 3rd Qu.: 972.2 3rd Qu.: 983.8 3rd Qu.: 996.2
## Max. :244999.0 Max. :246407.0 Max. :247542.0 Max. :248334.0
##
## X9.7.20 X9.8.20 X9.9.20 X9.10.20
## Min. : 0.0 Min. : 0 Min. : 0 Min. : 0.00
## 1st Qu.: 80.0 1st Qu.: 81 1st Qu.: 81 1st Qu.: 82.25
## Median : 297.0 Median : 298 Median : 301 Median : 304.50
## Mean : 1885.8 Mean : 1894 Mean : 1904 Mean : 1914.95
## 3rd Qu.: 998.8 3rd Qu.: 1007 3rd Qu.: 1013 3rd Qu.: 1021.75
## Max. :248821.0 Max. :249241 Max. :249859 Max. :251024.00
##
## X9.11.20 X9.12.20 X9.13.20 X9.14.20
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0
## 1st Qu.: 84.0 1st Qu.: 85.0 1st Qu.: 86.0 1st Qu.: 87
## Median : 307.5 Median : 312.5 Median : 313.5 Median : 317
## Mean : 1929.2 Mean : 1941.5 Mean : 1951.8 Mean : 1962
## 3rd Qu.: 1032.0 3rd Qu.: 1042.0 3rd Qu.: 1047.8 3rd Qu.: 1057
## Max. :252066.0 Max. :253176.0 Max. :253985.0 Max. :254656
##
## X9.15.20 X9.16.20 X9.17.20 X9.18.20
## Min. : 0 Min. : 0 Min. : 0 Min. : 0.0
## 1st Qu.: 88 1st Qu.: 89 1st Qu.: 91 1st Qu.: 94.0
## Median : 319 Median : 323 Median : 326 Median : 330.5
## Mean : 1974 Mean : 1986 Mean : 1999 Mean : 2013.9
## 3rd Qu.: 1062 3rd Qu.: 1076 3rd Qu.: 1084 3rd Qu.: 1100.8
## Max. :255049 Max. :256148 Max. :257271 Max. :258516.0
##
## X9.19.20 X9.20.20 X9.21.20 X9.22.20
## Min. : 0.0 Min. : 0.00 Min. : 0.00 Min. : 0.0
## 1st Qu.: 96.0 1st Qu.: 97.25 1st Qu.: 99.25 1st Qu.: 102.0
## Median : 334.5 Median : 341.50 Median : 343.50 Median : 347.5
## Mean : 2026.5 Mean : 2038.00 Mean : 2053.53 Mean : 2065.5
## 3rd Qu.: 1110.8 3rd Qu.: 1123.00 3rd Qu.: 1130.25 3rd Qu.: 1135.8
## Max. :259817.0 Max. :260797.00 Max. :261446.00 Max. :262133.0
##
## X9.23.20 X9.24.20 X9.25.20 X9.26.20
## Min. : 0.0 Min. : 0.0 Min. : 0 Min. : 0.0
## 1st Qu.: 103.0 1st Qu.: 105.0 1st Qu.: 107 1st Qu.: 109.2
## Median : 350.5 Median : 358.5 Median : 364 Median : 368.5
## Mean : 2077.2 Mean : 2091.2 Mean : 2106 Mean : 2119.1
## 3rd Qu.: 1153.0 3rd Qu.: 1156.8 3rd Qu.: 1172 3rd Qu.: 1184.0
## Max. :263333.0 Max. :264414.0 Max. :265775 Max. :266988.0
##
## X9.27.20 X9.28.20 X9.29.20 X9.30.20
## Min. : 0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 111 1st Qu.: 113.0 1st Qu.: 114.2 1st Qu.: 116.0
## Median : 373 Median : 376.5 Median : 379.0 Median : 385.5

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## Mean      : 2130      Mean      : 2140.2      Mean      : 2153.2      Mean      : 2165.0
## 3rd Qu.: 1192      3rd Qu.: 1199.8      3rd Qu.: 1209.8      3rd Qu.: 1221.5
## Max.      :267801    Max.      :268455.0    Max.      :269284.0    Max.      :270299.0
##
##      X10.1.20      X10.2.20      X10.3.20      X10.4.20
## Min.      :      0      Min.      :      0.0      Min.      :      0      Min.      :      0.0
## 1st Qu.: 118      1st Qu.: 121.2      1st Qu.: 123      1st Qu.: 125.0
## Median : 393      Median : 397.5      Median : 405      Median : 408.5
## Mean      : 2179      Mean      : 2195.1      Mean      : 2210      Mean      : 2220.3
## 3rd Qu.: 1239      3rd Qu.: 1252.8      3rd Qu.: 1263      3rd Qu.: 1273.2
## Max.      :271371    Max.      :272653.0    Max.      :273638      Max.      :274565.0
##
##      X10.5.20      X10.6.20      X10.7.20      X10.8.20
## Min.      :      0.0      Min.      :      0.0      Min.      :      0      Min.      :      0
## 1st Qu.: 126.2      1st Qu.: 128.0      1st Qu.: 130      1st Qu.: 132
## Median : 414.0      Median : 419.5      Median : 422      Median : 427
## Mean      : 2232.1      Mean      : 2245.7      Mean      : 2261      Mean      : 2278
## 3rd Qu.: 1291.0      3rd Qu.: 1302.8      3rd Qu.: 1321      3rd Qu.: 1340
## Max.      :274942.0    Max.      :275856.0    Max.      :277445      Max.      :278665
##
##      X10.9.20      X10.10.20      X10.11.20      X10.12.20
## Min.      :      0.0      Min.      :      0.0      Min.      :      0.0      Min.      :      0.0
## 1st Qu.: 137.2      1st Qu.: 141.0      1st Qu.: 142.2      1st Qu.: 144.0
## Median : 431.5      Median : 437.5      Median : 445.5      Median : 451.5
## Mean      : 2295.4      Mean      : 2311.8      Mean      : 2325.6      Mean      : 2338.1
## 3rd Qu.: 1349.0      3rd Qu.: 1363.8      3rd Qu.: 1378.5      3rd Qu.: 1395.0
## Max.      :279909.0    Max.      :281165.0    Max.      :282135.0    Max.      :282982.0
##
##      X10.13.20      X10.14.20      X10.15.20      X10.16.20
## Min.      :      0.0      Min.      :      0      Min.      :      0.0      Min.      :      0.0
## 1st Qu.: 145.0      1st Qu.: 148      1st Qu.: 151.0      1st Qu.: 154.2
## Median : 457.5      Median : 462      Median : 469.5      Median : 475.5
## Mean      : 2353.7      Mean      : 2372      Mean      : 2391.0      Mean      : 2411.7
## 3rd Qu.: 1405.5      3rd Qu.: 1426      3rd Qu.: 1434.8      3rd Qu.: 1454.2
## Max.      :283750.0    Max.      :285016      Max.      :286183.0      Max.      :287222.0
##
##      X10.17.20      X10.18.20      X10.19.20      X10.20.20
## Min.      :      0.0      Min.      :      0.0      Min.      :      0      Min.      :      0
## 1st Qu.: 157.0      1st Qu.: 158.2      1st Qu.: 162      1st Qu.: 164
## Median : 481.5      Median : 489.5      Median : 495      Median : 503
## Mean      : 2428.7      Mean      : 2443.4      Mean      : 2464      Mean      : 2482
## 3rd Qu.: 1470.0      3rd Qu.: 1487.2      3rd Qu.: 1510      3rd Qu.: 1520
## Max.      :288136.0    Max.      :288451.0      Max.      :289366      Max.      :290009
##
##      X10.21.20      X10.22.20      X10.23.20      X10.24.20
## Min.      :      0      Min.      :      0.0      Min.      :      0.0      Min.      :      0.0
## 1st Qu.: 166      1st Qu.: 168.0      1st Qu.: 174.0      1st Qu.: 177.2
## Median : 509      Median : 517.5      Median : 527.5      Median : 535.0
## Mean      : 2501      Mean      : 2524.0      Mean      : 2548.5      Mean      : 2573.3
## 3rd Qu.: 1536      3rd Qu.: 1548.5      3rd Qu.: 1563.5      3rd Qu.: 1586.0
## Max.      :290486      Max.      :294065.0      Max.      :296821.0      Max.      :298937.0
##
##      X10.25.20      X10.26.20      X10.27.20      X10.28.20
## Min.      :      0      Min.      :      0.0      Min.      :      0      Min.      :      0

```

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## 1st Qu.: 182    1st Qu.: 183.2    1st Qu.: 186    1st Qu.: 188
## Median : 541    Median : 545.5    Median : 554    Median : 559
## Mean   : 2592    Mean   : 2612.1    Mean   : 2635    Mean   : 2659
## 3rd Qu.: 1602    3rd Qu.: 1610.8    3rd Qu.: 1620    3rd Qu.: 1637
## Max.   :299760    Max.   :300614.0    Max.   :302077    Max.   :303369
##
##      X10.29.20      X10.30.20      X10.31.20      X11.1.20
## Min.   :      0.0    Min.   :      0.0    Min.   :      0.0    Min.   :      0.0
## 1st Qu.: 193.2    1st Qu.: 199.2    1st Qu.: 202.2    1st Qu.: 212.0
## Median : 570.0    Median : 578.5    Median : 589.0    Median : 605.5
## Mean   : 2686.1    Mean   : 2715.8    Mean   : 2742.6    Mean   : 2774.0
## 3rd Qu.: 1658.8    3rd Qu.: 1686.0    3rd Qu.: 1708.0    3rd Qu.: 1745.5
## Max.   :305070.0    Max.   :306327.0    Max.   :307618.0    Max.   :309197.0
##
##      X11.2.20      X11.3.20      X11.4.20      X11.5.20
## Min.   :      0    Min.   :      0    Min.   :      0    Min.   :      0.0
## 1st Qu.: 215    1st Qu.: 220    1st Qu.: 227    1st Qu.: 232.0
## Median : 613    Median : 629    Median : 638    Median : 650.5
## Mean   : 2799    Mean   : 2838    Mean   : 2869    Mean   : 2907.5
## 3rd Qu.: 1755    3rd Qu.: 1779    3rd Qu.: 1801    3rd Qu.: 1821.8
## Max.   :310606    Max.   :311844    Max.   :313606    Max.   :315615.0
##
##      X11.6.20      X11.7.20      X11.8.20      X11.9.20
## Min.   :      0.0    Min.   :      0    Min.   :      0    Min.   :      0
## 1st Qu.: 240.0    1st Qu.: 245    1st Qu.: 251    1st Qu.: 255
## Median : 664.5    Median : 677    Median : 689    Median : 701
## Mean   : 2945.9    Mean   : 2984    Mean   : 3018    Mean   : 3054
## 3rd Qu.: 1844.8    3rd Qu.: 1877    3rd Qu.: 1916    3rd Qu.: 1949
## Max.   :317696.0    Max.   :319977    Max.   :322219    Max.   :323765
##
##      X11.10.20      X11.11.20      X11.12.20      X11.13.20
## Min.   :      0.0    Min.   :      0    Min.   :      0    Min.   :      0.0
## 1st Qu.: 257.2    1st Qu.: 267    1st Qu.: 275    1st Qu.: 281.2
## Median : 715.0    Median : 734    Median : 750    Median : 765.0
## Mean   : 3096.5    Mean   : 3140    Mean   : 3190    Mean   : 3243.7
## 3rd Qu.: 1980.2    3rd Qu.: 2017    3rd Qu.: 2049    3rd Qu.: 2085.8
## Max.   :326034.0    Max.   :328058    Max.   :330514    Max.   :332977.0
##
##      X11.14.20      X11.15.20      X11.16.20      X11.17.20
## Min.   :      0.0    Min.   :      0    Min.   :      0.0    Min.   :      0.0
## 1st Qu.: 291.0    1st Qu.: 294    1st Qu.: 304.5    1st Qu.: 311.2
## Median : 781.5    Median : 797    Median : 809.0    Median : 824.5
## Mean   : 3294.0    Mean   : 3335    Mean   : 3383.4    Mean   : 3432.5
## 3rd Qu.: 2119.0    3rd Qu.: 2155    3rd Qu.: 2185.8    3rd Qu.: 2231.8
## Max.   :336671.0    Max.   :339570    Max.   :342489.0    Max.   :344741.0
##
##      X11.18.20      X11.19.20      X11.20.20      X11.21.20
## Min.   :      0.0    Min.   :      0.0    Min.   :      0.0    Min.   :      0.0
## 1st Qu.: 317.0    1st Qu.: 324.2    1st Qu.: 331.2    1st Qu.: 339.0
## Median : 837.5    Median : 862.5    Median : 882.0    Median : 897.5
## Mean   : 3484.3    Mean   : 3541.6    Mean   : 3601.0    Mean   : 3654.7
## 3rd Qu.: 2268.5    3rd Qu.: 2315.8    3rd Qu.: 2356.8    3rd Qu.: 2387.0
## Max.   :348536.0    Max.   :353479.0    Max.   :357637.0    Max.   :362024.0
##
##

