

US Maps (Proportion of Total Respondents)

Map Plots

```
source("state_politics.R")

## -- Attaching packages ----- tidyverse 1.3.1 --

## v ggplot2 3.3.3      v purrr  0.3.4
## v tibble  3.1.1      v dplyr  1.0.5
## v tidyr   1.1.3      v stringr 1.4.0
## v readr   1.4.0      v forcats 0.5.1

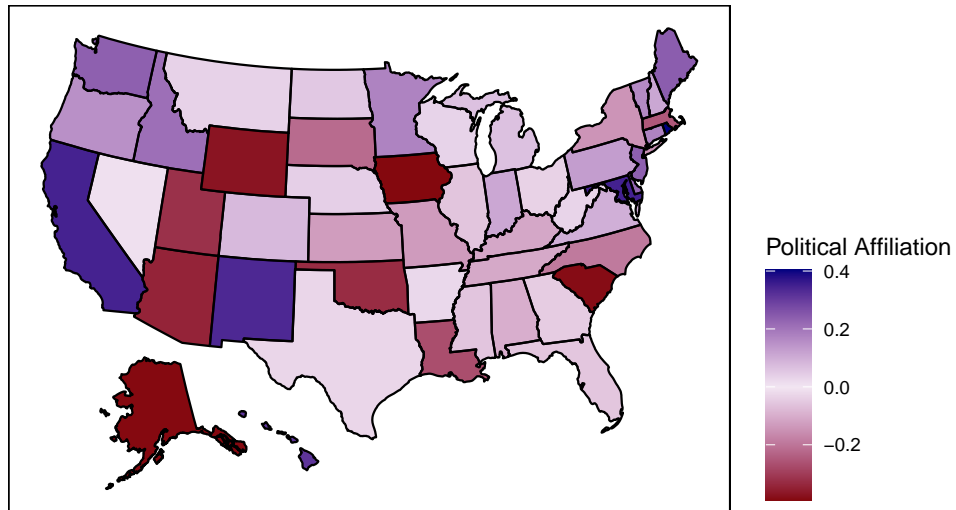
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()

par(mfrow = c(1, 2))

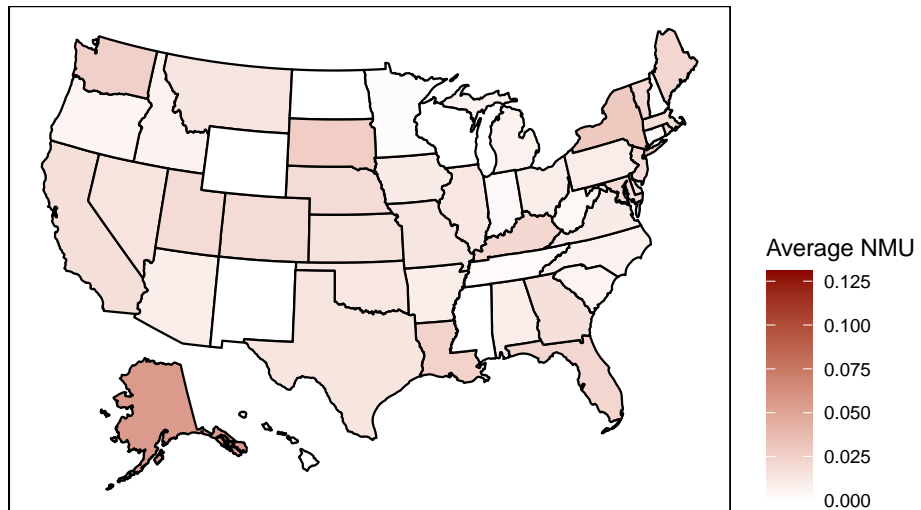
for (i in 2:19) {
  # political affiliation by 2018 election results ----
  print(plot_usmap(data = nmu_politics, values = "election",
    labels = FALSE) +
    scale_fill_gradient2(low = rgb(0.5, 0, 0), mid = rgb(0.5, 0, 0.5, alpha = 0.1),
      high = rgb(0, 0, 0.5),
      name = "Political Affiliation") +
    theme(legend.position = "right") +
    theme(panel.background = element_rect(color = "black")) +
    labs(title = "Political Affiliation by 2018 Election Results"))

  # average NMU by state ----
  print(plot_usmap(data = nmu_politics,
    values = names(nmu_politics)[i], labels = FALSE) +
    scale_fill_continuous(
      low = "white", high = "darkred", name = "Average NMU",
      limits = if (i < 19) {range(nmu_politics[, -c(1, 19:23)]})
    } else {NULL}) +
    theme(legend.position = "right") +
    theme(panel.background = element_rect(color = "black")) +
    labs(title =
      str_c("Average ", names(nmu_politics)[i], " NMU By State")))
}
```

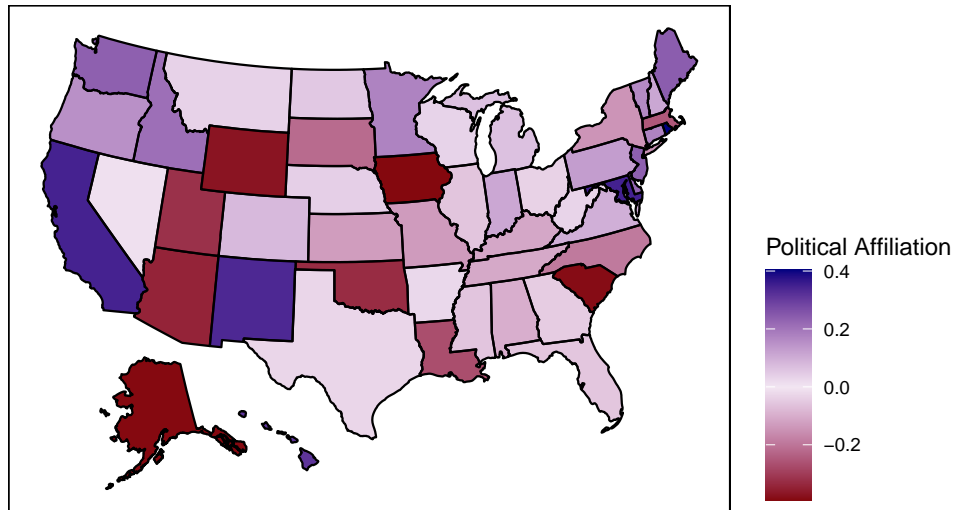
Political Affiliation by 2018 Election Results



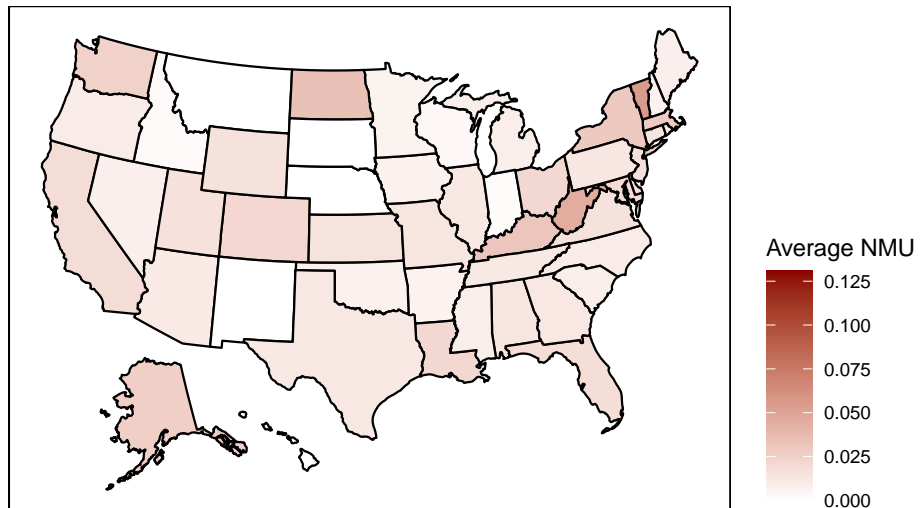
Average FENT NMU By State



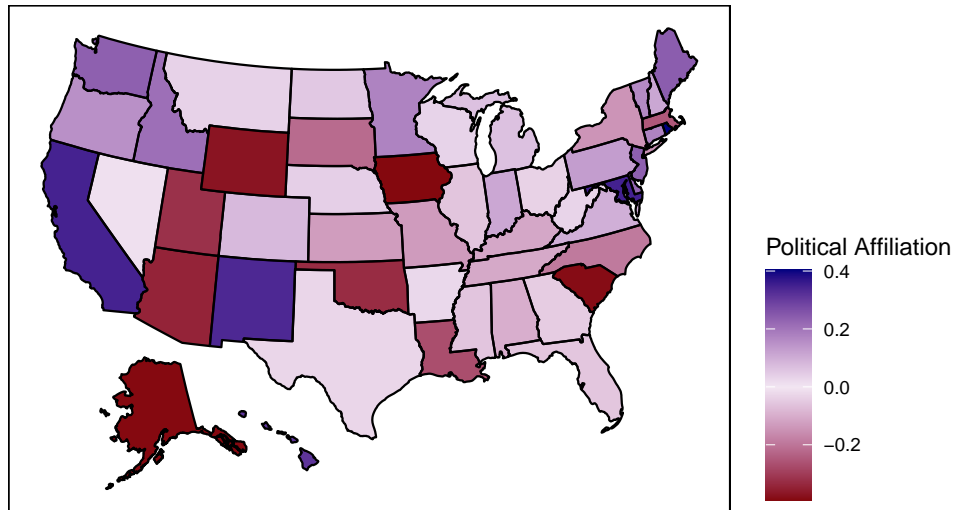
Political Affiliation by 2018 Election Results



