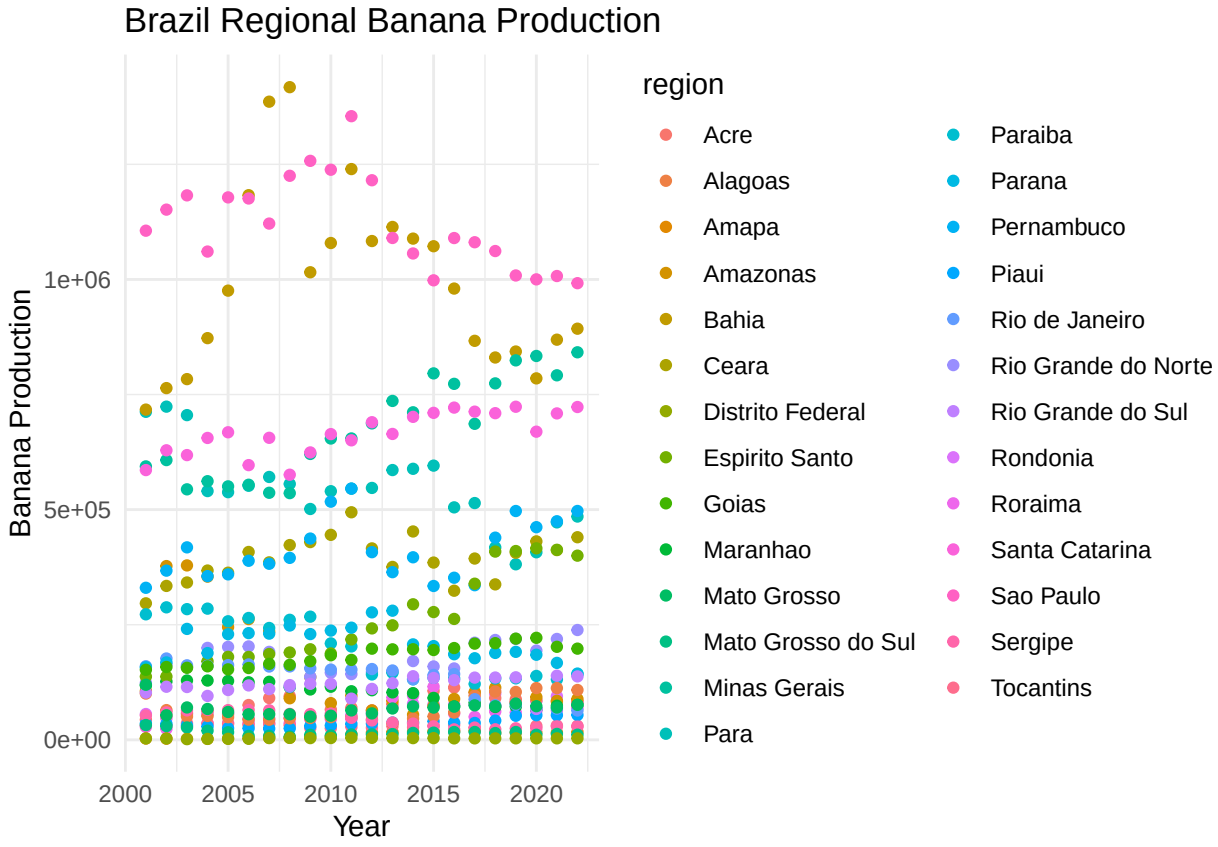
Banana Graphs

2025-11-08

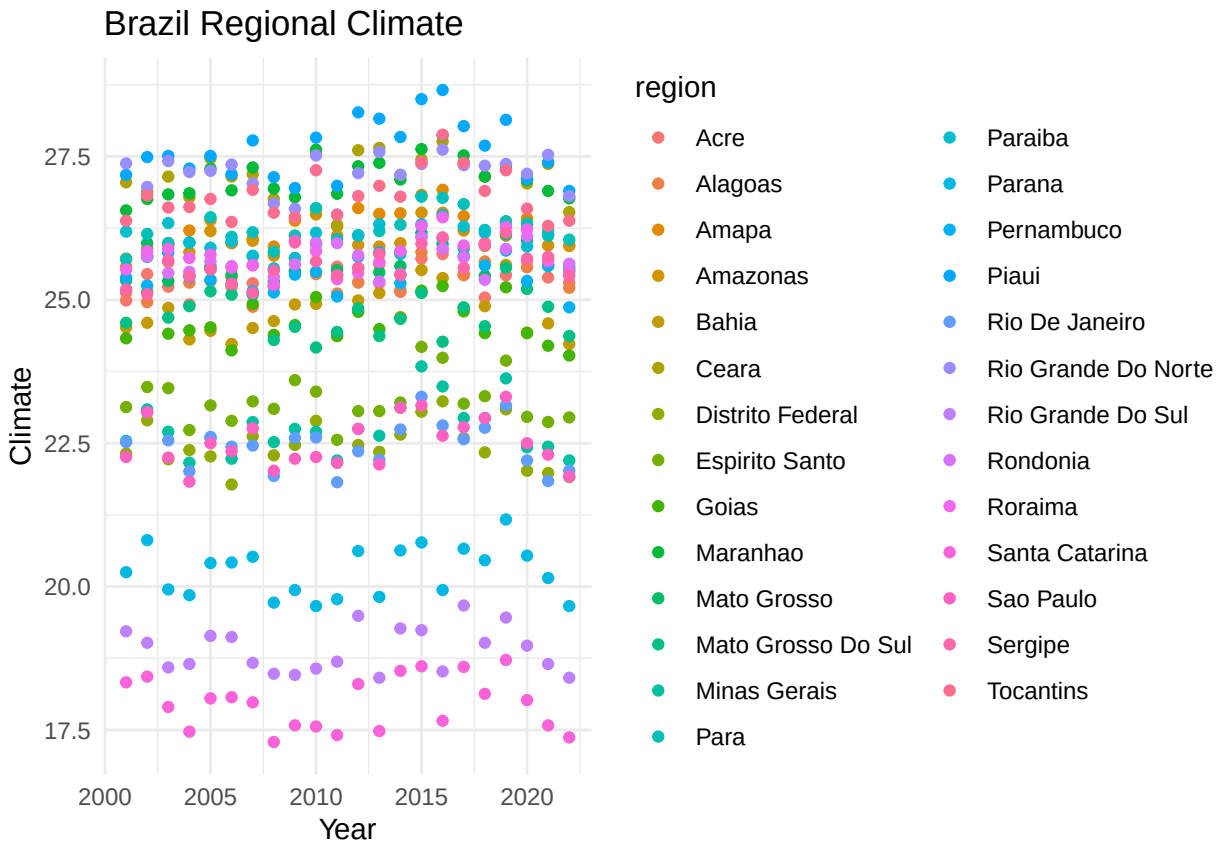
Brazil Regional Banana Production - Initial View of Banana Dataset

```
ggplot(brazilBAN, aes(x = year, y = prod, color = region)) +
  geom_point() +
  labs(title = "Brazil Regional Banana Production",
       x = "Year",
       y = "Banana Production") +
  theme_minimal()
```



