

BGNVisualization

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3/17/2021

```
ACGR_state_longformat$acgr <- as.numeric(as.character(unlist(ACGR_state_longformat$acgr)))

## Warning: NAs introduced by coercion
states = unique(ACGR_state_longformat$state)
state_ACGR_plots = list()

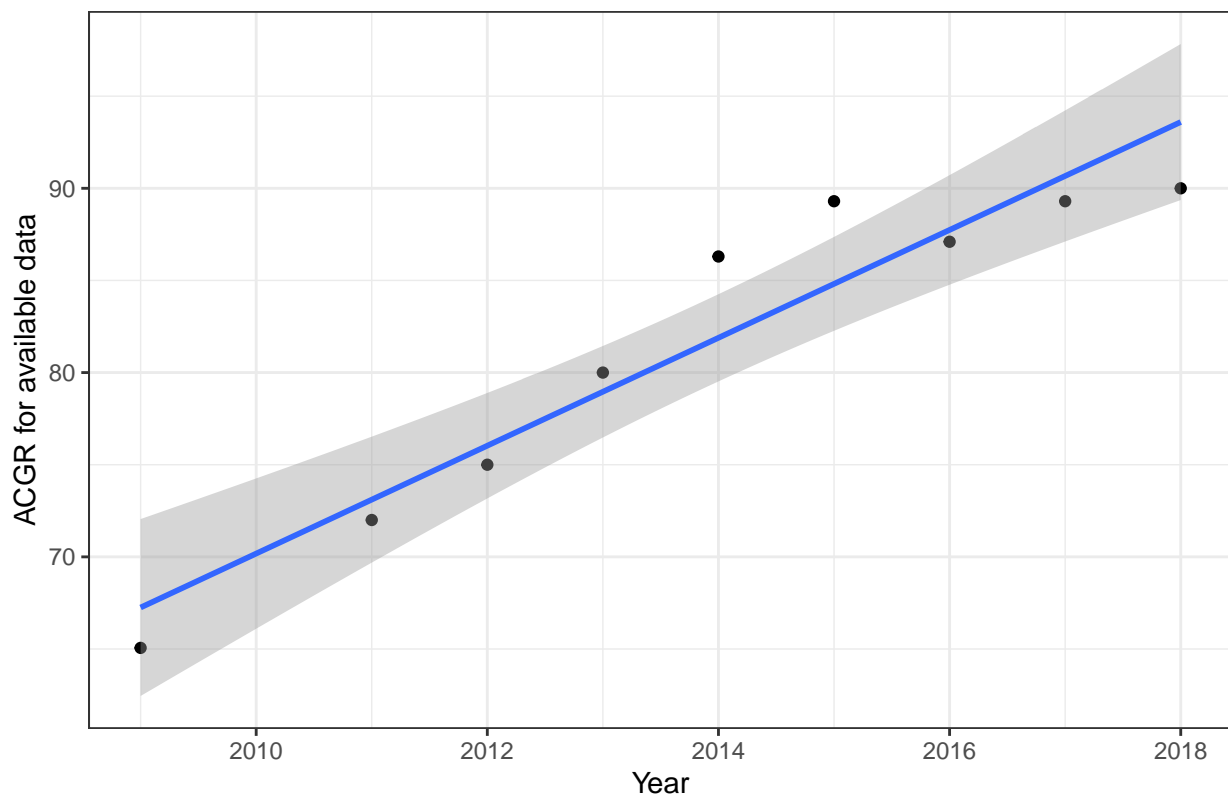
for (state_ in states) {
  state_ACGR_plots[[state_]] = ggplot(ACGR_state_longformat %>% filter(state == state_ & acgr != "NA"),

  print(state_ACGR_plots[state_])
}
```

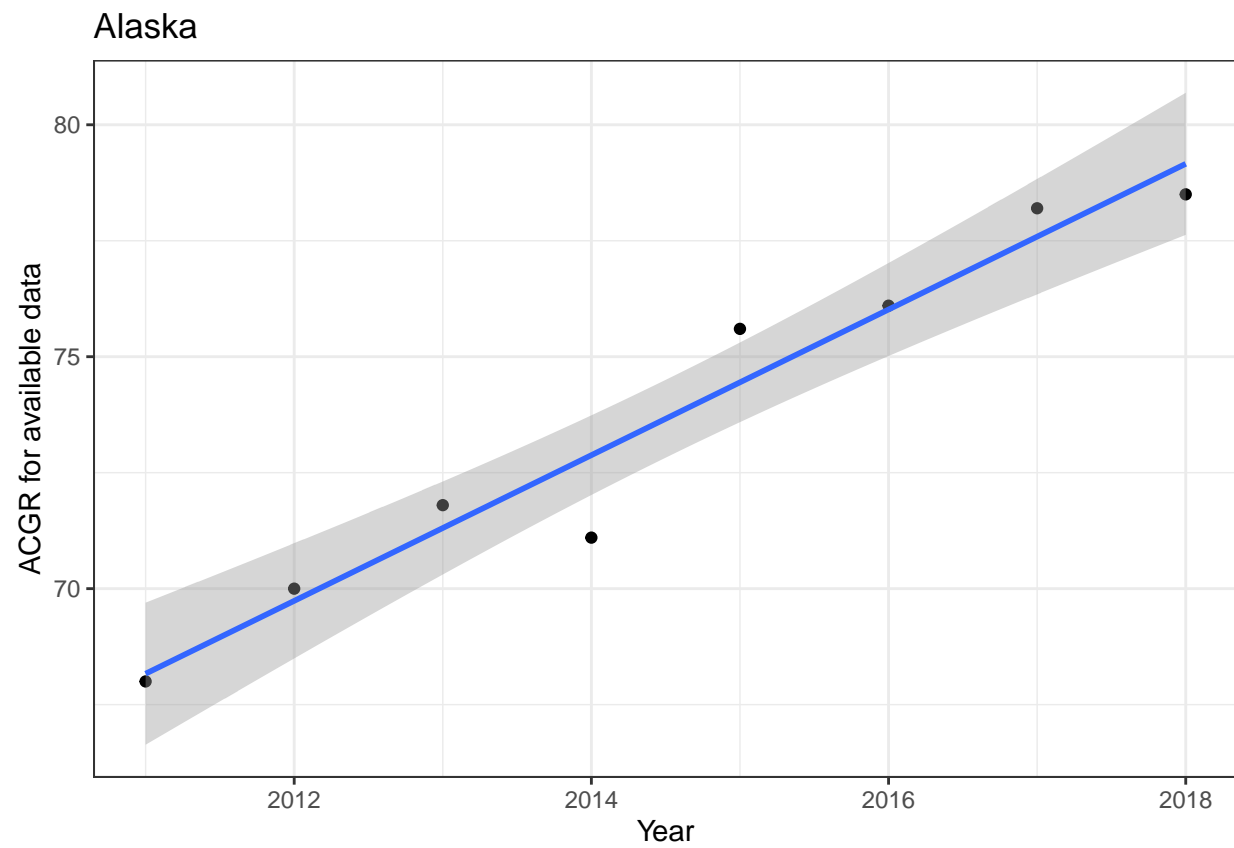
```
## $Alabama
```

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

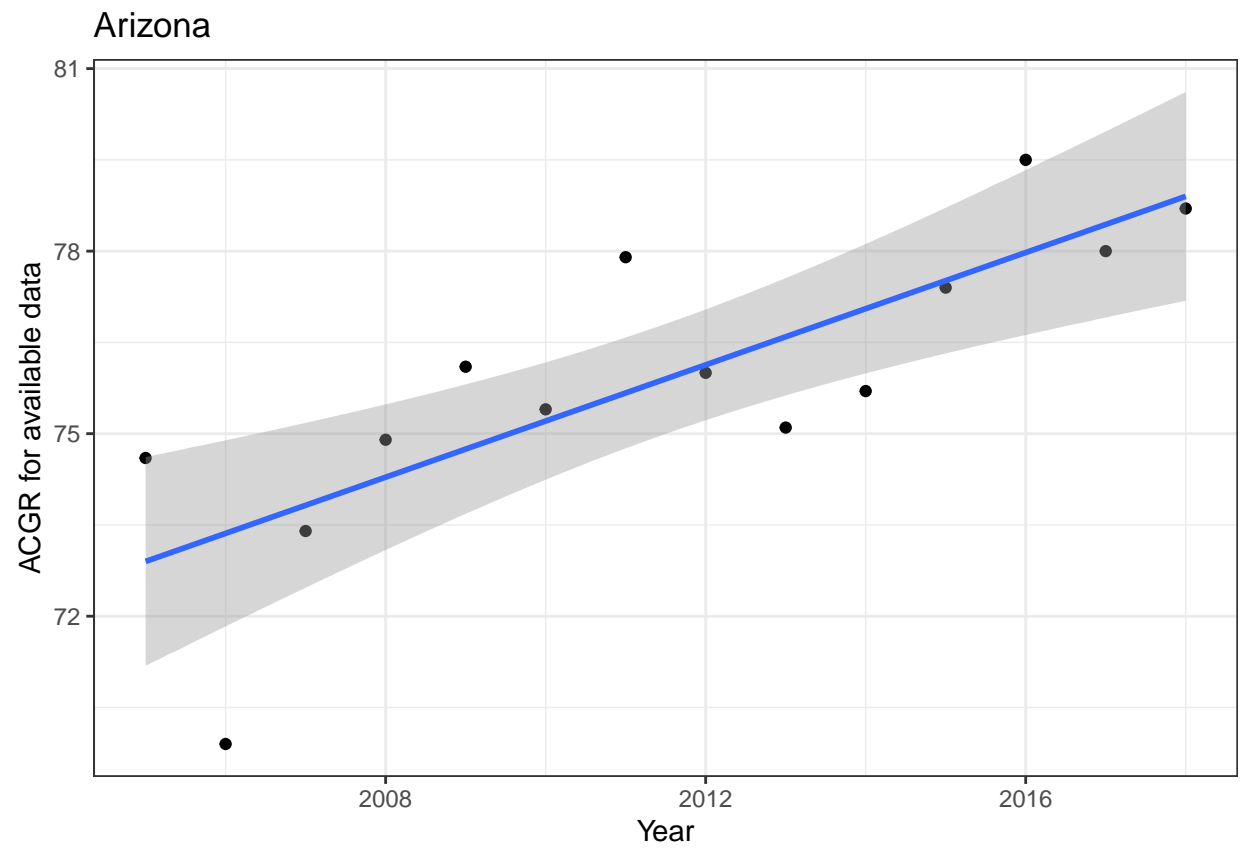
Alabama



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

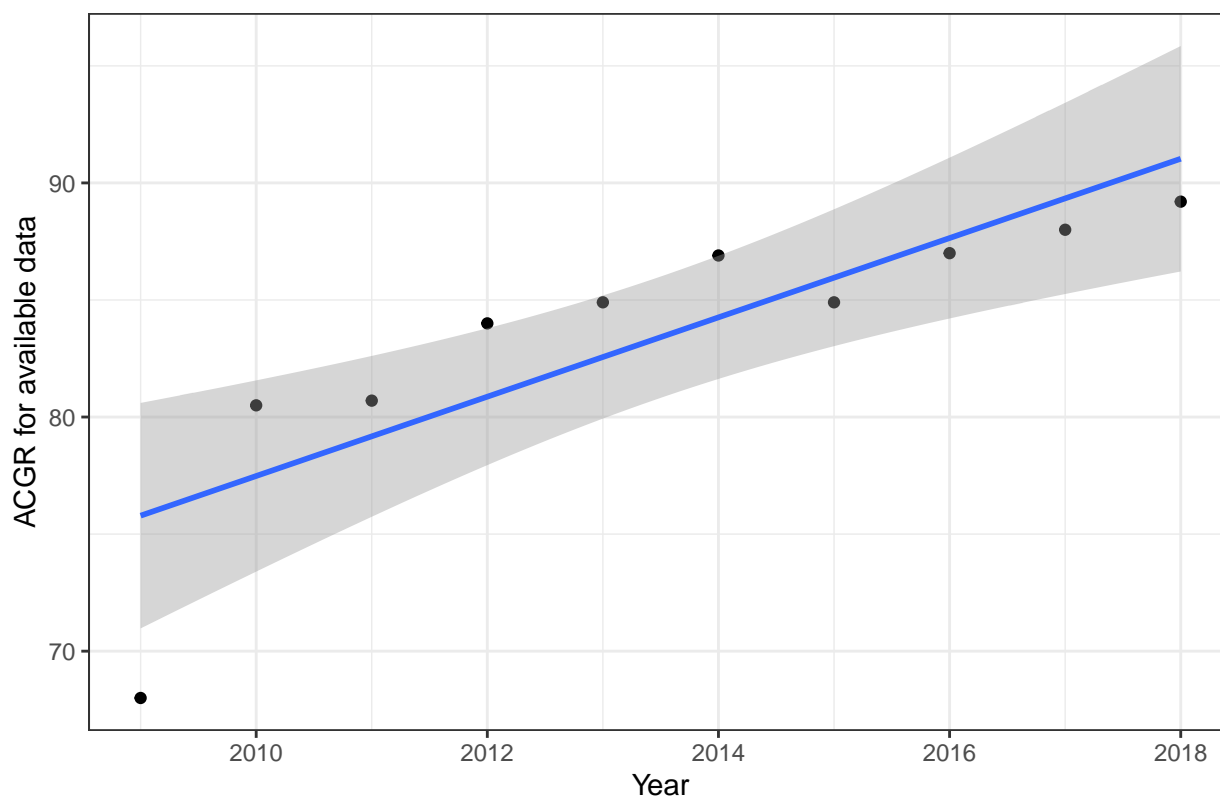


```
##  
## $Arizona  
## `geom_smooth()` using formula 'y ~ x'
```



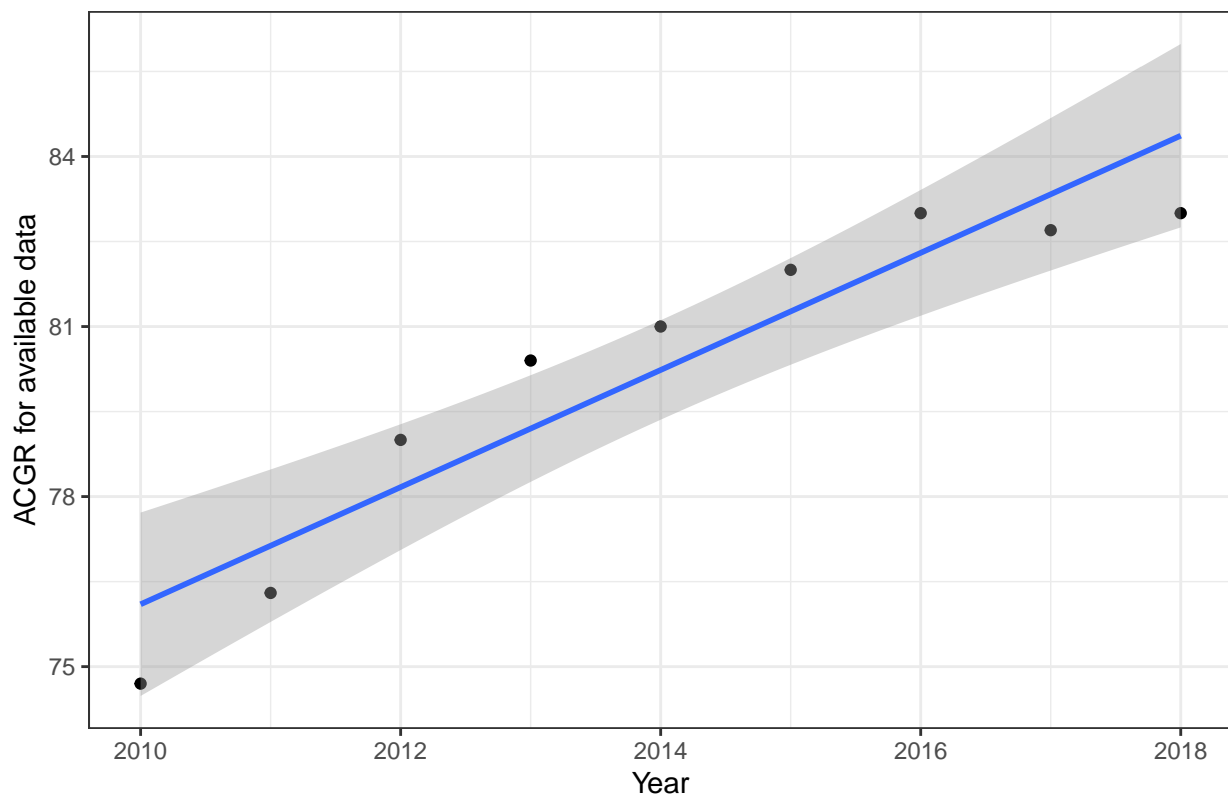
```
##  
## $Arkansas  
## `geom_smooth()` using formula 'y ~ x'
```

Arkansas

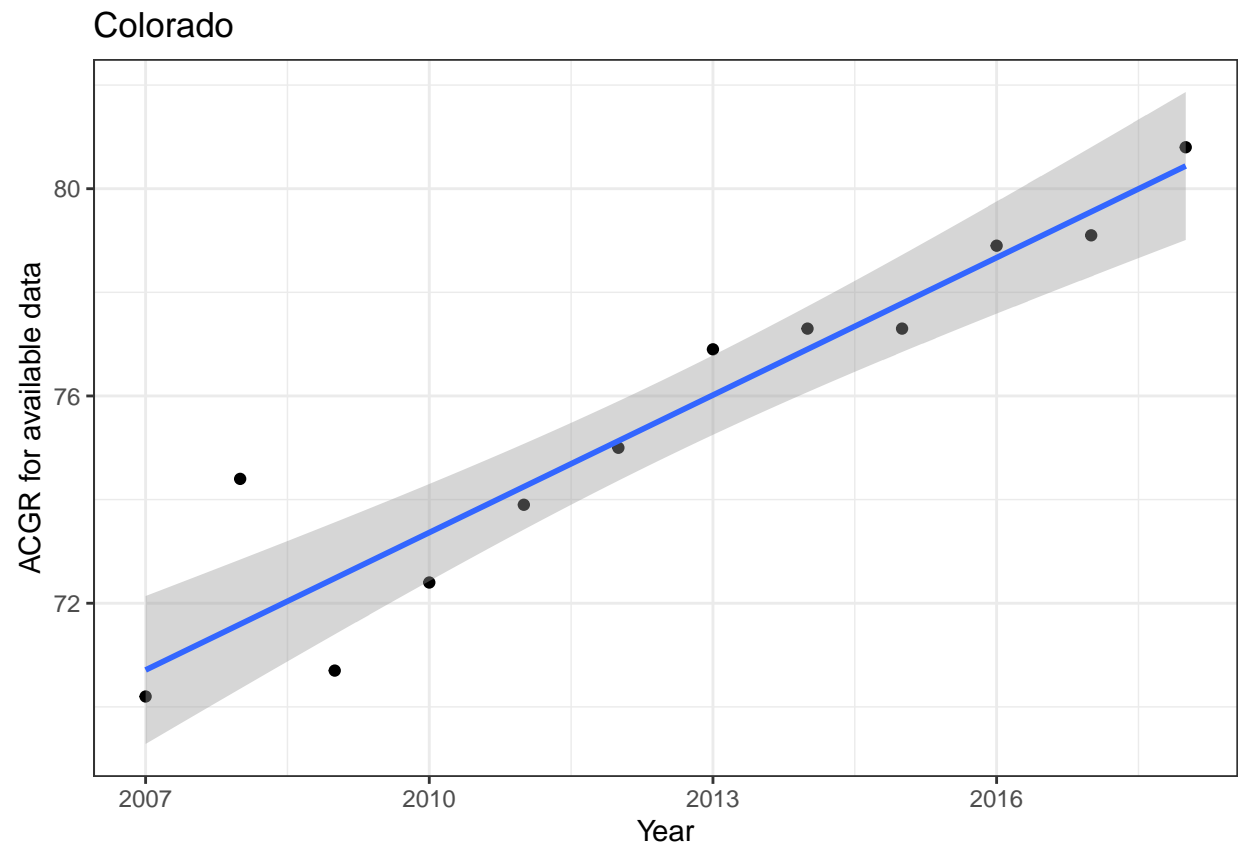


```
##  
## $California  
## `geom_smooth()` using formula 'y ~ x'
```