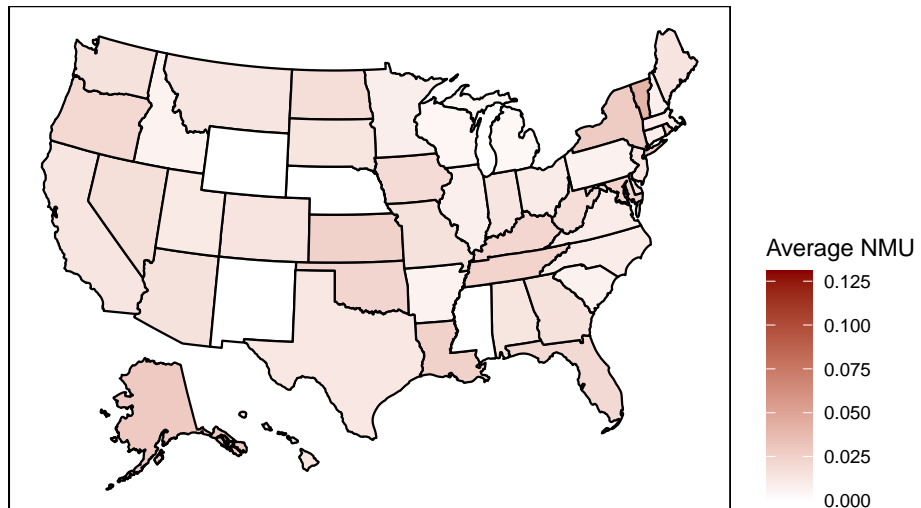
Average BUP NMU By State



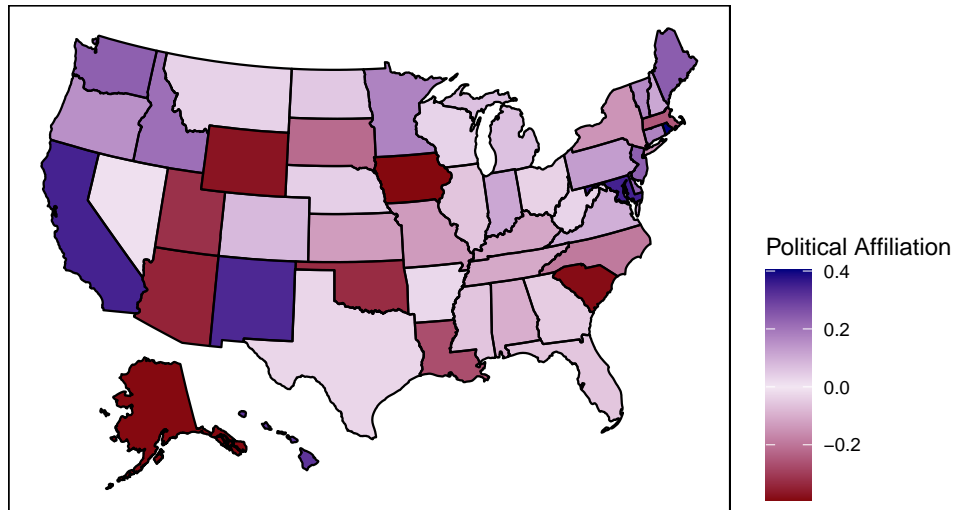
Political Affiliation by 2018 Election Results



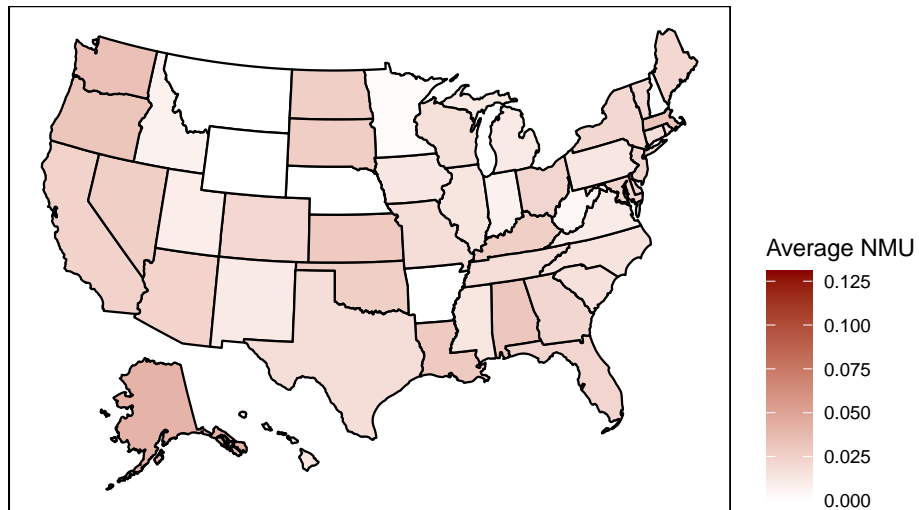
Average METH NMU By State



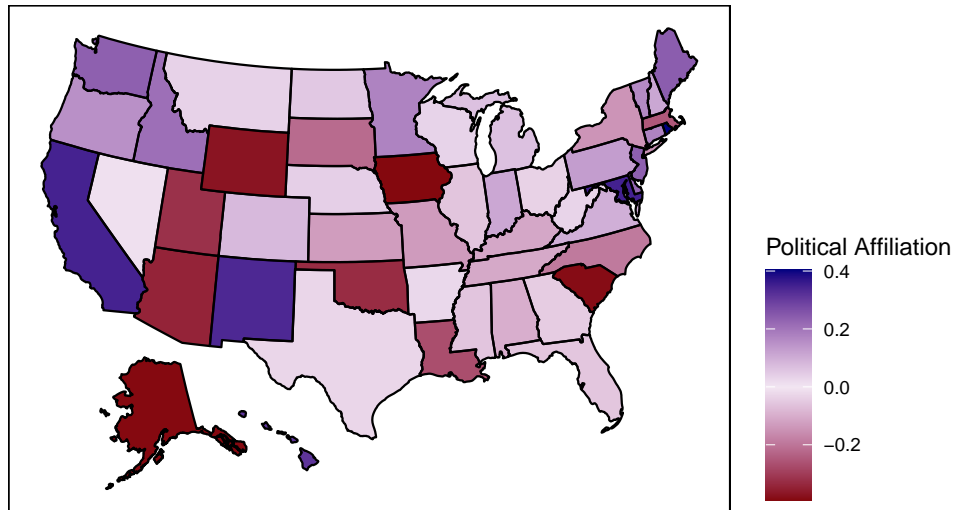
Political Affiliation by 2018 Election Results



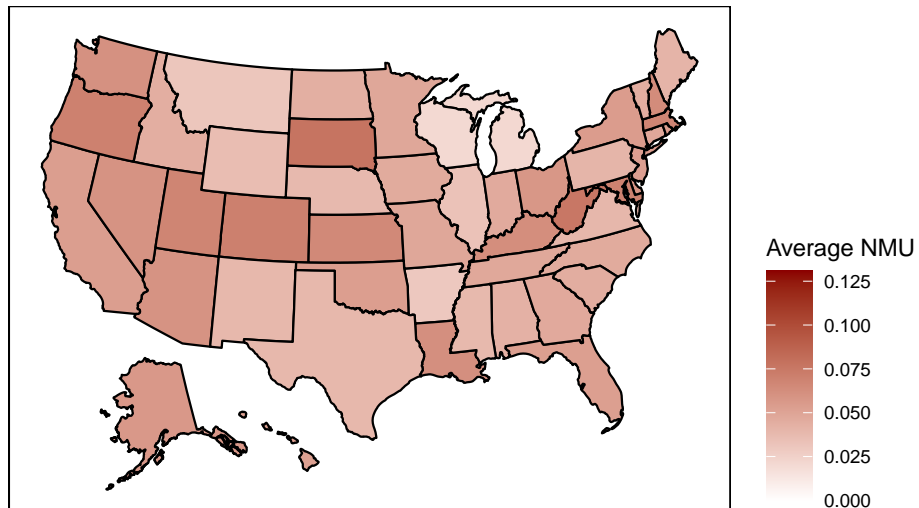
Average MORPH NMU By State



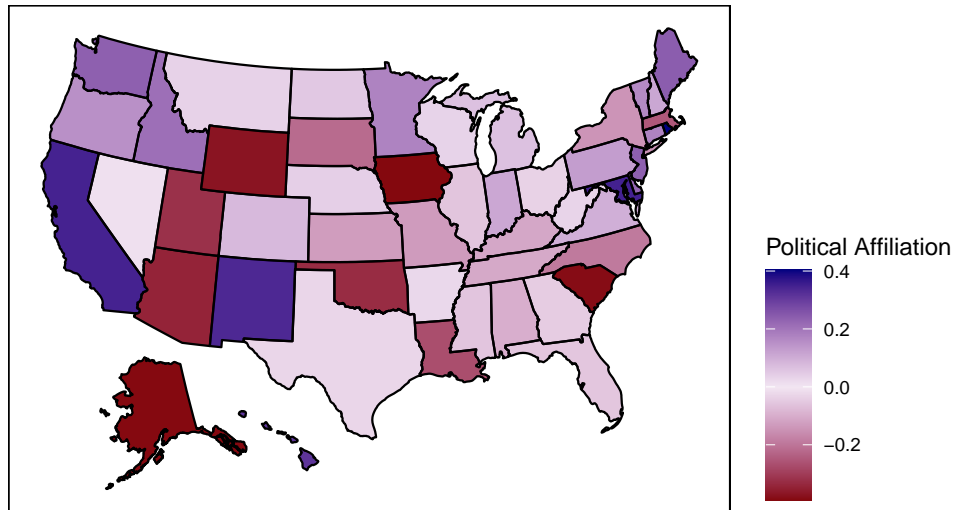
Political Affiliation by 2018 Election Results



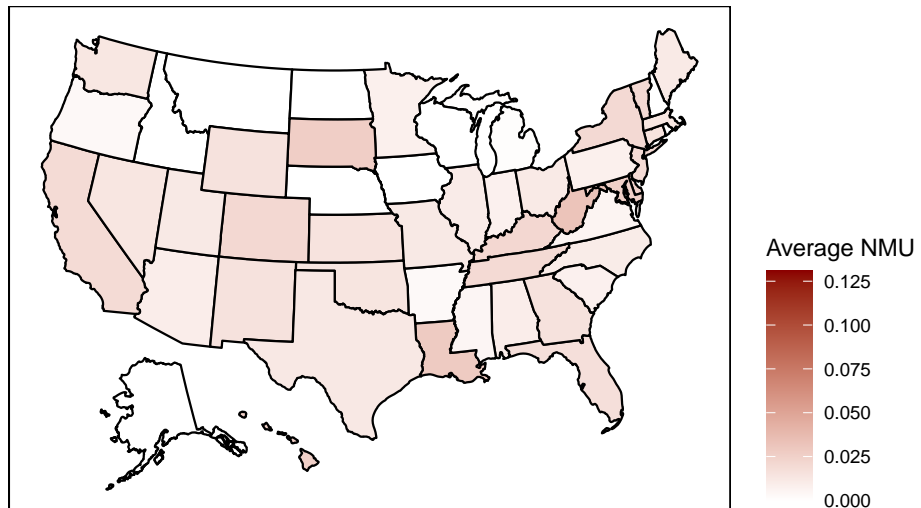
Average OXY NMU By State



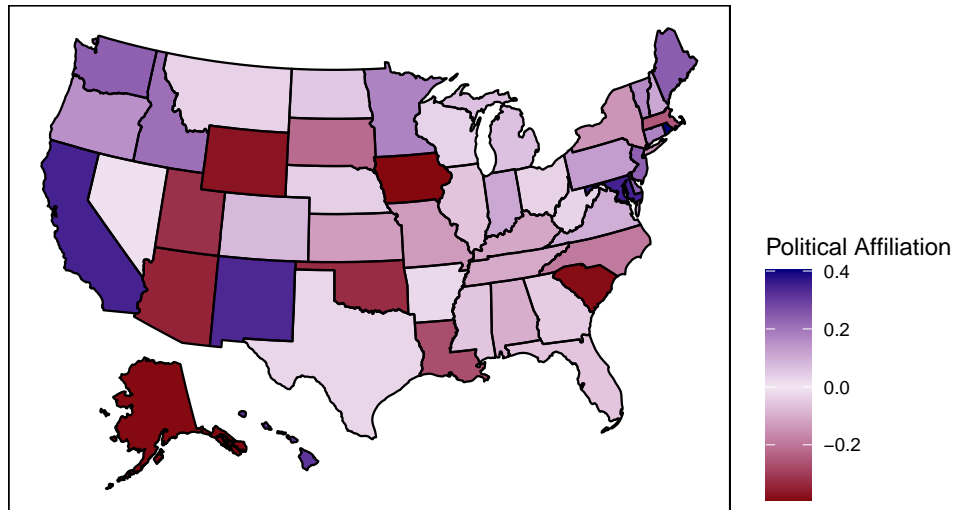
Political Affiliation by 2018 Election Results