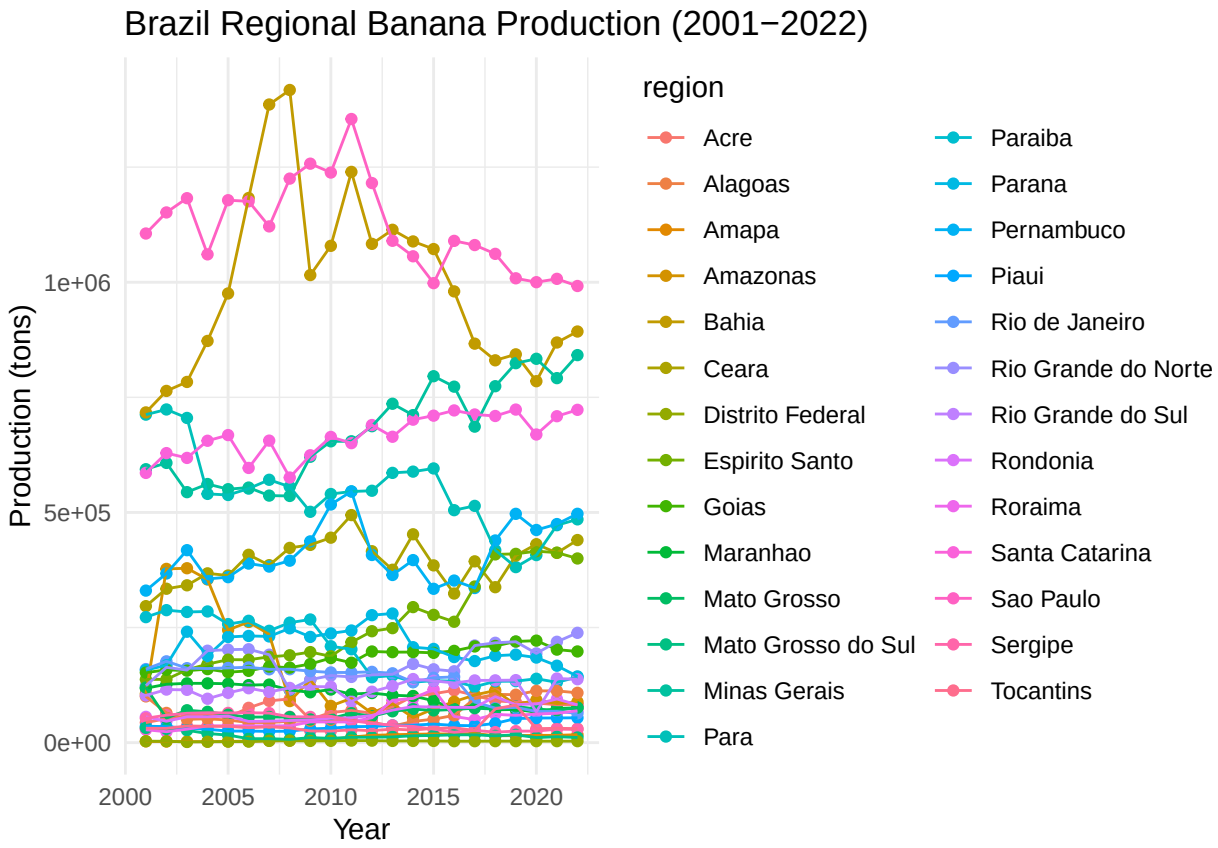
Brazil Regional Climate - Initial View of Climate Dataset

```
ggplot(brazilCLI, aes(x = year, y = climate_Mean, color = region)) +
  geom_point() +
  labs(title = "Brazil Regional Climate",
       x = "Year",
       y = "Climate") +
  theme_minimal()
```



Brazil Regional Banana Production (2001-2022)

```
ggplot(brazilALL, aes(year, prod, color = region)) +
  geom_point() +
  geom_line() +
  labs(
    title = "Brazil Regional Banana Production (2001-2022)",
    x = "Year",
    y = "Production (tons)"
  ) +
  theme_minimal()
```