California

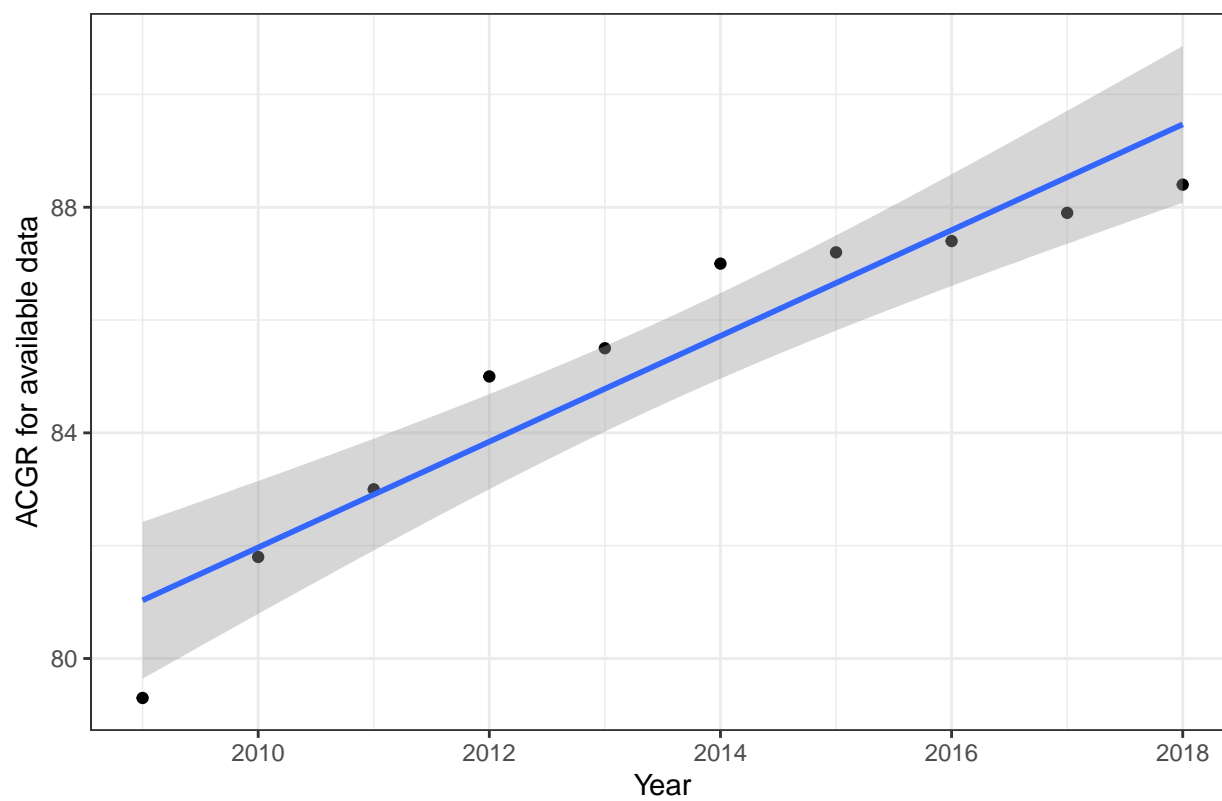


```
##  
## $Colorado  
## `geom_smooth()` using formula 'y ~ x'
```

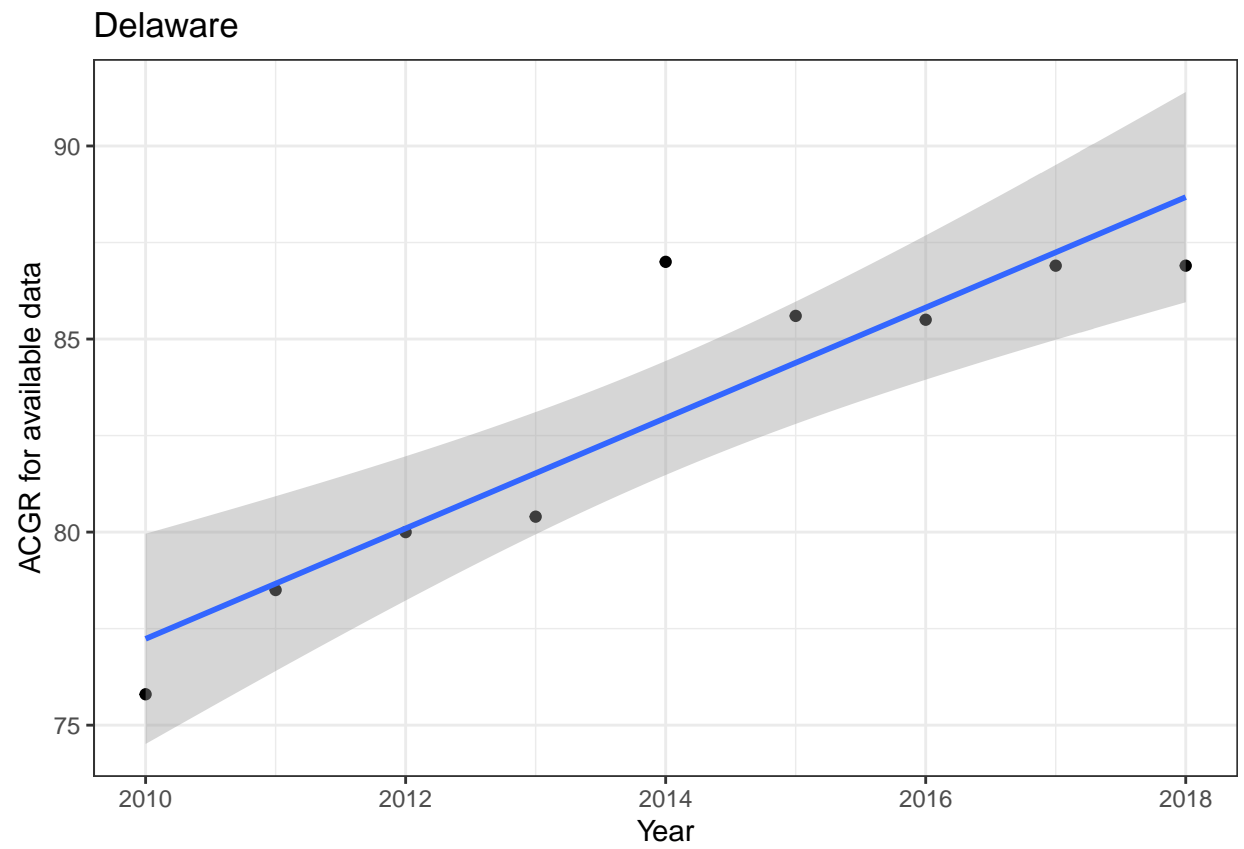


```
##  
## $Connecticut  
## `geom_smooth()` using formula 'y ~ x'
```

Connecticut

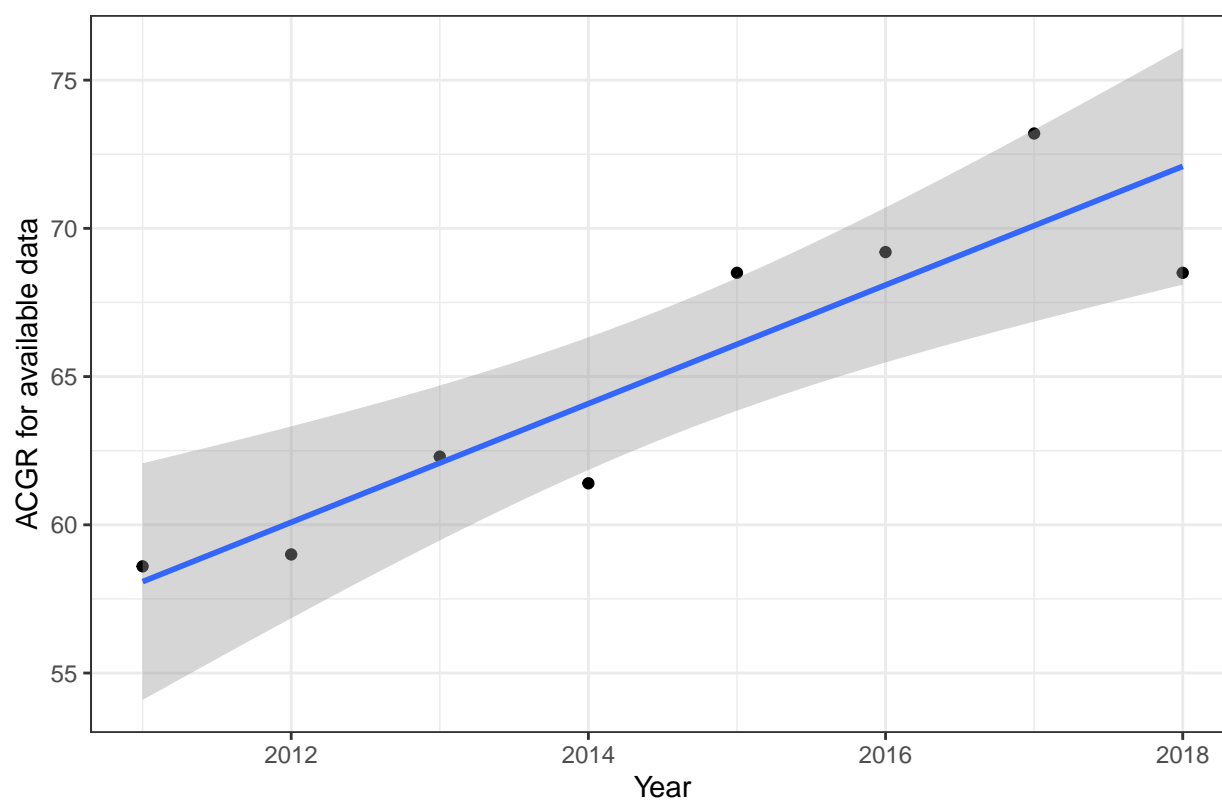


```
##  
## $Delaware  
## `geom_smooth()` using formula 'y ~ x'
```

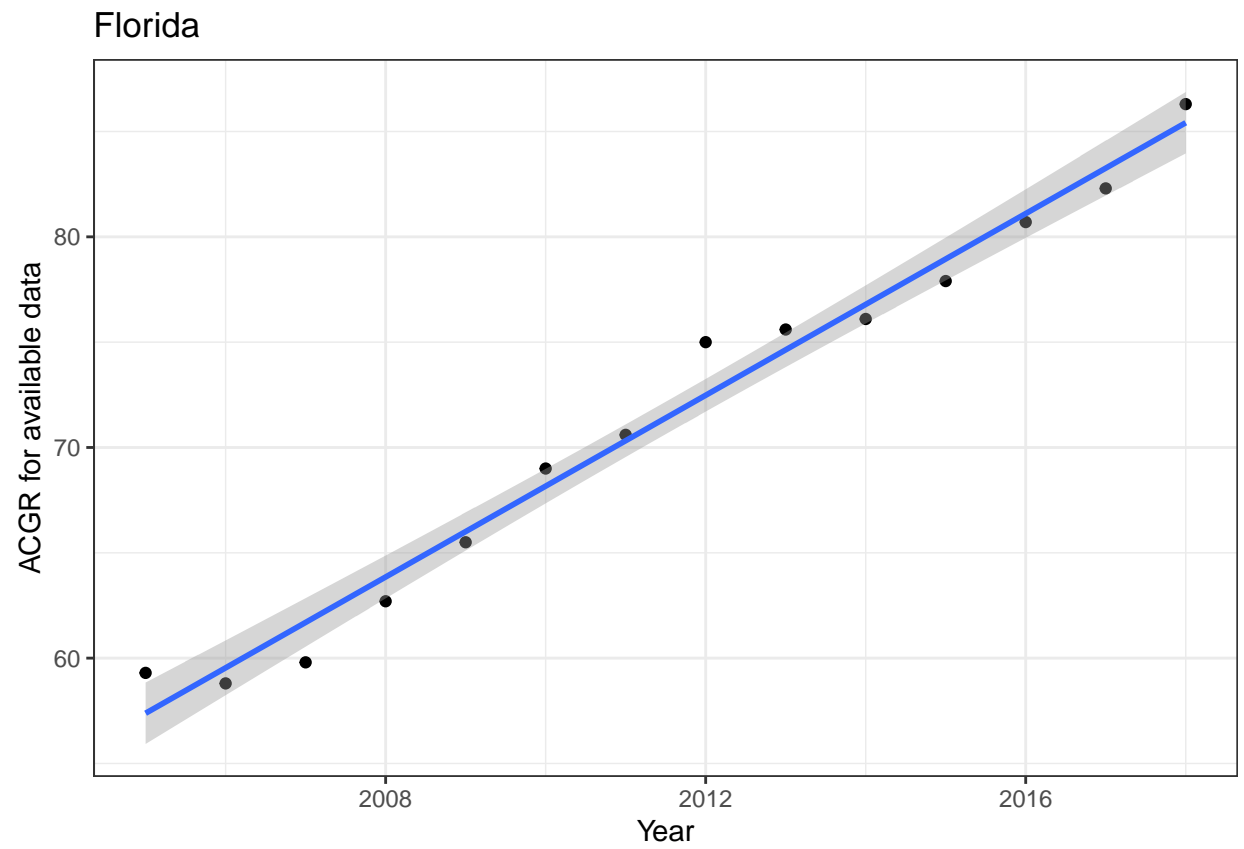


```
##  
## $`District of Columbia`  
## `geom_smooth()`` using formula 'y ~ x'
```