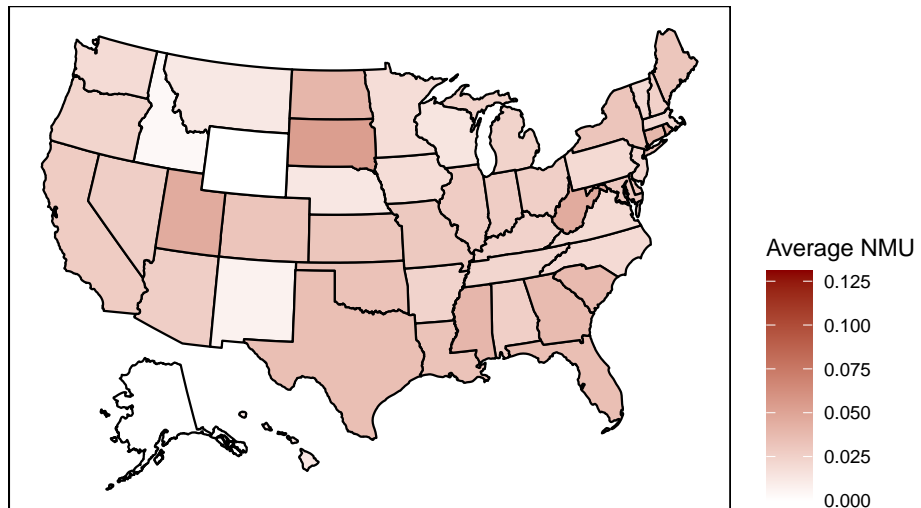
Average OXYM NMU By State



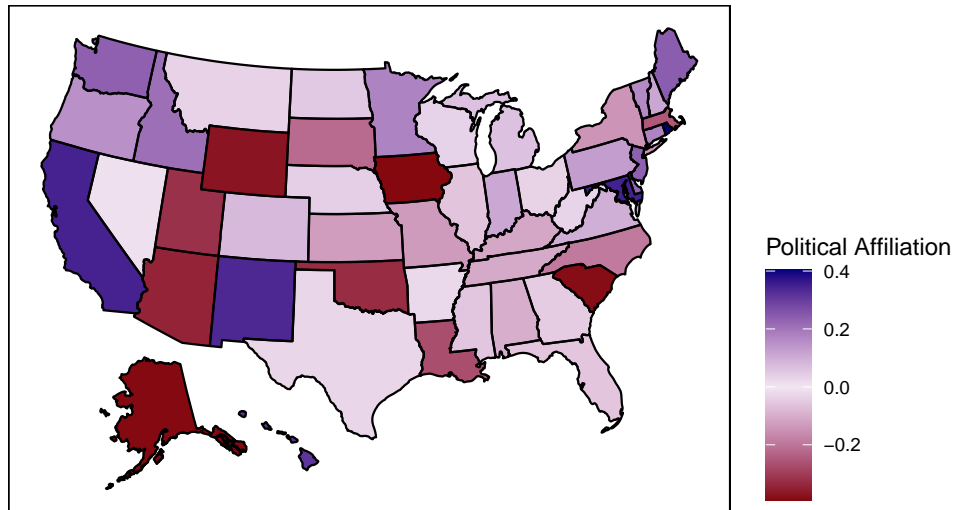
Political Affiliation by 2018 Election Results



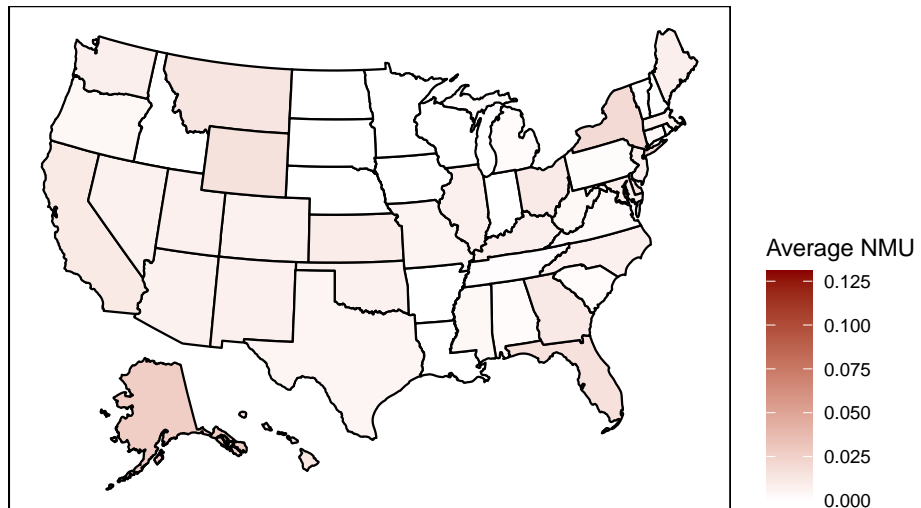
Average TRAM NMU By State



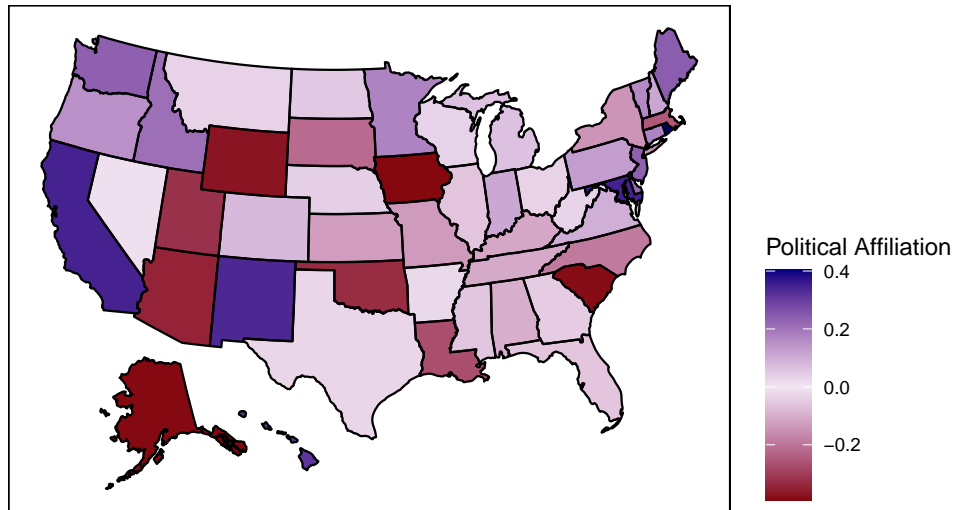
Political Affiliation by 2018 Election Results



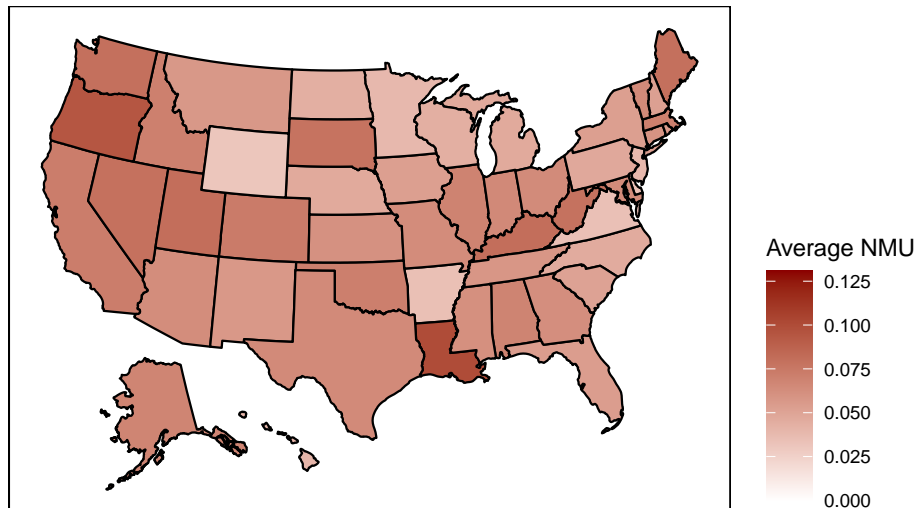
Average TAP NMU By State



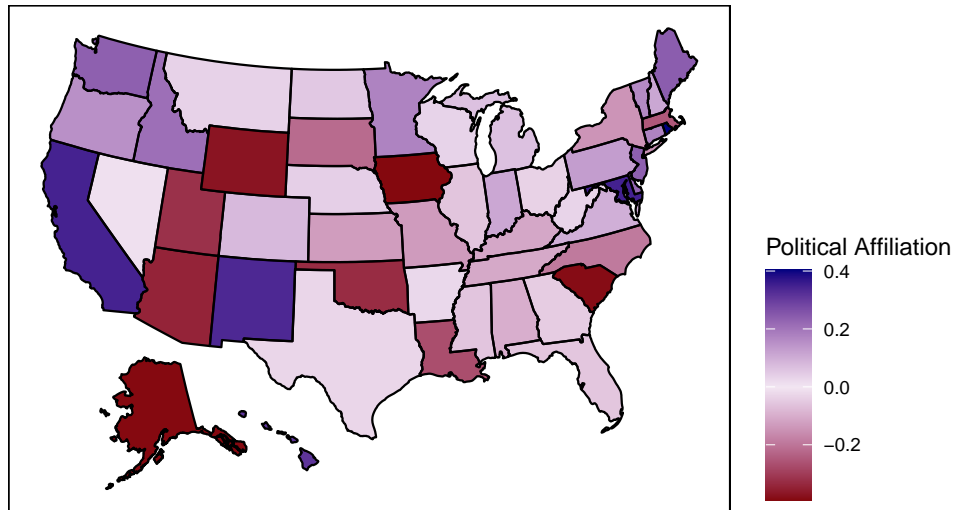
Political Affiliation by 2018 Election Results