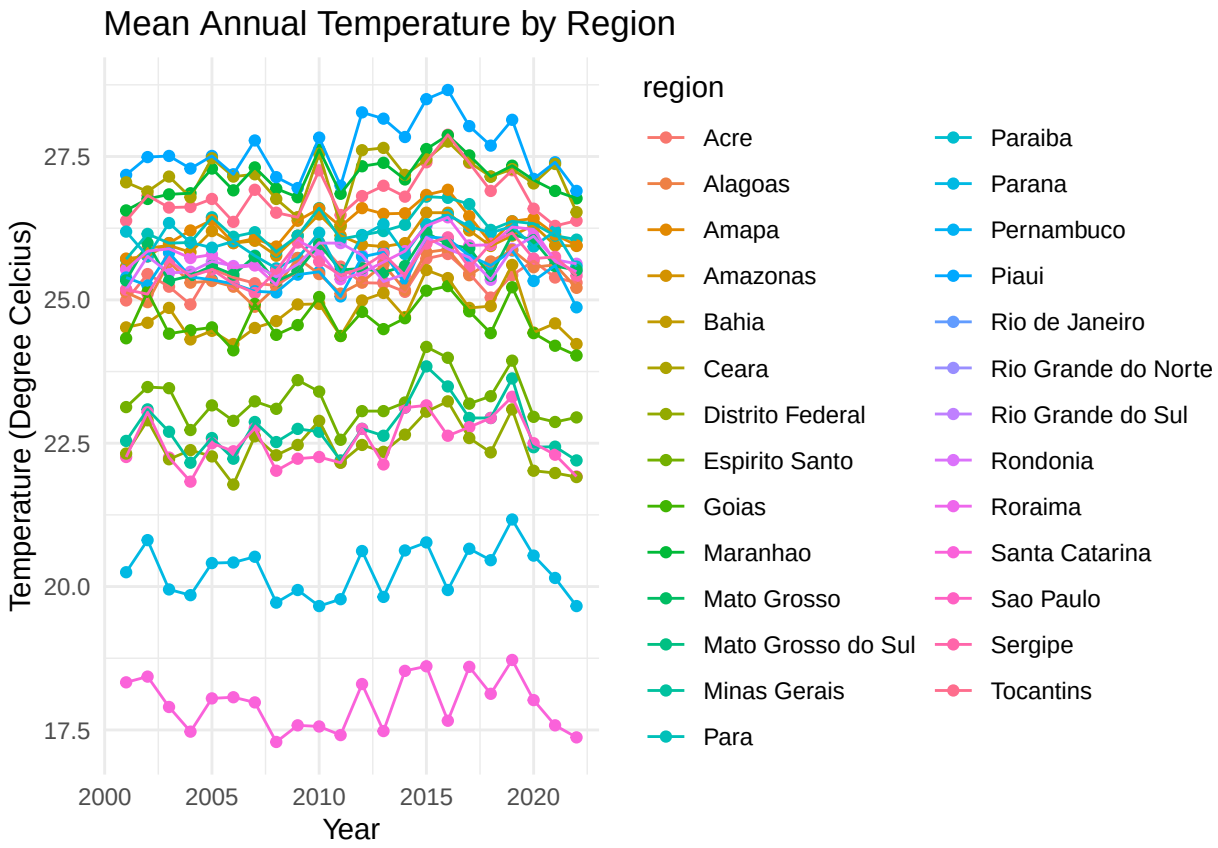


Mean Annual Temperature by Region

```
ggplot(brazilALL, aes(year, climate_Mean, color = region)) +
  geom_point() +
  geom_line() +
  labs(
    title = "Mean Annual Temperature by Region",
    x = "Year",
    y = "Temperature (Degree Celcius)"
  ) +
  theme_minimal()
```

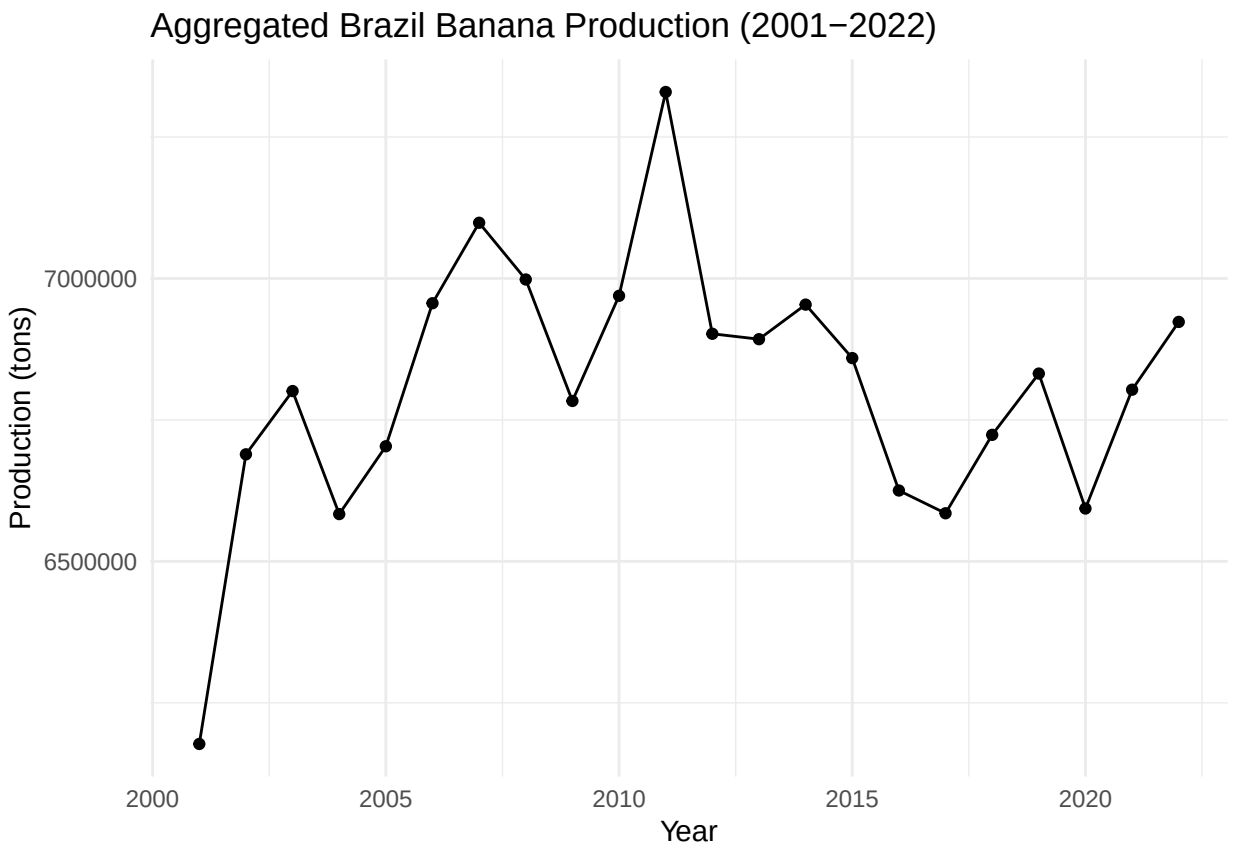
```
## Warning: Removed 88 rows containing missing values or values outside the scale range
## (`geom_point()`).
```

```
## Warning: Removed 88 rows containing missing values or values outside the scale range
## (`geom_line()`).
```