```

##	X11.22.20	X11.23.20	X11.24.20	X11.25.20
##	Min. : 0	Min. : 0.0	Min. : 0	Min. : 0.0
##	1st Qu.: 342	1st Qu.: 349.2	1st Qu.: 357	1st Qu.: 362.5
##	Median : 911	Median : 918.0	Median : 937	Median : 961.0
##	Mean : 3699	Mean : 3750.7	Mean : 3803	Mean : 3858.1
##	3rd Qu.: 2427	3rd Qu.: 2460.8	3rd Qu.: 2503	3rd Qu.: 2547.5
##	Max. :364583	Max. :370769.0	Max. :374479	Max. :378361.0
##				
##	X11.26.20	X11.27.20	X11.28.20	X11.29.20
##	Min. : 0.0	Min. : 0.0	Min. : 0	Min. : 0.0
##	1st Qu.: 369.2	1st Qu.: 377.2	1st Qu.: 384	1st Qu.: 387.2
##	Median : 966.0	Median : 981.0	Median : 996	Median : 1008.0
##	Mean : 3891.8	Mean : 3954.0	Mean : 4001	Mean : 4042.6
##	3rd Qu.: 2574.5	3rd Qu.: 2611.8	3rd Qu.: 2659	3rd Qu.: 2686.8
##	Max. :383275.0	Max. :387793.0	Max. :391225	Max. :395879.0
##				
##	X11.30.20	X12.1.20	X12.2.20	X12.3.20
##	Min. : 0.0	Min. : 0	Min. : 0.0	Min. : 0
##	1st Qu.: 391.2	1st Qu.: 397	1st Qu.: 404.2	1st Qu.: 413
##	Median : 1016.0	Median : 1038	Median : 1051.5	Median : 1070
##	Mean : 4090.6	Mean : 4147	Mean : 4207.6	Mean : 4274
##	3rd Qu.: 2719.2	3rd Qu.: 2745	3rd Qu.: 2787.5	3rd Qu.: 2824
##	Max. :401448.0	Max. :409015	Max. :414549.0	Max. :422262
##				
##	X12.4.20	X12.5.20	X12.6.20	X12.7.20
##	Min. : 0	Min. : 0	Min. : 0	Min. : 0
##	1st Qu.: 424	1st Qu.: 431	1st Qu.: 437	1st Qu.: 444
##	Median : 1087	Median : 1100	Median : 1116	Median : 1132
##	Mean : 4344	Mean : 4409	Mean : 4463	Mean : 4521
##	3rd Qu.: 2880	3rd Qu.: 2932	3rd Qu.: 2965	3rd Qu.: 3003
##	Max. :430824	Max. :440042	Max. :449971	Max. :458255
##				
##	X12.8.20	X12.9.20	X12.10.20	X12.11.20
##	Min. : 0	Min. : 0.0	Min. : 0.0	Min. : 0
##	1st Qu.: 448	1st Qu.: 458.2	1st Qu.: 466.2	1st Qu.: 475
##	Median : 1139	Median : 1163.5	Median : 1185.5	Median : 1208
##	Mean : 4588	Mean : 4654.9	Mean : 4724.1	Mean : 4796
##	3rd Qu.: 3052	3rd Qu.: 3107.5	3rd Qu.: 3147.8	3rd Qu.: 3217
##	Max. :467189	Max. :475778.0	Max. :488519.0	Max. :502026
##				
##	X12.12.20	X12.13.20	X12.14.20	X12.15.20
##	Min. : 0	Min. : 0.0	Min. : 0	Min. : 0.0
##	1st Qu.: 479	1st Qu.: 482.5	1st Qu.: 489	1st Qu.: 495.5
##	Median : 1223	Median : 1231.5	Median : 1249	Median : 1264.0
##	Mean : 4861	Mean : 4917.4	Mean : 4976	Mean : 5038.0
##	3rd Qu.: 3260	3rd Qu.: 3295.5	3rd Qu.: 3325	3rd Qu.: 3379.8
##	Max. :513283	Max. :525564.0	Max. :532730	Max. :544780.0
##				
##	X12.16.20	X12.17.20	X12.18.20	X12.19.20
##	Min. : 0	Min. : 0	Min. : 0	Min. : 0.0
##	1st Qu.: 502	1st Qu.: 506	1st Qu.: 517	1st Qu.: 521.2
##	Median : 1280	Median : 1290	Median : 1316	Median : 1331.0
##	Mean : 5112	Mean : 5184	Mean : 5259	Mean : 5316.5
##	3rd Qu.: 3427	3rd Qu.: 3470	3rd Qu.: 3533	3rd Qu.: 3580.2

```

## Max. :567249 Max. :581519 Max. :597386 Max. :610907.0
##
## X12.20.20 X12.21.20 X12.22.20 X12.23.20
## Min. : 0.0 Min. : 0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 524.2 1st Qu.: 527 1st Qu.: 532.2 1st Qu.: 541.2
## Median : 1339.0 Median : 1356 Median : 1367.0 Median : 1385.0
## Mean : 5372.7 Mean : 5432 Mean : 5491.5 Mean : 5560.2
## 3rd Qu.: 3617.5 3rd Qu.: 3652 3rd Qu.: 3667.5 3rd Qu.: 3718.2
## Max. :623792.0 Max. :636190 Max. :648062.0 Max. :665036.0
##
## X12.24.20 X12.25.20 X12.26.20 X12.27.20
## Min. : 0.0 Min. : 0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 546.2 1st Qu.: 547 1st Qu.: 554.2 1st Qu.: 558.2
## Median : 1399.5 Median : 1406 Median : 1416.5 Median : 1420.5
## Mean : 5618.3 Mean : 5648 Mean : 5715.3 Mean : 5761.9
## 3rd Qu.: 3769.0 3rd Qu.: 3779 3rd Qu.: 3806.2 3rd Qu.: 3835.8
## Max. :678040.0 Max. :678040 Max. :707463.0 Max. :719960.0
##
## X12.28.20 X12.29.20 X12.30.20 X12.31.20
## Min. : 0.0 Min. : 0.0 Min. : 0 Min. : 0.0
## 1st Qu.: 561.2 1st Qu.: 568.2 1st Qu.: 578 1st Qu.: 587.2
## Median : 1428.0 Median : 1449.5 Median : 1472 Median : 1489.5
## Mean : 5814.0 Mean : 5874.0 Mean : 5944 Mean : 6014.4
## 3rd Qu.: 3845.5 3rd Qu.: 3881.0 3rd Qu.: 3925 3rd Qu.: 3985.2
## Max. :734860.0 Max. :746666.0 Max. :756840 Max. :771519.0
##
## X1.1.21 X1.2.21 X1.3.21 X1.4.21
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 595.2 1st Qu.: 600.2 1st Qu.: 605.2 1st Qu.: 610.2
## Median : 1502.0 Median : 1514.0 Median : 1534.0 Median : 1549.5
## Mean : 6060.5 Mean : 6150.4 Mean : 6212.9 Mean : 6267.9
## 3rd Qu.: 3989.5 3rd Qu.: 4064.2 3rd Qu.: 4106.0 3rd Qu.: 4136.2
## Max. :790582.0 Max. :807185.0 Max. :818698.0 Max. :829549.0
##
## X1.5.21 X1.6.21 X1.7.21 X1.8.21
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0
## 1st Qu.: 616.2 1st Qu.: 620.8 1st Qu.: 630.2 1st Qu.: 640
## Median : 1570.5 Median : 1595.5 Median : 1619.5 Median : 1637
## Mean : 6338.3 Mean : 6414.8 Mean : 6498.1 Mean : 6586
## 3rd Qu.: 4190.8 3rd Qu.: 4236.5 3rd Qu.: 4293.5 3rd Qu.: 4336
## Max. :841392.0 Max. :853440.0 Max. :872204.0 Max. :889405
##
## X1.9.21 X1.10.21 X1.11.21 X1.12.21
## Min. : 0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 648 1st Qu.: 650.2 1st Qu.: 652.5 1st Qu.: 661.2
## Median : 1658 Median : 1678.5 Median : 1684.0 Median : 1692.0
## Mean : 6664 Mean : 6728.3 Mean : 6792.6 Mean : 6860.5
## 3rd Qu.: 4384 3rd Qu.: 4425.8 3rd Qu.: 4448.5 3rd Qu.: 4493.0
## Max. :907077 Max. :920324.0 Max. :932901.0 Max. :947035.0
##
## X1.13.21 X1.14.21 X1.15.21 X1.16.21
## Min. : 0.0 Min. : 0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 666.5 1st Qu.: 674 1st Qu.: 678.5 1st Qu.: 684.2
## Median : 1705.0 Median : 1722 Median : 1737.5 Median : 1752.5

```

```

## Mean : 6929.4 Mean : 7000 Mean : 7072.6 Mean : 7133.0
## 3rd Qu.: 4549.0 3rd Qu.: 4593 3rd Qu.: 4653.5 3rd Qu.: 4673.5
## Max. :959156.0 Max. :976075 Max. :990632.0 Max. :1004693.0
##
## X1.17.21 X1.18.21 X1.19.21 X1.20.21
## Min. : 0.0 Min. : 0 Min. : 0 Min. : 0
## 1st Qu.: 686.2 1st Qu.: 691 1st Qu.: 693 1st Qu.: 701
## Median : 1759.0 Median : 1767 Median : 1782 Median : 1795
## Mean : 7186.2 Mean : 7229 Mean : 7282 Mean : 7337
## 3rd Qu.: 4708.5 3rd Qu.: 4731 3rd Qu.: 4752 3rd Qu.: 4782
## Max. :1014753.0 Max. :1024297 Max. :1032806 Max. :1038738
##
## X1.21.21 X1.22.21 X1.23.21 X1.24.21
## Min. : 0.0 Min. : 0.0 Min. : 0 Min. : 0.0
## 1st Qu.: 706.5 1st Qu.: 712.5 1st Qu.: 715 1st Qu.: 718.2
## Median : 1806.5 Median : 1826.0 Median : 1839 Median : 1849.5
## Mean : 7394.8 Mean : 7451.9 Mean : 7503 Mean : 7542.2
## 3rd Qu.: 4814.0 3rd Qu.: 4831.2 3rd Qu.: 4856 3rd Qu.: 4873.2
## Max. :1046591.0 Max. :1054802.0 Max. :1065505 Max. :1073156.0
##
## X1.25.21 X1.26.21 X1.27.21 X1.28.21
## Min. : 0.0 Min. : 0 Min. : 0 Min. : 0
## 1st Qu.: 721.8 1st Qu.: 726 1st Qu.: 732 1st Qu.: 740
## Median : 1855.5 Median : 1868 Median : 1884 Median : 1894
## Mean : 7587.6 Mean : 7632 Mean : 7678 Mean : 7728
## 3rd Qu.: 4893.0 3rd Qu.: 4914 3rd Qu.: 4949 3rd Qu.: 4972
## Max. :1079672.0 Max. :1085488 Max. :1091712 Max. :1098411
##
## X1.29.21 X1.30.21 X1.31.21 X2.1.21
## Min. : 0.0 Min. : 0 Min. : 0.0 Min. : 0
## 1st Qu.: 744.2 1st Qu.: 748 1st Qu.: 748.5 1st Qu.: 753
## Median : 1906.0 Median : 1920 Median : 1921.0 Median : 1942
## Mean : 7778.2 Mean : 7821 Mean : 7854.4 Mean : 7895
## 3rd Qu.: 5038.8 3rd Qu.: 5069 3rd Qu.: 5081.8 3rd Qu.: 5137
## Max. :1104720.0 Max. :1111391 Max. :1116948.0 Max. :1121107
##
## X2.2.21 X2.3.21 X2.4.21 X2.5.21
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0
## 1st Qu.: 753.5 1st Qu.: 759.5 1st Qu.: 761.2 1st Qu.: 766
## Median : 1948.0 Median : 1956.0 Median : 1968.0 Median : 1981
## Mean : 7929.3 Mean : 7965.7 Mean : 8002.8 Mean : 8043
## 3rd Qu.: 5148.8 3rd Qu.: 5159.8 3rd Qu.: 5185.2 3rd Qu.: 5203
## Max. :1124975.0 Max. :1129730.0 Max. :1134595.0 Max. :1138970
##
## X2.6.21 X2.7.21 X2.8.21 X2.9.21
## Min. : 0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 770 1st Qu.: 770.2 1st Qu.: 774.5 1st Qu.: 776.5
## Median : 1991 Median : 1995.5 Median : 2001.0 Median : 2005.5
## Mean : 8074 Mean : 8101.0 Mean : 8128.1 Mean : 8156.6
## 3rd Qu.: 5225 3rd Qu.: 5229.8 3rd Qu.: 5245.0 3rd Qu.: 5253.5
## Max. :1143591 Max. :1146483.0 Max. :1149346.0 Max. :1152430.0
##
## X2.10.21 X2.11.21 X2.12.21 X2.13.21
## Min. : 0.0 Min. : 0.0 Min. : 0 Min. : 0

```

```

## 1st Qu.: 781.2 1st Qu.: 786.5 1st Qu.: 788 1st Qu.: 790
## Median : 2016.5 Median : 2020.5 Median : 2030 Median : 2036
## Mean : 8185.1 Mean : 8216.7 Mean : 8247 Mean : 8273
## 3rd Qu.: 5265.2 3rd Qu.: 5277.8 3rd Qu.: 5302 3rd Qu.: 5321
## Max. :1155491.0 Max. :1158794.0 Max. :1161926 Max. :1164880
##
## X2.14.21 X2.15.21 X2.16.21 X2.17.21
## Min. : 0 Min. : 0 Min. : 0 Min. : 0.0
## 1st Qu.: 791 1st Qu.: 794 1st Qu.: 794 1st Qu.: 795.2
## Median : 2040 Median : 2043 Median : 2044 Median : 2045.5
## Mean : 8292 Mean : 8308 Mean : 8327 Mean : 8348.1
## 3rd Qu.: 5333 3rd Qu.: 5346 3rd Qu.: 5354 3rd Qu.: 5363.8
## Max. :1166552 Max. :1168372 Max. :1169688 Max. :1171865.0
##
## X2.18.21 X2.19.21 X2.20.21 X2.21.21
## Min. : 0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 797 1st Qu.: 797.2 1st Qu.: 800.2 1st Qu.: 800.8
## Median : 2050 Median : 2053.5 Median : 2057.0 Median : 2061.0
## Mean : 8369 Mean : 8392.7 Mean : 8414.2 Mean : 8431.3
## 3rd Qu.: 5367 3rd Qu.: 5371.0 3rd Qu.: 5390.2 3rd Qu.: 5396.8
## Max. :1174340 Max. :1176843.0 Max. :1179149.0 Max. :1180505.0
##
## X2.22.21 X2.23.21 X2.24.21 X2.25.21
## Min. : 0.0 Min. : 0 Min. : 0.0 Min. : 0
## 1st Qu.: 801.2 1st Qu.: 804 1st Qu.: 806.2 1st Qu.: 807
## Median : 2065.5 Median : 2069 Median : 2076.0 Median : 2078
## Mean : 8448.1 Mean : 8470 Mean : 8492.1 Mean : 8515
## 3rd Qu.: 5405.0 3rd Qu.: 5434 3rd Qu.: 5444.5 3rd Qu.: 5454
## Max. :1181469.0 Max. :1183496 Max. :1185559.0 Max. :1187542
##
## X2.26.21 X2.27.21 X2.28.21
## Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 807.5 1st Qu.: 808.2 1st Qu.: 808.2
## Median : 2081.5 Median : 2086.5 Median : 2090.0
## Mean : 8538.4 Mean : 8557.7 Mean : 8573.1
## 3rd Qu.: 5467.2 3rd Qu.: 5479.5 3rd Qu.: 5498.2
## Max. :1189232.0 Max. :1190894.0 Max. :1191923.0
##
## X3.1.21 X3.2.21 X3.3.21
## Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 809.5 1st Qu.: 810.2 1st Qu.: 810.2
## Median : 2090.5 Median : 2095.0 Median : 2098.0
## Mean : 8590.5 Mean : 8607.6 Mean : 8627.7
## 3rd Qu.: 5512.8 3rd Qu.: 5516.0 3rd Qu.: 5535.2
## Max. :1192954.0 Max. :1194333.0 Max. :1196017.0
##
## X3.4.21 X3.5.21 X3.6.21 X3.7.21
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0
## 1st Qu.: 815.5 1st Qu.: 817.5 1st Qu.: 818.5 1st Qu.: 820
## Median : 2100.5 Median : 2102.0 Median : 2104.0 Median : 2109
## Mean : 8648.1 Mean : 8667.9 Mean : 8685.4 Mean : 8698
## 3rd Qu.: 5545.0 3rd Qu.: 5559.0 3rd Qu.: 5570.5 3rd Qu.: 5577
## Max. :1198178.0 Max. :1200128.0 Max. :1201868.0 Max. :1203152
##