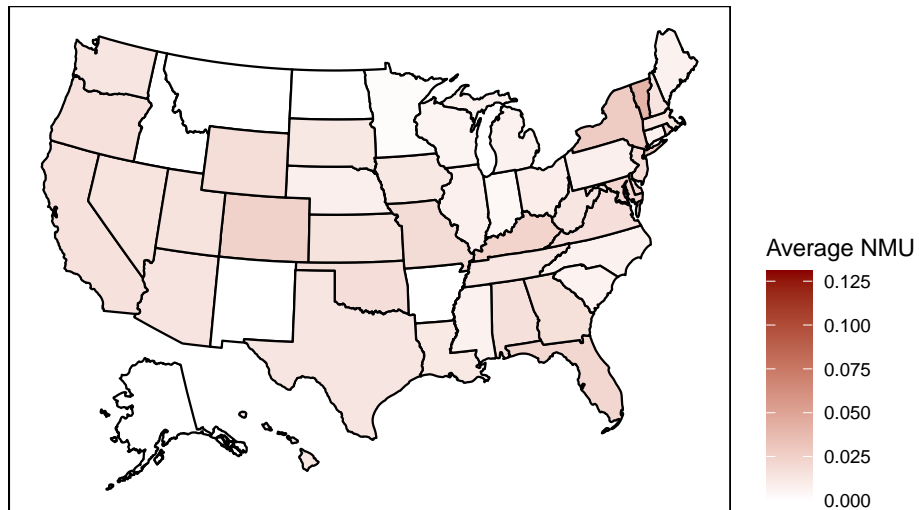
Average HYD NMU By State



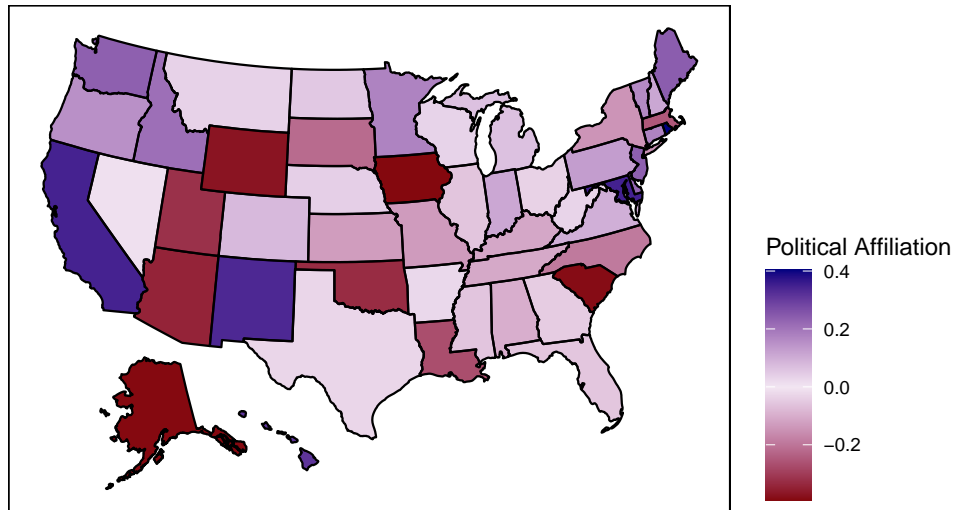
Political Affiliation by 2018 Election Results



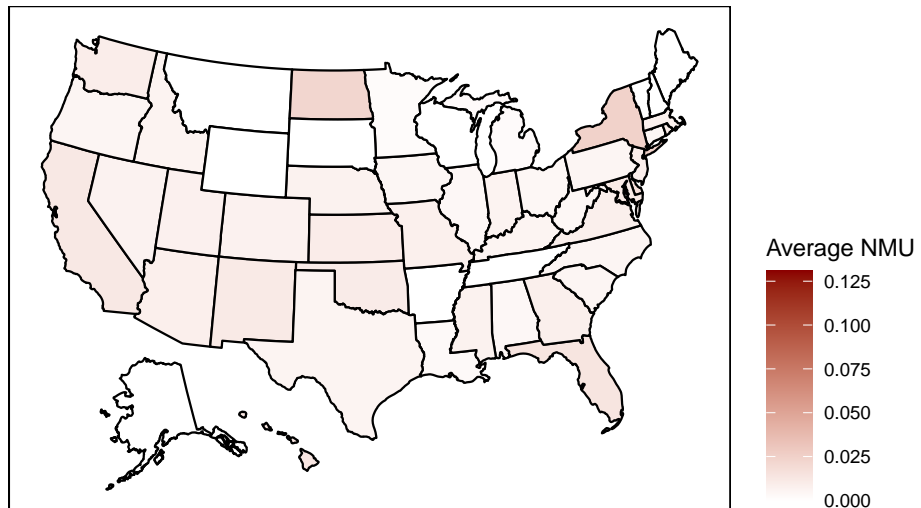
Average HYDM NMU By State



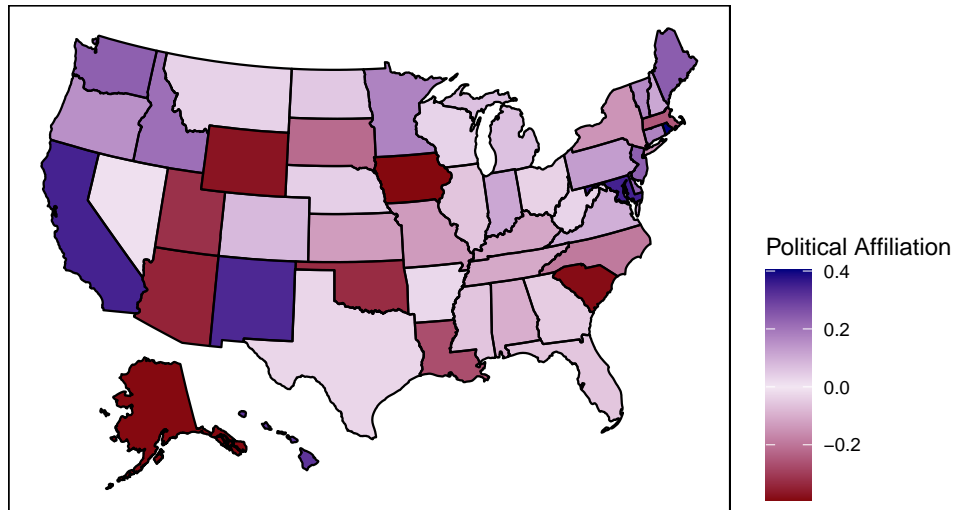
Political Affiliation by 2018 Election Results



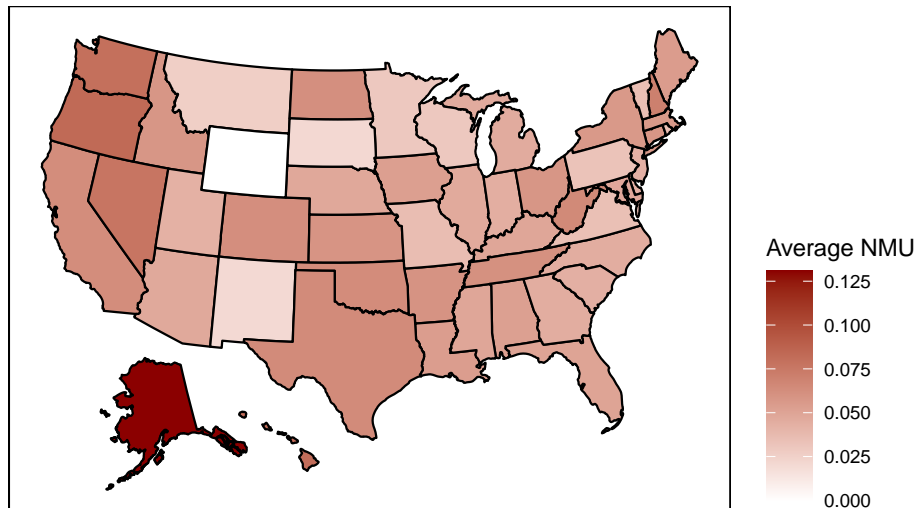
Average SUF NMU By State



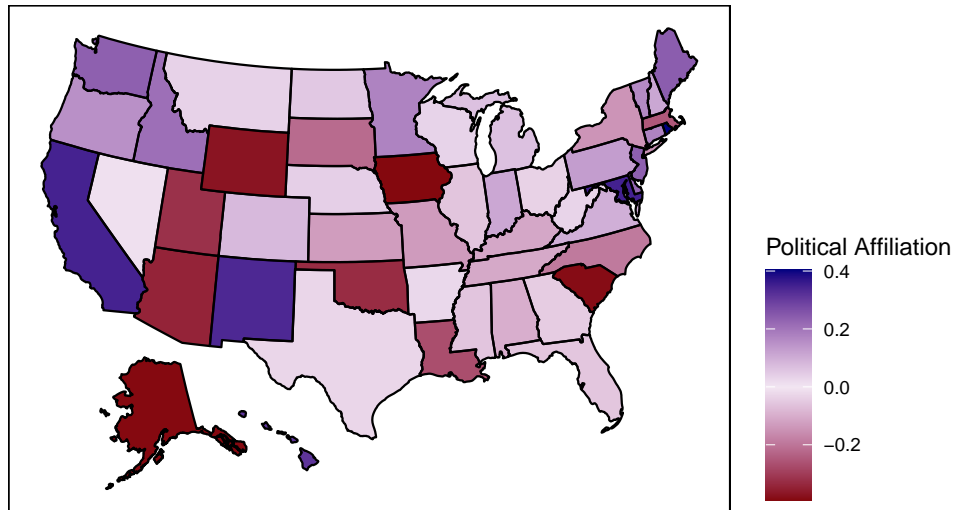
Political Affiliation by 2018 Election Results