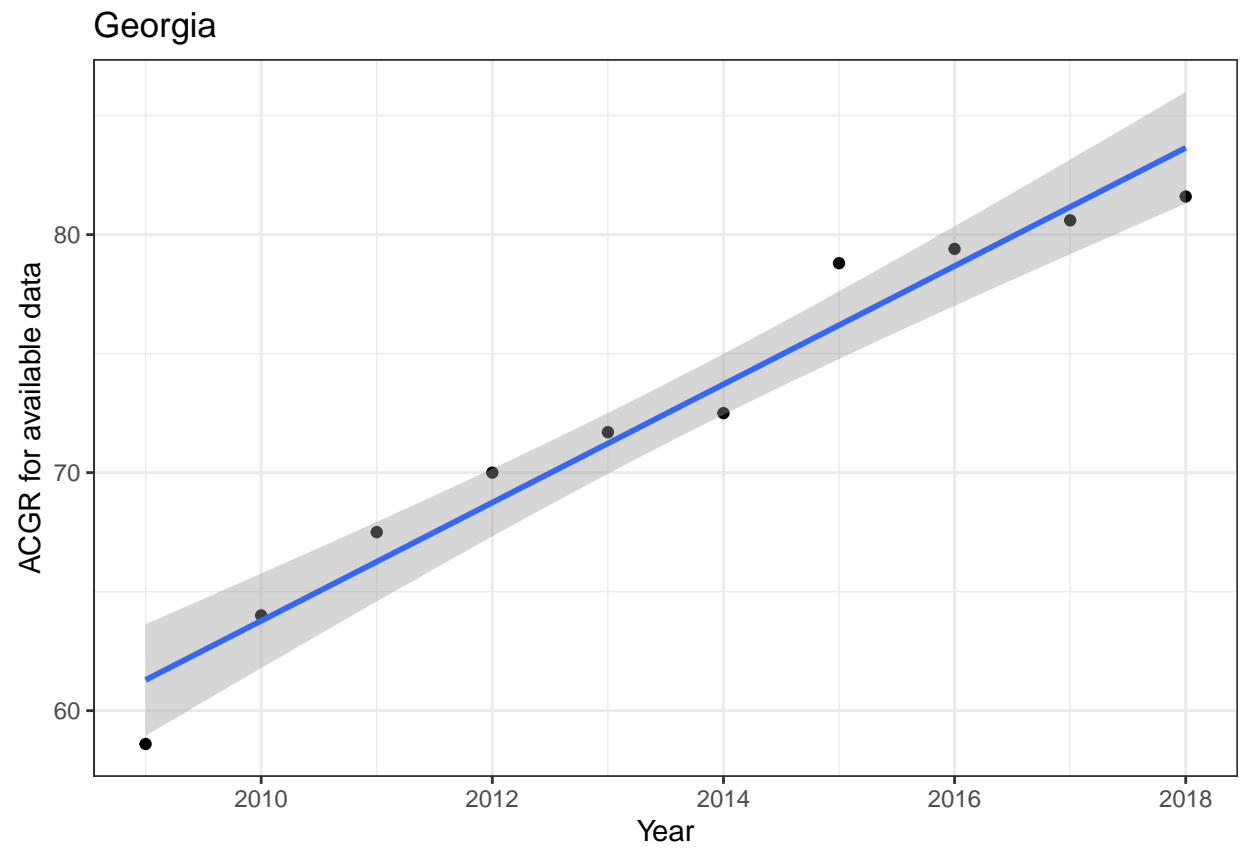

District of Columbia



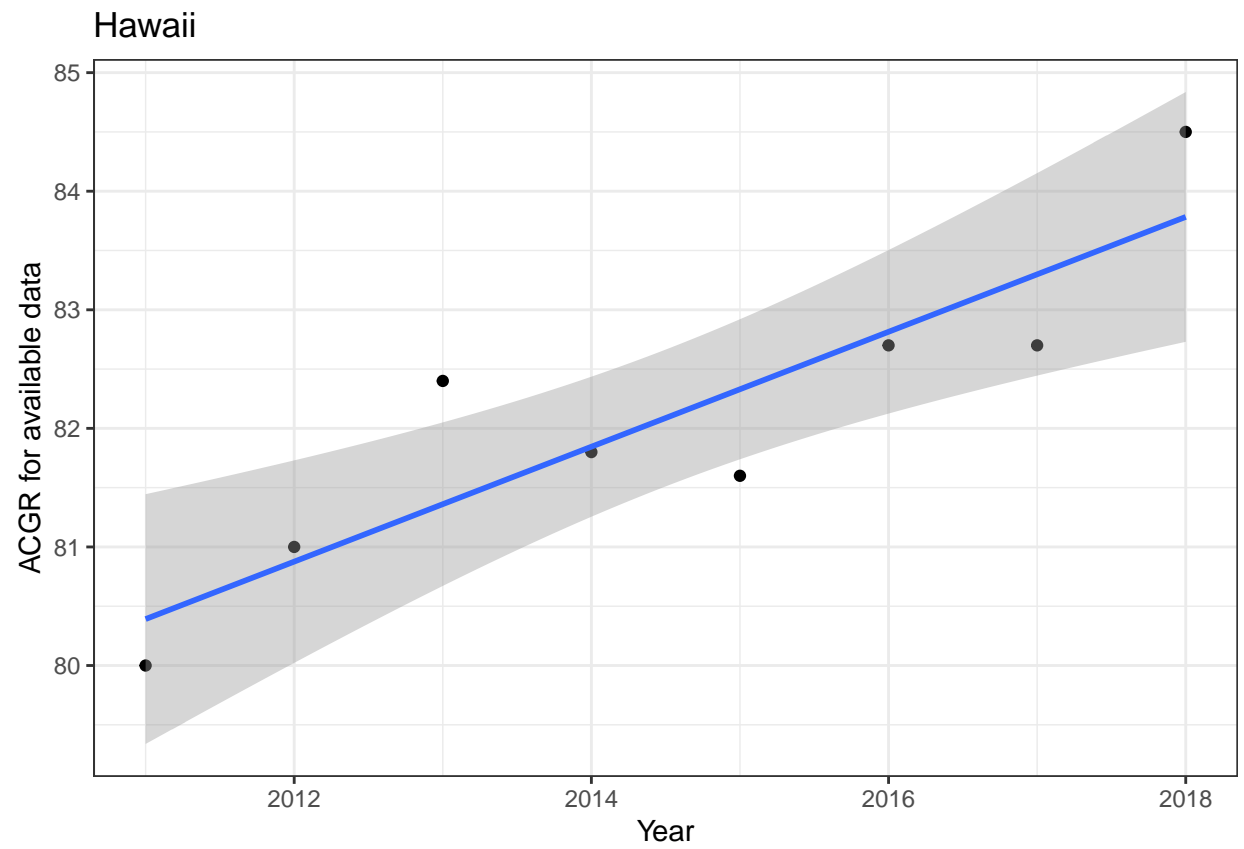
```
##  
## $Florida  
## `geom_smooth()` using formula 'y ~ x'
```



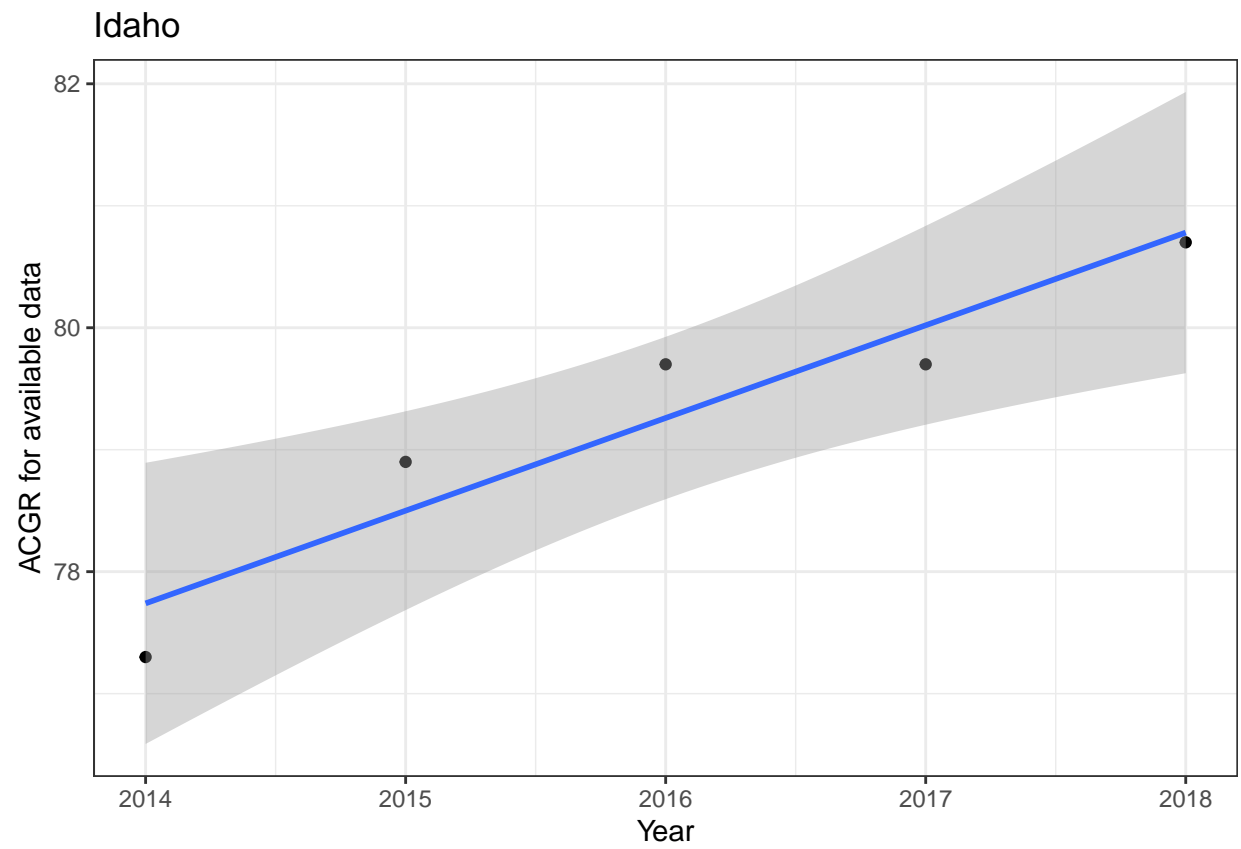
```
##  
## $Georgia  
## `geom_smooth()` using formula 'y ~ x'
```



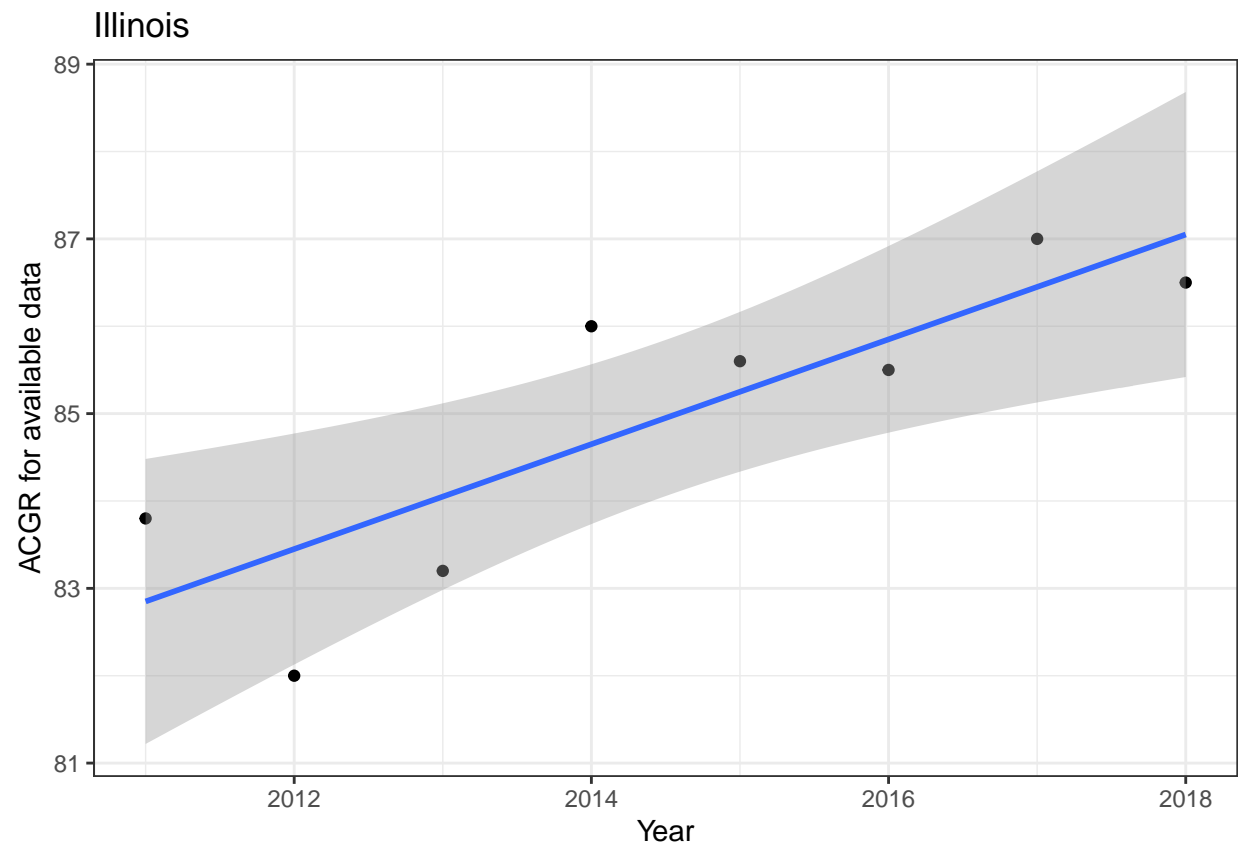
```
##  
## $Hawaii  
## `geom_smooth()` using formula 'y ~ x'
```



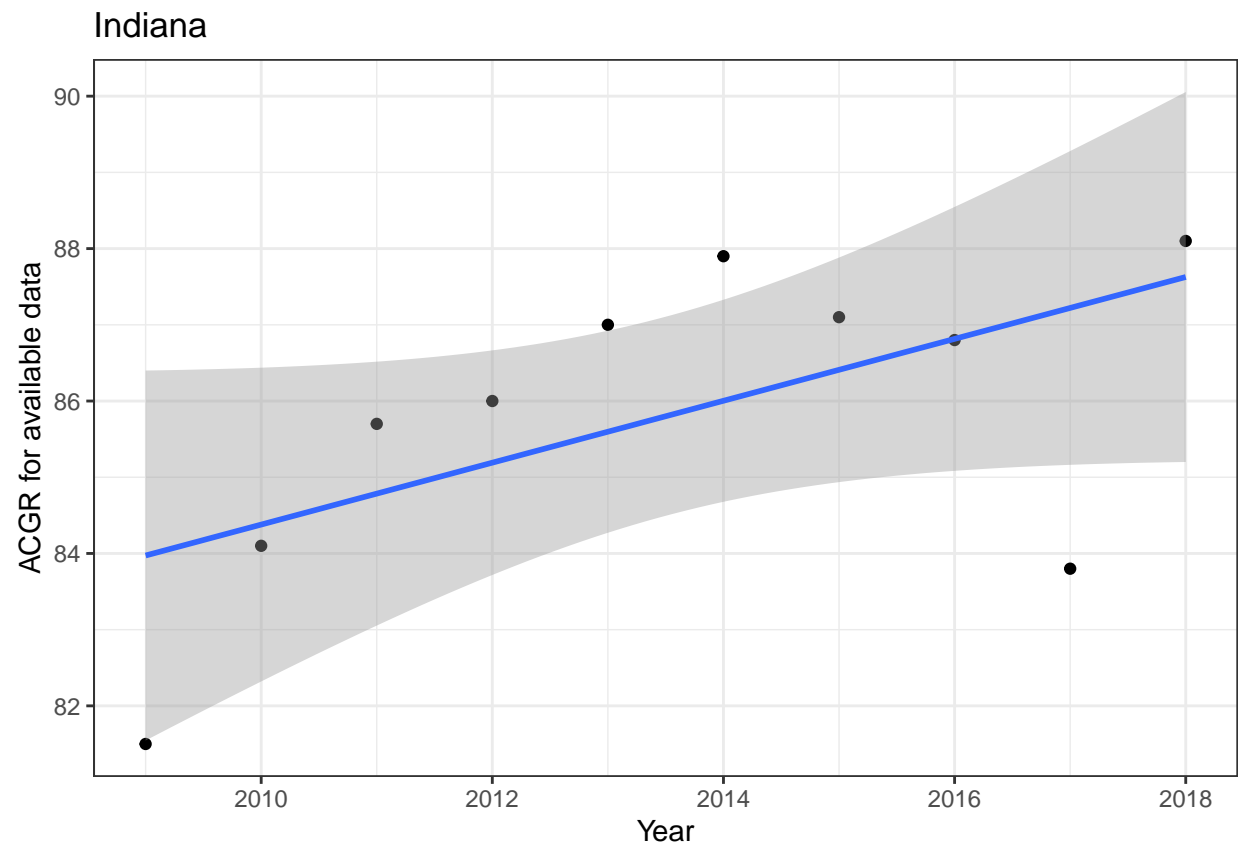
```
##  
## $Idaho  
## `geom_smooth()` using formula 'y ~ x'
```



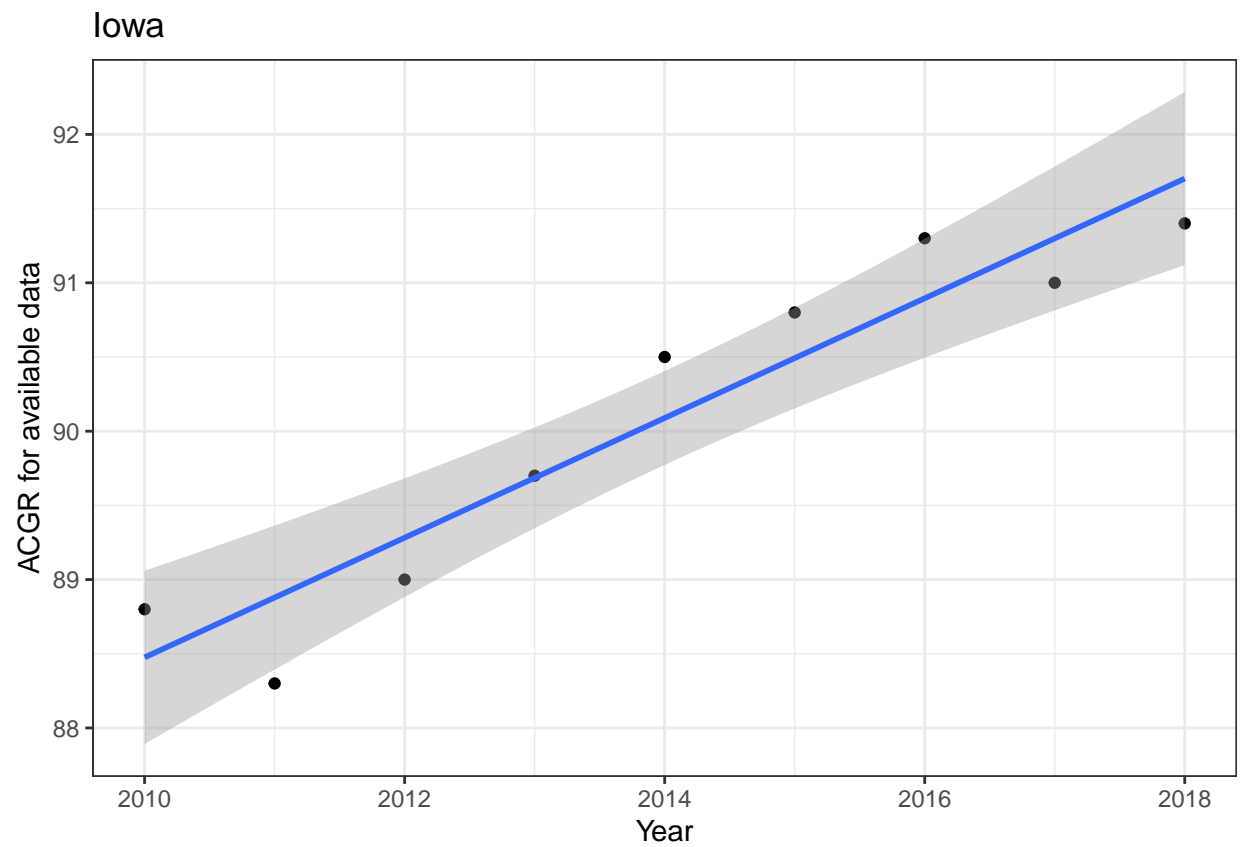
```
##  
## $Illinois  
## `geom_smooth()` using formula 'y ~ x'
```



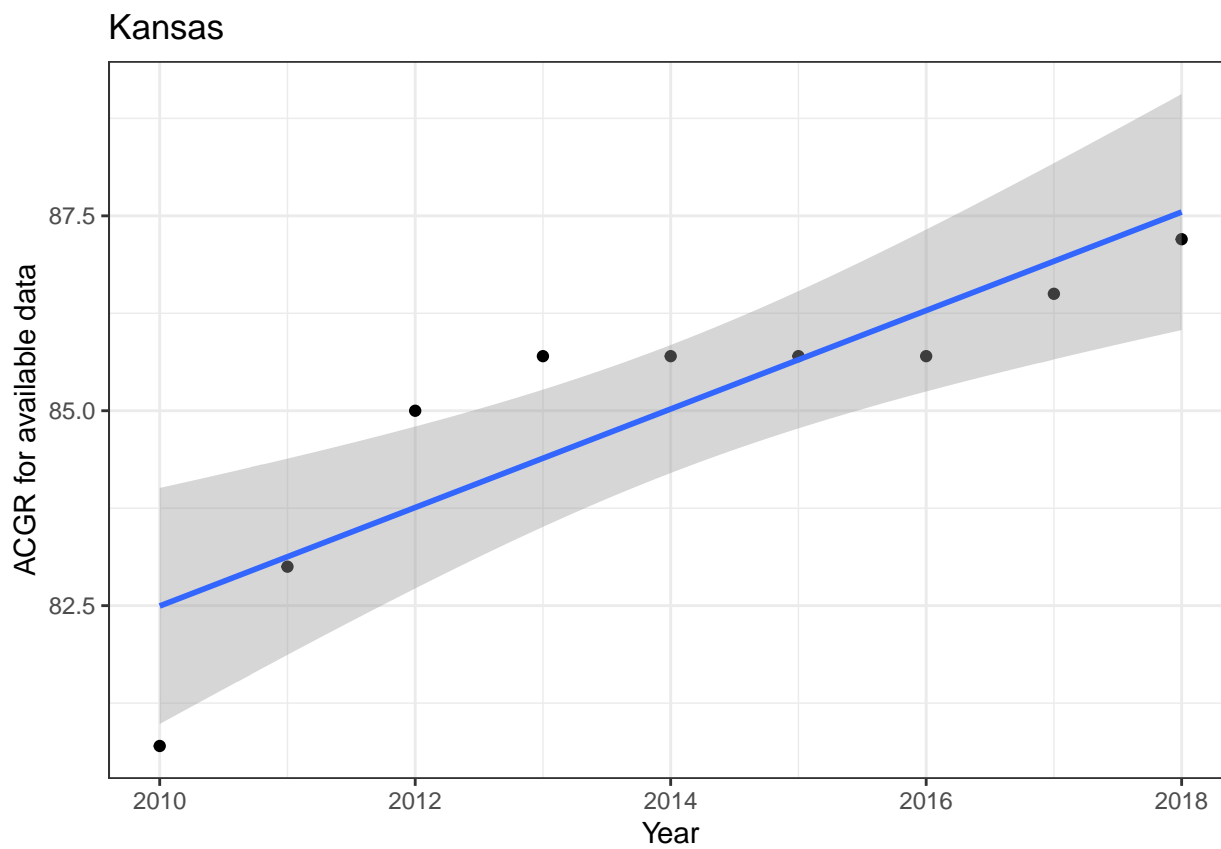
```
##  
## $Indiana  
## `geom_smooth()` using formula 'y ~ x'
```