```


##	X3.8.21	X3.9.21	X3.10.21	X3.11.21
##	Min. : 0	Min. : 0.0	Min. : 0	Min. : 0.0
##	1st Qu.: 822	1st Qu.: 822.2	1st Qu.: 823	1st Qu.: 837.2
##	Median : 2111	Median : 2114.5	Median : 2118	Median : 2137.5
##	Mean : 8711	Mean : 8728.3	Mean : 8746	Mean : 8764.4
##	3rd Qu.: 5577	3rd Qu.: 5583.8	3rd Qu.: 5591	3rd Qu.: 5597.2
##	Max. :1204018	Max. :1205327.0	Max. :1206740	Max. :1208024.0
##				
##	X3.12.21	X3.13.21	X3.14.21	X3.15.21
##	Min. : 0.0	Min. : 0.0	Min. : 0	Min. : 0
##	1st Qu.: 841.5	1st Qu.: 842.5	1st Qu.: 845	1st Qu.: 845
##	Median : 2143.5	Median : 2149.0	Median : 2152	Median : 2154
##	Mean : 8782.8	Mean : 8798.6	Mean : 8810	Mean : 8827
##	3rd Qu.: 5603.0	3rd Qu.: 5603.8	3rd Qu.: 5603	3rd Qu.: 5606
##	Max. :1209849.0	Max. :1209661.0	Max. :1210270	Max. :1210663
##				
##	X3.16.21	X3.17.21	X3.18.21	X3.19.21
##	Min. : 0.0	Min. : 0	Min. : 0.0	Min. : 0.0
##	1st Qu.: 845.5	1st Qu.: 845	1st Qu.: 847.8	1st Qu.: 850.2
##	Median : 2155.5	Median : 2160	Median : 2169.0	Median : 2173.0
##	Mean : 8843.2	Mean : 8861	Mean : 8879.0	Mean : 8897.4
##	3rd Qu.: 5612.5	3rd Qu.: 5622	3rd Qu.: 5622.5	3rd Qu.: 5625.2
##	Max. :1210961.0	Max. :1211739	Max. :1212648.0	Max. :1213288.0
##				
##	X3.20.21	X3.21.21	X3.22.21	X3.23.21
##	Min. : 0	Min. : 0.0	Min. : 0	Min. : 0
##	1st Qu.: 851	1st Qu.: 851.2	1st Qu.: 852	1st Qu.: 852
##	Median : 2175	Median : 2178.0	Median : 2180	Median : 2186
##	Mean : 8914	Mean : 8924.2	Mean : 8940	Mean : 8956
##	3rd Qu.: 5632	3rd Qu.: 5632.5	3rd Qu.: 5646	3rd Qu.: 5652
##	Max. :1213792	Max. :1214178.0	Max. :1214754	Max. :1215179
##				
##	X3.24.21	X3.25.21	X3.26.21	X3.27.21
##	Min. : 0.0	Min. : 0	Min. : 0.0	Min. : 0.0
##	1st Qu.: 853.2	1st Qu.: 856	1st Qu.: 857.2	1st Qu.: 858.2
##	Median : 2185.0	Median : 2192	Median : 2196.0	Median : 2203.0
##	Mean : 8981.6	Mean : 9002	Mean : 9025.0	Mean : 9043.8
##	3rd Qu.: 5661.0	3rd Qu.: 5664	3rd Qu.: 5673.5	3rd Qu.: 5673.5
##	Max. :1215772.0	Max. :1216319	Max. :1217116.0	Max. :1217775.0
##				
##	X3.28.21	X3.29.21	X3.30.21	
##	Min. : 0.0	Min. : 0.0	Min. : 0.0	
##	1st Qu.: 859.2	1st Qu.: 860.5	1st Qu.: 862.2	
##	Median : 2205.0	Median : 2207.0	Median : 2208.0	
##	Mean : 9056.7	Mean : 9077.4	Mean : 9095.8	
##	3rd Qu.: 5684.2	3rd Qu.: 5691.8	3rd Qu.: 5693.0	
##	Max. :1218229.0	Max. :1218643.0	Max. :1219029.0	
##				
##	X3.31.21	X4.1.21	X4.2.21	X4.3.21
##	Min. : 0.0	Min. : 0	Min. : 0.0	Min. : 0
##	1st Qu.: 863.2	1st Qu.: 865	1st Qu.: 866.2	1st Qu.: 867
##	Median : 2210.5	Median : 2214	Median : 2217.0	Median : 2222
##	Mean : 9115.8	Mean : 9140	Mean : 9160.4	Mean : 9179
##	3rd Qu.: 5727.2	3rd Qu.: 5739	3rd Qu.: 5742.2	3rd Qu.: 5752

```

## Max. :1219614.0 Max. :1220256 Max. :1220893.0 Max. :1220893
##
## X4.4.21 X4.5.21 X4.6.21 X4.7.21
## Min. : 0 Min. : 0.0 Min. : 0.0 Min. : 0
## 1st Qu.: 867 1st Qu.: 867.2 1st Qu.: 868.2 1st Qu.: 869
## Median : 2222 Median : 2226.5 Median : 2228.0 Median : 2224
## Mean : 9190 Mean : 9213.0 Mean : 9231.2 Mean : 9254
## 3rd Qu.: 5753 3rd Qu.: 5763.8 3rd Qu.: 5773.8 3rd Qu.: 5800
## Max. :1220893 Max. :1222479.0 Max. :1222802.0 Max. :1223205
##
## X4.8.21 X4.9.21 X4.10.21 X4.11.21
## Min. : 0 Min. : 0.0 Min. : 0 Min. : 0
## 1st Qu.: 869 1st Qu.: 871.5 1st Qu.: 873 1st Qu.: 876
## Median : 2236 Median : 2238.5 Median : 2244 Median : 2246
## Mean : 9278 Mean : 9302.2 Mean : 9322 Mean : 9336
## 3rd Qu.: 5825 3rd Qu.: 5858.2 3rd Qu.: 5884 3rd Qu.: 5898
## Max. :1223821 Max. :1224547.0 Max. :1225299 Max. :1225796
##
## X4.12.21 X4.13.21 X4.14.21 X4.15.21
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0
## 1st Qu.: 876.5 1st Qu.: 876.8 1st Qu.: 877.5 1st Qu.: 881
## Median : 2247.5 Median : 2257.0 Median : 2256.0 Median : 2261
## Mean : 9357.1 Mean : 9380.4 Mean : 9403.0 Mean : 9425
## 3rd Qu.: 5906.0 3rd Qu.: 5924.2 3rd Qu.: 5940.8 3rd Qu.: 5953
## Max. :1226219.0 Max. :1226627.0 Max. :1226964.0 Max. :1227537
##
## X4.16.21 X4.17.21 X4.18.21 X4.19.21
## Min. : 0.0 Min. : 0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 887.2 1st Qu.: 889 1st Qu.: 889.2 1st Qu.: 889.5
## Median : 2262.0 Median : 2268 Median : 2270.0 Median : 2271.0
## Mean : 9449.2 Mean : 9465 Mean : 9477.5 Mean : 9497.9
## 3rd Qu.: 5961.5 3rd Qu.: 5973 3rd Qu.: 5976.8 3rd Qu.: 5979.5
## Max. :1228118.0 Max. :1228641 Max. :1228997.0 Max. :1229328.0
##
## X4.20.21 X4.21.21 X4.22.21 X4.23.21
## Min. : 0.0 Min. : 0.0 Min. : 0 Min. : 0.0
## 1st Qu.: 891.2 1st Qu.: 892.8 1st Qu.: 896 1st Qu.: 897.2
## Median : 2279.5 Median : 2282.5 Median : 2286 Median : 2288.5
## Mean : 9516.1 Mean : 9534.9 Mean : 9555 Mean : 9573.7
## 3rd Qu.: 5981.0 3rd Qu.: 5983.8 3rd Qu.: 5993 3rd Qu.: 5995.0
## Max. :1229641.0 Max. :1229998.0 Max. :1230398 Max. :1230398.0
##
## X4.24.21 X4.25.21 X4.26.21 X4.27.21
## Min. : 0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 898 1st Qu.: 898.5 1st Qu.: 901.2 1st Qu.: 904.2
## Median : 2292 Median : 2292.0 Median : 2294.0 Median : 2296.5
## Mean : 9590 Mean : 9599.4 Mean : 9613.6 Mean : 9628.8
## 3rd Qu.: 6006 3rd Qu.: 6006.8 3rd Qu.: 6035.0 3rd Qu.: 6034.8
## Max. :1231186 Max. :1231532.0 Max. :1231838.0 Max. :1232131.0
##
## X4.28.21 X4.29.21 X4.30.21 X5.1.21
## Min. : 0.0 Min. : 0.0 Min. : 0 Min. : 0
## 1st Qu.: 903.5 1st Qu.: 904.5 1st Qu.: 908 1st Qu.: 908
## Median : 2298.0 Median : 2300.5 Median : 2302 Median : 2303

```

```

## Mean      : 9645.3   Mean      : 9662.7   Mean      : 9680   Mean      : 9694
## 3rd Qu.: 6037.8   3rd Qu.: 6043.5   3rd Qu.: 6068   3rd Qu.: 6085
## Max.     :1232391.0 Max.     :1232751.0 Max.     :1233091 Max.     :1233505
##
##      X5.2.21      X5.3.21      X5.4.21      X5.5.21
## Min.      :      0   Min.      :      0.0   Min.      :      0   Min.      :      0.0
## 1st Qu.:    908   1st Qu.:    908.2   1st Qu.:    909   1st Qu.:    910.2
## Median :    2303   Median :    2304.5   Median :    2306   Median :    2309.0
## Mean      :    9702   Mean      :    9717.5   Mean      :    9730   Mean      :    9743.1
## 3rd Qu.:    6087   3rd Qu.:    6089.8   3rd Qu.:    6093   3rd Qu.:    6110.5
## Max.     :1233772   Max.     :1233998.0   Max.     :1234242   Max.     :1234242.0
##
##      X5.6.21      X5.7.21      X5.8.21      X5.9.21
## Min.      :      0.0   Min.      :      0   Min.      :      0.0   Min.      :      0
## 1st Qu.:    911.8   1st Qu.:    915   1st Qu.:    914.2   1st Qu.:    915
## Median :    2311.5   Median :    2316   Median :    2319.5   Median :    2320
## Mean      :    9757.3   Mean      :    9772   Mean      :    9781.8   Mean      :    9788
## 3rd Qu.:    6110.8   3rd Qu.:    6115   3rd Qu.:    6125.2   3rd Qu.:    6132
## Max.     :1234746.0   Max.     :1235150   Max.     :1235422.0   Max.     :1235651
##
##      X5.10.21      X5.11.21      X5.12.21
## Min.      :      0.0   Min.      :      0.0   Min.      :      0.0
## 1st Qu.:    915.2   1st Qu.:    918.8   1st Qu.:    916.2
## Median :    2321.5   Median :    2323.5   Median :    2325.5
## Mean      :    9799.2   Mean      :    9809.3   Mean      :    9820.0
## 3rd Qu.:    6140.0   3rd Qu.:    6144.5   3rd Qu.:    6153.2
## Max.     :1235828.0   Max.     :1235999.0   Max.     :1236256.0
##
##      X5.13.21      X5.14.21      X5.15.21      X5.16.21
## Min.      :      0.0   Min.      :      0   Min.      :      0.0   Min.      :      0.0
## 1st Qu.:    920.8   1st Qu.:    923   1st Qu.:    924.5   1st Qu.:    922.5
## Median :    2330.0   Median :    2336   Median :    2339.0   Median :    2340.0
## Mean      :    9831.4   Mean      :    9844   Mean      :    9852.7   Mean      :    9857.8
## 3rd Qu.:    6158.0   3rd Qu.:    6164   3rd Qu.:    6174.8   3rd Qu.:    6188.2
## Max.     :1236456.0   Max.     :1237021   Max.     :1237273.0   Max.     :1237411.0
##
##      X5.17.21      X5.18.21      X5.19.21      X5.20.21
## Min.      :      0.0   Min.      :      0   Min.      :      0.0   Min.      :      0.0
## 1st Qu.:    924.5   1st Qu.:    926   1st Qu.:    924.5   1st Qu.:    926.2
## Median :    2342.5   Median :    2348   Median :    2350.5   Median :    2352.5
## Mean      :    9866.3   Mean      :    9875   Mean      :    9883.4   Mean      :    9892.4
## 3rd Qu.:    6196.2   3rd Qu.:    6207   3rd Qu.:    6213.8   3rd Qu.:    6226.8
## Max.     :1237561.0   Max.     :1237700   Max.     :1237910.0   Max.     :1238147.0
##
##      X5.21.21      X5.22.21      X5.23.21      X5.24.21
## Min.      :      0   Min.      :      0   Min.      :      0   Min.      :      0
## 1st Qu.:    928   1st Qu.:    928   1st Qu.:    928   1st Qu.:    929
## Median :    2352   Median :    2352   Median :    2353   Median :    2354
## Mean      :    9901   Mean      :    9907   Mean      :    9911   Mean      :    9918
## 3rd Qu.:    6230   3rd Qu.:    6230   3rd Qu.:    6230   3rd Qu.:    6242
## Max.     :1238382   Max.     :1238607   Max.     :1238781   Max.     :1238932
##
##      X5.25.21      X5.26.21      X5.27.21      X5.28.21
## Min.      :      0   Min.      :      0.0   Min.      :      0.0   Min.      :      0.0

```

```
## 1st Qu.: 929 1st Qu.: 929.2 1st Qu.: 930.2 1st Qu.: 930.2
## Median : 2353 Median : 2353.5 Median : 2356.5 Median : 2359.5
## Mean : 9925 Mean : 9932.3 Mean : 9940.5 Mean : 9947.0
## 3rd Qu.: 6249 3rd Qu.: 6261.8 3rd Qu.: 6268.8 3rd Qu.: 6271.2
## Max. :1239127 Max. :1239306.0 Max. :1243338.0 Max. :1243531.0
##
## X5.29.21 X5.30.21 X5.31.21 X6.1.21
## Min. : 0.0 Min. : 0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 931.5 1st Qu.: 931 1st Qu.: 930.2 1st Qu.: 934.2
## Median : 2362.0 Median : 2362 Median : 2362.5 Median : 2363.5
## Mean : 9950.6 Mean : 9953 Mean : 9954.4 Mean : 9961.2
## 3rd Qu.: 6271.2 3rd Qu.: 6271 3rd Qu.: 6272.2 3rd Qu.: 6274.5
## Max. :1243712.0 Max. :1243882 Max. :1244054.0 Max. :1244170.0
##
```

summary(Deaths)

```
## UID iso3 code3
## Min. : 16 Length:3342 Length:3342 Min. : 16.0
## 1st Qu.:84018106 Class :character Class :character 1st Qu.:840.0
## Median :84029206 Mode :character Mode :character Median :840.0
## Mean :83429923 Mean :834.5
## 3rd Qu.:84046118 3rd Qu.:840.0
## Max. :84099999 Max. :850.0
##
## FIPS Admin2 Province_State Country_Region
## Min. : 60 Length:3342 Length:3342 Length:3342
## 1st Qu.:19076 Class :character Class :character Class :character
## Median :31012 Mode :character Mode :character Mode :character
## Mean :33043
## 3rd Qu.:47130
## Max. :99999
## NA's :10
## Lat Long_ Combined_Key Population
## Min. :-14.27 Min. :-174.16 Length:3342 Min. : 0
## 1st Qu.: 33.90 1st Qu.: -97.80 Class :character 1st Qu.: 9917
## Median : 38.01 Median : -89.49 Mode :character Median : 24892
## Mean : 36.72 Mean : -88.64 Mean : 99604
## 3rd Qu.: 41.58 3rd Qu.: -82.31 3rd Qu.: 64975
## Max. : 69.31 Max. : 145.67 Max. :10039107
##
## X1.22.20 X1.23.20 X1.24.20
## Min. :0.0000000 Min. :0.0000000 Min. :0.0000000
## 1st Qu.:0.0000000 1st Qu.:0.0000000 1st Qu.:0.0000000
## Median :0.0000000 Median :0.0000000 Median :0.0000000
## Mean :0.0002992 Mean :0.0002992 Mean :0.0002992
## 3rd Qu.:0.0000000 3rd Qu.:0.0000000 3rd Qu.:0.0000000
## Max. :1.0000000 Max. :1.0000000 Max. :1.0000000
##
## X1.25.20 X1.26.20 X1.27.20
## Min. :0.0000000 Min. :0.0000000 Min. :0.0000000
## 1st Qu.:0.0000000 1st Qu.:0.0000000 1st Qu.:0.0000000
## Median :0.0000000 Median :0.0000000 Median :0.0000000
## Mean :0.0002992 Mean :0.0002992 Mean :0.0002992
```

[illegible]

##	Median :0.0000000	Median :0.0000000	Median :0.0000000	
##	Mean :0.0002992	Mean :0.0002992	Mean :0.0002992	
##	3rd Qu.:0.0000000	3rd Qu.:0.0000000	3rd Qu.:0.0000000	
##	Max. :1.0000000	Max. :1.0000000	Max. :1.0000000	
##				
##	X2.18.20	X2.19.20	X2.20.20	
##	Min. :0.0000000	Min. :0.0000000	Min. :0.0000000	
##	1st Qu.:0.0000000	1st Qu.:0.0000000	1st Qu.:0.0000000	
##	Median :0.0000000	Median :0.0000000	Median :0.0000000	
##	Mean :0.0002992	Mean :0.0002992	Mean :0.0002992	
##	3rd Qu.:0.0000000	3rd Qu.:0.0000000	3rd Qu.:0.0000000	
##	Max. :1.0000000	Max. :1.0000000	Max. :1.0000000	
##				
##	X2.21.20	X2.22.20	X2.23.20	
##	Min. :0.0000000	Min. :0.0000000	Min. :0.0000000	
##	1st Qu.:0.0000000	1st Qu.:0.0000000	1st Qu.:0.0000000	
##	Median :0.0000000	Median :0.0000000	Median :0.0000000	
##	Mean :0.0002992	Mean :0.0002992	Mean :0.0002992	
##	3rd Qu.:0.0000000	3rd Qu.:0.0000000	3rd Qu.:0.0000000	
##	Max. :1.0000000	Max. :1.0000000	Max. :1.0000000	
##				
##	X2.24.20	X2.25.20	X2.26.20	
##	Min. :0.0000000	Min. :0.0000000	Min. :0.0000000	
##	1st Qu.:0.0000000	1st Qu.:0.0000000	1st Qu.:0.0000000	
##	Median :0.0000000	Median :0.0000000	Median :0.0000000	
##	Mean :0.0002992	Mean :0.0002992	Mean :0.0002992	
##	3rd Qu.:0.0000000	3rd Qu.:0.0000000	3rd Qu.:0.0000000	
##	Max. :1.0000000	Max. :1.0000000	Max. :1.0000000	
##				
##	X2.27.20	X2.28.20	X2.29.20	
##	Min. :0.0000000	Min. :0.0000000	Min. :0.0000000	
##	1st Qu.:0.0000000	1st Qu.:0.0000000	1st Qu.:0.0000000	
##	Median :0.0000000	Median :0.0000000	Median :0.0000000	
##	Mean :0.0002992	Mean :0.0002992	Mean :0.0005984	
##	3rd Qu.:0.0000000	3rd Qu.:0.0000000	3rd Qu.:0.0000000	
##	Max. :1.0000000	Max. :1.0000000	Max. :1.0000000	
##				
##	X3.1.20	X3.2.20	X3.3.20	X3.4.20
##	Min. :0.0000000	Min. :0.0000000	Min. :0.0000000	Min. :0.0000000
##	1st Qu.:0.0000000	1st Qu.:0.0000000	1st Qu.:0.0000000	1st Qu.:0.0000000
##	Median :0.0000000	Median :0.0000000	Median :0.0000000	Median :0.0000000
##	Mean :0.0005984	Mean :0.002095	Mean :0.002394	Mean :0.003591
##	3rd Qu.:0.0000000	3rd Qu.:0.0000000	3rd Qu.:0.0000000	3rd Qu.:0.0000000
##	Max. :1.0000000	Max. :5.000000	Max. :6.000000	Max. :9.000000
##				
##	X3.5.20	X3.6.20	X3.7.20	X3.8.20
##	Min. : 0.000000	Min. : 0.000000	Min. : 0.000000	Min. : 0.000000
##	1st Qu.: 0.000000	1st Qu.: 0.000000	1st Qu.: 0.000000	1st Qu.: 0.000000
##	Median : 0.000000	Median : 0.000000	Median : 0.000000	Median : 0.000000
##	Mean : 0.00389	Mean : 0.004488	Mean : 0.005386	Mean : 0.006583
##	3rd Qu.: 0.000000	3rd Qu.: 0.000000	3rd Qu.: 0.000000	3rd Qu.: 0.000000
##	Max. :10.00000	Max. :12.000000	Max. :15.000000	Max. :17.000000
##				
##	X3.9.20	X3.10.20	X3.11.20	X3.12.20