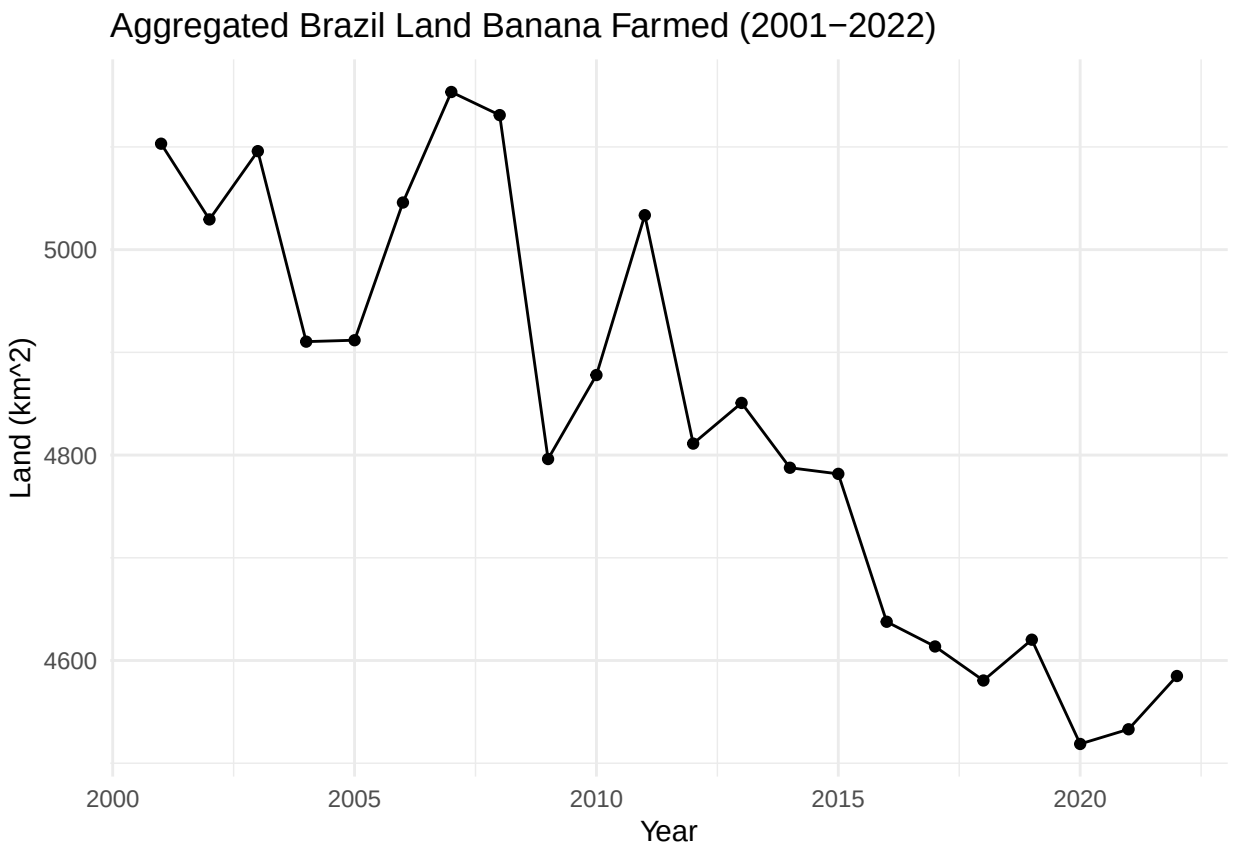
Aggregated Brazil Banana Production (2001-2022)

```
ggplot(brazilTOTAL, aes(year, total_prod)) +
  geom_point() +
  geom_line() +
  labs(
    title = "Aggregated Brazil Banana Production (2001-2022)",
    x = "Year",
    y = "Production (tons)"
  ) +
  theme_minimal()
```



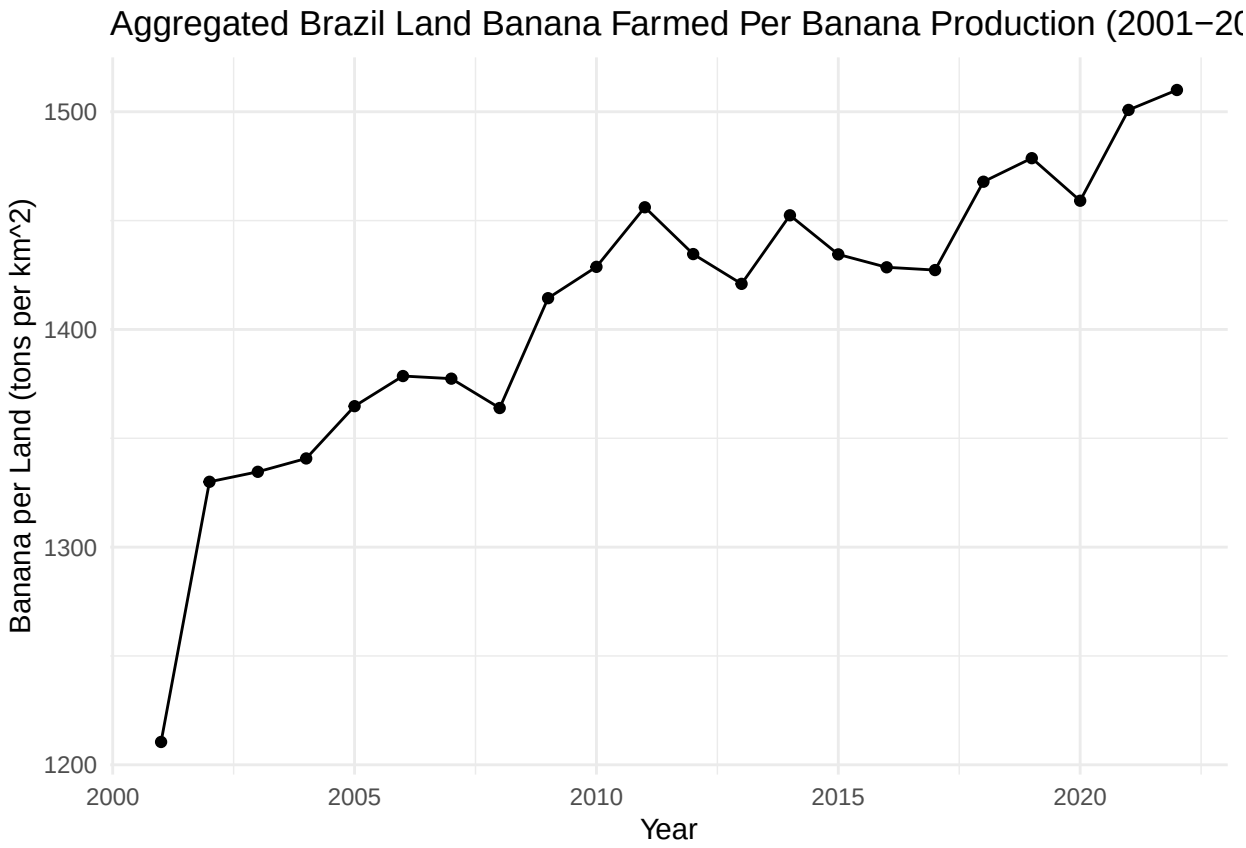
Aggregated Brazil Land Banana Farmed (2001-2022)

```
ggplot(brazilTOTAL, aes(year, total_areaKM)) +
  geom_point() +
  geom_line() +
  labs(
    title = "Aggregated Brazil Land Banana Farmed (2001-2022)",
    x = "Year",
    y = "Land (km^2)"
  ) +
  theme_minimal()
```