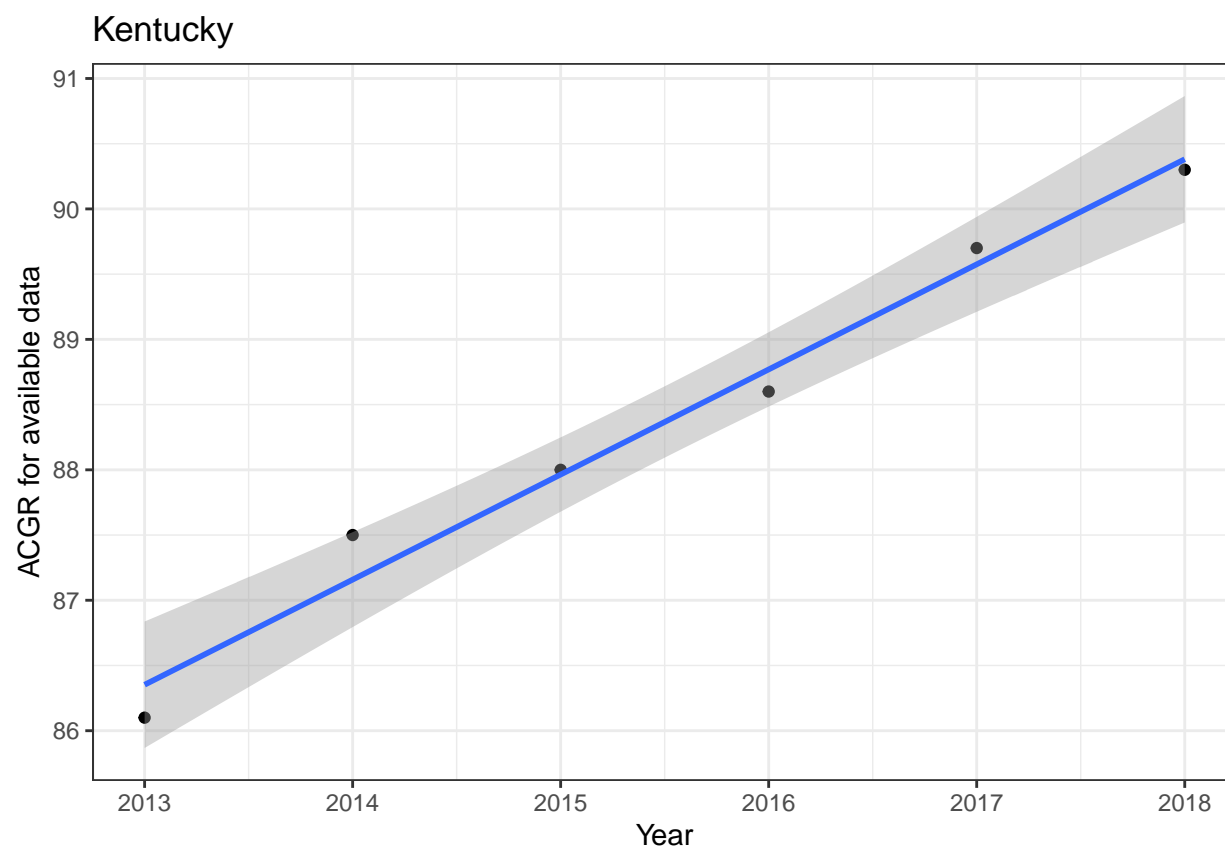
```
##  
## $Iowa  
## `geom_smooth()` using formula 'y ~ x'
```



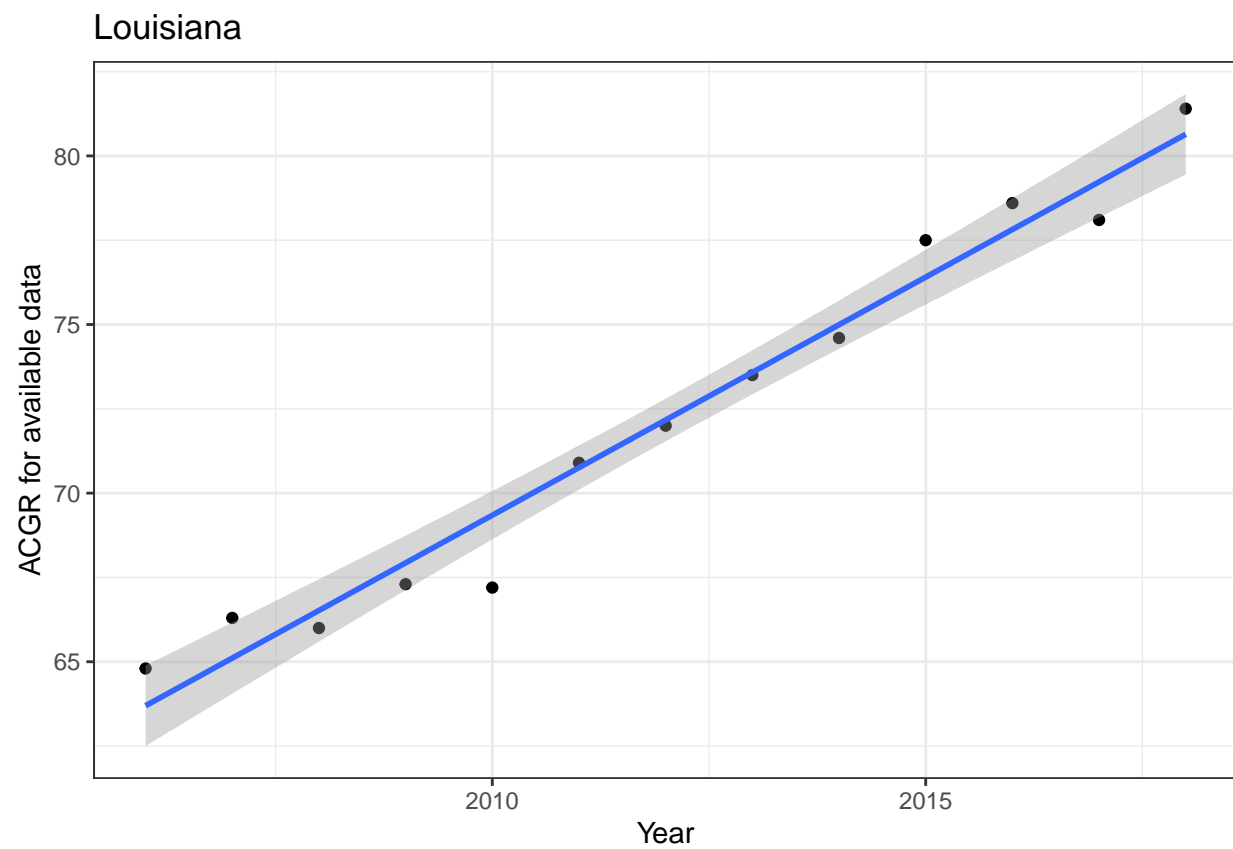
```
##  
## $Kansas  
## `geom_smooth()` using formula 'y ~ x'
```

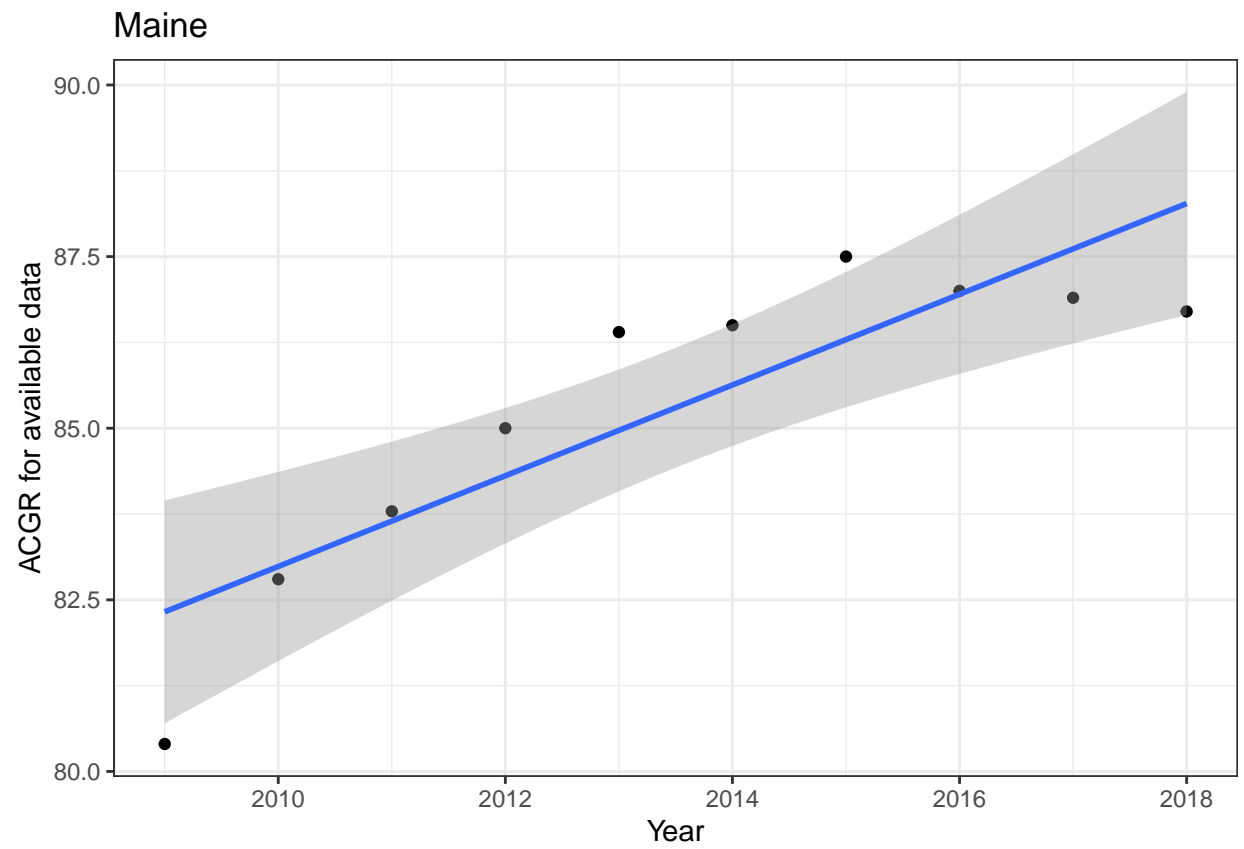
```
##  
## $Kentucky  
## `geom_smooth()` using formula 'y ~ x'
```



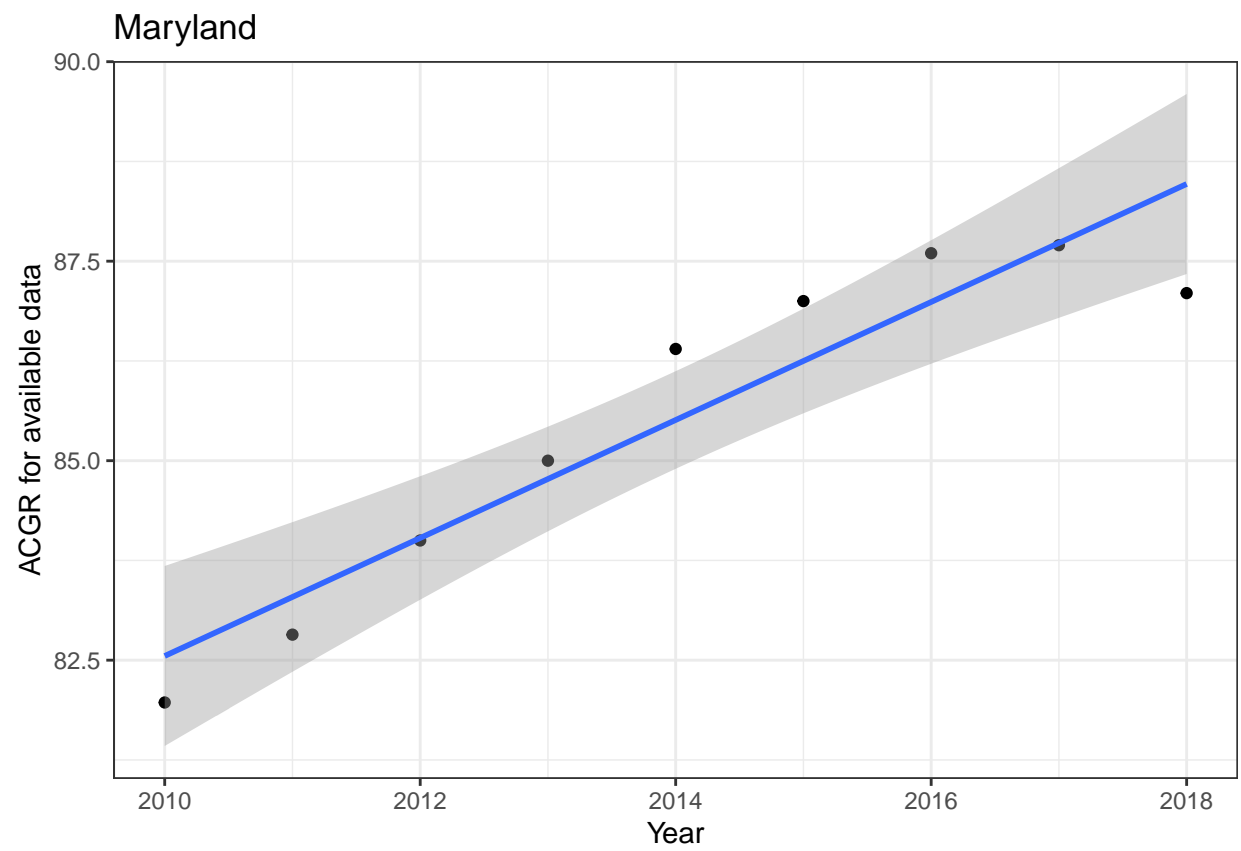
```
##  
## $Louisiana  
## `geom_smooth()` using formula 'y ~ x'
```



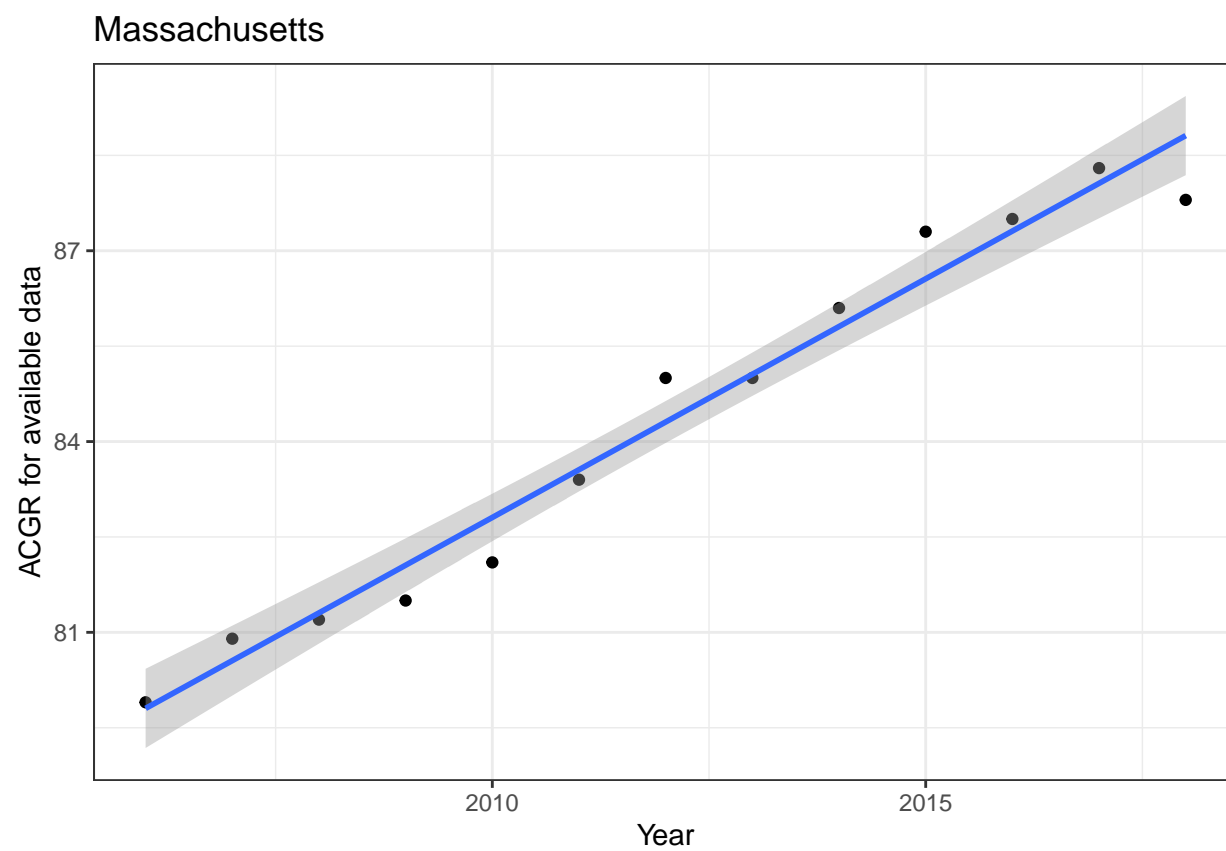
```
##  
## $Maine  
## `geom_smooth()` using formula 'y ~ x'
```