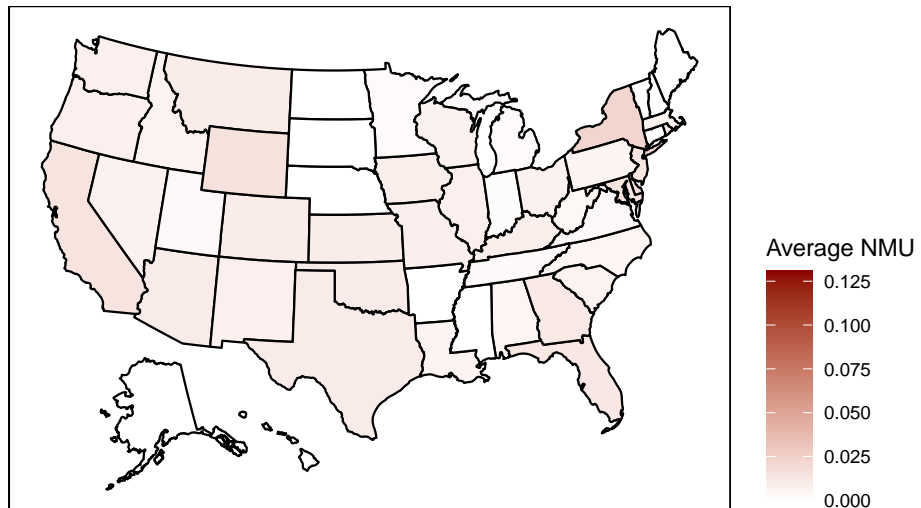
Average COD NMU By State



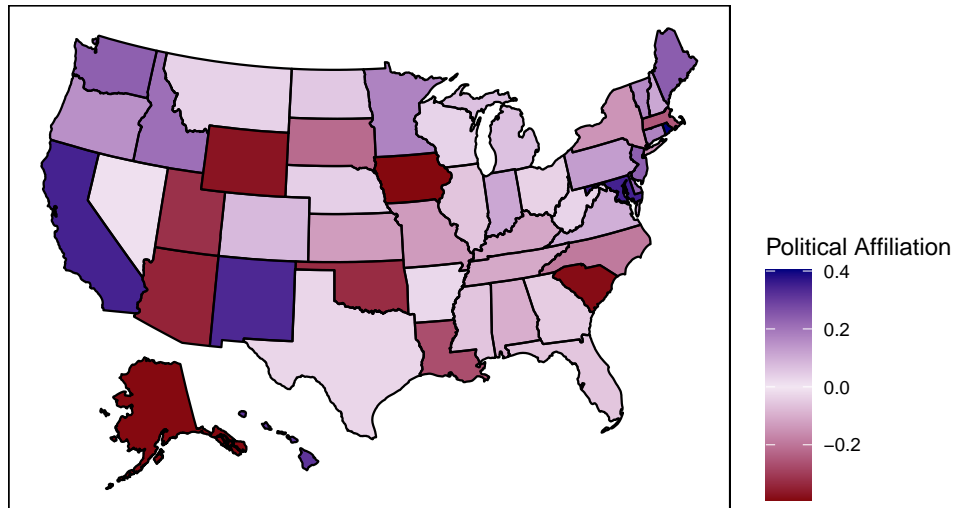
Political Affiliation by 2018 Election Results



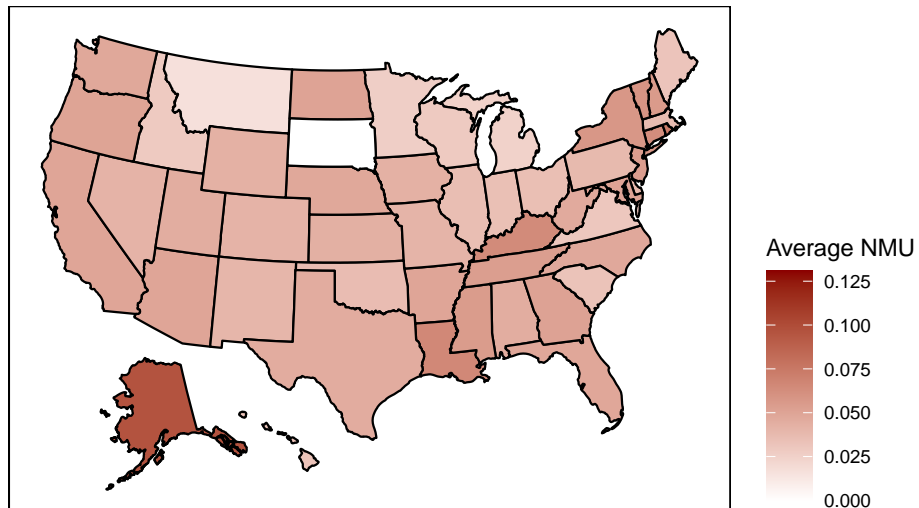
Average DIHY NMU By State



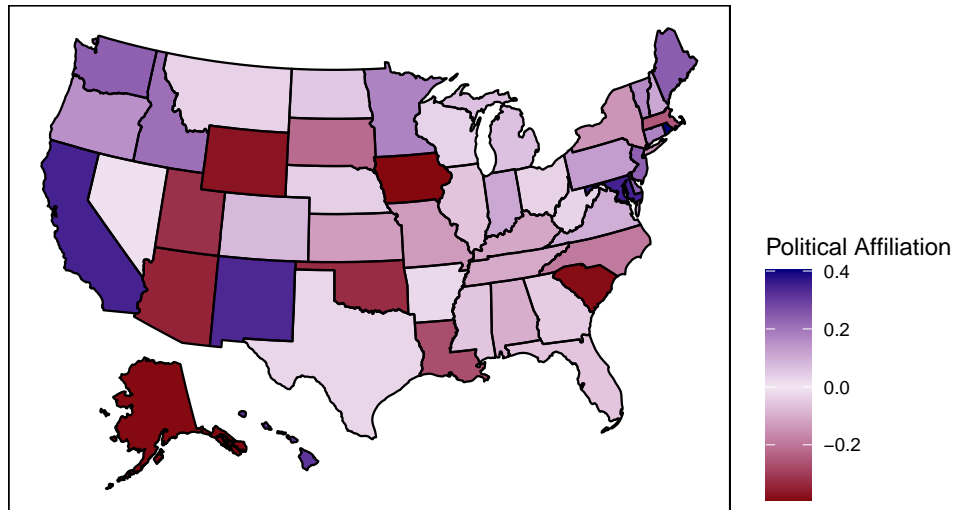
Political Affiliation by 2018 Election Results



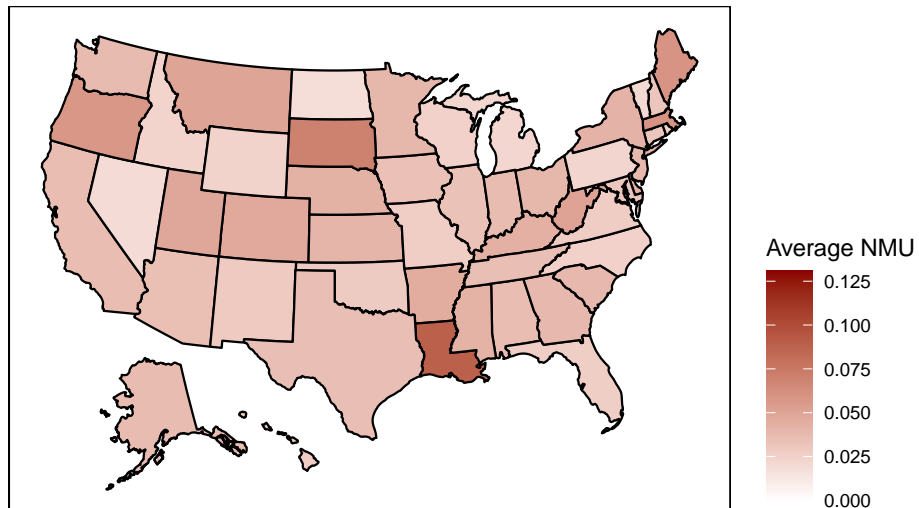
Average BENZ NMU By State



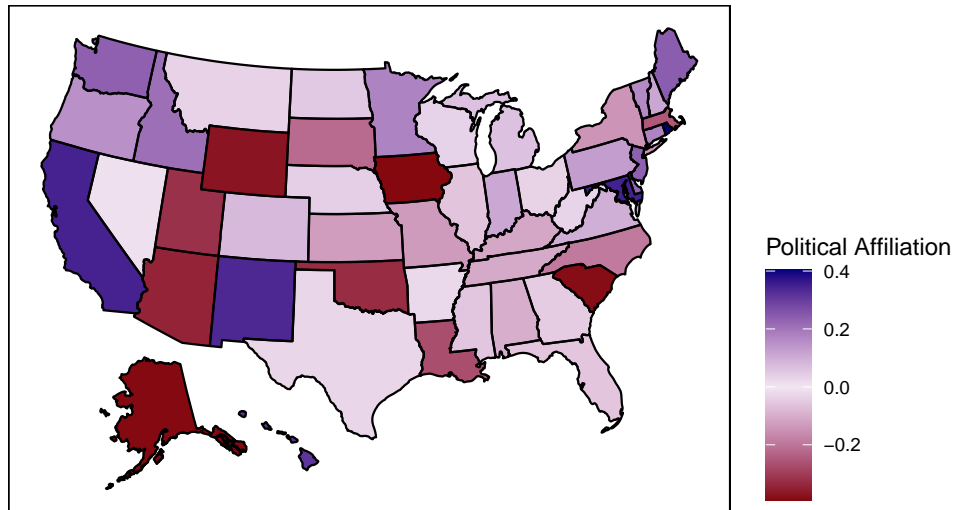
Political Affiliation by 2018 Election Results