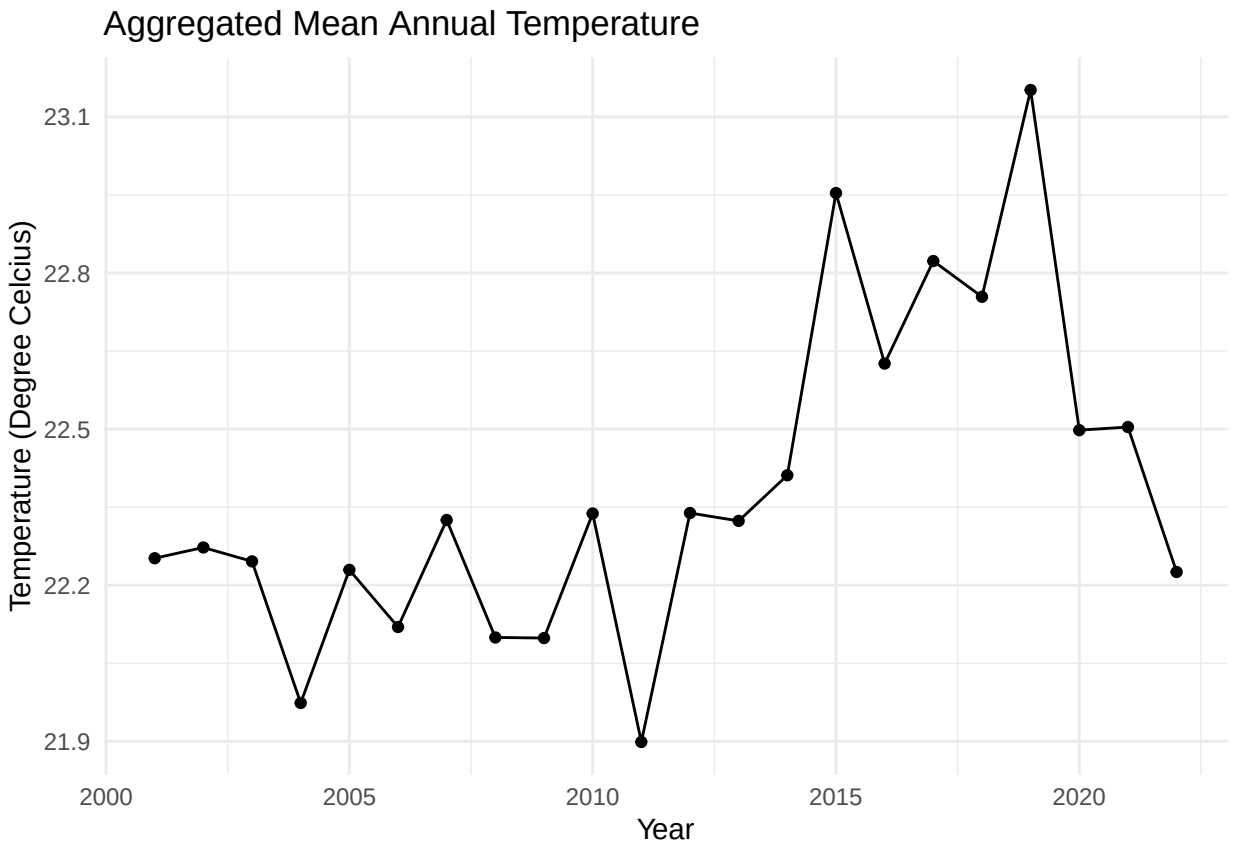
Aggregated Brazil Land Banana Farmed Per Banana Production (2001-2022)

```
ggplot(brazilTOTAL, aes(year, total_prodperareaKM)) +
  geom_point() +
  geom_line() +
  labs(
    title = "Aggregated Brazil Land Banana Farmed Per Banana Production (2001-2022)",
    x = "Year",
    y = "Banana per Land (tons per km^2)"
  ) +
  theme_minimal()
```



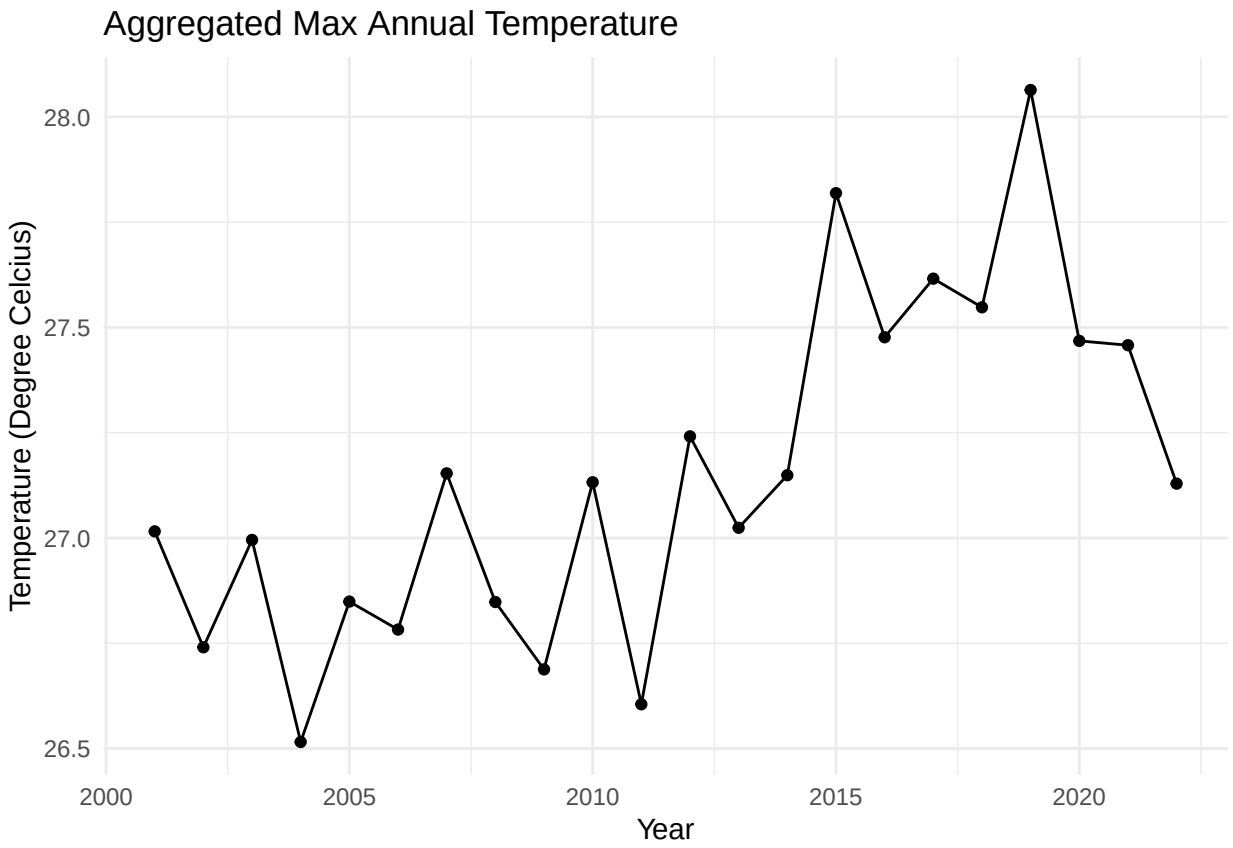
Aggregated Mean Annual Temperature

```
ggplot(brazilTOTAL, aes(year, total_mean)) +
  geom_point() +
  geom_line() +
  labs(
    title = "Aggregated Mean Annual Temperature",
    x = "Year",
    y = "Temperature (Degree Celcius)"
  ) +
  theme_minimal()
```