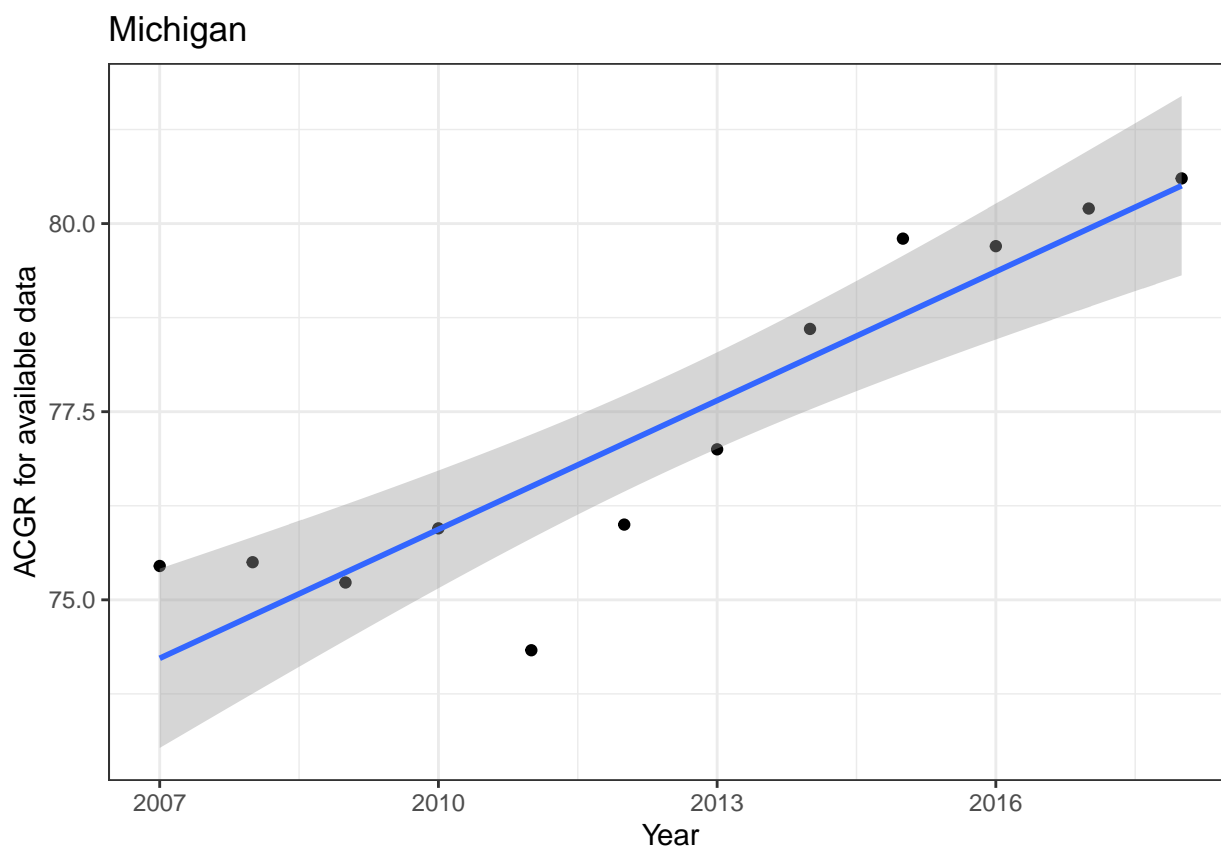
```
##  
## $Maryland  
## `geom_smooth()` using formula 'y ~ x'
```



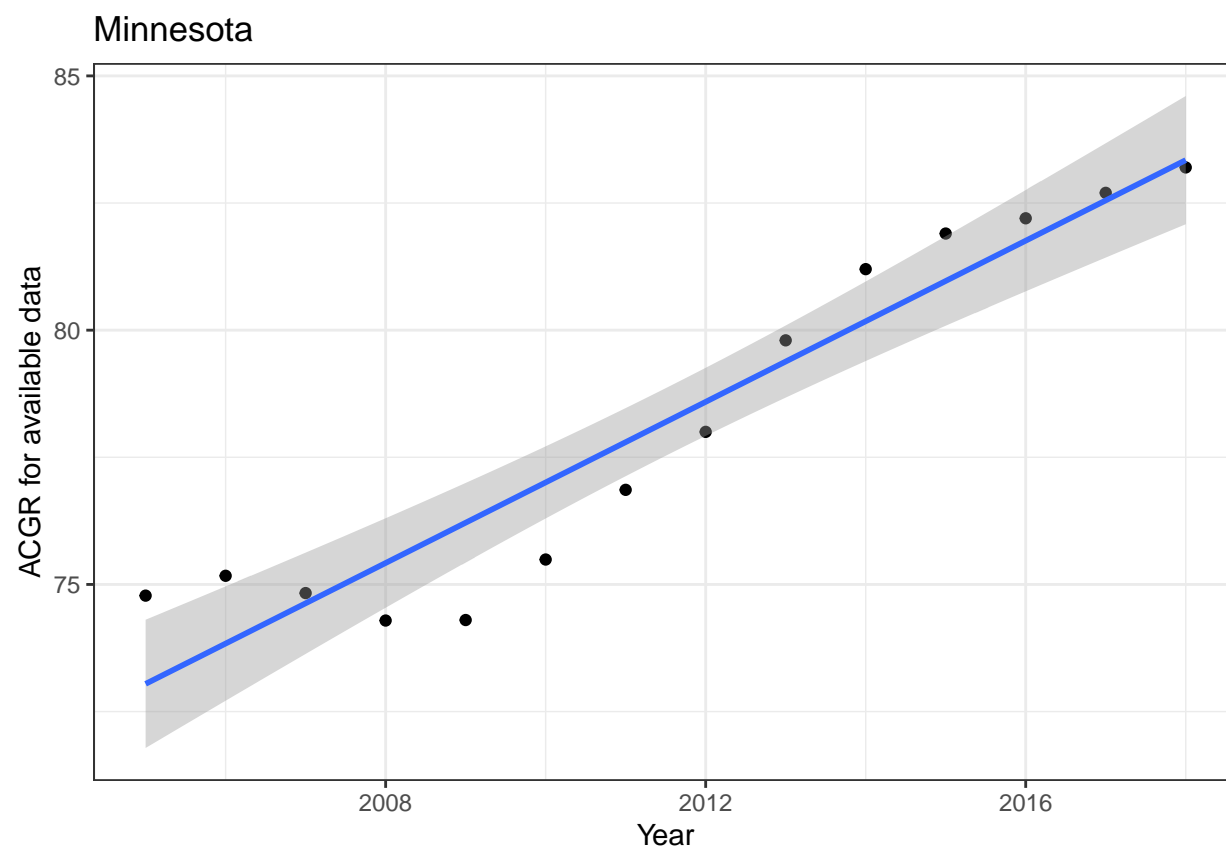
```
##  
## $Massachusetts  
## `geom_smooth()` using formula 'y ~ x'
```



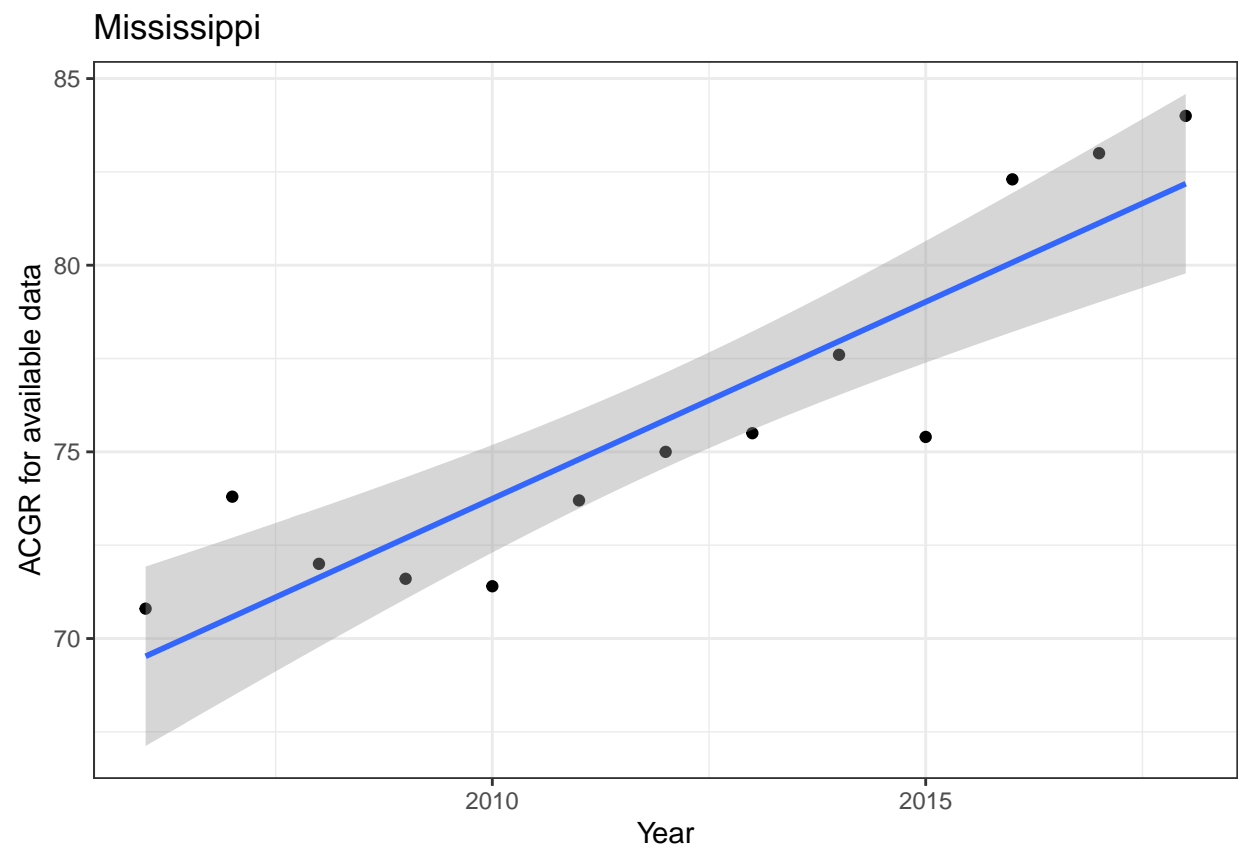
```
##  
## $Michigan  
## `geom_smooth()` using formula 'y ~ x'
```



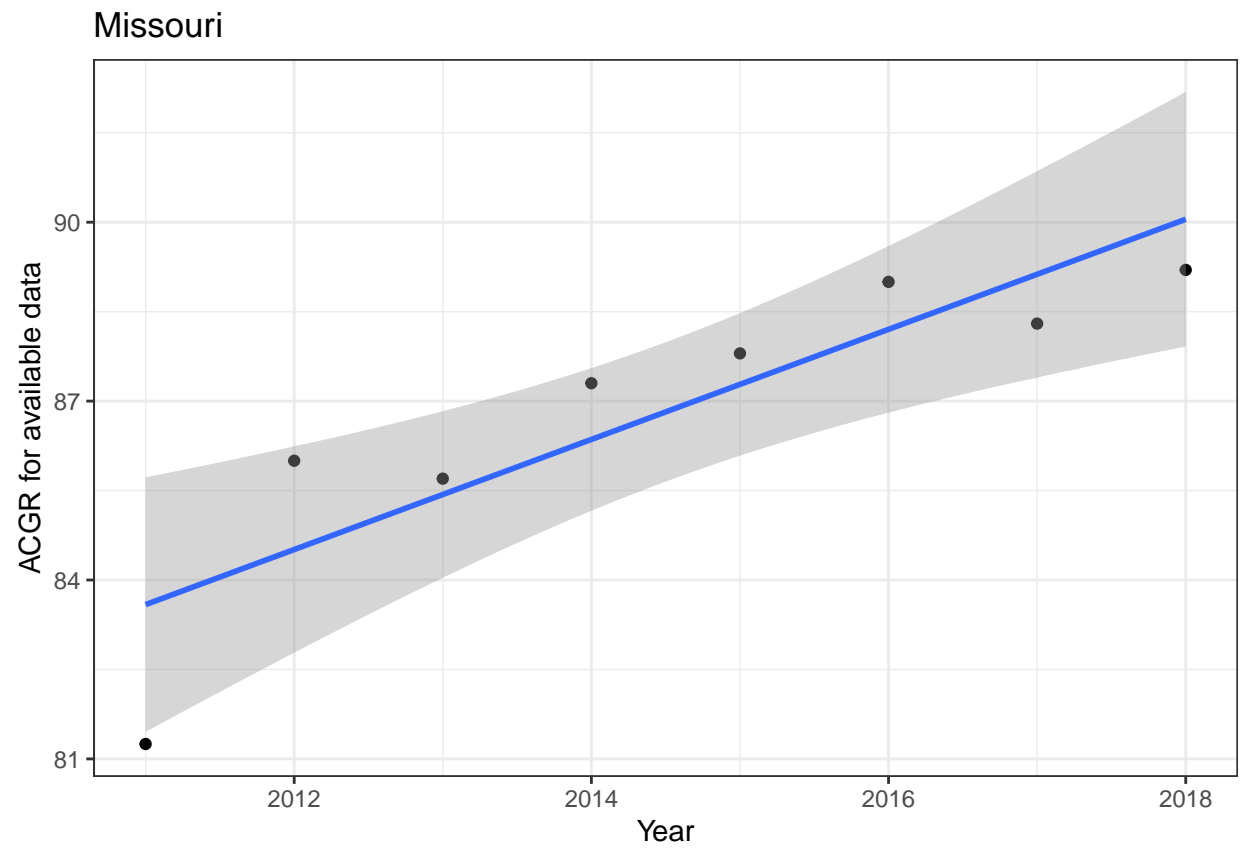
```
##  
## $Minnesota  
## `geom_smooth()` using formula 'y ~ x'
```



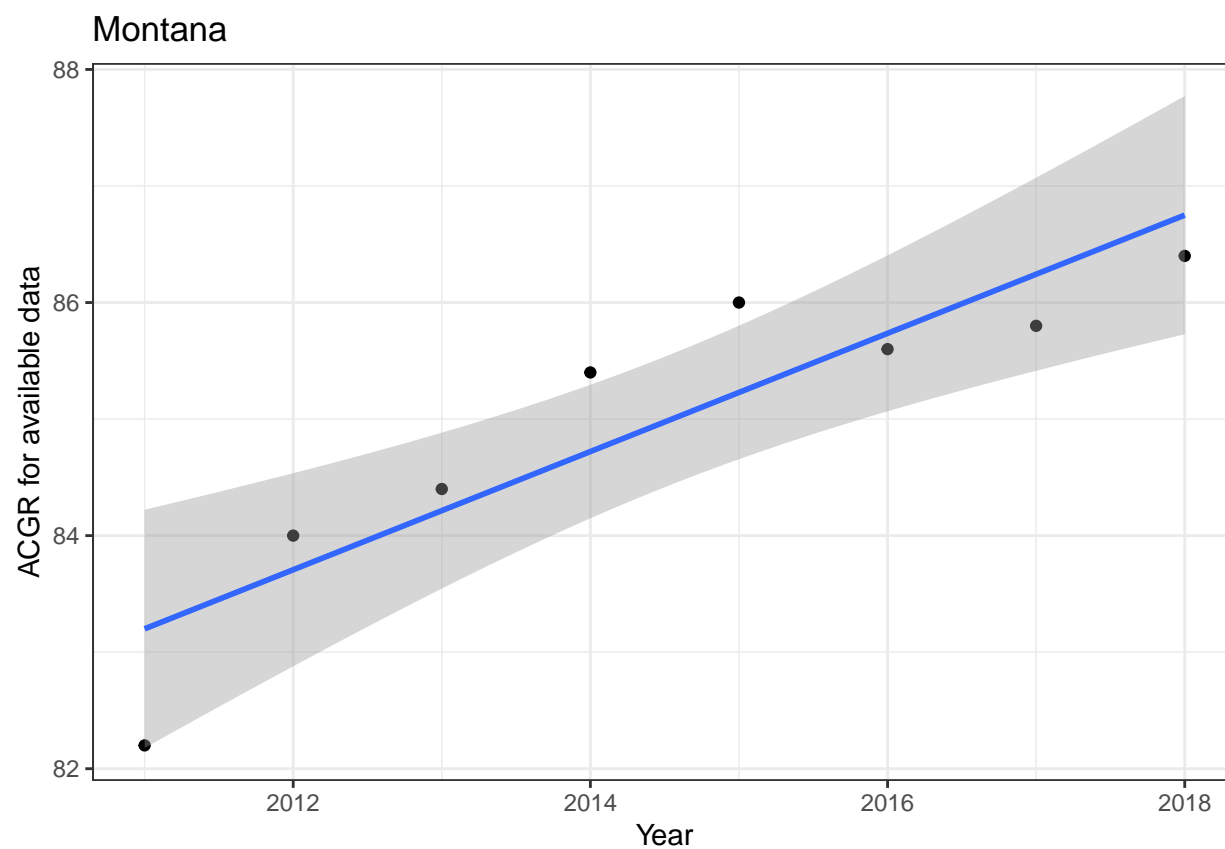
```
##  
## $Mississippi  
## `geom_smooth()` using formula 'y ~ x'
```