##	Min. : 0.000000	Min. : 0.000000	Min. : 0.000000	Min. : 0.000000
##	1st Qu.: 0.000000	1st Qu.: 0.000000	1st Qu.: 0.000000	1st Qu.: 0.000000
##	Median : 0.000000	Median : 0.000000	Median : 0.000000	Median : 0.000000
##	Mean : 0.006882	Mean : 0.008677	Mean : 0.01017	Mean : 0.01317
##	3rd Qu.: 0.000000	3rd Qu.: 0.000000	3rd Qu.: 0.000000	3rd Qu.: 0.000000
##	Max. :17.000000	Max. :21.000000	Max. :22.000000	Max. :27.000000
##				
##	X3.13.20	X3.14.20	X3.15.20	X3.16.20
##	Min. : 0.000000	Min. : 0.000000	Min. : 0.000000	Min. : 0.000000
##	1st Qu.: 0.000000	1st Qu.: 0.000000	1st Qu.: 0.000000	1st Qu.: 0.000000
##	Median : 0.000000	Median : 0.000000	Median : 0.000000	Median : 0.000000
##	Mean : 0.01556	Mean : 0.01795	Mean : 0.02154	Mean : 0.02962
##	3rd Qu.: 0.000000	3rd Qu.: 0.000000	3rd Qu.: 0.000000	3rd Qu.: 0.000000
##	Max. :32.000000	Max. :34.000000	Max. :35.000000	Max. :43.000000
##				
##	X3.17.20	X3.18.20	X3.19.20	X3.20.20
##	Min. : 0.000000	Min. : 0.000000	Min. : 0.000000	Min. : 0.000000
##	1st Qu.: 0.000000	1st Qu.: 0.000000	1st Qu.: 0.000000	1st Qu.: 0.000000
##	Median : 0.000000	Median : 0.000000	Median : 0.000000	Median : 0.000000
##	Mean : 0.04099	Mean : 0.05925	Mean : 0.08109	Mean : 0.1134
##	3rd Qu.: 0.000000	3rd Qu.: 0.000000	3rd Qu.: 0.000000	3rd Qu.: 0.000000
##	Max. :46.000000	Max. :56.000000	Max. :60.000000	Max. :67.000000
##				
##	X3.21.20	X3.22.20	X3.23.20	X3.24.20
##	Min. : 0.000000	Min. : 0.000000	Min. : 0.000000	Min. : 0.000000
##	1st Qu.: 0.000000	1st Qu.: 0.000000	1st Qu.: 0.000000	1st Qu.: 0.000000
##	Median : 0.000000	Median : 0.000000	Median : 0.000000	Median : 0.000000
##	Mean : 0.1439	Mean : 0.1786	Mean : 0.2361	Mean : 0.3088
##	3rd Qu.: 0.000000	3rd Qu.: 0.000000	3rd Qu.: 0.000000	3rd Qu.: 0.000000
##	Max. :74.000000	Max. :75.000000	Max. :91.000000	Max. :126.000000
##				
##	X3.25.20	X3.26.20	X3.27.20	X3.28.20
##	Min. : 0.000000	Min. : 0.000000	Min. : 0.00	Min. : 0.000000
##	1st Qu.: 0.000000	1st Qu.: 0.000000	1st Qu.: 0.00	1st Qu.: 0.000000
##	Median : 0.000000	Median : 0.000000	Median : 0.00	Median : 0.000000
##	Mean : 0.4084	Mean : 0.5338	Mean : 0.69	Mean : 0.8821
##	3rd Qu.: 0.000000	3rd Qu.: 0.000000	3rd Qu.: 0.00	3rd Qu.: 0.000000
##	Max. :158.000000	Max. :218.000000	Max. :276.00	Max. :369.000000
##				
##	X3.29.20	X3.30.20	X3.31.20	X4.1.20
##	Min. : 0.000000	Min. : 0.000000	Min. : 0.000000	Min. : 0.000000
##	1st Qu.: 0.000000	1st Qu.: 0.000000	1st Qu.: 0.000000	1st Qu.: 0.000000
##	Median : 0.000000	Median : 0.000000	Median : 0.000000	Median : 0.000000
##	Mean : 1.069	Mean : 1.282	Mean : 1.607	Mean : 1.991
##	3rd Qu.: 0.000000	3rd Qu.: 0.000000	3rd Qu.: 0.000000	3rd Qu.: 0.000000
##	Max. :464.000000	Max. :563.000000	Max. :662.000000	Max. :804.000000
##				
##	X4.2.20	X4.3.20	X4.4.20	X4.5.20
##	Min. : 0.000000	Min. : 0.000000	Min. : 0.000000	Min. : 0.000000
##	1st Qu.: 0.000000	1st Qu.: 0.000000	1st Qu.: 0.000000	1st Qu.: 0.000000
##	Median : 0.000000	Median : 0.000000	Median : 0.000000	Median : 0.000000
##	Mean : 2.443	Mean : 2.872	Mean : 3.341	Mean : 3.824
##	3rd Qu.: 0.000000	3rd Qu.: 0.000000	3rd Qu.: 0.000000	3rd Qu.: 0.000000
##	Max. :966.000000	Max. :1107.000000	Max. :1270.000000	Max. :1443.000000

```

##
##      X4.6.20      X4.7.20      X4.8.20      X4.9.20
## Min.   : 0.000   Min.   : 0.000   Min.   : 0.000   Min.   : 0.000
## 1st Qu.: 0.000   1st Qu.: 0.000   1st Qu.: 0.000   1st Qu.: 0.000
## Median : 0.000   Median : 0.000   Median : 0.000   Median : 0.000
## Mean   : 4.354   Mean   : 5.125   Mean   : 5.771   Mean   : 6.432
## 3rd Qu.: 0.000   3rd Qu.: 1.000   3rd Qu.: 1.000   3rd Qu.: 1.000
## Max.   :1645.000   Max.   :1828.000   Max.   :2010.000   Max.   :2182.000
##
##      X4.10.20     X4.11.20     X4.12.20     X4.13.20
## Min.   : 0.00   Min.   : 0.000   Min.   : 0.000   Min.   : 0.000
## 1st Qu.: 0.00   1st Qu.: 0.000   1st Qu.: 0.000   1st Qu.: 0.000
## Median : 0.00   Median : 0.000   Median : 0.000   Median : 0.000
## Mean   : 7.09   Mean   : 7.725   Mean   : 8.286   Mean   : 8.889
## 3rd Qu.: 1.00   3rd Qu.: 1.000   3rd Qu.: 1.000   3rd Qu.: 1.000
## Max.   :2337.00   Max.   :2500.000   Max.   :2686.000   Max.   :2867.000
##
##      X4.14.20     X4.15.20     X4.16.20     X4.17.20
## Min.   : 0.000   Min.   : 0.0   Min.   : 0.00   Min.   : 0.00
## 1st Qu.: 0.000   1st Qu.: 0.0   1st Qu.: 0.00   1st Qu.: 0.00
## Median : 0.000   Median : 0.0   Median : 0.00   Median : 0.00
## Mean   : 9.619   Mean   : 10.4   Mean   : 11.04   Mean   : 11.68
## 3rd Qu.: 1.000   3rd Qu.: 1.0   3rd Qu.: 1.00   3rd Qu.: 1.00
## Max.   :3030.000   Max.   :3181.0   Max.   :3313.00   Max.   :3435.00
##
##      X4.18.20     X4.19.20     X4.20.20     X4.21.20
## Min.   : 0.00   Min.   : 0.00   Min.   : 0.00   Min.   : 0.00
## 1st Qu.: 0.00   1st Qu.: 0.00   1st Qu.: 0.00   1st Qu.: 0.00
## Median : 0.00   Median : 0.00   Median : 0.00   Median : 0.00
## Mean   : 12.27   Mean   : 12.86   Mean   : 13.53   Mean   : 14.28
## 3rd Qu.: 1.00   3rd Qu.: 2.00   3rd Qu.: 2.00   3rd Qu.: 2.00
## Max.   :3571.00   Max.   :3707.00   Max.   :3833.00   Max.   :3936.00
##
##      X4.22.20     X4.23.20     X4.24.20     X4.25.20
## Min.   : 0.00   Min.   : 0.00   Min.   : 0.00   Min.   : 0.00
## 1st Qu.: 0.00   1st Qu.: 0.00   1st Qu.: 0.00   1st Qu.: 0.00
## Median : 0.00   Median : 0.00   Median : 0.00   Median : 0.00
## Mean   : 15.01   Mean   : 15.75   Mean   : 16.41   Mean   : 16.92
## 3rd Qu.: 2.00   3rd Qu.: 2.00   3rd Qu.: 2.00   3rd Qu.: 2.00
## Max.   :4022.00   Max.   :4129.00   Max.   :4227.00   Max.   :4308.00
##
##      X4.26.20     X4.27.20     X4.28.20     X4.29.20
## Min.   : 0.00   Min.   : 0.00   Min.   : 0.00   Min.   : 0.00
## 1st Qu.: 0.00   1st Qu.: 0.00   1st Qu.: 0.00   1st Qu.: 0.00
## Median : 0.00   Median : 0.00   Median : 0.00   Median : 0.00
## Mean   : 17.34   Mean   : 17.79   Mean   : 18.46   Mean   : 19.18
## 3rd Qu.: 2.00   3rd Qu.: 2.00   3rd Qu.: 2.00   3rd Qu.: 2.00
## Max.   :4398.00   Max.   :4489.00   Max.   :4562.00   Max.   :4643.00
##
##      X4.30.20     X5.1.20      X5.2.20      X5.3.20
## Min.   : 0.00   Min.   : 0.00   Min.   : 0.00   Min.   : 0.00
## 1st Qu.: 0.00   1st Qu.: 0.00   1st Qu.: 0.00   1st Qu.: 0.00
## Median : 0.00   Median : 0.00   Median : 0.00   Median : 0.00
## Mean   : 19.84   Mean   : 20.41   Mean   : 20.93   Mean   : 21.28

```


##	3rd Qu.:	3.00	3rd Qu.:	3.00	3rd Qu.:	3.00	3rd Qu.:	3.00
##	Max.	:4710.00	Max.	:4786.00	Max.	:4847.00	Max.	:4902.00
##								
##	X5.4.20		X5.5.20		X5.6.20		X5.7.20	
##	Min.	: 0.0	Min.	: 0.00	Min.	: 0.00	Min.	: 0.00
##	1st Qu.:	0.0	1st Qu.:	0.00	1st Qu.:	0.00	1st Qu.:	0.00
##	Median :	0.0	Median :	0.00	Median :	0.00	Median :	0.00
##	Mean :	21.7	Mean :	22.36	Mean :	23.05	Mean :	23.63
##	3rd Qu.:	3.0	3rd Qu.:	3.00	3rd Qu.:	3.00	3rd Qu.:	3.00
##	Max.	:4957.0	Max.	:5002.00	Max.	:5060.00	Max.	:5101.00
##								
##	X5.8.20		X5.9.20		X5.10.20		X5.11.20	
##	Min.	: 0.00	Min.	: 0.00	Min.	: 0.00	Min.	: 0.0
##	1st Qu.:	0.00	1st Qu.:	0.00	1st Qu.:	0.00	1st Qu.:	0.0
##	Median :	0.00	Median :	0.00	Median :	0.00	Median :	0.0
##	Mean :	24.16	Mean :	24.59	Mean :	24.89	Mean :	25.2
##	3rd Qu.:	3.00	3rd Qu.:	3.00	3rd Qu.:	4.00	3rd Qu.:	4.0
##	Max.	:5149.00	Max.	:5182.00	Max.	:5218.00	Max.	:5245.0
##								
##	X5.12.20		X5.13.20		X5.14.20		X5.15.20	
##	Min.	: 0.00	Min.	: 0.0	Min.	: 0.00	Min.	: 0.00
##	1st Qu.:	0.00	1st Qu.:	0.0	1st Qu.:	0.00	1st Qu.:	0.00
##	Median :	0.00	Median :	0.0	Median :	0.00	Median :	0.00
##	Mean :	25.68	Mean :	26.2	Mean :	26.73	Mean :	27.23
##	3rd Qu.:	4.00	3rd Qu.:	4.0	3rd Qu.:	4.00	3rd Qu.:	4.00
##	Max.	:5263.00	Max.	:5293.0	Max.	:5316.00	Max.	:5343.00
##								
##	X5.16.20		X5.17.20		X5.18.20		X5.19.20	
##	Min.	: 0.00	Min.	: 0.00	Min.	: 0.0	Min.	: 0.00
##	1st Qu.:	0.00	1st Qu.:	0.00	1st Qu.:	0.0	1st Qu.:	0.00
##	Median :	0.00	Median :	0.00	Median :	0.0	Median :	1.00
##	Mean :	27.59	Mean :	27.83	Mean :	28.2	Mean :	28.64
##	3rd Qu.:	4.00	3rd Qu.:	4.00	3rd Qu.:	4.0	3rd Qu.:	4.00
##	Max.	:5364.00	Max.	:5390.00	Max.	:6663.0	Max.	:6685.00
##								
##	X5.20.20		X5.21.20		X5.22.20		X5.23.20	
##	Min.	: 0.00	Min.	: 0.00	Min.	: 0.0	Min.	: 0.00
##	1st Qu.:	0.00	1st Qu.:	0.00	1st Qu.:	0.0	1st Qu.:	0.00
##	Median :	1.00	Median :	1.00	Median :	1.0	Median :	1.00
##	Mean :	29.08	Mean :	29.44	Mean :	29.8	Mean :	30.13
##	3rd Qu.:	4.00	3rd Qu.:	5.00	3rd Qu.:	5.0	3rd Qu.:	5.00
##	Max.	:6721.00	Max.	:6753.00	Max.	:6771.0	Max.	:6799.00
##								
##	X5.24.20		X5.25.20		X5.26.20		X5.27.20	
##	Min.	: 0.00	Min.	: 0.0	Min.	: 0.0	Min.	: 0.00
##	1st Qu.:	0.00	1st Qu.:	0.0	1st Qu.:	0.0	1st Qu.:	0.00
##	Median :	1.00	Median :	1.0	Median :	1.0	Median :	1.00
##	Mean :	30.32	Mean :	30.5	Mean :	30.7	Mean :	31.14
##	3rd Qu.:	5.00	3rd Qu.:	5.0	3rd Qu.:	5.0	3rd Qu.:	5.00
##	Max.	:6817.00	Max.	:6834.0	Max.	:6843.0	Max.	:6854.00
##								
##	X5.28.20		X5.29.20		X5.30.20		X5.31.20	
##	Min.	: 0.00	Min.	: 0.0	Min.	: 0.00	Min.	: 0.00
##	1st Qu.:	0.00	1st Qu.:	0.0	1st Qu.:	0.00	1st Qu.:	0.00