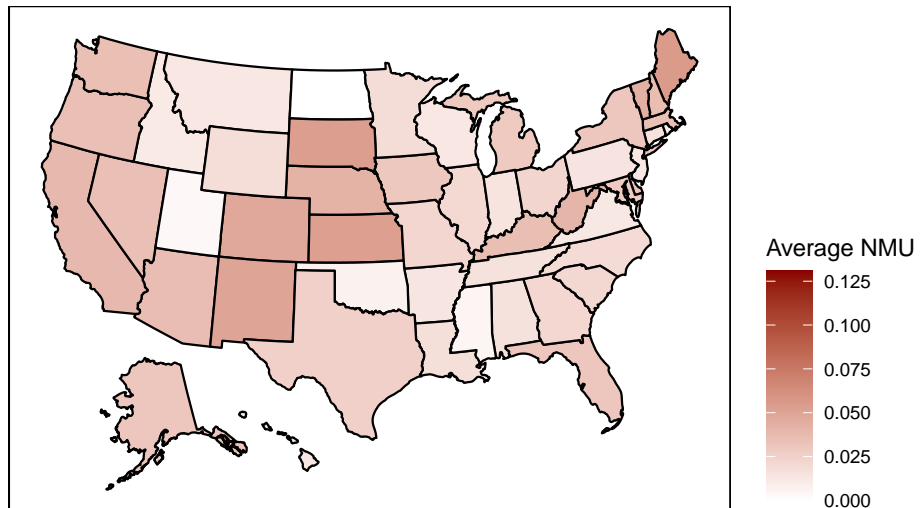
Average STIM NMU By State



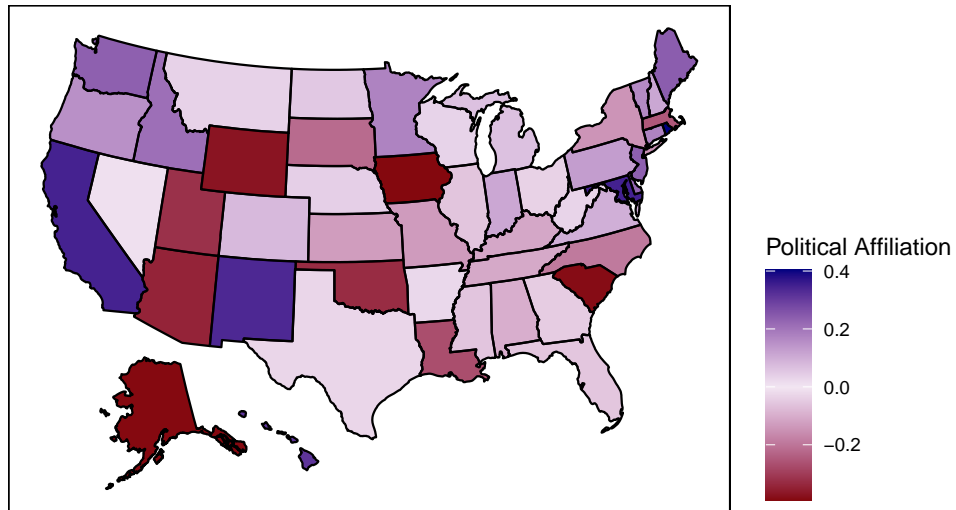
Political Affiliation by 2018 Election Results



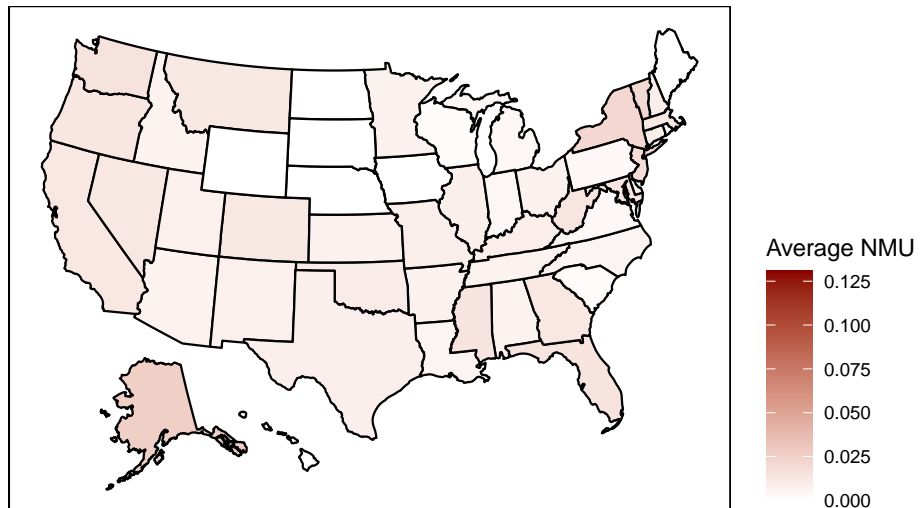
Average THC NMU By State



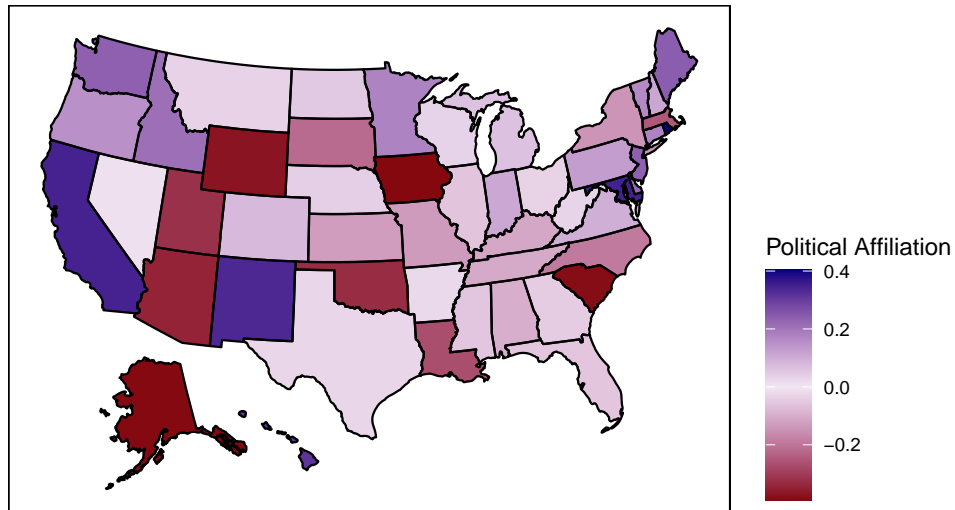
Political Affiliation by 2018 Election Results



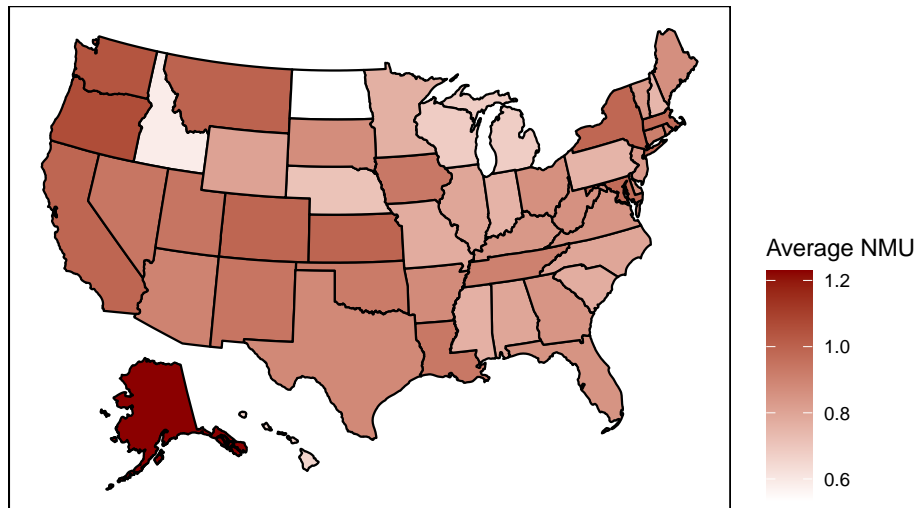
Average KTM NMU By State



Political Affiliation by 2018 Election Results



Average dast NMU By State



Bar Plots

```
par(mfrow = c(1, 2))

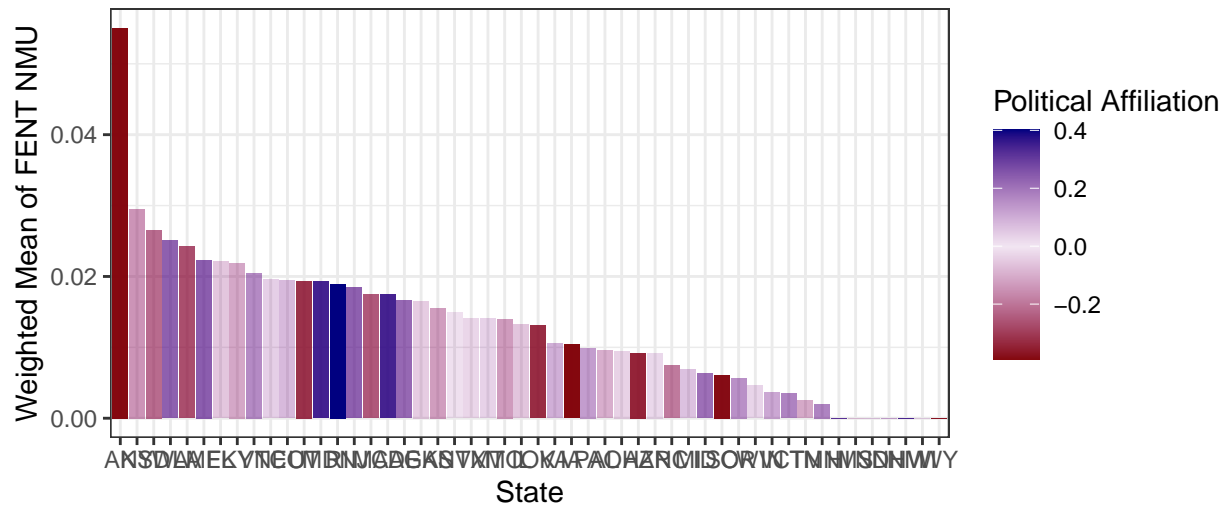
for (i in 2:19) {
  df <- nmu_politics %>% select(state, election, nmu = names(nmu_politics)[i])
  print(df %>% ggplot() +
    geom_col(aes(reorder(state, -nmu), nmu, fill = election)) +
    scale_fill_gradient2(low = rgb(0.5, 0, 0), mid = rgb(0.5, 0, 0.5, alpha = 0.1),
      high = rgb(0, 0, 0.5),
      name = "Political Affiliation") +
    theme_bw() +
    labs(title = str_c("Weighted Mean of ", names(nmu_politics)[i],
      " NMU by State and Political Affiliation"),
```

```

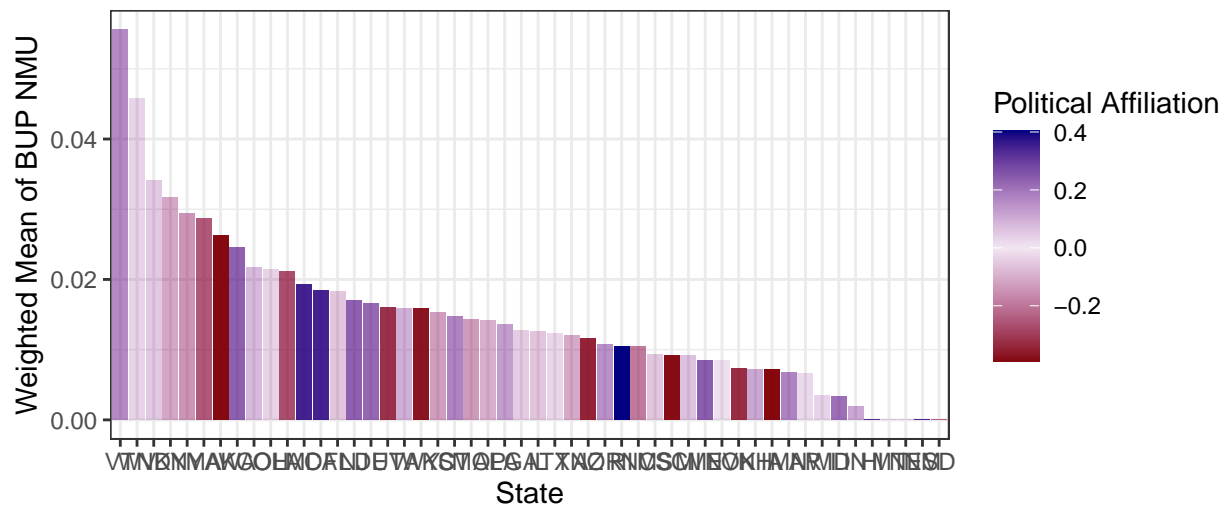
    x = "State", y = str_c("Weighted Mean of ",
                           names(nmu_politics)[i], " NMU"))
}