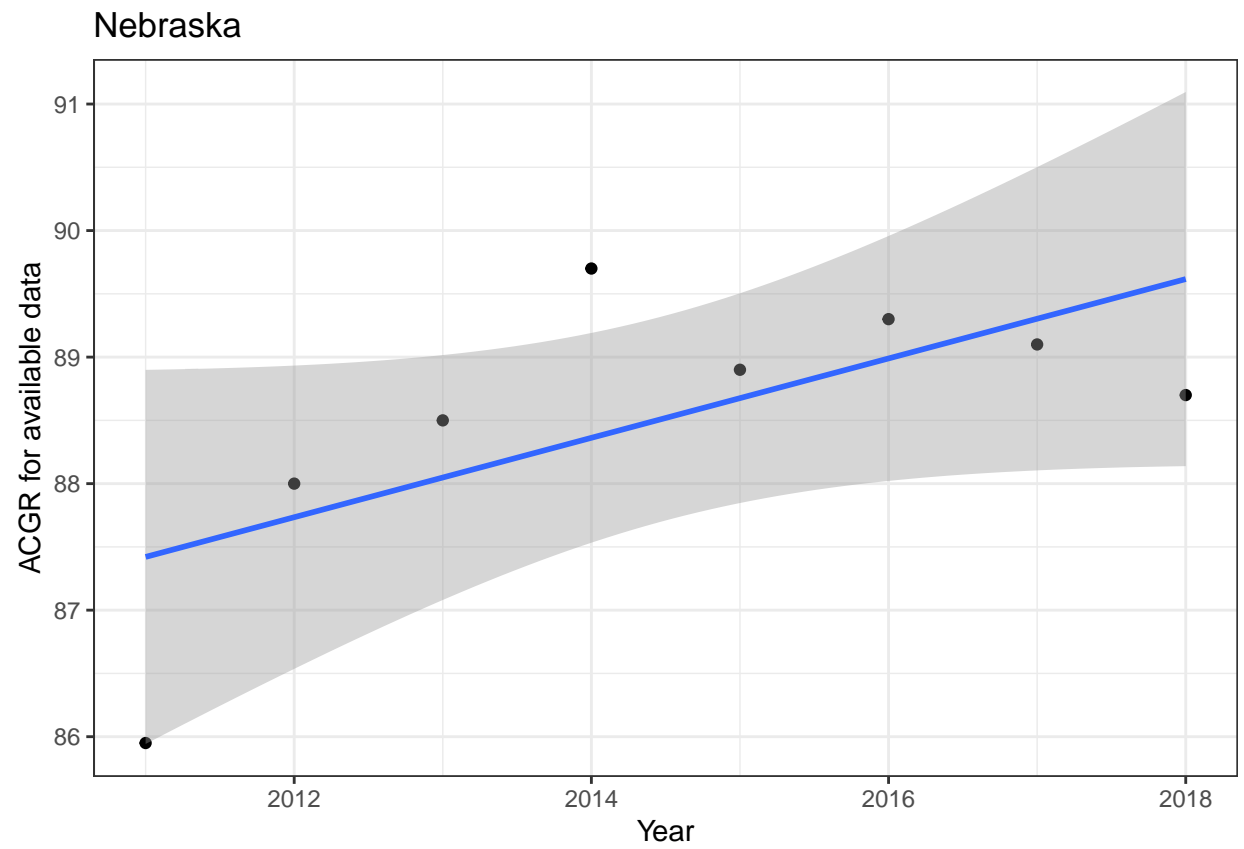
```
##  
## $Missouri  
## `geom_smooth()` using formula 'y ~ x'
```



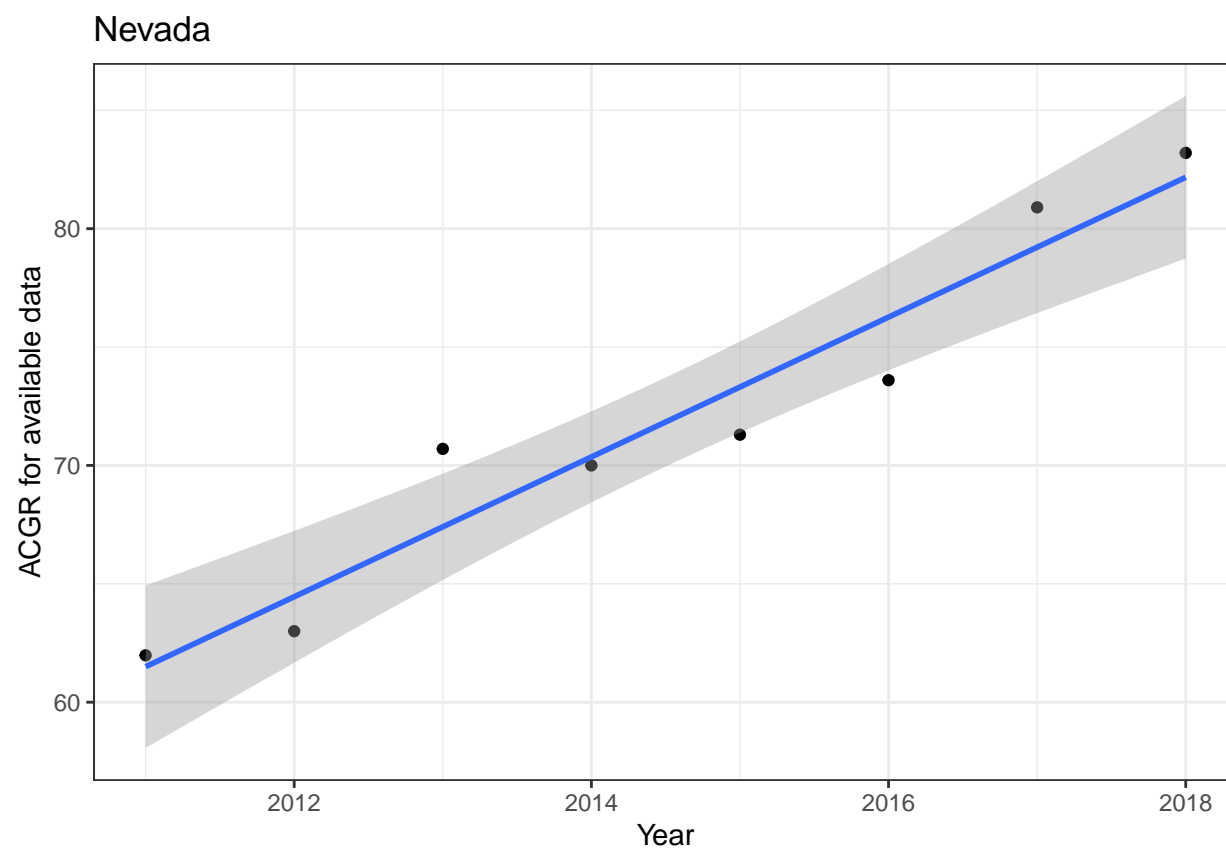
```
##  
## $Montana  
## `geom_smooth()` using formula 'y ~ x'
```



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

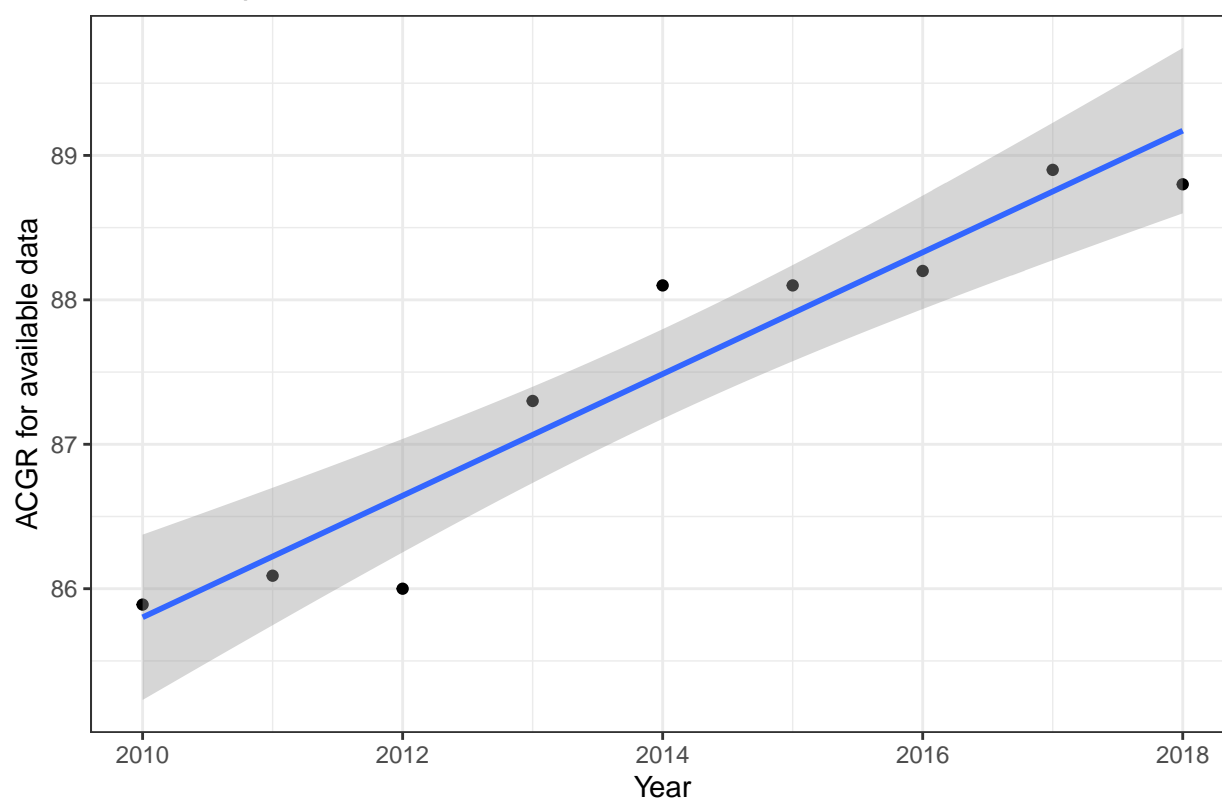


```
##  
## $Nevada  
## `geom_smooth()` using formula 'y ~ x'
```

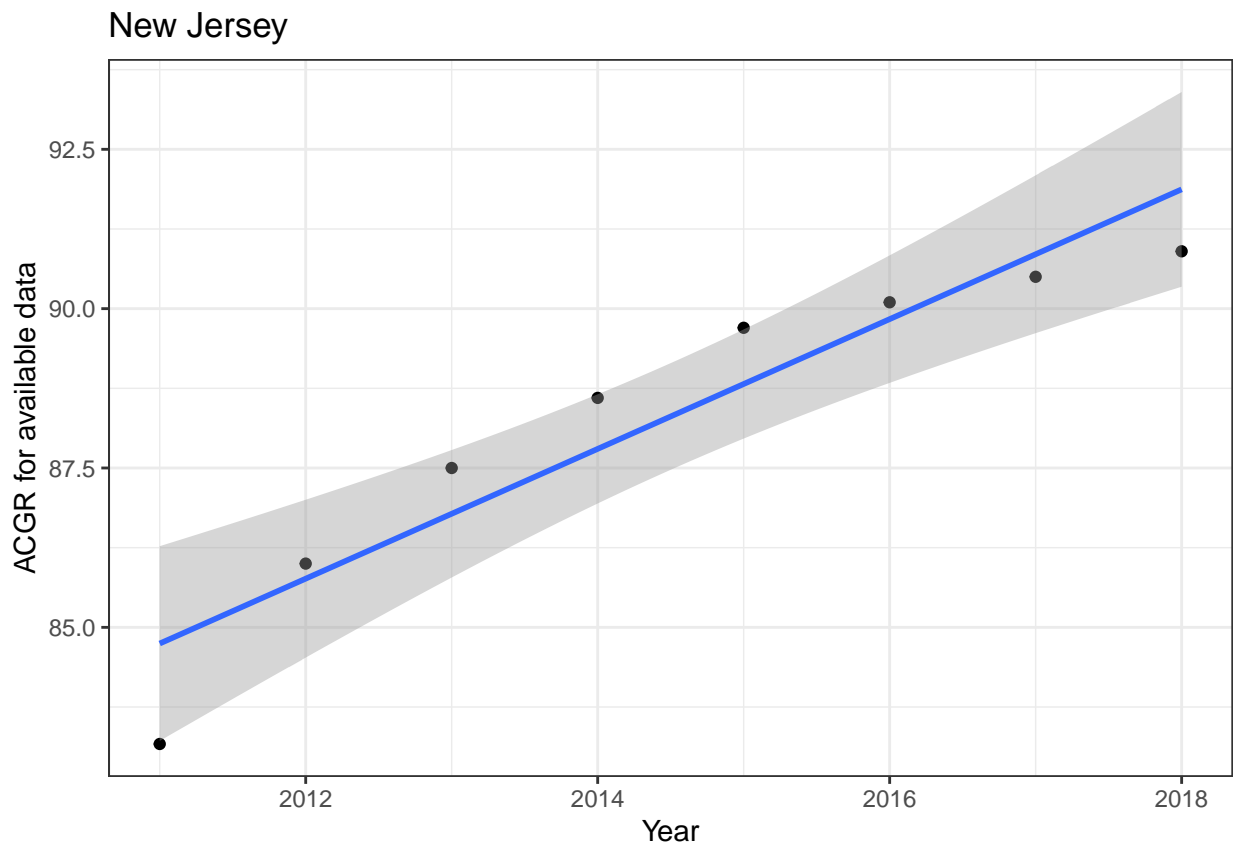


```
##  
## $`New Hampshire`  
## `geom_smooth()`` using formula 'y ~ x'
```

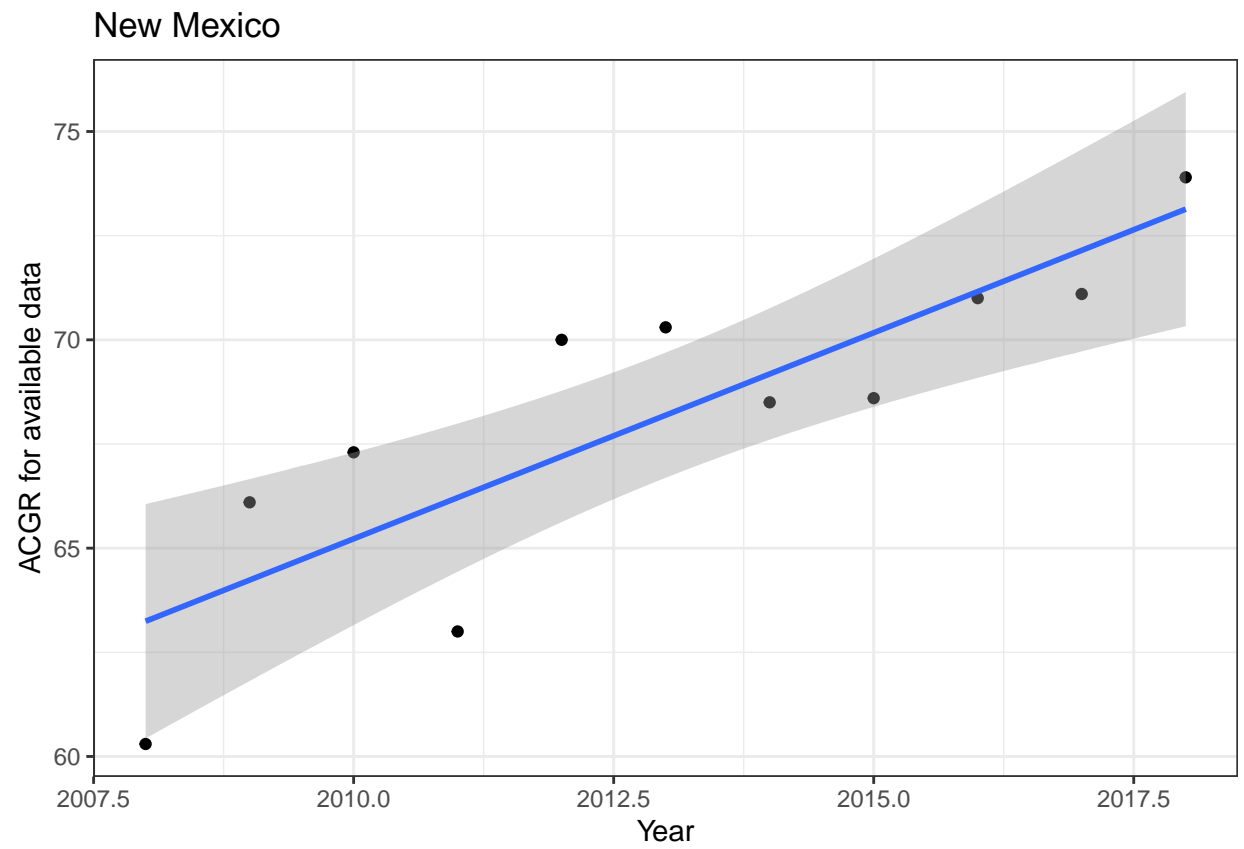
New Hampshire



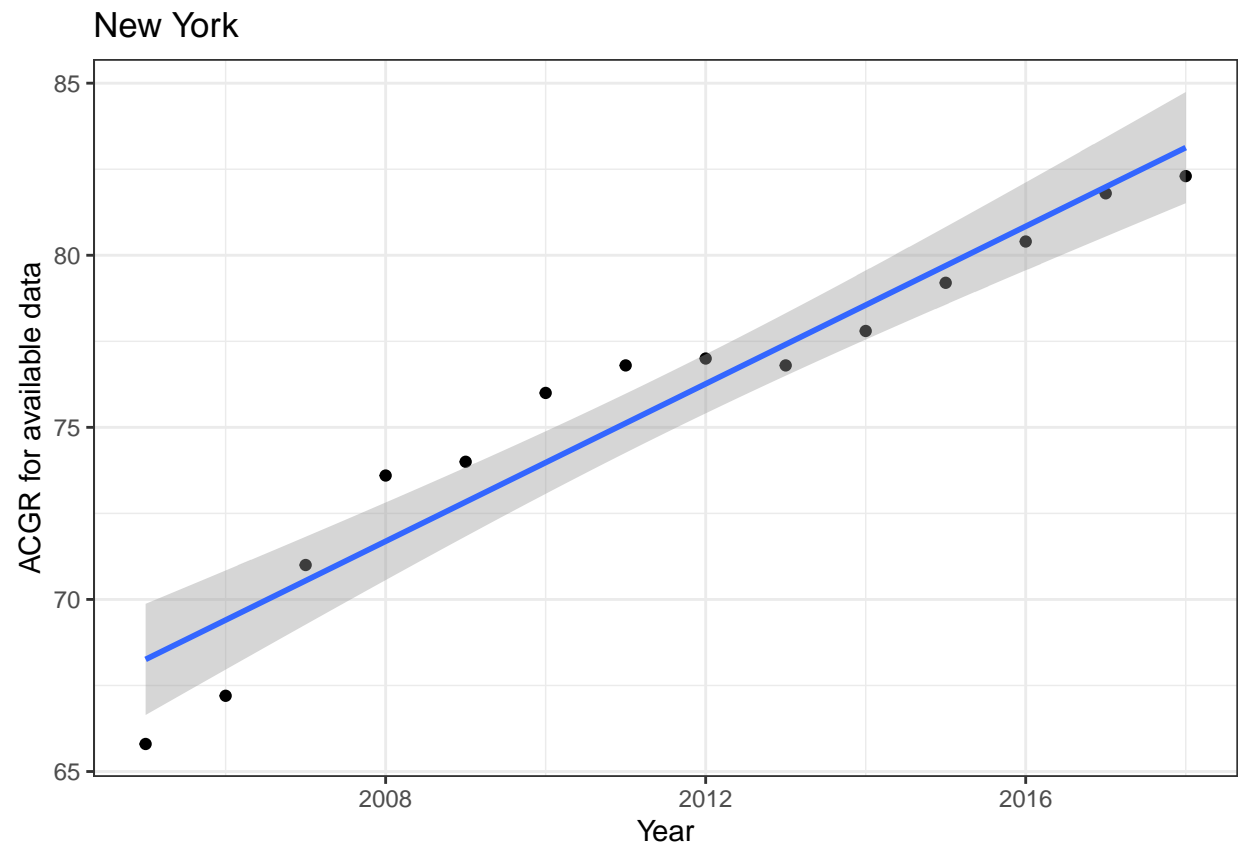
```
##  
## $`New Jersey`  
## `geom_smooth()` using formula 'y ~ x'
```