##	Median :	1.00	Median :	1.0	Median :	1.00	Median :	1.00
##	Mean :	31.47	Mean :	31.8	Mean :	32.09	Mean :	32.27
##	3rd Qu.:	5.00	3rd Qu.:	6.0	3rd Qu.:	6.00	3rd Qu.:	6.00
##	Max. :	6870.00	Max. :	6893.0	Max. :	6909.00	Max. :	6926.00
##								
##	X6.1.20		X6.2.20		X6.3.20		X6.4.20	
##	Min. :	0.00	Min. :	0.0	Min. :	0.0	Min. :	0.0
##	1st Qu.:	0.00	1st Qu.:	0.0	1st Qu.:	0.0	1st Qu.:	0.0
##	Median :	1.00	Median :	1.0	Median :	1.0	Median :	1.0
##	Mean :	32.51	Mean :	32.8	Mean :	33.1	Mean :	33.4
##	3rd Qu.:	6.00	3rd Qu.:	6.0	3rd Qu.:	6.0	3rd Qu.:	6.0
##	Max. :	6942.00	Max. :	6952.0	Max. :	6970.0	Max. :	6984.0
##								
##	X6.5.20		X6.6.20		X6.7.20		X6.8.20	
##	Min. :	0.00	Min. :	0.00	Min. :	0	Min. :	0.00
##	1st Qu.:	0.00	1st Qu.:	0.00	1st Qu.:	0	1st Qu.:	0.00
##	Median :	1.00	Median :	1.00	Median :	1	Median :	1.00
##	Mean :	33.67	Mean :	33.86	Mean :	34	Mean :	34.15
##	3rd Qu.:	6.00	3rd Qu.:	6.00	3rd Qu.:	6	3rd Qu.:	6.00
##	Max. :	6991.00	Max. :	7004.00	Max. :	7012	Max. :	7025.00
##								
##	X6.9.20		X6.10.20		X6.11.20		X6.12.20	
##	Min. :	0.00	Min. :	0.00	Min. :	0.00	Min. :	0.00
##	1st Qu.:	0.00	1st Qu.:	0.00	1st Qu.:	0.00	1st Qu.:	0.00
##	Median :	1.00	Median :	1.00	Median :	1.00	Median :	1.00
##	Mean :	34.42	Mean :	34.69	Mean :	34.93	Mean :	35.18
##	3rd Qu.:	6.00	3rd Qu.:	6.00	3rd Qu.:	7.00	3rd Qu.:	7.00
##	Max. :	7032.00	Max. :	7046.00	Max. :	7050.00	Max. :	7058.00
##								
##	X6.13.20		X6.14.20		X6.15.20		X6.16.20	
##	Min. :	0.0	Min. :	0.00	Min. :	0.00	Min. :	0.00
##	1st Qu.:	0.0	1st Qu.:	0.00	1st Qu.:	0.00	1st Qu.:	0.00
##	Median :	1.0	Median :	1.00	Median :	1.00	Median :	1.00
##	Mean :	35.4	Mean :	35.51	Mean :	35.62	Mean :	35.87
##	3rd Qu.:	7.0	3rd Qu.:	7.00	3rd Qu.:	7.00	3rd Qu.:	7.00
##	Max. :	7064.0	Max. :	7076.00	Max. :	7081.00	Max. :	7086.00
##								
##	X6.17.20		X6.18.20		X6.19.20		X6.20.20	
##	Min. :	0.00	Min. :	0.00	Min. :	0.00	Min. :	0.00
##	1st Qu.:	0.00	1st Qu.:	0.00	1st Qu.:	0.00	1st Qu.:	0.00
##	Median :	1.00	Median :	1.00	Median :	1.00	Median :	1.00
##	Mean :	36.09	Mean :	36.29	Mean :	36.48	Mean :	36.65
##	3rd Qu.:	7.00	3rd Qu.:	7.00	3rd Qu.:	7.00	3rd Qu.:	7.00
##	Max. :	7095.00	Max. :	7100.00	Max. :	7106.00	Max. :	7112.00
##								
##	X6.21.20		X6.22.20		X6.23.20		X6.24.20	
##	Min. :	0.00	Min. :	0.00	Min. :	0.00	Min. :	0.00
##	1st Qu.:	0.00	1st Qu.:	0.00	1st Qu.:	0.00	1st Qu.:	0.00
##	Median :	1.00	Median :	1.00	Median :	1.00	Median :	1.00
##	Mean :	36.74	Mean :	36.87	Mean :	37.09	Mean :	37.31
##	3rd Qu.:	7.75	3rd Qu.:	8.00	3rd Qu.:	8.00	3rd Qu.:	8.00
##	Max. :	7120.00	Max. :	7126.00	Max. :	7135.00	Max. :	7140.00
##								
##	X6.25.20		X6.26.20		X6.27.20		X6.28.20	

##	Min. : 0.00	Min. : 0.00	Min. : 0.00	Min. : 0.00
##	1st Qu.: 0.00	1st Qu.: 0.00	1st Qu.: 0.00	1st Qu.: 0.00
##	Median : 1.00	Median : 1.00	Median : 1.00	Median : 1.00
##	Mean : 37.47	Mean : 37.66	Mean : 37.81	Mean : 37.91
##	3rd Qu.: 8.00	3rd Qu.: 8.00	3rd Qu.: 8.00	3rd Qu.: 8.00
##	Max. :7144.00	Max. :7147.00	Max. :7158.00	Max. :7160.00
##				
##	X6.29.20	X6.30.20	X7.1.20	X7.2.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.0	Min. : 0.00
##	1st Qu.: 0.00	1st Qu.: 0.00	1st Qu.: 0.0	1st Qu.: 0.00
##	Median : 1.00	Median : 1.00	Median : 1.0	Median : 1.00
##	Mean : 38.02	Mean : 38.19	Mean : 38.4	Mean : 38.61
##	3rd Qu.: 8.00	3rd Qu.: 8.00	3rd Qu.: 8.0	3rd Qu.: 8.00
##	Max. :7165.00	Max. :7120.00	Max. :7126.0	Max. :7129.00
##				
##	X7.3.20	X7.4.20	X7.5.20	X7.6.20
##	Min. : 0.00	Min. : 0.0	Min. : 0	Min. : 0.00
##	1st Qu.: 0.00	1st Qu.: 0.0	1st Qu.: 0	1st Qu.: 0.00
##	Median : 1.00	Median : 1.0	Median : 1	Median : 1.00
##	Mean : 38.81	Mean : 38.9	Mean : 39	Mean : 39.11
##	3rd Qu.: 9.00	3rd Qu.: 9.0	3rd Qu.: 9	3rd Qu.: 9.00
##	Max. :7137.00	Max. :7143.0	Max. :7147	Max. :7151.00
##				
##	X7.7.20	X7.8.20	X7.9.20	X7.10.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.00	Min. : 0.00
##	1st Qu.: 0.00	1st Qu.: 0.00	1st Qu.: 0.00	1st Qu.: 0.00
##	Median : 1.00	Median : 1.00	Median : 1.00	Median : 1.00
##	Mean : 39.46	Mean : 39.71	Mean : 40.01	Mean : 40.26
##	3rd Qu.: 9.00	3rd Qu.: 9.00	3rd Qu.: 9.00	3rd Qu.: 9.00
##	Max. :7156.00	Max. :7163.00	Max. :7169.00	Max. :7173.00
##				
##	X7.11.20	X7.12.20	X7.13.20	X7.14.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.00	Min. : 0.00
##	1st Qu.: 0.00	1st Qu.: 0.00	1st Qu.: 0.00	1st Qu.: 0.00
##	Median : 1.00	Median : 1.00	Median : 1.00	Median : 2.00
##	Mean : 40.48	Mean : 40.62	Mean : 40.75	Mean : 41.03
##	3rd Qu.: 10.00	3rd Qu.: 10.00	3rd Qu.: 10.00	3rd Qu.: 10.00
##	Max. :7176.00	Max. :7180.00	Max. :7182.00	Max. :7186.00
##				
##	X7.15.20	X7.16.20	X7.17.20	X7.18.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.00	Min. : 0.00
##	1st Qu.: 0.00	1st Qu.: 0.00	1st Qu.: 0.00	1st Qu.: 0.00
##	Median : 2.00	Median : 2.00	Median : 2.00	Median : 2.00
##	Mean : 41.32	Mean : 41.61	Mean : 41.88	Mean : 42.14
##	3rd Qu.: 10.00	3rd Qu.: 10.00	3rd Qu.: 11.00	3rd Qu.: 11.00
##	Max. :7190.00	Max. :7193.00	Max. :7195.00	Max. :7201.00
##				
##	X7.19.20	X7.20.20	X7.21.20	X7.22.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.00	Min. : 0.00
##	1st Qu.: 0.00	1st Qu.: 0.00	1st Qu.: 0.00	1st Qu.: 0.00
##	Median : 2.00	Median : 2.00	Median : 2.00	Median : 2.00
##	Mean : 42.28	Mean : 42.45	Mean : 42.78	Mean : 43.14
##	3rd Qu.: 11.00	3rd Qu.: 11.00	3rd Qu.: 11.00	3rd Qu.: 12.00
##	Max. :7205.00	Max. :7209.00	Max. :7213.00	Max. :7214.00

```

##
##      X7.23.20      X7.24.20      X7.25.20      X7.26.20
## Min.   : 0.00    Min.   : 0.0    Min.   : 0.00    Min.   : 0.00
## 1st Qu.: 0.00    1st Qu.: 0.0    1st Qu.: 0.00    1st Qu.: 0.00
## Median : 2.00    Median : 2.0    Median : 2.00    Median : 2.00
## Mean   : 43.46    Mean   : 43.8    Mean   : 44.07    Mean   : 44.23
## 3rd Qu.: 12.00    3rd Qu.: 12.0    3rd Qu.: 12.00    3rd Qu.: 12.00
## Max.   :7221.00    Max.   :7223.0    Max.   :7226.00    Max.   :7229.00
##
##      X7.27.20      X7.28.20      X7.29.20      X7.30.20
## Min.   : 0.00    Min.   : 0.00    Min.   : 0.00    Min.   : 0.00
## 1st Qu.: 0.00    1st Qu.: 0.00    1st Qu.: 0.00    1st Qu.: 0.00
## Median : 2.00    Median : 2.00    Median : 2.00    Median : 2.00
## Mean   : 44.57    Mean   : 44.97    Mean   : 45.39    Mean   : 45.76
## 3rd Qu.: 13.00    3rd Qu.: 13.00    3rd Qu.: 13.00    3rd Qu.: 13.00
## Max.   :7231.00    Max.   :7232.00    Max.   :7233.00    Max.   :7235.00
##
##      X7.31.20      X8.1.20      X8.2.20      X8.3.20
## Min.   : 0.00    Min.   : 0.00    Min.   : 0.00    Min.   : 0.00
## 1st Qu.: 0.00    1st Qu.: 0.00    1st Qu.: 0.00    1st Qu.: 0.00
## Median : 2.00    Median : 2.00    Median : 2.00    Median : 2.00
## Mean   : 46.13    Mean   : 46.45    Mean   : 46.59    Mean   : 46.76
## 3rd Qu.: 14.00    3rd Qu.: 14.00    3rd Qu.: 14.00    3rd Qu.: 14.00
## Max.   :7237.00    Max.   :7240.00    Max.   :7242.00    Max.   :7242.00
##
##      X8.4.20      X8.5.20      X8.6.20      X8.7.20
## Min.   : 0.00    Min.   : 0.00    Min.   : 0.00    Min.   : 0.00
## 1st Qu.: 0.00    1st Qu.: 0.00    1st Qu.: 0.00    1st Qu.: 0.00
## Median : 3.00    Median : 3.00    Median : 3.00    Median : 3.00
## Mean   : 47.14    Mean   : 47.57    Mean   : 47.95    Mean   : 48.32
## 3rd Qu.: 14.00    3rd Qu.: 14.00    3rd Qu.: 15.00    3rd Qu.: 15.00
## Max.   :7244.00    Max.   :7244.00    Max.   :7250.00    Max.   :7247.00
##
##      X8.8.20      X8.9.20      X8.10.20      X8.11.20
## Min.   : 0.00    Min.   : 0.0    Min.   : 0.00    Min.   : 0.00
## 1st Qu.: 0.00    1st Qu.: 0.0    1st Qu.: 0.00    1st Qu.: 0.00
## Median : 3.00    Median : 3.0    Median : 3.00    Median : 3.00
## Mean   : 48.64    Mean   : 48.8    Mean   : 48.99    Mean   : 49.29
## 3rd Qu.: 15.00    3rd Qu.: 15.0    3rd Qu.: 16.00    3rd Qu.: 16.00
## Max.   :7250.00    Max.   :7250.0    Max.   :7252.00    Max.   :7253.00
##
##      X8.12.20      X8.13.20      X8.14.20      X8.15.20
## Min.   : 0.00    Min.   : 0.00    Min.   : 0.00    Min.   : 0.00
## 1st Qu.: 0.00    1st Qu.: 0.00    1st Qu.: 0.00    1st Qu.: 0.00
## Median : 3.00    Median : 3.00    Median : 3.00    Median : 3.00
## Mean   : 49.74    Mean   : 50.06    Mean   : 50.46    Mean   : 50.76
## 3rd Qu.: 16.75    3rd Qu.: 17.00    3rd Qu.: 17.00    3rd Qu.: 17.00
## Max.   :7253.00    Max.   :7255.00    Max.   :7256.00    Max.   :7258.00
##
##      X8.16.20      X8.17.20      X8.18.20      X8.19.20
## Min.   : 0.00    Min.   : 0.00    Min.   : 0.00    Min.   : 0.00
## 1st Qu.: 0.00    1st Qu.: 0.00    1st Qu.: 0.00    1st Qu.: 0.00
## Median : 3.00    Median : 3.00    Median : 3.00    Median : 3.00
## Mean   : 50.94    Mean   : 51.09    Mean   : 51.46    Mean   : 51.86

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##	3rd Qu.: 17.00	3rd Qu.: 18.00	3rd Qu.: 18.00	3rd Qu.: 18.00