```

Weighted Mean of FENT NMU by State and Political Affiliation



Weighted Mean of BUP NMU by State and Political Affiliation

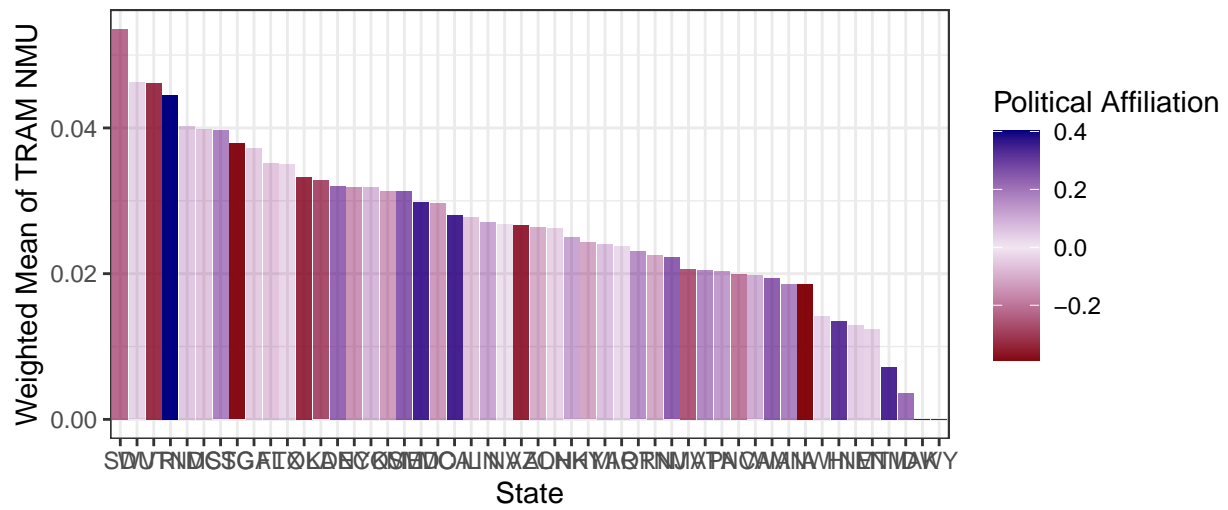


[illegible][illegible]

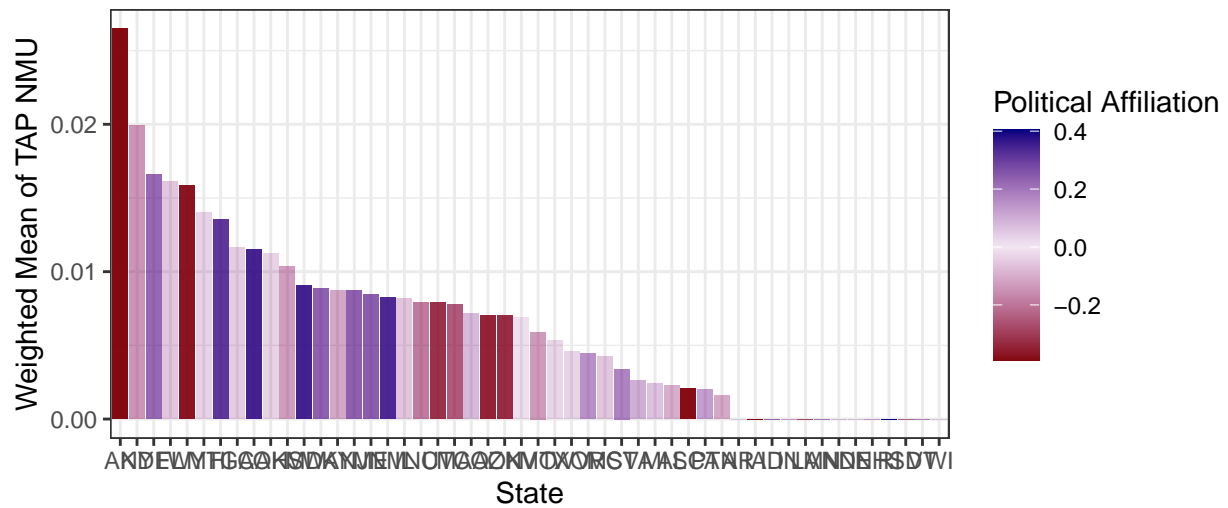
[illegible]

A bar chart showing the Weighted Mean of OXYM NMU for each of the 50 US states. The y-axis is labeled 'Weighted Mean of OXYM NMU' and ranges from 0.00 to 0.03. The x-axis is labeled 'State' and lists the states in descending order of their weighted mean. The bars are colored based on 'Political Affiliation', with a color scale ranging from -0.4 (dark red) to 0.4 (dark blue), with 0.0 being a light purple. The chart shows that states with higher weighted means tend to have more negative political affiliations, while states with lower weighted means tend to have more positive political affiliations.

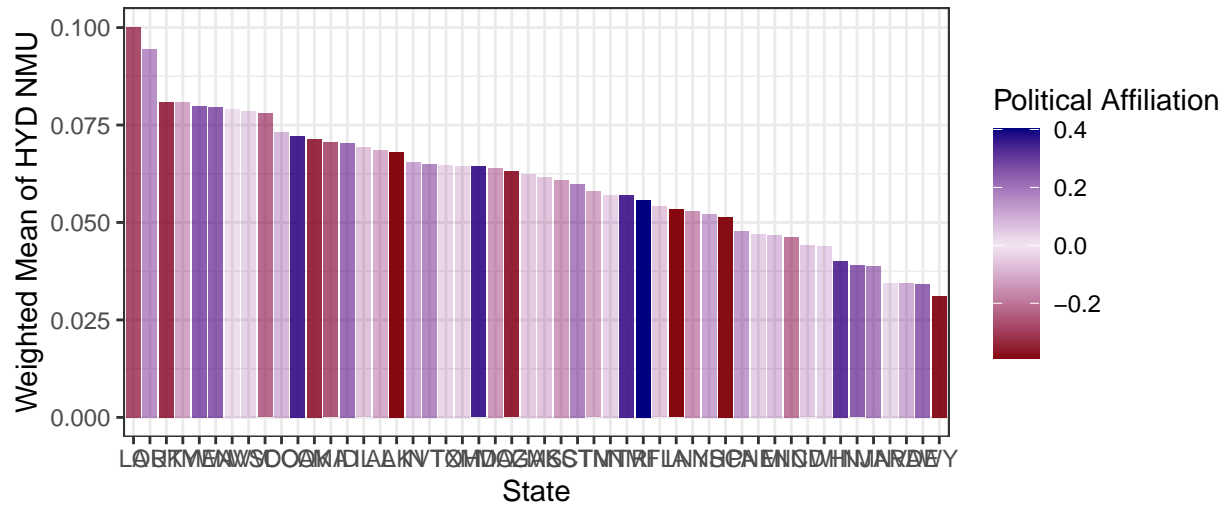
Weighted Mean of TRAM NMU by State and Political Affiliation



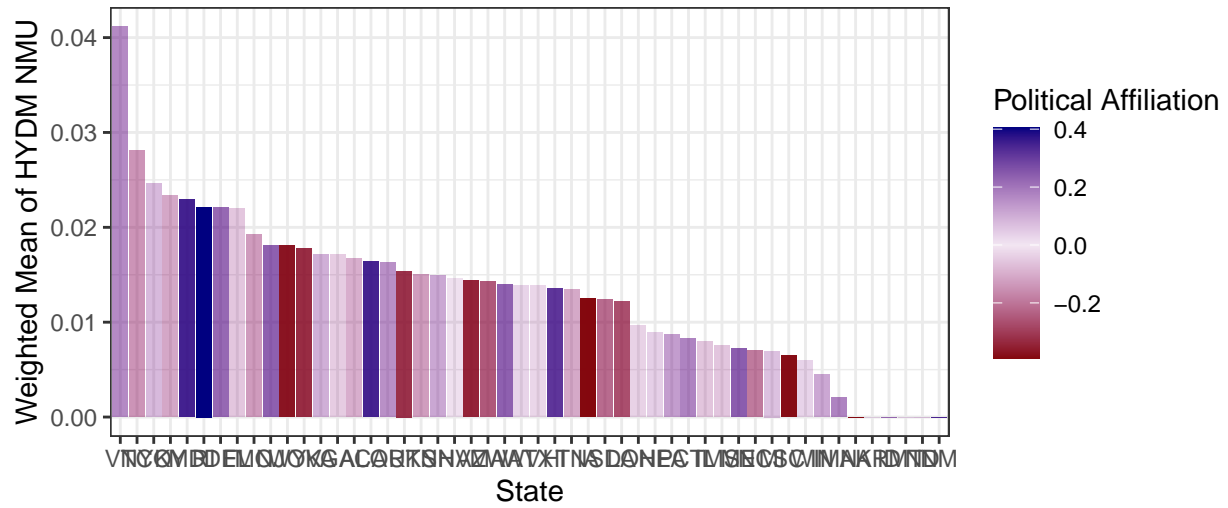
Weighted Mean of TAP NMU by State and Political Affiliation