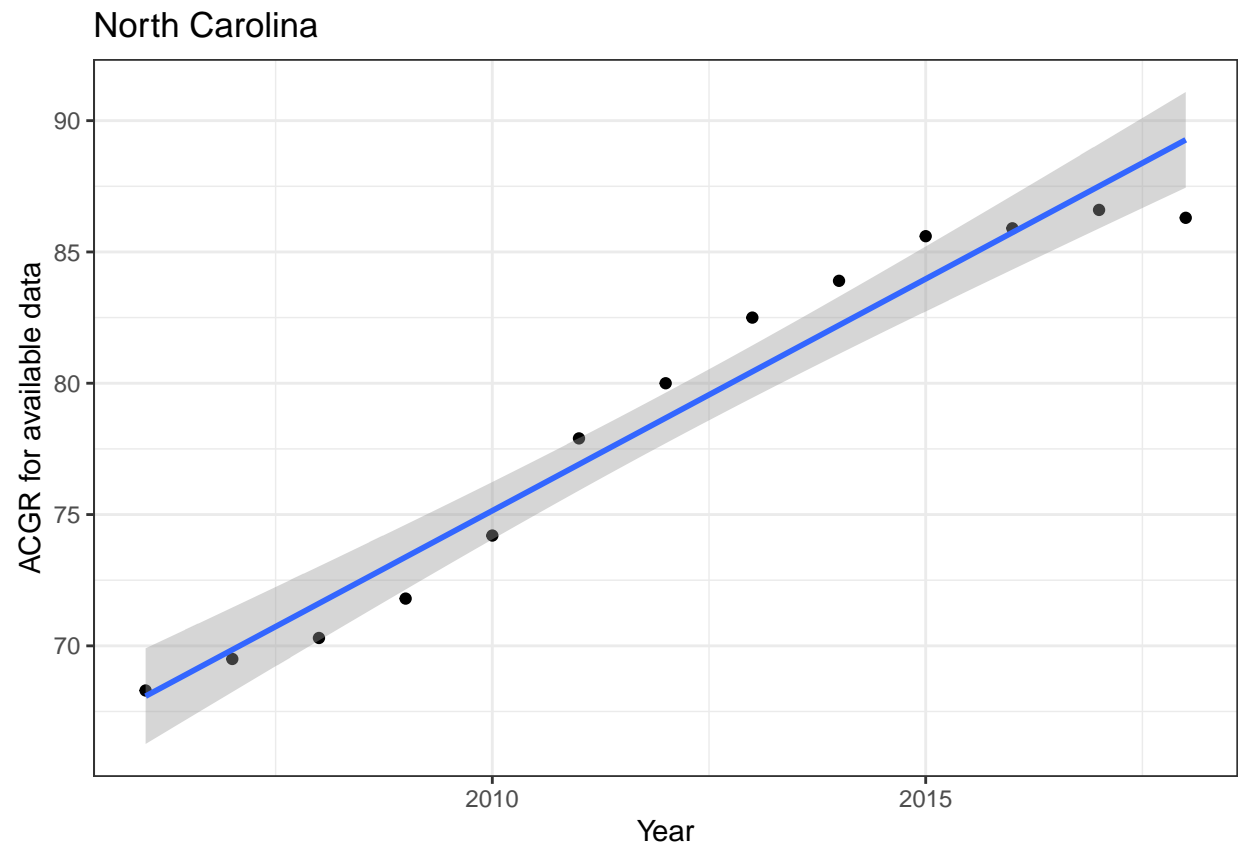
```
##  
## $`New Mexico`  
## `geom_smooth()` using formula 'y ~ x'
```



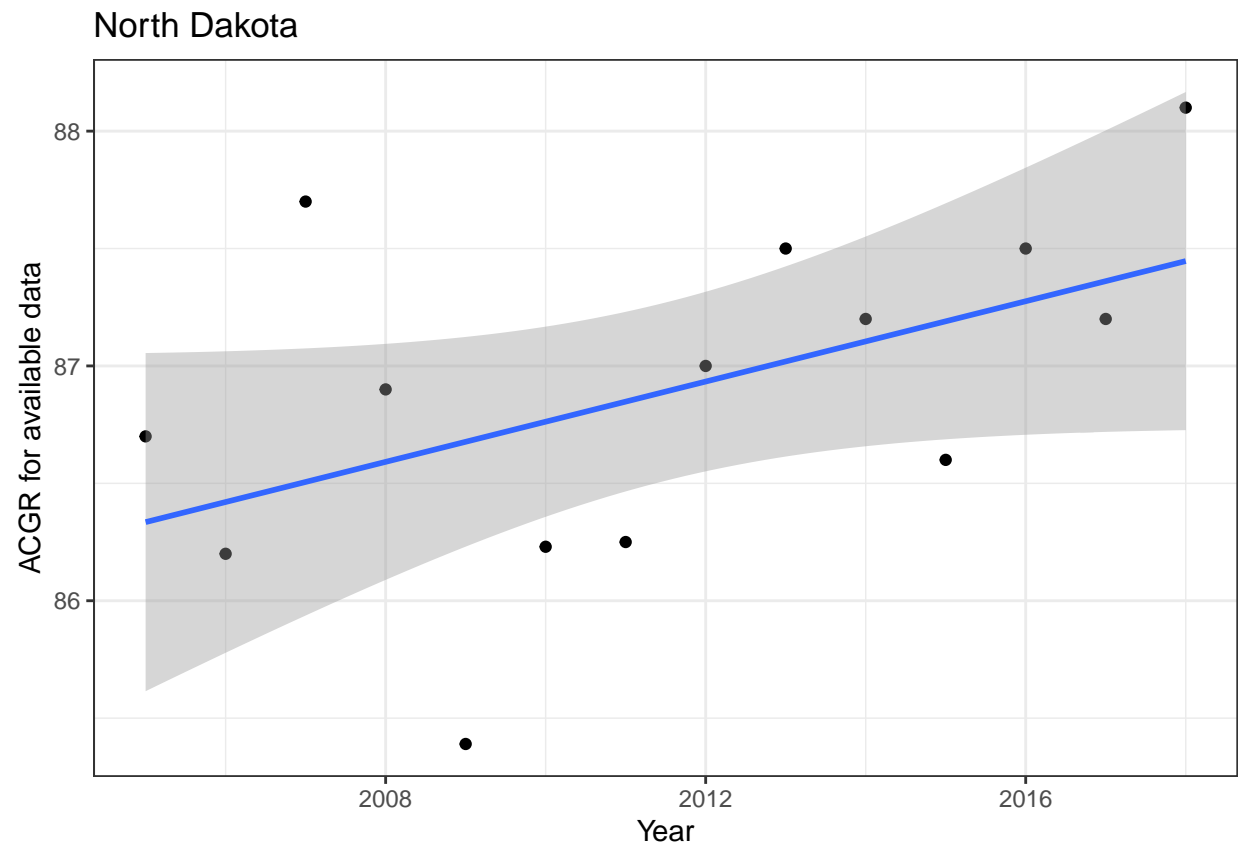
```
##  
## $`New York`  
## `geom_smooth()` using formula 'y ~ x'
```

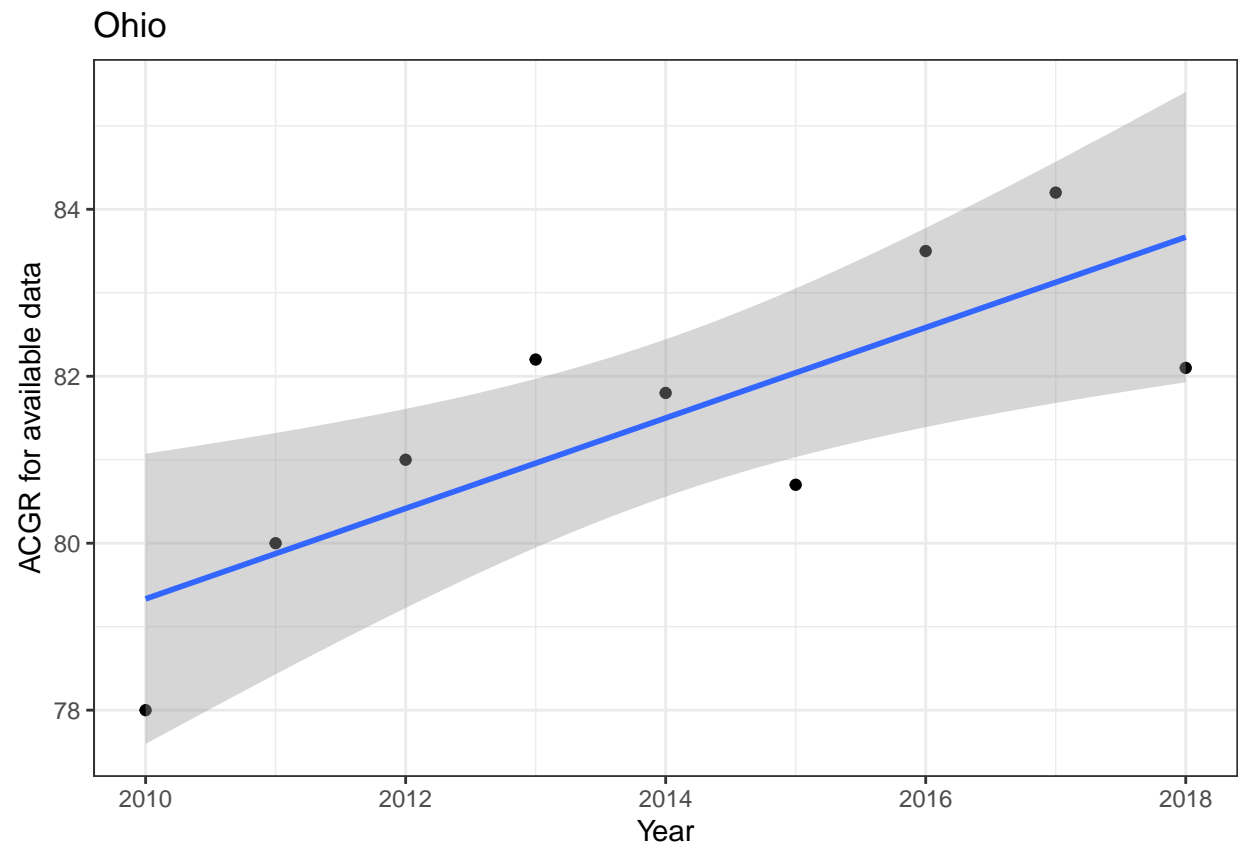
```
##  
## $`North Carolina`  
## `geom_smooth()` using formula 'y ~ x'
```



```
##  
## $`North Dakota`  
## `geom_smooth()` using formula 'y ~ x'
```

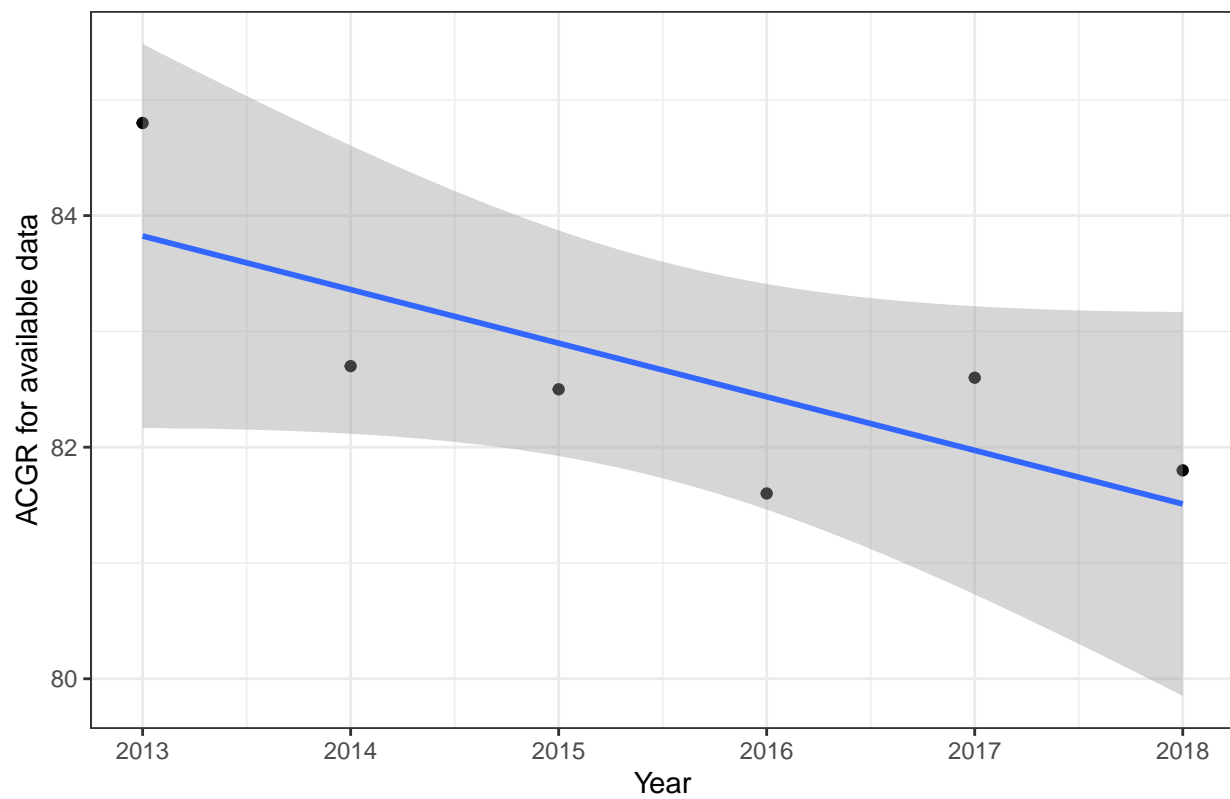


```
##  
## $Ohio  
## `geom_smooth()` using formula 'y ~ x'
```

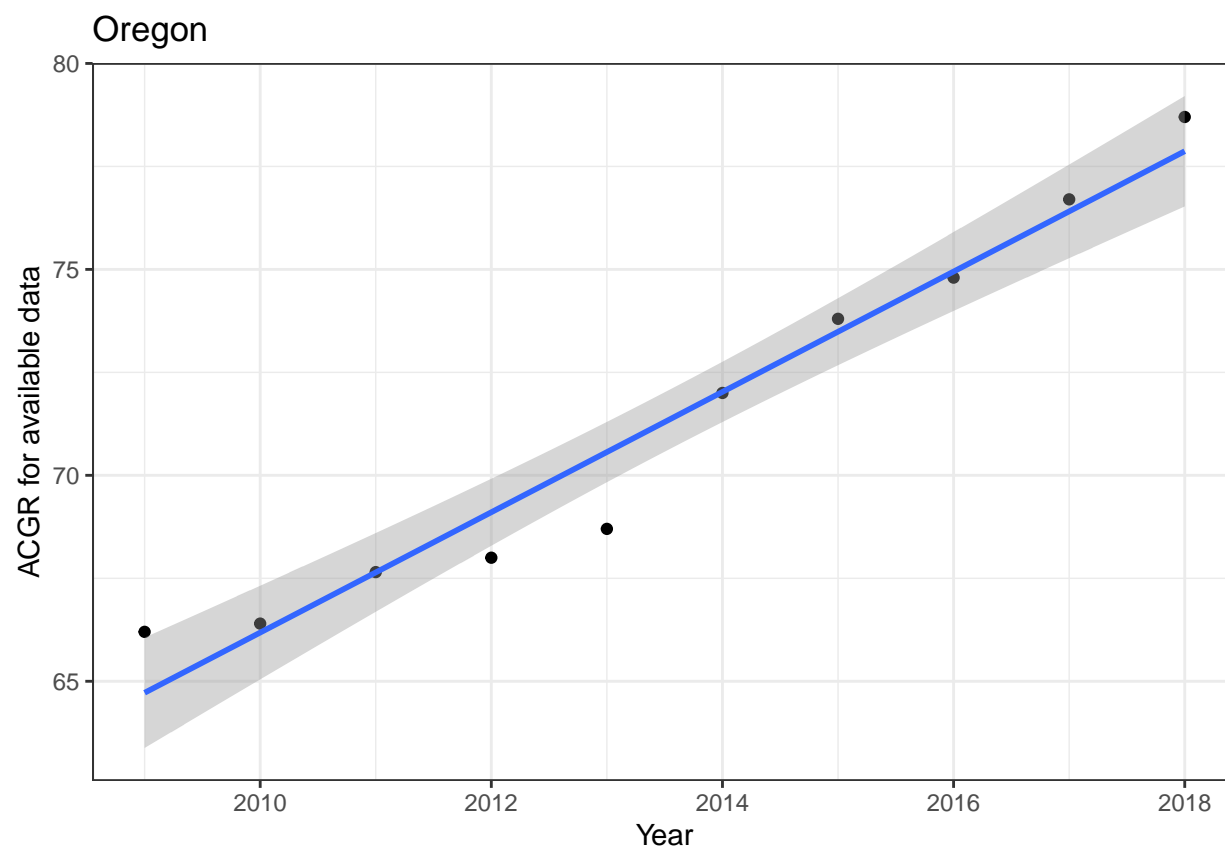


```
##  
## $0klahoma  
## `geom_smooth()` using formula 'y ~ x'
```