##	Max. :7259.00	Max. :7261.00	Max. :7262.00	Max. :7263.00
##				
##	X8.20.20	X8.21.20	X8.22.20	X8.23.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.00	Min. : 0.00
##	1st Qu.: 0.00	1st Qu.: 0.00	1st Qu.: 0.00	1st Qu.: 0.00
##	Median : 3.00	Median : 4.00	Median : 4.00	Median : 4.00
##	Mean : 52.19	Mean : 52.52	Mean : 52.79	Mean : 52.95
##	3rd Qu.: 18.00	3rd Qu.: 19.00	3rd Qu.: 19.00	3rd Qu.: 19.00
##	Max. :7266.00	Max. :7266.00	Max. :7268.00	Max. :7269.00
##				
##	X8.24.20	X8.25.20	X8.26.20	X8.27.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.00	Min. : 0.00
##	1st Qu.: 0.00	1st Qu.: 0.00	1st Qu.: 0.00	1st Qu.: 0.00
##	Median : 4.00	Median : 4.00	Median : 4.00	Median : 4.00
##	Mean : 53.09	Mean : 53.46	Mean : 53.81	Mean : 54.14
##	3rd Qu.: 19.00	3rd Qu.: 20.00	3rd Qu.: 20.00	3rd Qu.: 20.00
##	Max. :7270.00	Max. :7270.00	Max. :7271.00	Max. :7272.00
##				
##	X8.28.20	X8.29.20	X8.30.20	X8.31.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.00	Min. : 0
##	1st Qu.: 0.00	1st Qu.: 0.00	1st Qu.: 0.00	1st Qu.: 0
##	Median : 4.00	Median : 4.00	Median : 4.00	Median : 4
##	Mean : 54.44	Mean : 54.71	Mean : 54.84	Mean : 55
##	3rd Qu.: 20.00	3rd Qu.: 20.00	3rd Qu.: 21.00	3rd Qu.: 21
##	Max. :7273.00	Max. :7274.00	Max. :7276.00	Max. :7290
##				
##	X9.1.20	X9.2.20	X9.3.20	X9.4.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.00	Min. : 0.00
##	1st Qu.: 0.00	1st Qu.: 1.00	1st Qu.: 1.00	1st Qu.: 1.00
##	Median : 4.00	Median : 4.00	Median : 5.00	Median : 5.00
##	Mean : 55.31	Mean : 55.63	Mean : 55.94	Mean : 56.23
##	3rd Qu.: 21.00	3rd Qu.: 21.00	3rd Qu.: 21.00	3rd Qu.: 21.00
##	Max. :7290.00	Max. :7290.00	Max. :7289.00	Max. :7290.00
##				
##	X9.5.20	X9.6.20	X9.7.20	X9.8.20
##	Min. : 0.00	Min. : 0.0	Min. : 0.00	Min. : 0.00
##	1st Qu.: 1.00	1st Qu.: 1.0	1st Qu.: 1.00	1st Qu.: 1.00
##	Median : 5.00	Median : 5.0	Median : 5.00	Median : 5.00
##	Mean : 56.46	Mean : 56.6	Mean : 56.69	Mean : 56.82
##	3rd Qu.: 22.00	3rd Qu.: 22.0	3rd Qu.: 22.00	3rd Qu.: 22.00
##	Max. :7293.00	Max. :7293.0	Max. :7297.00	Max. :7298.00
##				
##	X9.9.20	X9.10.20	X9.11.20	X9.12.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.0	Min. : 0.00
##	1st Qu.: 1.00	1st Qu.: 1.00	1st Qu.: 1.0	1st Qu.: 1.00
##	Median : 5.00	Median : 5.00	Median : 5.0	Median : 5.00
##	Mean : 57.17	Mean : 57.44	Mean : 57.8	Mean : 58.01
##	3rd Qu.: 22.00	3rd Qu.: 23.00	3rd Qu.: 23.0	3rd Qu.: 23.00
##	Max. :7298.00	Max. :7299.00	Max. :7299.0	Max. :7306.00
##				
##	X9.13.20	X9.14.20	X9.15.20	X9.16.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.00	Min. : 0.00
##	1st Qu.: 1.00	1st Qu.: 1.00	1st Qu.: 1.00	1st Qu.: 1.00

##	Median :	5.00	Median :	5.00	Median :	5.00	Median :	5.00
##	Mean :	58.14	Mean :	58.27	Mean :	58.62	Mean :	58.91
##	3rd Qu.:	23.00	3rd Qu.:	23.00	3rd Qu.:	24.00	3rd Qu.:	24.00
##	Max. :	7306.00	Max. :	7306.00	Max. :	7309.00	Max. :	7311.00
##								
##	X9.17.20		X9.18.20		X9.19.20		X9.20.20	
##	Min. :	0.00	Min. :	0.00	Min. :	0.00	Min. :	0.00
##	1st Qu.:	1.00	1st Qu.:	1.00	1st Qu.:	1.00	1st Qu.:	1.00
##	Median :	5.00	Median :	5.00	Median :	5.00	Median :	6.00
##	Mean :	59.17	Mean :	59.44	Mean :	59.66	Mean :	59.73
##	3rd Qu.:	24.00	3rd Qu.:	24.75	3rd Qu.:	25.00	3rd Qu.:	25.00
##	Max. :	7312.00	Max. :	7314.00	Max. :	7315.00	Max. :	7318.00
##								
##	X9.21.20		X9.22.20		X9.23.20		X9.24.20	
##	Min. :	0.00	Min. :	0.00	Min. :	0.00	Min. :	0.00
##	1st Qu.:	1.00	1st Qu.:	1.00	1st Qu.:	1.00	1st Qu.:	1.00
##	Median :	6.00	Median :	6.00	Median :	6.00	Median :	6.00
##	Mean :	59.86	Mean :	60.17	Mean :	60.49	Mean :	60.76
##	3rd Qu.:	25.00	3rd Qu.:	25.00	3rd Qu.:	25.00	3rd Qu.:	25.00
##	Max. :	7318.00	Max. :	7319.00	Max. :	7319.00	Max. :	7321.00
##								
##	X9.25.20		X9.26.20		X9.27.20		X9.28.20	
##	Min. :	0.00	Min. :	0.00	Min. :	0.00	Min. :	0.00
##	1st Qu.:	1.00	1st Qu.:	1.00	1st Qu.:	1.00	1st Qu.:	1.00
##	Median :	6.00	Median :	6.00	Median :	6.00	Median :	6.00
##	Mean :	61.04	Mean :	61.27	Mean :	61.36	Mean :	61.47
##	3rd Qu.:	25.00	3rd Qu.:	26.00	3rd Qu.:	26.00	3rd Qu.:	26.00
##	Max. :	7323.00	Max. :	7323.00	Max. :	7326.00	Max. :	7327.00
##								
##	X9.29.20		X9.30.20		X10.1.20		X10.2.20	
##	Min. :	0.00	Min. :	0.00	Min. :	0.00	Min. :	0.00
##	1st Qu.:	1.00	1st Qu.:	1.00	1st Qu.:	1.00	1st Qu.:	1.00
##	Median :	6.00	Median :	6.00	Median :	6.00	Median :	7.00
##	Mean :	61.72	Mean :	62.01	Mean :	62.27	Mean :	62.52
##	3rd Qu.:	26.00	3rd Qu.:	26.00	3rd Qu.:	27.00	3rd Qu.:	27.00
##	Max. :	7329.00	Max. :	7330.00	Max. :	7329.00	Max. :	7337.00
##								
##	X10.3.20		X10.4.20		X10.5.20		X10.6.20	
##	Min. :	0.00	Min. :	0.00	Min. :	0.00	Min. :	0.00
##	1st Qu.:	1.00	1st Qu.:	1.00	1st Qu.:	1.00	1st Qu.:	1.00
##	Median :	7.00	Median :	7.00	Median :	7.00	Median :	7.00
##	Mean :	62.73	Mean :	62.84	Mean :	62.99	Mean :	63.19
##	3rd Qu.:	27.00	3rd Qu.:	27.00	3rd Qu.:	27.00	3rd Qu.:	27.00
##	Max. :	7338.00	Max. :	7339.00	Max. :	7340.00	Max. :	7342.00
##								
##	X10.7.20		X10.8.20		X10.9.20		X10.10.20	
##	Min. :	0.00	Min. :	0.00	Min. :	0.00	Min. :	0.00
##	1st Qu.:	1.00	1st Qu.:	1.00	1st Qu.:	1.00	1st Qu.:	1.00
##	Median :	7.00	Median :	7.00	Median :	7.00	Median :	7.00
##	Mean :	63.47	Mean :	63.77	Mean :	64.05	Mean :	64.25
##	3rd Qu.:	28.00	3rd Qu.:	28.00	3rd Qu.:	28.00	3rd Qu.:	29.00
##	Max. :	7345.00	Max. :	7346.00	Max. :	7347.00	Max. :	7350.00
##								
##	X10.11.20		X10.12.20		X10.13.20		X10.14.20	

##	Min. : 0.00	Min. : 0.00	Min. : 0.00	Min. : 0.00
##	1st Qu.: 1.00	1st Qu.: 1.00	1st Qu.: 1.00	1st Qu.: 1.00
##	Median : 7.00	Median : 8.00	Median : 8.00	Median : 8.00
##	Mean : 64.39	Mean : 64.51	Mean : 64.75	Mean : 65.04
##	3rd Qu.: 29.00	3rd Qu.: 29.00	3rd Qu.: 29.00	3rd Qu.: 29.00
##	Max. :7352.00	Max. :7353.00	Max. :7355.00	Max. :7356.00
##				
##	X10.15.20	X10.16.20	X10.17.20	X10.18.20
##	Min. : 0.0	Min. : 0.00	Min. : 0.00	Min. : 0.00
##	1st Qu.: 1.0	1st Qu.: 1.00	1st Qu.: 1.00	1st Qu.: 1.00
##	Median : 8.0	Median : 8.00	Median : 8.00	Median : 8.00
##	Mean : 65.3	Mean : 65.58	Mean : 65.81	Mean : 65.95
##	3rd Qu.: 29.0	3rd Qu.: 30.00	3rd Qu.: 30.00	3rd Qu.: 30.00
##	Max. :7361.0	Max. :7365.00	Max. :7366.00	Max. :7370.00
##				
##	X10.19.20	X10.20.20	X10.21.20	X10.22.20
##	Min. : 0.0	Min. : 0.00	Min. : 0.00	Min. : 0.00
##	1st Qu.: 1.0	1st Qu.: 2.00	1st Qu.: 2.00	1st Qu.: 2.00
##	Median : 8.0	Median : 8.00	Median : 9.00	Median : 9.00
##	Mean : 66.1	Mean : 66.38	Mean : 66.71	Mean : 66.98
##	3rd Qu.: 30.0	3rd Qu.: 30.75	3rd Qu.: 31.00	3rd Qu.: 31.00
##	Max. :7372.0	Max. :7373.00	Max. :7374.00	Max. :7376.00
##				
##	X10.23.20	X10.24.20	X10.25.20	X10.26.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.00	Min. : 0.00
##	1st Qu.: 2.00	1st Qu.: 2.00	1st Qu.: 2.00	1st Qu.: 2.00
##	Median : 9.00	Median : 9.00	Median : 9.00	Median : 9.00
##	Mean : 67.27	Mean : 67.56	Mean : 67.69	Mean : 67.86
##	3rd Qu.: 31.00	3rd Qu.: 32.00	3rd Qu.: 32.00	3rd Qu.: 32.00
##	Max. :7381.00	Max. :7382.00	Max. :7383.00	Max. :7385.00
##				
##	X10.27.20	X10.28.20	X10.29.20	X10.30.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.00	Min. : 0.00
##	1st Qu.: 2.00	1st Qu.: 2.00	1st Qu.: 2.00	1st Qu.: 2.00
##	Median : 9.00	Median : 10.00	Median : 10.00	Median : 10.00
##	Mean : 68.15	Mean : 68.45	Mean : 68.76	Mean : 69.07
##	3rd Qu.: 32.00	3rd Qu.: 32.75	3rd Qu.: 33.00	3rd Qu.: 33.00
##	Max. :7387.00	Max. :7390.00	Max. :7393.00	Max. :7400.00
##				
##	X10.31.20	X11.1.20	X11.2.20	X11.3.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.00	Min. : 0.00
##	1st Qu.: 2.00	1st Qu.: 2.00	1st Qu.: 2.00	1st Qu.: 2.00
##	Median : 10.00	Median : 10.00	Median : 10.00	Median : 10.00
##	Mean : 69.34	Mean : 69.49	Mean : 69.67	Mean : 70.14
##	3rd Qu.: 33.00	3rd Qu.: 33.75	3rd Qu.: 34.00	3rd Qu.: 34.00
##	Max. :7400.00	Max. :7404.00	Max. :7406.00	Max. :7409.00
##				
##	X11.4.20	X11.5.20	X11.6.20	X11.7.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.00	Min. : 0.00
##	1st Qu.: 2.00	1st Qu.: 2.00	1st Qu.: 2.00	1st Qu.: 2.00
##	Median : 10.00	Median : 11.00	Median : 11.00	Median : 11.00
##	Mean : 70.47	Mean : 70.82	Mean : 71.19	Mean : 71.51
##	3rd Qu.: 34.75	3rd Qu.: 35.00	3rd Qu.: 35.00	3rd Qu.: 35.00
##	Max. :7414.00	Max. :7417.00	Max. :7425.00	Max. :7429.00