Weighted Mean of HYD NMU by State and Political Affiliation



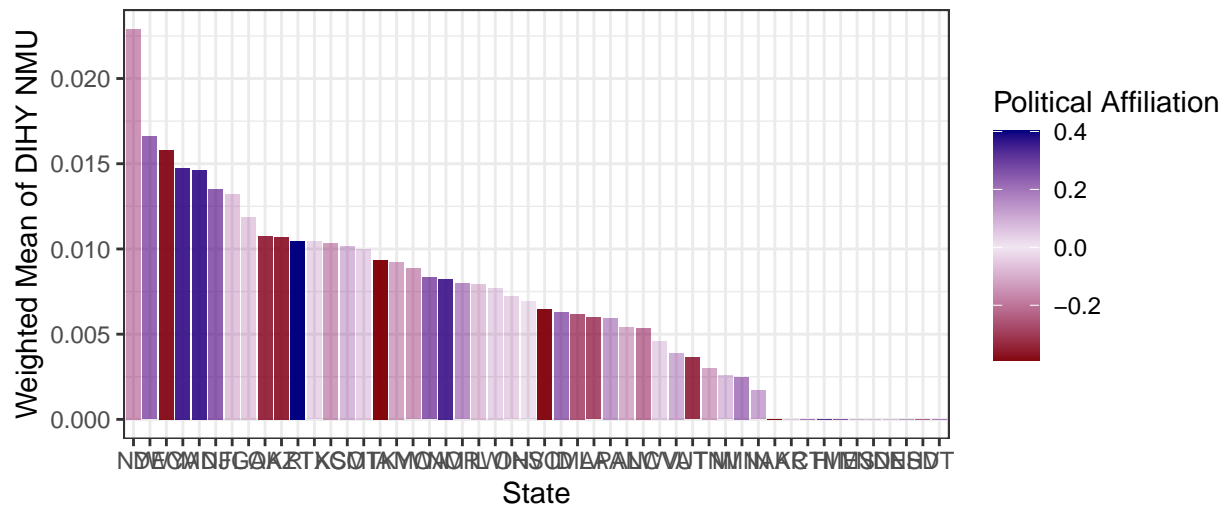
Weighted Mean of HYDM NMU by State and Political Affiliation



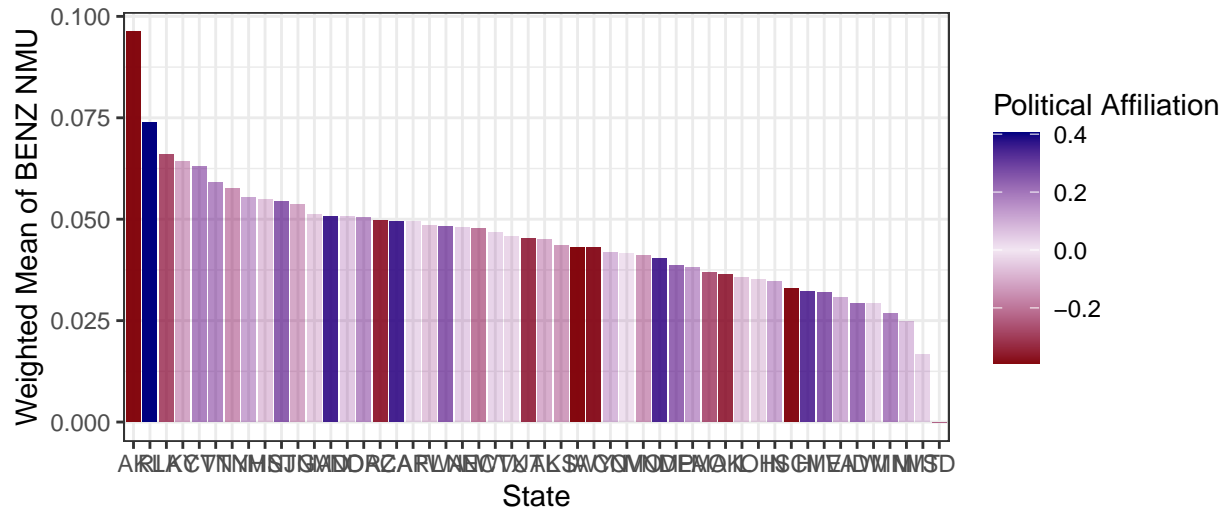
[illegible]

A bar chart showing the Weighted Mean of COD NMU (Y-axis, ranging from 0.00 to 0.10) across various US States (X-axis). The bars are colored based on Political Affiliation, with a color scale ranging from -0.2 (dark red) to 0.4 (dark blue). The chart shows a general downward trend in the weighted mean of COD NMU as the states are ordered from left to right. The color of the bars indicates the political affiliation of the state, with dark red representing a negative affiliation and dark blue representing a positive affiliation.

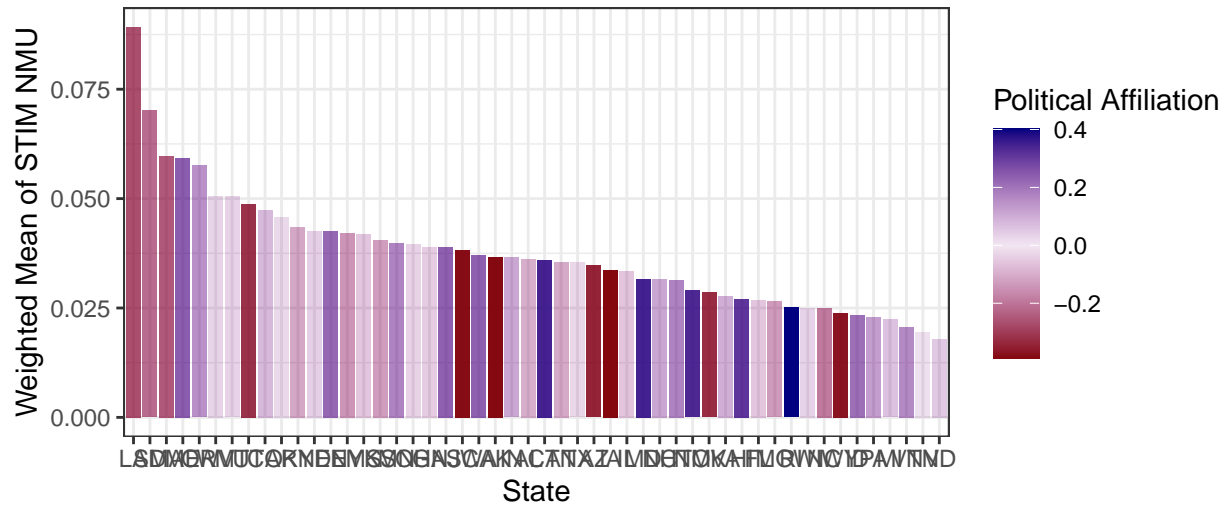
Weighted Mean of DIHY NMU by State and Political Affiliation



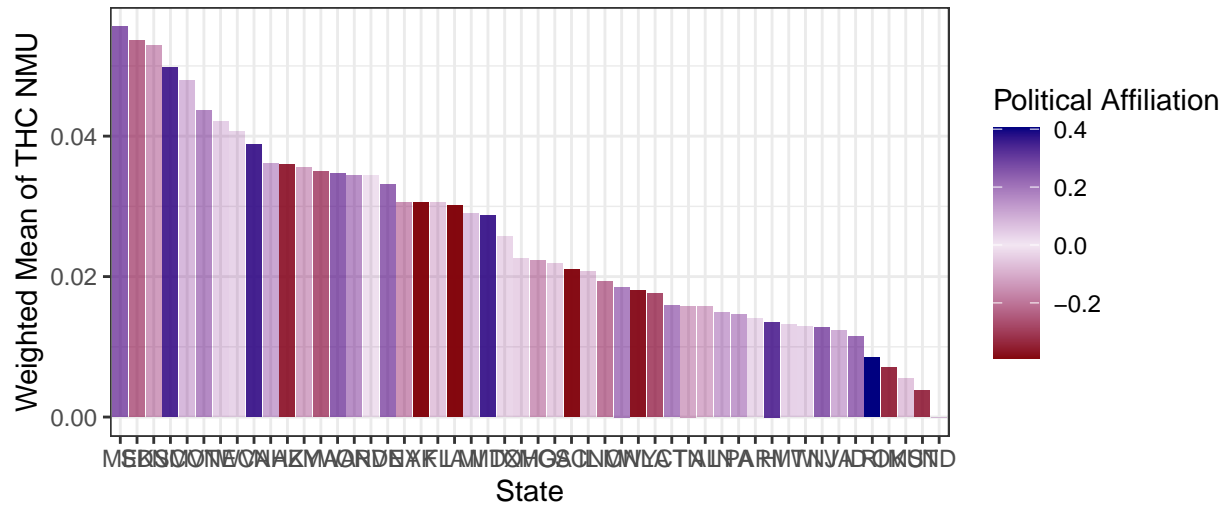
Weighted Mean of BENZ NMU by State and Political Affiliation



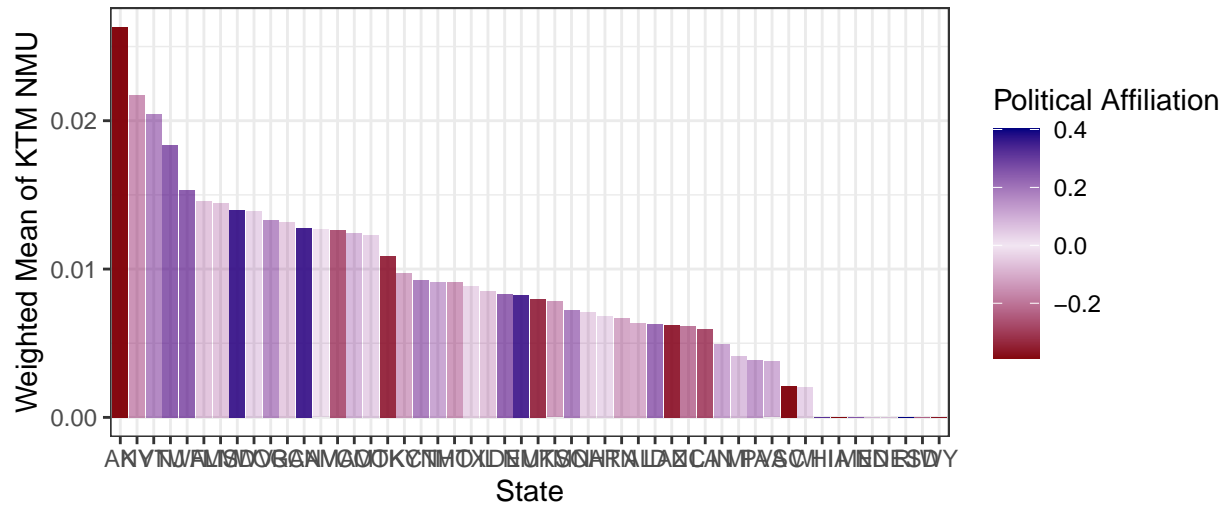
Weighted Mean of STIM NMU by State and Political Affiliation



Weighted Mean of THC NMU by State and Political Affiliation



Weighted Mean of KTM NMU by State and Political Affiliation



Weighted Mean of dast NMU by State and Political Affiliation