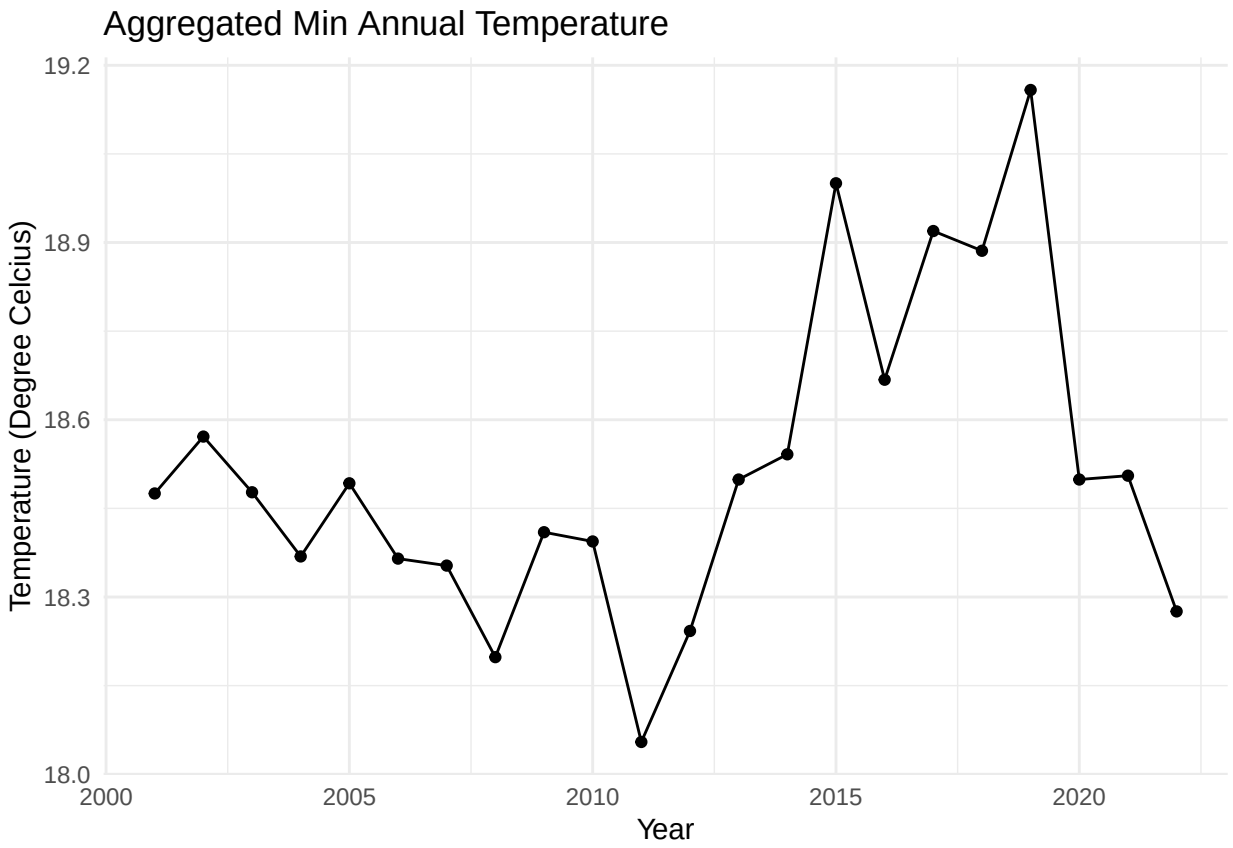
Aggregated Max Annual Temperature

```
ggplot(brazilTOTAL, aes(year, total_max)) +
  geom_point() +
  geom_line() +
  labs(
    title = "Aggregated Max Annual Temperature",
    x = "Year",
    y = "Temperature (Degree Celcius)"
  ) +
  theme_minimal()
```



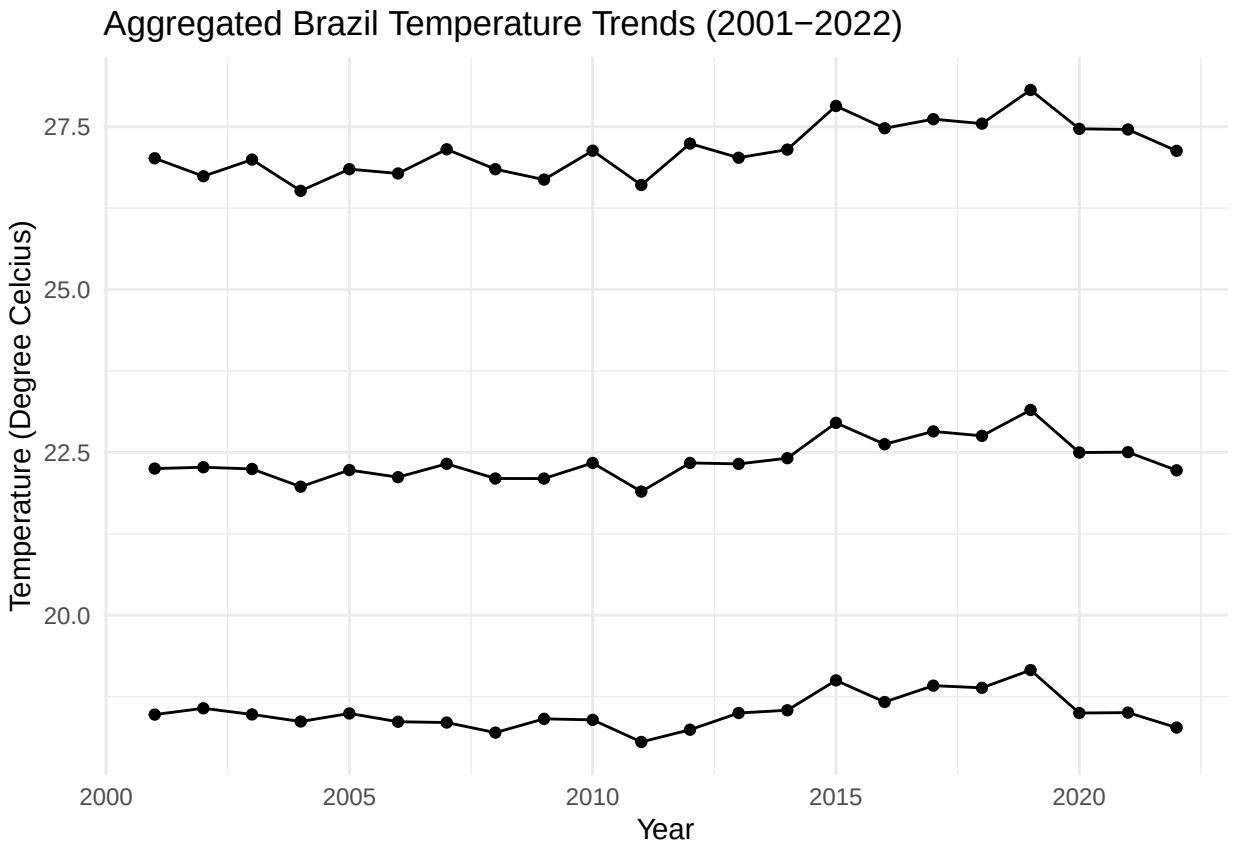
Aggregated Min Annual Temperature

```
ggplot(brazilTOTAL, aes(year, total_min)) +
  geom_point() +
  geom_line() +
  labs(
    title = "Aggregated Min Annual Temperature",
    x = "Year",
    y = "Temperature (Degree Celcius)"
  ) +
  theme_minimal()
```