```

##
##      X11.8.20      X11.9.20      X11.10.20      X11.11.20
## Min.   : 0.00   Min.   : 0.00   Min.   : 0.00   Min.   : 0.00
## 1st Qu.: 2.00   1st Qu.: 2.25   1st Qu.: 3.00   1st Qu.: 3.00
## Median : 11.00  Median : 11.00  Median : 11.00  Median : 12.00
## Mean   : 71.68  Mean   : 71.92  Mean   : 72.34  Mean   : 72.77
## 3rd Qu.: 36.00  3rd Qu.: 36.00  3rd Qu.: 36.00  3rd Qu.: 36.00
## Max.   :7434.00 Max.   :7436.00 Max.   :7440.00 Max.   :7441.00
##
##      X11.12.20      X11.13.20      X11.14.20      X11.15.20
## Min.   : 0.00   Min.   : 0.00   Min.   : 0.00   Min.   : 0.00
## 1st Qu.: 3.00   1st Qu.: 3.00   1st Qu.: 3.00   1st Qu.: 3.00
## Median : 12.00  Median : 12.00  Median : 12.00  Median : 13.00
## Mean   : 73.13  Mean   : 73.49  Mean   : 73.89  Mean   : 74.12
## 3rd Qu.: 37.00  3rd Qu.: 37.00  3rd Qu.: 38.00  3rd Qu.: 38.00
## Max.   :7443.00 Max.   :7445.00 Max.   :7450.00 Max.   :7452.00
##
##      X11.16.20      X11.17.20      X11.18.20      X11.19.20
## Min.   : 0.00   Min.   : 0.00   Min.   : 0.00   Min.   : 0.00
## 1st Qu.: 3.00   1st Qu.: 3.00   1st Qu.: 3.00   1st Qu.: 3.00
## Median : 13.00  Median : 13.00  Median : 13.00  Median : 13.00
## Mean   : 74.38  Mean   : 74.89  Mean   : 75.46  Mean   : 76.08
## 3rd Qu.: 38.75  3rd Qu.: 39.00  3rd Qu.: 39.00  3rd Qu.: 40.00
## Max.   :7453.00 Max.   :7455.00 Max.   :7457.00 Max.   :7465.00
##
##      X11.20.20      X11.21.20      X11.22.20      X11.23.20
## Min.   : 0.00   Min.   : 0.00   Min.   : 0.00   Min.   : 0.00
## 1st Qu.: 3.00   1st Qu.: 3.00   1st Qu.: 3.00   1st Qu.: 4.00
## Median : 14.00  Median : 14.00  Median : 14.00  Median : 14.00
## Mean   : 76.67  Mean   : 77.15  Mean   : 77.46  Mean   : 77.79
## 3rd Qu.: 40.75  3rd Qu.: 41.00  3rd Qu.: 41.00  3rd Qu.: 42.00
## Max.   :7472.00 Max.   :7478.00 Max.   :7481.00 Max.   :7485.00
##
##      X11.24.20      X11.25.20      X11.26.20      X11.27.20
## Min.   : 0.00   Min.   : 0.0   Min.   : 0.00   Min.   : 0.00
## 1st Qu.: 4.00   1st Qu.: 4.0   1st Qu.: 4.00   1st Qu.: 4.00
## Median : 14.00  Median : 15.0   Median : 15.00   Median : 15.00
## Mean   : 78.42  Mean   : 79.1   Mean   : 79.52   Mean   : 79.98
## 3rd Qu.: 43.00  3rd Qu.: 43.0   3rd Qu.: 43.00   3rd Qu.: 44.00
## Max.   :7501.00 Max.   :7543.0   Max.   :7580.00   Max.   :7604.00
##
##      X11.28.20      X11.29.20      X11.30.20      X12.1.20
## Min.   : 0.00   Min.   : 0.00   Min.   : 0.0   Min.   : 0.00
## 1st Qu.: 4.00   1st Qu.: 4.00   1st Qu.: 4.0   1st Qu.: 4.00
## Median : 15.00  Median : 15.00  Median : 15.0   Median : 16.00
## Mean   : 80.39  Mean   : 80.70  Mean   : 81.1   Mean   : 81.87
## 3rd Qu.: 44.00  3rd Qu.: 44.75  3rd Qu.: 45.0   3rd Qu.: 45.75
## Max.   :7623.00 Max.   :7639.00 Max.   :7656.0   Max.   :7702.00
##
##      X12.2.20      X12.3.20      X12.4.20      X12.5.20
## Min.   : 0.00   Min.   : 0.00   Min.   : 0.0   Min.   : 0.0
## 1st Qu.: 4.00   1st Qu.: 5.00   1st Qu.: 5.0   1st Qu.: 5.0
## Median : 16.00  Median : 17.00  Median : 17.0   Median : 17.0
## Mean   : 82.71  Mean   : 83.59  Mean   : 84.4   Mean   : 85.1

```


##	3rd Qu.: 46.75	3rd Qu.: 48.00	3rd Qu.: 48.0	3rd Qu.: 49.0
##	Max. :7743.00	Max. :7787.00	Max. :7843.0	Max. :7886.0
##				
##	X12.6.20	X12.7.20	X12.8.20	X12.9.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.00	Min. : 0.00
##	1st Qu.: 5.00	1st Qu.: 5.00	1st Qu.: 5.00	1st Qu.: 5.00
##	Median : 17.00	Median : 18.00	Median : 18.00	Median : 18.00
##	Mean : 85.51	Mean : 85.99	Mean : 86.77	Mean : 87.72
##	3rd Qu.: 49.00	3rd Qu.: 50.00	3rd Qu.: 50.00	3rd Qu.: 51.00
##	Max. :7909.00	Max. :7936.00	Max. :8006.00	Max. :8077.00
##				
##	X12.10.20	X12.11.20	X12.12.20	X12.13.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.00	Min. : 0.00
##	1st Qu.: 5.00	1st Qu.: 6.00	1st Qu.: 6.00	1st Qu.: 6.00
##	Median : 19.00	Median : 19.00	Median : 20.00	Median : 20.00
##	Mean : 88.62	Mean : 89.64	Mean : 90.38	Mean : 90.87
##	3rd Qu.: 52.00	3rd Qu.: 53.00	3rd Qu.: 53.00	3rd Qu.: 54.00
##	Max. :8151.00	Max. :8202.00	Max. :8273.00	Max. :8298.00
##				
##	X12.14.20	X12.15.20	X12.16.20	X12.17.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.0	Min. : 0.00
##	1st Qu.: 6.00	1st Qu.: 6.00	1st Qu.: 6.0	1st Qu.: 6.25
##	Median : 20.00	Median : 20.00	Median : 21.0	Median : 21.00
##	Mean : 91.36	Mean : 92.30	Mean : 93.4	Mean : 94.44
##	3rd Qu.: 54.00	3rd Qu.: 54.75	3rd Qu.: 55.0	3rd Qu.: 56.00
##	Max. :8345.00	Max. :8438.00	Max. :8572.0	Max. :8671.00
##				
##	X12.18.20	X12.19.20	X12.20.20	X12.21.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.00	Min. : 0.00
##	1st Qu.: 7.00	1st Qu.: 7.00	1st Qu.: 7.00	1st Qu.: 7.00
##	Median : 22.00	Median : 22.00	Median : 22.00	Median : 22.00
##	Mean : 95.33	Mean : 96.13	Mean : 96.64	Mean : 97.22
##	3rd Qu.: 57.00	3rd Qu.: 57.00	3rd Qu.: 58.00	3rd Qu.: 58.00
##	Max. :8758.00	Max. :8822.00	Max. :8875.00	Max. :8935.00
##				
##	X12.22.20	X12.23.20	X12.24.20	X12.25.20
##	Min. : 0.00	Min. : 0.00	Min. : 0.0	Min. : 0.0
##	1st Qu.: 7.00	1st Qu.: 7.00	1st Qu.: 7.0	1st Qu.: 7.0
##	Median : 23.00	Median : 23.00	Median : 23.0	Median : 23.0
##	Mean : 98.24	Mean : 99.27	Mean : 100.1	Mean : 100.6
##	3rd Qu.: 59.75	3rd Qu.: 60.00	3rd Qu.: 60.0	3rd Qu.: 61.0
##	Max. :9031.00	Max. :9165.00	Max. :9305.0	Max. :9305.0
##				
##	X12.26.20	X12.27.20	X12.28.20	X12.29.20
##	Min. : 0.00	Min. : 0.0	Min. : 0.0	Min. : 0.0
##	1st Qu.: 8.00	1st Qu.: 8.0	1st Qu.: 8.0	1st Qu.: 8.0
##	Median : 24.00	Median : 24.0	Median : 24.0	Median : 24.0
##	Mean : 101.13	Mean : 101.6	Mean : 102.2	Mean : 103.2
##	3rd Qu.: 61.75	3rd Qu.: 62.0	3rd Qu.: 62.0	3rd Qu.: 63.0
##	Max. :9441.00	Max. :9485.0	Max. :9564.0	Max. :9806.0
##				
##	X12.30.20	X12.31.20	X1.1.21	X1.2.21
##	Min. : 0.0	Min. : 0.0	Min. : 0	Min. : 0.0
##	1st Qu.: 8.0	1st Qu.: 8.0	1st Qu.: 8	1st Qu.: 8.0

##	Median :	25.0	Median :	25.0	Median :	25	Median :	25.0
##	Mean :	104.4	Mean :	105.4	Mean :	106	Mean :	106.8
##	3rd Qu.:	64.0	3rd Qu.:	65.0	3rd Qu.:	65	3rd Qu.:	66.0
##	Max. :	10068.0	Max. :	10359.0	Max. :	10552	Max. :	10688.0
##								
##	X1.3.21		X1.4.21		X1.5.21		X1.6.21	
##	Min. :	0.0	Min. :	0.0	Min. :	0	Min. :	0.0
##	1st Qu.:	8.0	1st Qu.:	8.0	1st Qu.:	8	1st Qu.:	9.0
##	Median :	26.0	Median :	26.0	Median :	26	Median :	27.0
##	Mean :	107.2	Mean :	107.9	Mean :	109	Mean :	110.1
##	3rd Qu.:	66.0	3rd Qu.:	66.0	3rd Qu.:	67	3rd Qu.:	68.0
##	Max. :	10773.0	Max. :	10852.0	Max. :	11089	Max. :	11349.0
##								
##	X1.7.21		X1.8.21		X1.9.21		X1.10.21	
##	Min. :	0.0	Min. :	0.00	Min. :	0.0	Min. :	0.0
##	1st Qu.:	9.0	1st Qu.:	9.00	1st Qu.:	9.0	1st Qu.:	9.0
##	Median :	27.0	Median :	27.00	Median :	28.0	Median :	28.0
##	Mean :	111.3	Mean :	112.57	Mean :	113.6	Mean :	114.2
##	3rd Qu.:	69.0	3rd Qu.:	69.75	3rd Qu.:	70.0	3rd Qu.:	71.0
##	Max. :	11554.0	Max. :	11863.00	Max. :	12090.0	Max. :	12252.0
##								
##	X1.11.21		X1.12.21		X1.13.21		X1.14.21	
##	Min. :	0.0	Min. :	0.0	Min. :	0.0	Min. :	0.0
##	1st Qu.:	9.0	1st Qu.:	9.0	1st Qu.:	9.0	1st Qu.:	9.0
##	Median :	28.0	Median :	29.0	Median :	29.0	Median :	29.0
##	Mean :	114.8	Mean :	116.1	Mean :	117.3	Mean :	118.5
##	3rd Qu.:	71.0	3rd Qu.:	71.0	3rd Qu.:	73.0	3rd Qu.:	74.0
##	Max. :	12388.0	Max. :	12706.0	Max. :	12972.0	Max. :	13244.0
##								
##	X1.15.21		X1.16.21		X1.17.21		X1.18.21	
##	Min. :	0.0	Min. :	0.0	Min. :	0.0	Min. :	0.00
##	1st Qu.:	10.0	1st Qu.:	10.0	1st Qu.:	10.0	1st Qu.:	10.00
##	Median :	30.0	Median :	30.0	Median :	30.0	Median :	30.00
##	Mean :	119.7	Mean :	120.7	Mean :	121.3	Mean :	121.74
##	3rd Qu.:	74.0	3rd Qu.:	75.0	3rd Qu.:	75.0	3rd Qu.:	75.75
##	Max. :	13504.0	Max. :	13757.0	Max. :	13848.0	Max. :	13937.00
##								
##	X1.19.21		X1.20.21		X1.21.21		X1.22.21	
##	Min. :	0.0	Min. :	0.0	Min. :	0.0	Min. :	0.0
##	1st Qu.:	10.0	1st Qu.:	10.0	1st Qu.:	10.0	1st Qu.:	10.0
##	Median :	30.0	Median :	31.0	Median :	31.0	Median :	31.5
##	Mean :	122.6	Mean :	123.9	Mean :	125.1	Mean :	126.3
##	3rd Qu.:	76.0	3rd Qu.:	78.0	3rd Qu.:	78.0	3rd Qu.:	79.0
##	Max. :	14122.0	Max. :	14416.0	Max. :	14662.0	Max. :	14894.0
##								
##	X1.23.21		X1.24.21		X1.25.21		X1.26.21	
##	Min. :	0.0	Min. :	0.0	Min. :	0.0	Min. :	0.0
##	1st Qu.:	10.0	1st Qu.:	10.0	1st Qu.:	10.0	1st Qu.:	11.0
##	Median :	32.0	Median :	32.0	Median :	32.0	Median :	32.0
##	Mean :	127.3	Mean :	127.9	Mean :	128.4	Mean :	129.6
##	3rd Qu.:	80.0	3rd Qu.:	80.0	3rd Qu.:	80.0	3rd Qu.:	81.0
##	Max. :	15184.0	Max. :	15262.0	Max. :	15314.0	Max. :	15614.0
##								
##	X1.27.21		X1.28.21		X1.29.21		X1.30.21	

```

## Min. : 0.0 Min. : 0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 11.0 1st Qu.: 11 1st Qu.: 11.0 1st Qu.: 11.0
## Median : 33.0 Median : 33 Median : 33.0 Median : 34.0
## Mean : 130.8 Mean : 132 Mean : 133.1 Mean : 133.9
## 3rd Qu.: 82.0 3rd Qu.: 83 3rd Qu.: 83.0 3rd Qu.: 84.0
## Max. :15897.0 Max. :16127 Max. :16353.0 Max. :16652.0
##
## X1.31.21 X2.1.21 X2.2.21 X2.3.21
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 11.0 1st Qu.: 11.0 1st Qu.: 11.0 1st Qu.: 11.0
## Median : 34.0 Median : 34.0 Median : 34.0 Median : 35.0
## Mean : 134.5 Mean : 135.1 Mean : 136.1 Mean : 137.3
## 3rd Qu.: 84.0 3rd Qu.: 84.0 3rd Qu.: 85.0 3rd Qu.: 86.0
## Max. :16770.0 Max. :16857.0 Max. :17077.0 Max. :17324.0
##
## X2.4.21 X2.5.21 X2.6.21 X2.7.21
## Min. : 0.0 Min. : 0.00 Min. : 0.0 Min. : 0.0
## 1st Qu.: 11.0 1st Qu.: 12.00 1st Qu.: 12.0 1st Qu.: 12.0
## Median : 35.0 Median : 35.00 Median : 36.0 Median : 36.0
## Mean : 138.4 Mean : 139.54 Mean : 140.3 Mean : 140.8
## 3rd Qu.: 87.0 3rd Qu.: 87.75 3rd Qu.: 88.0 3rd Qu.: 88.0
## Max. :17555.0 Max. :17772.00 Max. :17959.0 Max. :18047.0
##
## X2.8.21 X2.9.21 X2.10.21 X2.11.21
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 12.0 1st Qu.: 12.0 1st Qu.: 12.0 1st Qu.: 12.0
## Median : 36.0 Median : 36.0 Median : 37.0 Median : 37.0
## Mean : 141.2 Mean : 142.2 Mean : 143.2 Mean : 144.1
## 3rd Qu.: 88.0 3rd Qu.: 88.0 3rd Qu.: 89.0 3rd Qu.: 90.0
## Max. :18146.0 Max. :18367.0 Max. :18519.0 Max. :18678.0
##
## X2.12.21 X2.13.21 X2.14.21 X2.15.21
## Min. : 0 Min. : 0.0 Min. : 0 Min. : 0.0
## 1st Qu.: 12 1st Qu.: 12.0 1st Qu.: 12 1st Qu.: 12.0
## Median : 37 Median : 37.0 Median : 37 Median : 37.0
## Mean : 145 Mean : 145.6 Mean : 146 Mean : 146.3
## 3rd Qu.: 90 3rd Qu.: 91.0 3rd Qu.: 91 3rd Qu.: 91.0
## Max. :18804 Max. :18993.0 Max. :19068 Max. :19095.0
##
## X2.16.21 X2.17.21 X2.18.21 X2.19.21
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 12.0 1st Qu.: 12.0 1st Qu.: 12.0 1st Qu.: 12.0
## Median : 38.0 Median : 38.0 Median : 38.0 Median : 38.0
## Mean : 146.8 Mean : 147.5 Mean : 148.3 Mean : 149.1
## 3rd Qu.: 92.0 3rd Qu.: 92.0 3rd Qu.: 92.0 3rd Qu.: 93.0
## Max. :19216.0 Max. :19381.0 Max. :19514.0 Max. :19670.0
##
## X2.20.21 X2.21.21 X2.22.21 X2.23.21
## Min. : 0.0 Min. : 0 Min. : 0.00 Min. : 0.0
## 1st Qu.: 12.0 1st Qu.: 12 1st Qu.: 12.25 1st Qu.: 13.0
## Median : 38.0 Median : 38 Median : 38.00 Median : 38.0
## Mean : 149.6 Mean : 150 Mean : 150.38 Mean : 151.1
## 3rd Qu.: 93.0 3rd Qu.: 94 3rd Qu.: 94.00 3rd Qu.: 94.0
## Max. :19801.0 Max. :19885 Max. :19906.00 Max. :20069.0

```

```

##
##      X2.24.21      X2.25.21      X2.26.21      X2.27.21
## Min.   :    0   Min.   :    0.0   Min.   :    0.0   Min.   :    0.0
## 1st Qu.:   13   1st Qu.:   13.0   1st Qu.:   13.0   1st Qu.:   13.0
## Median :   38   Median :   39.0   Median :   39.0   Median :   39.0
## Mean   :  152   Mean   :  152.7   Mean   :  153.4   Mean   :  153.8
## 3rd Qu.:   95   3rd Qu.:   95.0   3rd Qu.:   95.0   3rd Qu.:   96.0
## Max.   :20997   Max.   :21106.0   Max.   :21241.0   Max.   :21328.0
##
##      X2.28.21      X3.1.21      X3.2.21      X3.3.21
## Min.   :    0.0   Min.   :    0.0   Min.   :    0.0   Min.   :    0.00
## 1st Qu.:   13.0   1st Qu.:   13.0   1st Qu.:   13.0   1st Qu.:   13.00
## Median :   39.0   Median :   39.0   Median :   39.0   Median :   39.50
## Mean   :  154.1   Mean   :  154.6   Mean   :  155.2   Mean   :  155.92
## 3rd Qu.:   96.0   3rd Qu.:   96.0   3rd Qu.:   96.0   3rd Qu.:   96.75
## Max.   :21435.0   Max.   :21467.0   Max.   :21569.0   Max.   :21676.00
##
##      X3.4.21      X3.5.21      X3.6.21      X3.7.21
## Min.   :    0.0   Min.   :    0.00   Min.   :    0.0   Min.   :    0.0
## 1st Qu.:   13.0   1st Qu.:   13.00   1st Qu.:   14.0   1st Qu.:   14.0
## Median :   40.0   Median :   40.00   Median :   40.0   Median :   40.0
## Mean   :  156.5   Mean   :  157.03   Mean   :  157.5   Mean   :  157.7
## 3rd Qu.:   97.0   3rd Qu.:   97.75   3rd Qu.:   98.0   3rd Qu.:   98.0
## Max.   :21780.0   Max.   :21916.00   Max.   :22015.0   Max.   :22029.0
##
##      X3.8.21      X3.9.21      X3.10.21      X3.11.21
## Min.   :    0.0   Min.   :    0.00   Min.   :    0.0   Min.   :    0.0
## 1st Qu.:   14.0   1st Qu.:   14.00   1st Qu.:   14.0   1st Qu.:   14.0
## Median :   40.0   Median :   40.00   Median :   40.0   Median :   40.0
## Mean   :  157.9   Mean   :  158.46   Mean   :  158.9   Mean   :  159.4
## 3rd Qu.:   98.0   3rd Qu.:   98.75   3rd Qu.:   99.0   3rd Qu.:   99.0
## Max.   :22041.0   Max.   :22104.00   Max.   :22216.0   Max.   :22319.0
##
##      X3.12.21      X3.13.21      X3.14.21      X3.15.21
## Min.   :    0.0   Min.   :    0.0   Min.   :    0.0   Min.   :    0.0
## 1st Qu.:   14.0   1st Qu.:   14.0   1st Qu.:   14.0   1st Qu.:   14.0
## Median :   41.0   Median :   41.0   Median :   41.0   Median :   41.0
## Mean   :  159.9   Mean   :  160.2   Mean   :  160.3   Mean   :  160.6
## 3rd Qu.:  100.0   3rd Qu.:  100.0   3rd Qu.:  100.0   3rd Qu.:  100.0
## Max.   :22407.0   Max.   :22449.0   Max.   :22474.0   Max.   :22476.0
##
##      X3.16.21      X3.17.21      X3.18.21      X3.19.21
## Min.   :    0.0   Min.   :    0.0   Min.   :    0.0   Min.   :    0.0
## 1st Qu.:   14.0   1st Qu.:   14.0   1st Qu.:   14.0   1st Qu.:   14.0
## Median :   41.0   Median :   41.0   Median :   41.0   Median :   41.0
## Mean   :  160.9   Mean   :  161.3   Mean   :  161.8   Mean   :  162.1
## 3rd Qu.:  100.0   3rd Qu.:  100.0   3rd Qu.:  100.8   3rd Qu.:  101.0
## Max.   :22521.0   Max.   :22581.0   Max.   :22666.0   Max.   :22722.0
##
##      X3.20.21      X3.21.21      X3.22.21      X3.23.21
## Min.   :    0.0   Min.   :    0.0   Min.   :    0.0   Min.   :    0
## 1st Qu.:   14.0   1st Qu.:   14.0   1st Qu.:   14.0   1st Qu.:   14
## Median :   41.0   Median :   41.0   Median :   41.0   Median :   41
## Mean   :  162.4   Mean   :  162.5   Mean   :  162.7   Mean   :  163

```

