

# HTML Doc

# Analysis Setup Analysis Import Our Vaccine Provider and Supply Data Transform our Vaccine Data Visualize our Vaccine Data Export our Transformed Dataset and

Regression Example

Visualization

Bonus

Regresssion Table

Regression Chart

Regression Equation

# Analyzing Vaccine Supply in Texas

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The LBJ School of Public Affairs

2021-03-29

### **Analysis Setup**

Before we start building out our reproducible analysis, let's go ahead and make sure any R packages are loaded and installed properly. The code to install necessary packages and load them can be viewed by clicking on the "Show Code" arrow.

```
knitr::opta_chunksset(warning = FALSE, message = FALSE)

# In case these aren't installed, uncomment this and run it.

# install.packages("janitor", "tidyverse", "gt")

# devtools::install_github("utexas=lbjp=data/lbjdata")

library(janitor)  # rackage with useful + convenient data cleaning functions
library(tidyverse)  # Core set of R Data Science Tools (dplyr, ggplot2, tidyr, readr, etc.)
```

# Analysis

# Import Our Vaccine Provider and Supply Data

This data comes from the Texas Department of State Health Services and contains the list of vaccine providers across the state of Texas, which can be found on this page. They use it for their own interactive mapping application of vaccine provider sites. Each provider is assigned a type and has a report of how much vaccine supply they have for each of the three approved vaccines. We'll use the read\_esv() function to read in the data straight from the DSHS website. This will help make sure our analysis is "living", meaning any chart we make will update whenever the feed from DSHS gets updated, and "reproducible", meaning anyone who takes this R Markdown document can run it in their RStudio IDE and get the exact same thing you did.

The read\_csv() comes from the readr package that was loaded when we ran library(tidyverse) in the setup chunk above (lines 18:30 in the RMarkdown document).

```
provider_data_raw <- readr::read_csv('https://genesis.soc.texas.gov/files/accessibility/vaccineprovideraccessi
bilitydata.csv') %>%
  janitor::clean_names() # This function makes column headers machine readable

dplyr::glimpse(provider_data_raw) # glimpse() lets you preview a data object
```

```
## Rows: 3,381
## Columns: 17
```

# PDF Doc

## Analyzing Vaccine Supply in Texas

true

2021-03-29

### Analysis Setup

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knitr::opts_chunk$set(varning = FALSE, message = FALSE)
# In case these aren't installed, uncomment this and run it.
# install.packages("janitor", "tidyverse", "gt")
# devtools::install_github("utexas-lbjp-data/lbjdata")

library(janitor)  # Package with useful + convenient data cleaning functions
library(tidyverse)  # Core Set of R Data Science Tools (dplyr, ggplot2, tidyr, readr, etc.)
```

#### Analysis

#### Import Our Vaccine Provider and Supply Data

This data comes from the Texas Department of State Health Services and contains the list of vaccine providers across the state of Texas, which can be found on this page. They use it for their own interactive mapping application of vaccine provider sites.<sup>1</sup> Each provider is assigned a type and has a report of how much vaccine supply they have for each of the three approved vaccines. We'll use the read\_csv() function to read in the data straight from the DSHS website. This will help make sure our analysis is "living", meaning any chart we make will update whenever the feed from DSHS gets updated, and "reproducible", meaning anyone who takes this R Markdown document can run it in their RStudio IDE and get the exact same thing you did.

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janitor::clean\_names() # This function makes column headers machine readable</pre>

dplyr::glimpse(provider\_data\_raw) # glimpse() lets you preview a data object

1

<sup>&</sup>lt;sup>1</sup>The link for this map is google.com