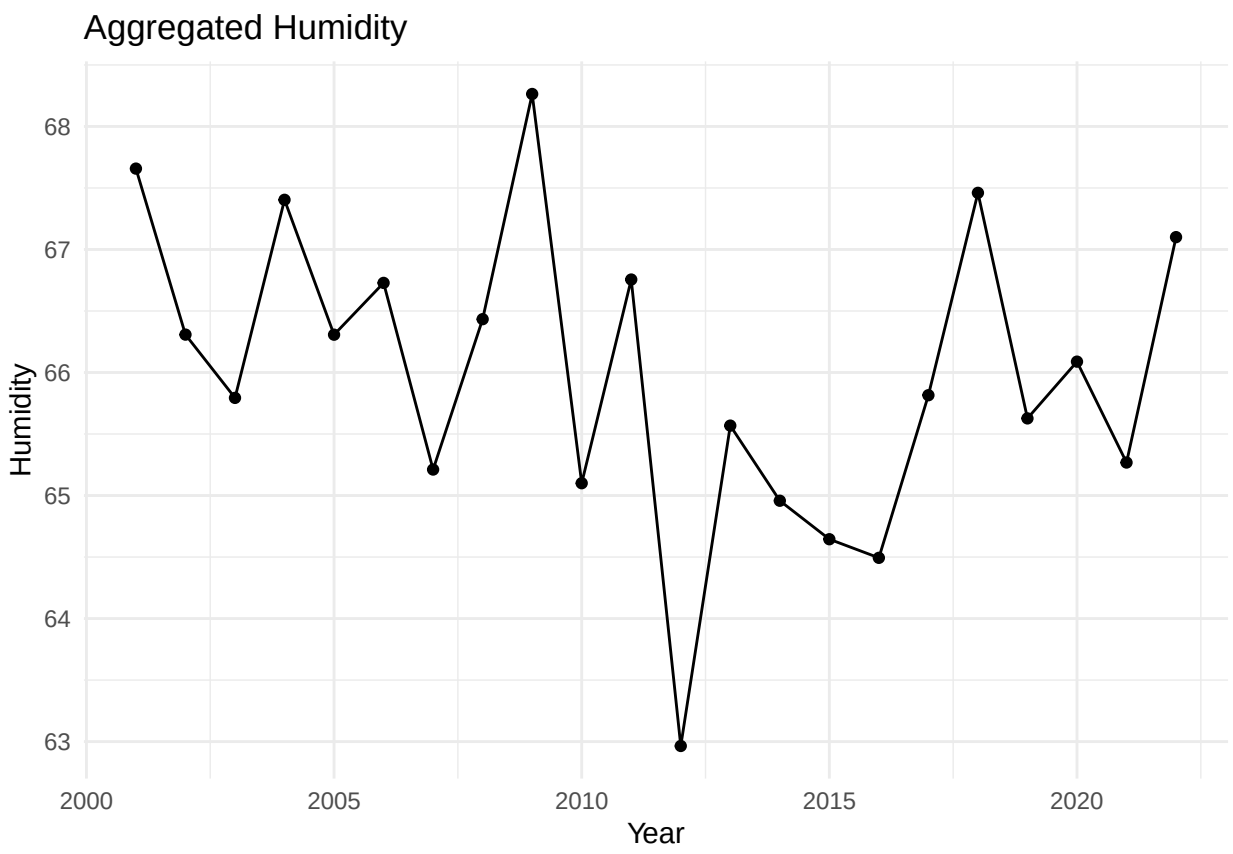
Aggregated Brazil Temperature Trends (2001-2022)

```
ggplot(brazilTOTAL) +
  geom_point(aes(year, total_mean)) +
  geom_line(aes(year, total_mean)) +
  geom_point(aes(year, total_min)) +
  geom_line(aes(year, total_min)) +
  geom_point(aes(year, total_max)) +
  geom_line(aes(year, total_max)) +
  labs(
    title = "Aggregated Brazil Temperature Trends (2001-2022)",
    x = "Year",
    y = "Temperature (Degree Celcius)"
  ) +
  theme_minimal()
```