```

## 3rd Qu.: 101.0 3rd Qu.: 101.0 3rd Qu.: 101.0 3rd Qu.: 101
## Max. :22778.0 Max. :22797.0 Max. :22815.0 Max. :22879
##
## X3.24.21 X3.25.21 X3.26.21 X3.27.21
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 14.0 1st Qu.: 14.0 1st Qu.: 14.0 1st Qu.: 14.0
## Median : 41.0 Median : 41.0 Median : 41.0 Median : 42.0
## Mean : 163.4 Mean : 163.8 Mean : 164.2 Mean : 164.4
## 3rd Qu.: 101.0 3rd Qu.: 101.0 3rd Qu.: 101.8 3rd Qu.: 101.8
## Max. :22965.0 Max. :23022.0 Max. :23056.0 Max. :23080.0
##
## X3.28.21 X3.29.21 X3.30.21 X3.31.21
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 14.0 1st Qu.: 14.0 1st Qu.: 14.0 1st Qu.: 14.0
## Median : 42.0 Median : 42.0 Median : 42.0 Median : 42.0
## Mean : 164.6 Mean : 164.8 Mean : 165.1 Mean : 165.4
## 3rd Qu.: 101.8 3rd Qu.: 102.0 3rd Qu.: 102.0 3rd Qu.: 102.0
## Max. :23103.0 Max. :23101.0 Max. :23111.0 Max. :23144.0
##
## X4.1.21 X4.2.21 X4.3.21 X4.4.21
## Min. : 0.0 Min. : 0 Min. : 0.0 Min. : 0.00
## 1st Qu.: 14.0 1st Qu.: 14 1st Qu.: 14.0 1st Qu.: 14.25
## Median : 42.0 Median : 42 Median : 42.0 Median : 42.00
## Mean : 165.7 Mean : 166 Mean : 166.2 Mean : 166.29
## 3rd Qu.: 102.0 3rd Qu.: 102 3rd Qu.: 102.0 3rd Qu.: 102.00
## Max. :23191.0 Max. :23236 Max. :23264.0 Max. :23301.00
##
## X4.5.21 X4.6.21 X4.7.21 X4.8.21
## Min. : 0.00 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 14.25 1st Qu.: 15.0 1st Qu.: 15.0 1st Qu.: 15.0
## Median : 42.00 Median : 42.0 Median : 42.0 Median : 42.5
## Mean : 166.45 Mean : 166.7 Mean : 167.5 Mean : 167.8
## 3rd Qu.: 102.00 3rd Qu.: 102.8 3rd Qu.: 105.0 3rd Qu.: 105.0
## Max. :23301.00 Max. :23302.0 Max. :23344.0 Max. :23390.0
##
## X4.9.21 X4.10.21 X4.11.21 X4.12.21
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 15.0 1st Qu.: 15.0 1st Qu.: 15.0 1st Qu.: 15.0
## Median : 43.0 Median : 43.0 Median : 43.0 Median : 43.0
## Mean : 168.1 Mean : 168.3 Mean : 168.4 Mean : 168.5
## 3rd Qu.: 105.0 3rd Qu.: 105.0 3rd Qu.: 105.0 3rd Qu.: 105.0
## Max. :23431.0 Max. :23467.0 Max. :23493.0 Max. :23503.0
##
## X4.13.21 X4.14.21 X4.15.21 X4.16.21
## Min. : 0.0 Min. : 0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 15.0 1st Qu.: 15 1st Qu.: 15.0 1st Qu.: 15.0
## Median : 43.0 Median : 43 Median : 43.0 Median : 43.0
## Mean : 168.8 Mean : 169 Mean : 169.3 Mean : 169.6
## 3rd Qu.: 105.0 3rd Qu.: 105 3rd Qu.: 105.0 3rd Qu.: 106.0
## Max. :23505.0 Max. :23553 Max. :23579.0 Max. :23601.0
##
## X4.17.21 X4.18.21 X4.19.21 X4.20.21
## Min. : 0.0 Min. : 0.0 Min. : 0 Min. : 0.0
## 1st Qu.: 15.0 1st Qu.: 15.0 1st Qu.: 15 1st Qu.: 15.0

```

##	Median :	43.0	Median :	43.0	Median :	43	Median :	43.0
##	Mean :	169.8	Mean :	169.9	Mean :	170	Mean :	170.3
##	3rd Qu.:	106.0	3rd Qu.:	106.0	3rd Qu.:	106	3rd Qu.:	106.0
##	Max. :	23628.0	Max. :	23653.0	Max. :	23648	Max. :	23668.0
##								
##	X4.21.21		X4.22.21		X4.23.21		X4.24.21	
##	Min. :	0.0	Min. :	0.0	Min. :	0.0	Min. :	0.0
##	1st Qu.:	15.0	1st Qu.:	15.0	1st Qu.:	15.0	1st Qu.:	15.0
##	Median :	43.0	Median :	43.0	Median :	43.0	Median :	43.0
##	Mean :	170.5	Mean :	170.8	Mean :	171.1	Mean :	171.3
##	3rd Qu.:	106.0	3rd Qu.:	106.0	3rd Qu.:	106.8	3rd Qu.:	106.8
##	Max. :	23702.0	Max. :	23736.0	Max. :	23762.0	Max. :	23785.0
##								
##	X4.25.21		X4.26.21		X4.27.21		X4.28.21	
##	Min. :	0.0	Min. :	0.0	Min. :	0.0	Min. :	0.0
##	1st Qu.:	15.0	1st Qu.:	15.0	1st Qu.:	15.0	1st Qu.:	15.0
##	Median :	43.0	Median :	43.0	Median :	43.0	Median :	43.5
##	Mean :	171.4	Mean :	171.5	Mean :	171.7	Mean :	172.0
##	3rd Qu.:	107.0	3rd Qu.:	107.0	3rd Qu.:	107.0	3rd Qu.:	107.0
##	Max. :	23802.0	Max. :	23799.0	Max. :	23804.0	Max. :	23833.0
##								
##	X4.29.21		X4.30.21		X5.1.21		X5.2.21	
##	Min. :	0.0	Min. :	0.0	Min. :	0.0	Min. :	0.0
##	1st Qu.:	15.0	1st Qu.:	15.0	1st Qu.:	15.0	1st Qu.:	15.0
##	Median :	44.0	Median :	44.0	Median :	44.0	Median :	44.0
##	Mean :	172.3	Mean :	172.5	Mean :	172.7	Mean :	172.8
##	3rd Qu.:	107.0	3rd Qu.:	107.0	3rd Qu.:	107.0	3rd Qu.:	107.0
##	Max. :	23872.0	Max. :	23899.0	Max. :	23919.0	Max. :	23946.0
##								
##	X5.3.21		X5.4.21		X5.5.21		X5.6.21	
##	Min. :	0	Min. :	0.0	Min. :	0.0	Min. :	0.0
##	1st Qu.:	15	1st Qu.:	15.0	1st Qu.:	15.0	1st Qu.:	15.0
##	Median :	44	Median :	44.0	Median :	44.0	Median :	44.0
##	Mean :	173	Mean :	173.2	Mean :	173.5	Mean :	173.7
##	3rd Qu.:	107	3rd Qu.:	107.8	3rd Qu.:	107.8	3rd Qu.:	107.8
##	Max. :	23943	Max. :	23942.0	Max. :	23957.0	Max. :	23977.0
##								
##	X5.7.21		X5.8.21		X5.9.21		X5.10.21	
##	Min. :	0.0	Min. :	0.0	Min. :	0.0	Min. :	0.0
##	1st Qu.:	15.0	1st Qu.:	15.0	1st Qu.:	15.0	1st Qu.:	15.0
##	Median :	44.0	Median :	44.0	Median :	44.0	Median :	44.0
##	Mean :	173.9	Mean :	174.1	Mean :	174.2	Mean :	174.3
##	3rd Qu.:	108.0	3rd Qu.:	108.0	3rd Qu.:	108.0	3rd Qu.:	108.0
##	Max. :	23991.0	Max. :	24008.0	Max. :	24022.0	Max. :	24026.0
##								
##	X5.11.21		X5.12.21		X5.13.21		X5.14.21	
##	Min. :	0.0	Min. :	0.0	Min. :	0	Min. :	0.0
##	1st Qu.:	15.0	1st Qu.:	15.0	1st Qu.:	15	1st Qu.:	15.0
##	Median :	44.0	Median :	44.0	Median :	44	Median :	44.5
##	Mean :	174.5	Mean :	174.8	Mean :	175	Mean :	175.2
##	3rd Qu.:	108.0	3rd Qu.:	109.0	3rd Qu.:	109	3rd Qu.:	109.0
##	Max. :	24030.0	Max. :	24048.0	Max. :	24067	Max. :	24083.0
##								
##	X5.15.21		X5.16.21		X5.17.21		X5.18.21	

```

## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 15.0 1st Qu.: 15.0 1st Qu.: 15.0 1st Qu.: 15.0
## Median : 45.0 Median : 44.5 Median : 45.0 Median : 45.0
## Mean : 175.4 Mean : 175.4 Mean : 175.6 Mean : 175.8
## 3rd Qu.: 109.0 3rd Qu.: 109.0 3rd Qu.: 109.0 3rd Qu.: 109.0
## Max. :24101.0 Max. :24115.0 Max. :24120.0 Max. :24123.0
##
## X5.19.21 X5.20.21 X5.21.21 X5.22.21
## Min. : 0.00 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 15.25 1st Qu.: 16.0 1st Qu.: 16.0 1st Qu.: 16.0
## Median : 45.00 Median : 45.0 Median : 45.0 Median : 45.0
## Mean : 175.98 Mean : 176.2 Mean : 176.4 Mean : 176.5
## 3rd Qu.: 110.00 3rd Qu.: 110.0 3rd Qu.: 110.0 3rd Qu.: 110.0
## Max. :24133.00 Max. :24143.0 Max. :24168.0 Max. :24180.0
##
## X5.23.21 X5.24.21 X5.25.21 X5.26.21
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 16.0 1st Qu.: 16.0 1st Qu.: 16.0 1st Qu.: 16.0
## Median : 45.0 Median : 45.0 Median : 45.0 Median : 45.0
## Mean : 176.6 Mean : 176.7 Mean : 176.9 Mean : 177.2
## 3rd Qu.: 110.0 3rd Qu.: 110.0 3rd Qu.: 110.0 3rd Qu.: 110.0
## Max. :24192.0 Max. :24197.0 Max. :24201.0 Max. :24212.0
##
## X5.27.21 X5.28.21 X5.29.21 X5.30.21
## Min. : 0.0 Min. : 0.0 Min. : 0.0 Min. : 0.0
## 1st Qu.: 16.0 1st Qu.: 16.0 1st Qu.: 16.0 1st Qu.: 16.0
## Median : 45.0 Median : 45.0 Median : 45.0 Median : 45.0
## Mean : 177.6 Mean : 177.7 Mean : 177.8 Mean : 177.9
## 3rd Qu.: 110.0 3rd Qu.: 110.0 3rd Qu.: 110.0 3rd Qu.: 110.0
## Max. :24323.0 Max. :24348.0 Max. :24357.0 Max. :24359.0
##
## X5.31.21 X6.1.21
## Min. : 0.0 Min. : 0.0
## 1st Qu.: 16.0 1st Qu.: 16.0
## Median : 45.0 Median : 45.0
## Mean : 177.9 Mean : 178.1
## 3rd Qu.: 110.0 3rd Qu.: 111.0
## Max. :24360.0 Max. :24364.0
##

```

```
summary(US_cases)
```

```

## Admin2 Province_State Country_Region Date
## Length:1660974 Length:1660974 Length:1660974 Min. :2020-01-22
## Class :character Class :character Class :character 1st Qu.:2020-05-25
## Mode :character Mode :character Mode :character Median :2020-09-26
## Mean :2020-09-26
## 3rd Qu.:2021-01-28
## Max. :2021-06-01
##
## Cases
## Min. : 0
## 1st Qu.: 12
## Median : 341
## Mean : 3702

```

```
## 3rd Qu.: 1860
## Max. :1244170
```

```
summary(US_deaths)
```

```
##      Admin2      Province_State      Country_Region      Population
## Length:1660974 Length:1660974 Length:1660974 Min. : 0
## Class :character Class :character Class :character 1st Qu.: 9917
## Mode :character Mode :character Mode :character Median : 24892
##                                         Mean : 99604
##                                         3rd Qu.: 64979
##                                         Max. :10039107
##      Date      Deaths
## Min. :2020-01-22 Min. : 0.00
## 1st Qu.:2020-05-25 1st Qu.: 0.00
## Median :2020-09-26 Median : 5.00
## Mean :2020-09-26 Mean : 75.51
## 3rd Qu.:2021-01-28 3rd Qu.: 37.00
## Max. :2021-06-01 Max. :24364.00
```

```
summary(US_combined)
```

```
##      Admin2      Province_State      Country_Region      Date
## Length:1660974 Length:1660974 Length:1660974 Min. :2020-01-22
## Class :character Class :character Class :character 1st Qu.:2020-05-25
## Mode :character Mode :character Mode :character Median :2020-09-26
##                                         Mean :2020-09-26
##                                         3rd Qu.:2021-01-28
##                                         Max. :2021-06-01
##      Cases      Population      Deaths
## Min. : 0 Min. : 0 Min. : 0.00
## 1st Qu.: 12 1st Qu.: 9917 1st Qu.: 0.00
## Median : 341 Median : 24892 Median : 5.00
## Mean : 3702 Mean : 99604 Mean : 75.51
## 3rd Qu.: 1860 3rd Qu.: 64979 3rd Qu.: 37.00
## Max. :1244170 Max. :10039107 Max. :24364.00
```

```
sessionInfo()
```

```
## R version 4.0.4 (2021-02-15)
## Platform: x86_64-apple-darwin17.0 (64-bit)
## Running under: macOS Mojave 10.14.6
##
## Matrix products: default
## BLAS: /Library/Frameworks/R.framework/Versions/4.0/Resources/lib/libRblas.dylib
## LAPACK: /Library/Frameworks/R.framework/Versions/4.0/Resources/lib/libRlapack.dylib
##
## locale:
## [1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8
##
## attached base packages:
## [1] stats graphics grDevices utils datasets methods base
```



```
##
## other attached packages:
## [1] lubridate_1.7.10 forcats_0.5.1    stringr_1.4.0    dplyr_1.0.5
## [5] purrr_0.3.4      readr_1.4.0      tidyr_1.1.3      tibble_3.1.0
## [9] ggplot2_3.3.3    tidyverse_1.3.1
##
## loaded via a namespace (and not attached):
## [1] tidymodels_1.1.0 xfun_0.22        lattice_0.20-41  splines_4.0.4
## [5] haven_2.4.1       colorspace_2.0-0 vctrs_0.3.6      generics_0.1.0
## [9] htmltools_0.5.1.1 mgcv_1.8-33      yaml_2.2.1       utf8_1.2.1
## [13] rlang_0.4.10      pillar_1.6.0     glue_1.4.2       withr_2.4.1
## [17] DBI_1.1.1         dbplyr_2.1.1     modelr_0.1.8     readxl_1.3.1
## [21] lifecycle_1.0.0   munsell_0.5.0    gtable_0.3.0     cellranger_1.1.0
## [25] rvest_1.0.0       evaluate_0.14     labeling_0.4.2   knitr_1.31
## [29] fansi_0.4.2       highr_0.8         broom_0.7.6      Rcpp_1.0.6
## [33] scales_1.1.1      backports_1.2.1  jsonlite_1.7.2   farver_2.1.0
## [37] fs_1.5.0          hms_1.0.0        digest_0.6.27    stringi_1.5.3
## [41] grid_4.0.4        cli_2.5.0         tools_4.0.4      magrittr_2.0.1
## [45] crayon_1.4.1      pkgconfig_2.0.3  Matrix_1.3-2     ellipsis_0.3.1
## [49] xml2_1.3.2        reprex_2.0.0     assertthat_0.2.1 rmarkdown_2.7
## [53] httr_1.4.2        rstudioapi_0.13  R6_2.5.0         nlme_3.1-152
## [57] compiler_4.0.4
```