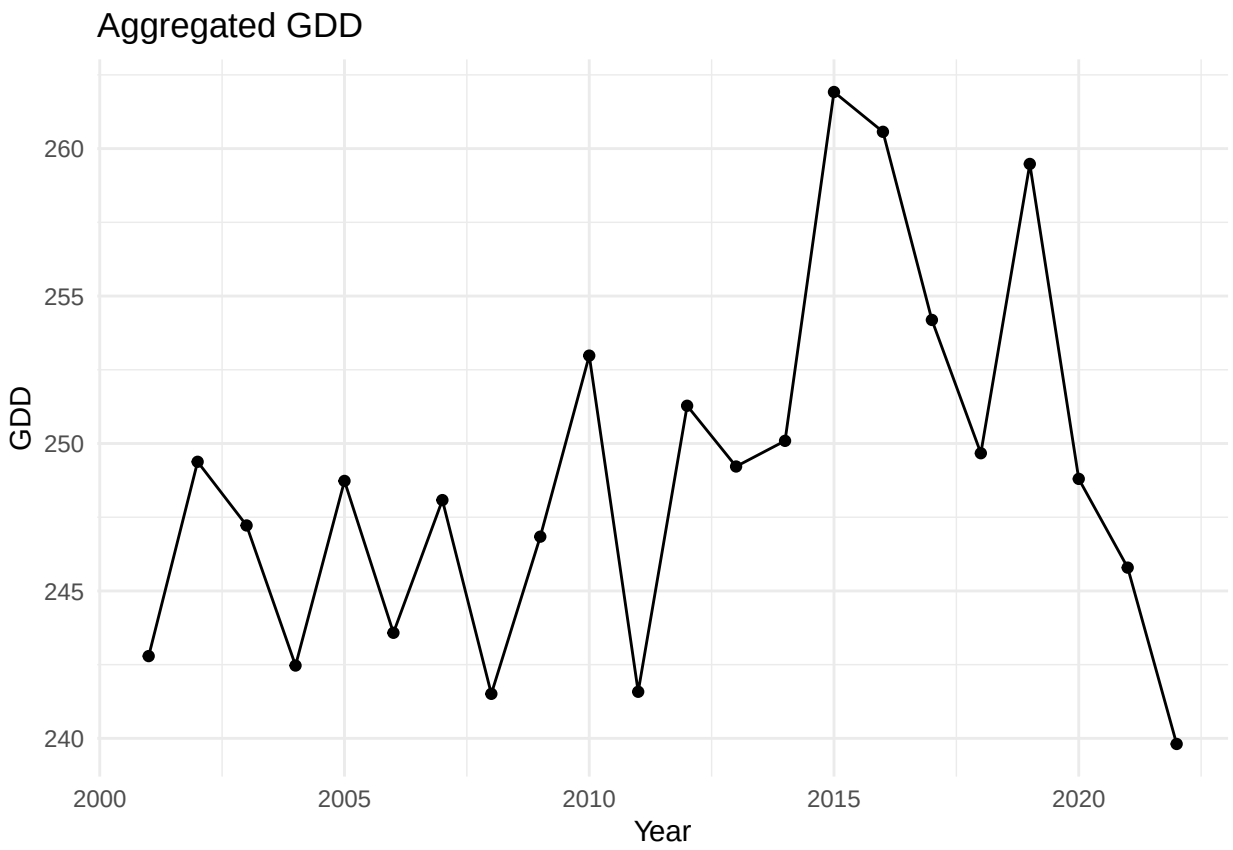
Aggregated Humidity

```
ggplot(brazilTOTAL, aes(year, total_humidity)) +
  geom_point() +
  geom_line() +
  labs(
    title = "Aggregated Humidity",
    x = "Year",
    y = "Humidity"
  ) +
  theme_minimal()
```



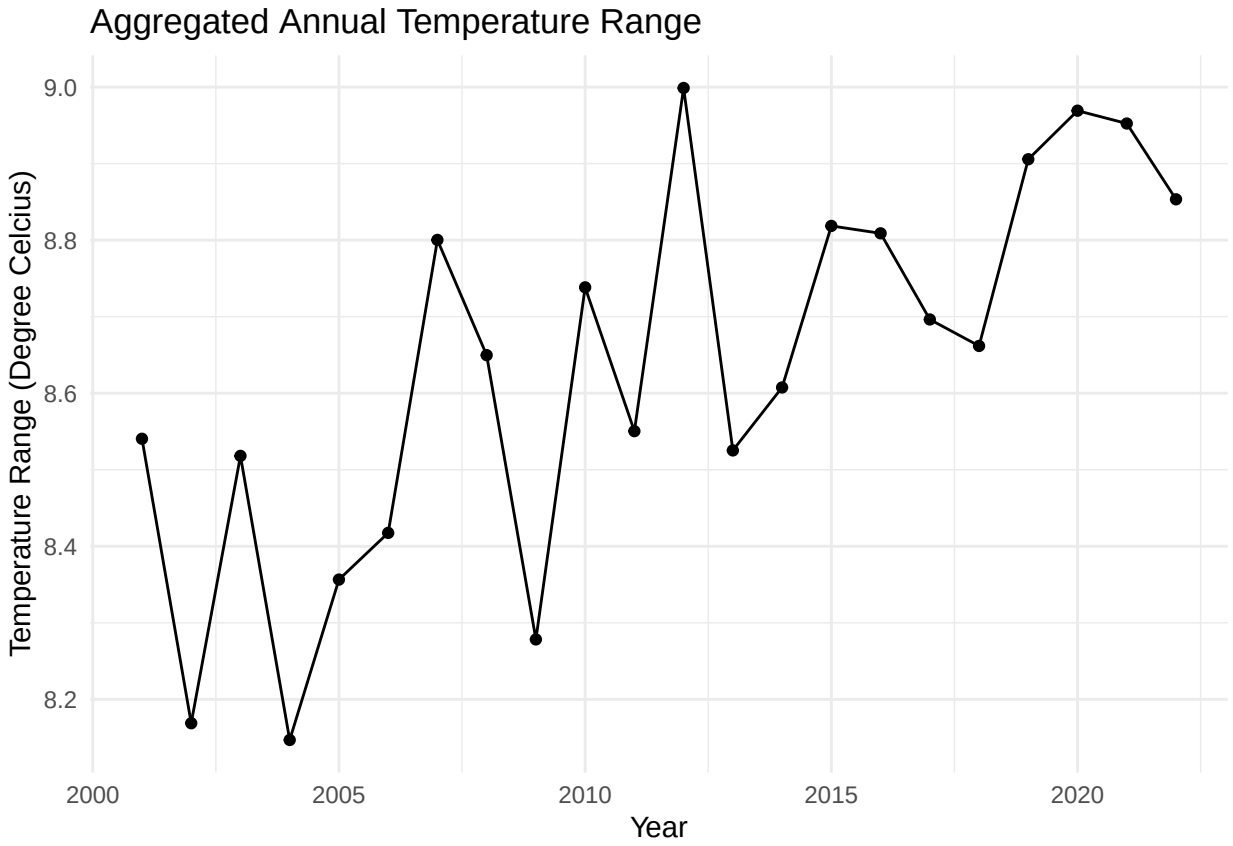
Aggregated GDD

```
ggplot(brazilTOTAL, aes(year, total_GDD)) +
  geom_point() +
  geom_line() +
  labs(
    title = "Aggregated GDD",
    x = "Year",
    y = "GDD"
  ) +
  theme_minimal()
```



Aggregated Annual Temperature Range

```
ggplot(brazilTOTAL, aes(year, total_range)) +
  geom_point() +
  geom_line() +
  labs(
    title = "Aggregated Annual Temperature Range",
    x = "Year",
    y = "Temperature Range (Degree Celcius)"
  ) +
  theme_minimal()
```


Aggregated Annual Temperature Range
Temperature Range (Degree Celcius)
9.0
8.8
8.6
8.4
8.2
2000
2005
2010
2015
2020
Year