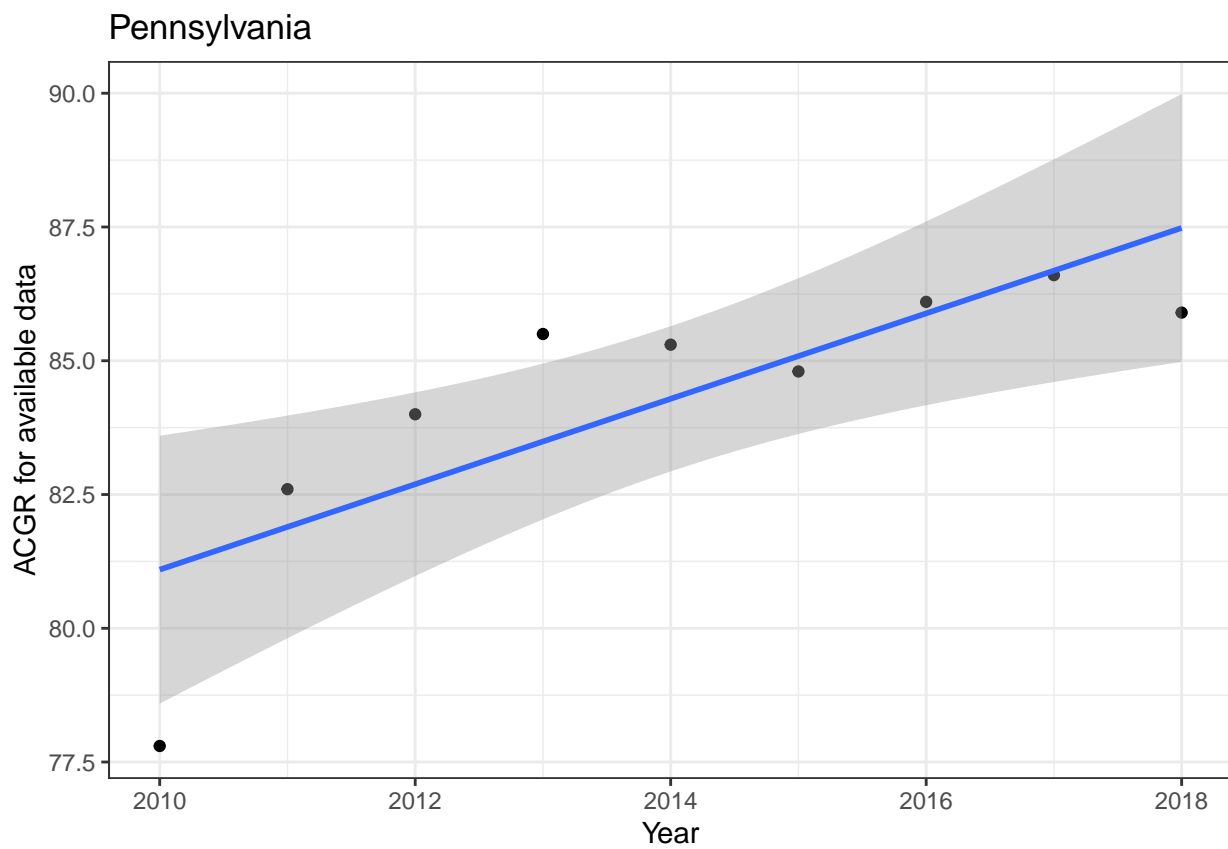
Oklahoma



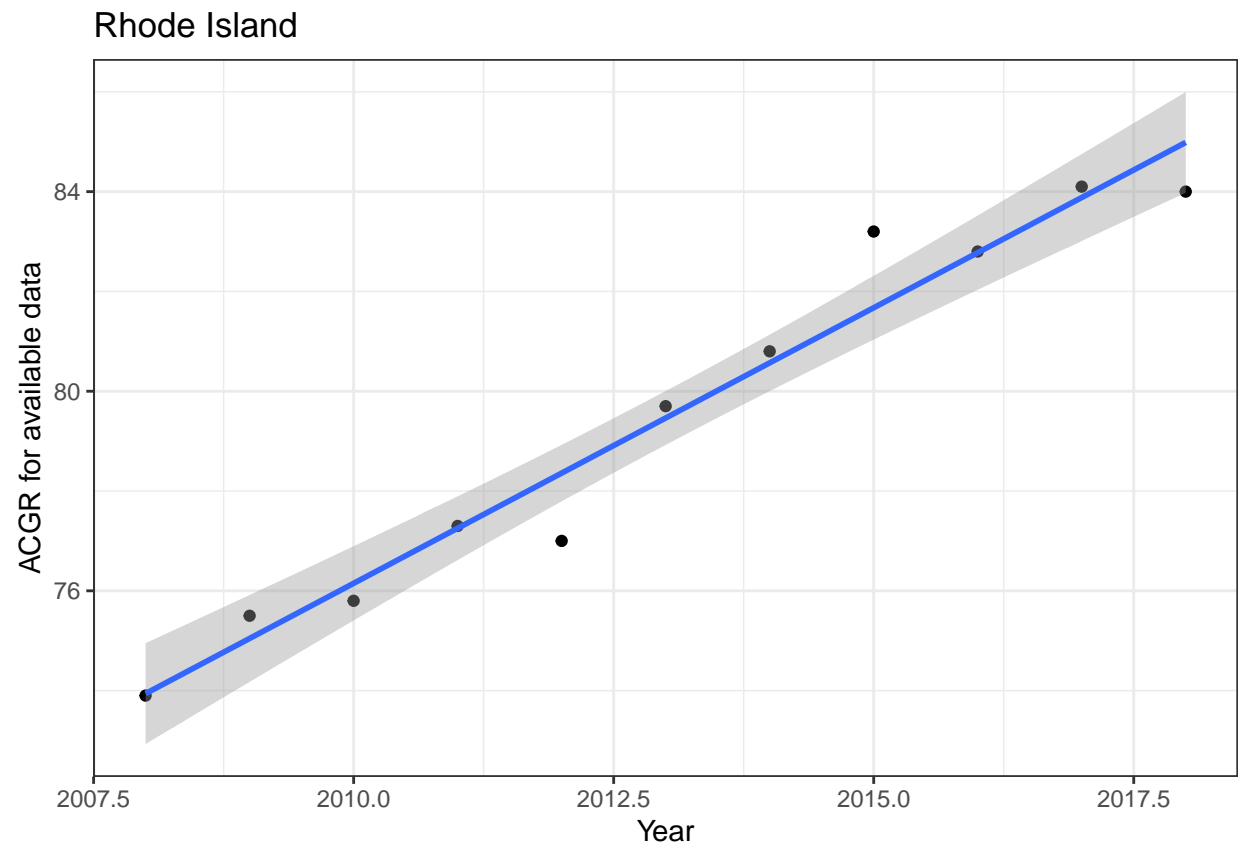
```
##  
## $Oregon  
## `geom_smooth()` using formula 'y ~ x'
```



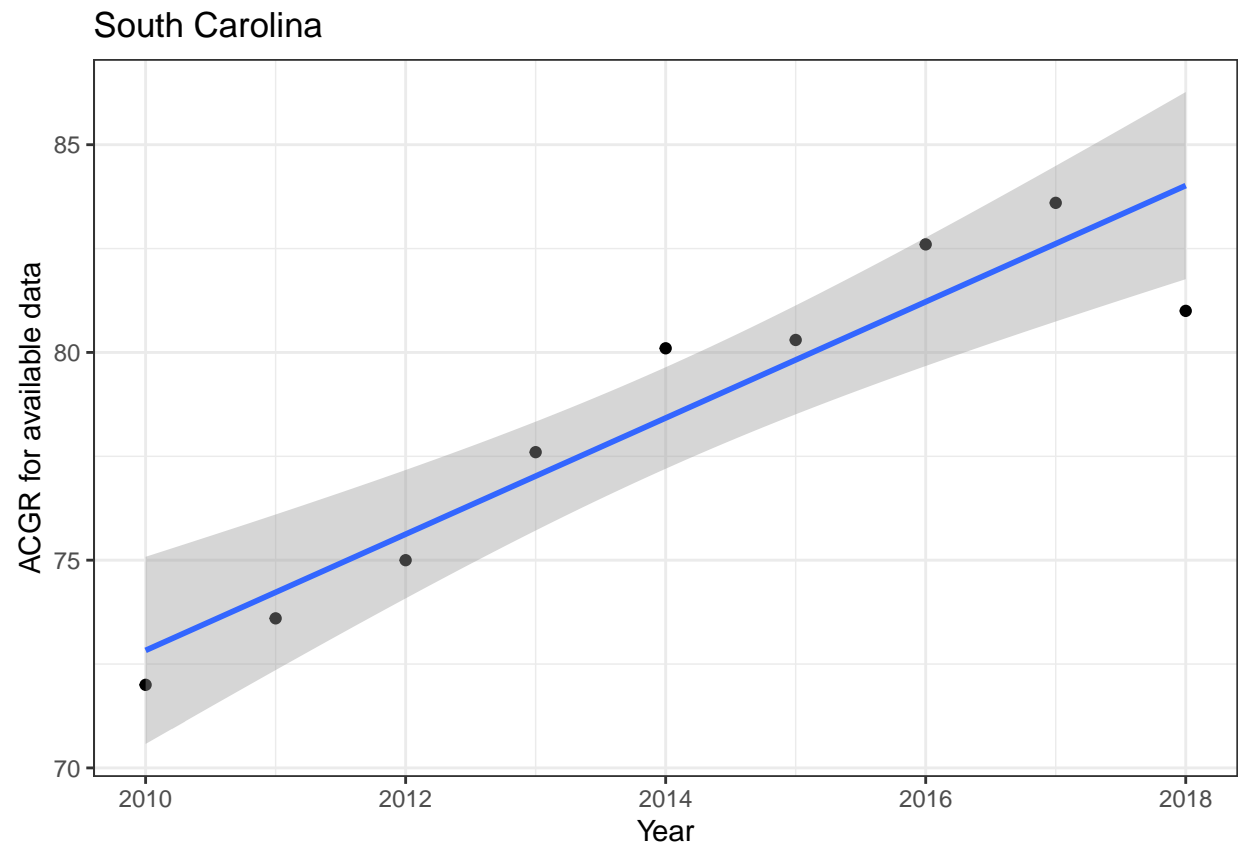
```
##  
## $Pennsylvania  
## `geom_smooth()` using formula 'y ~ x'
```



```
##  
## $`Rhode Island`  
## `geom_smooth()` using formula 'y ~ x'
```

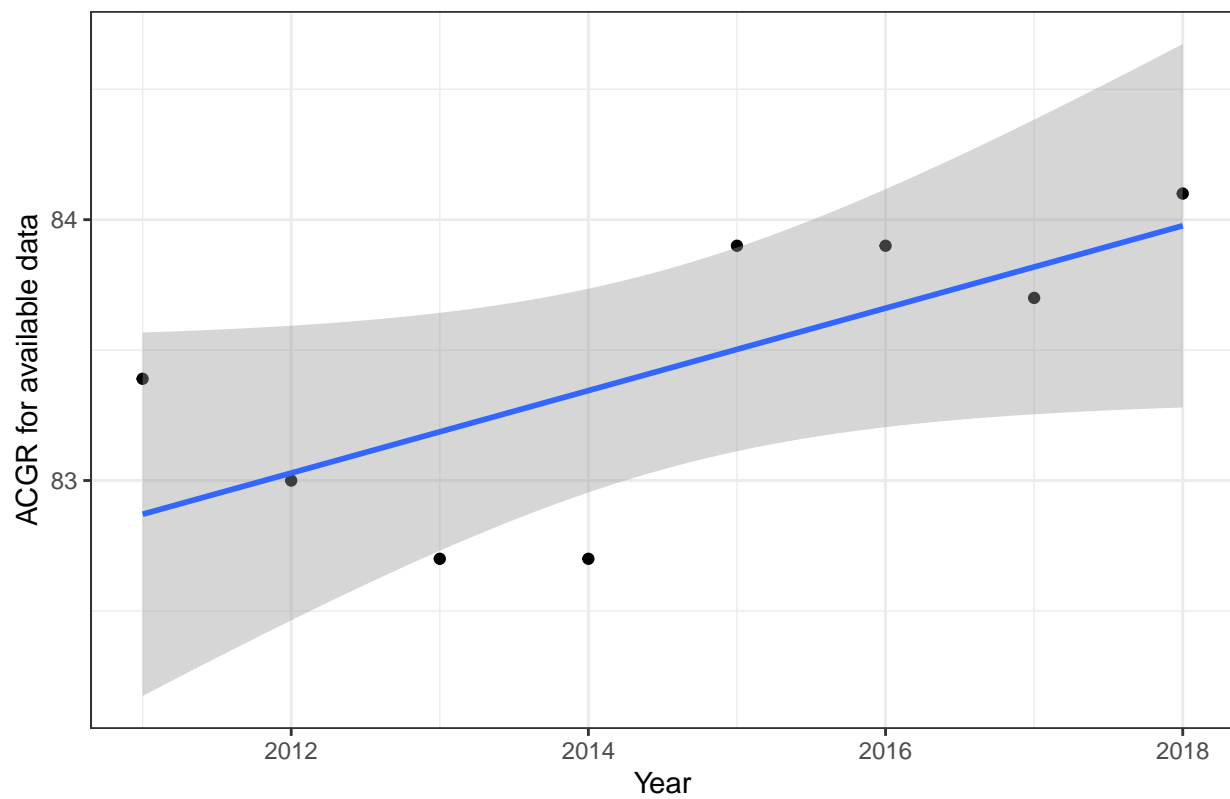


```
##  
## $`South Carolina`  
## `geom_smooth()`` using formula 'y ~ x'
```

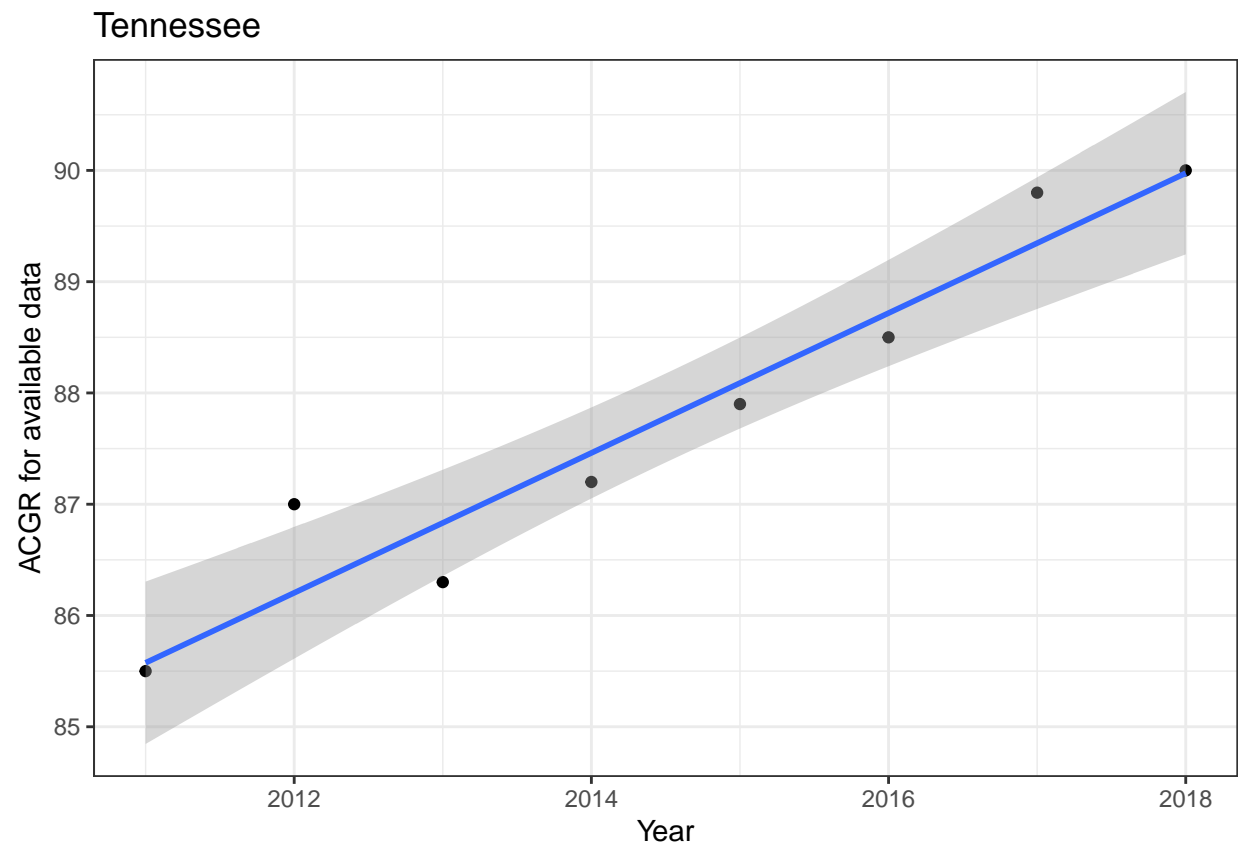



```
##  
## $`South Dakota`  
## `geom_smooth()` using formula 'y ~ x'
```

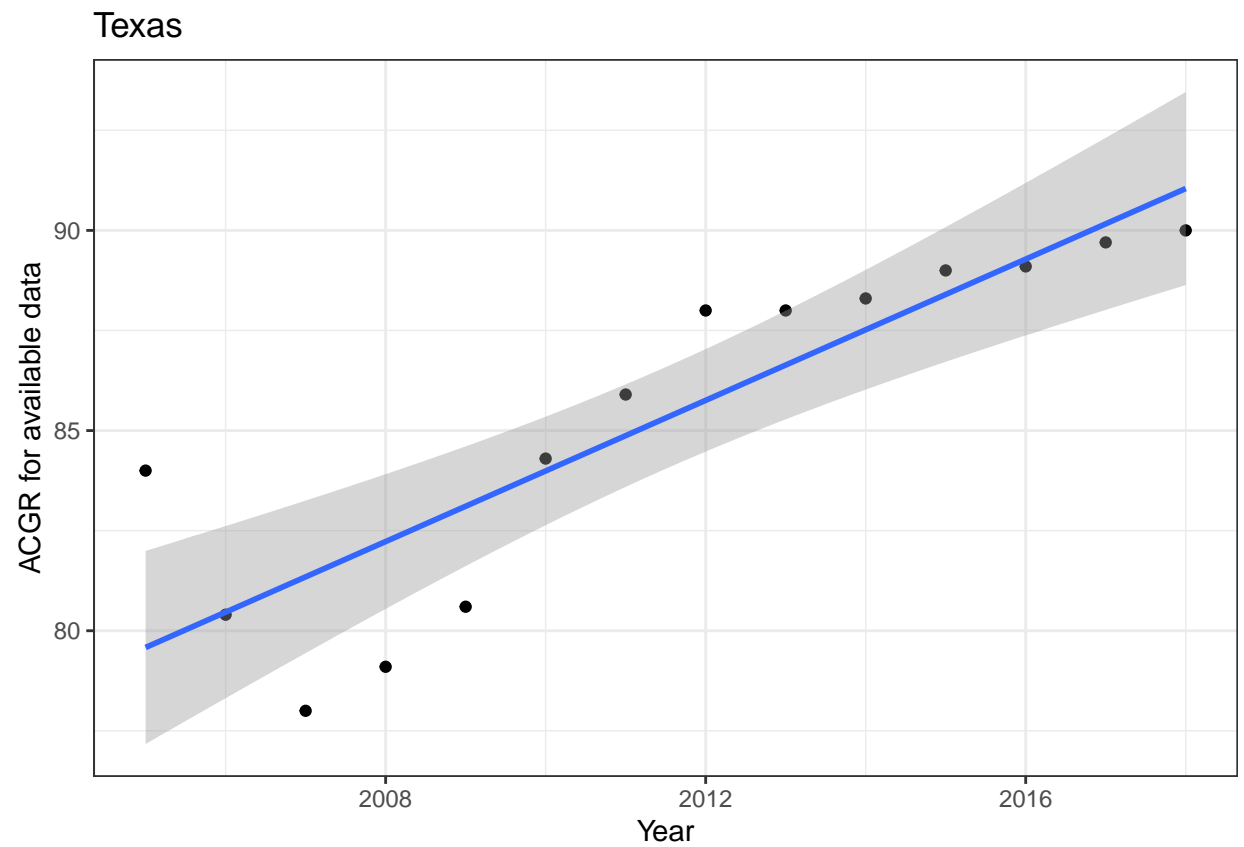
South Dakota



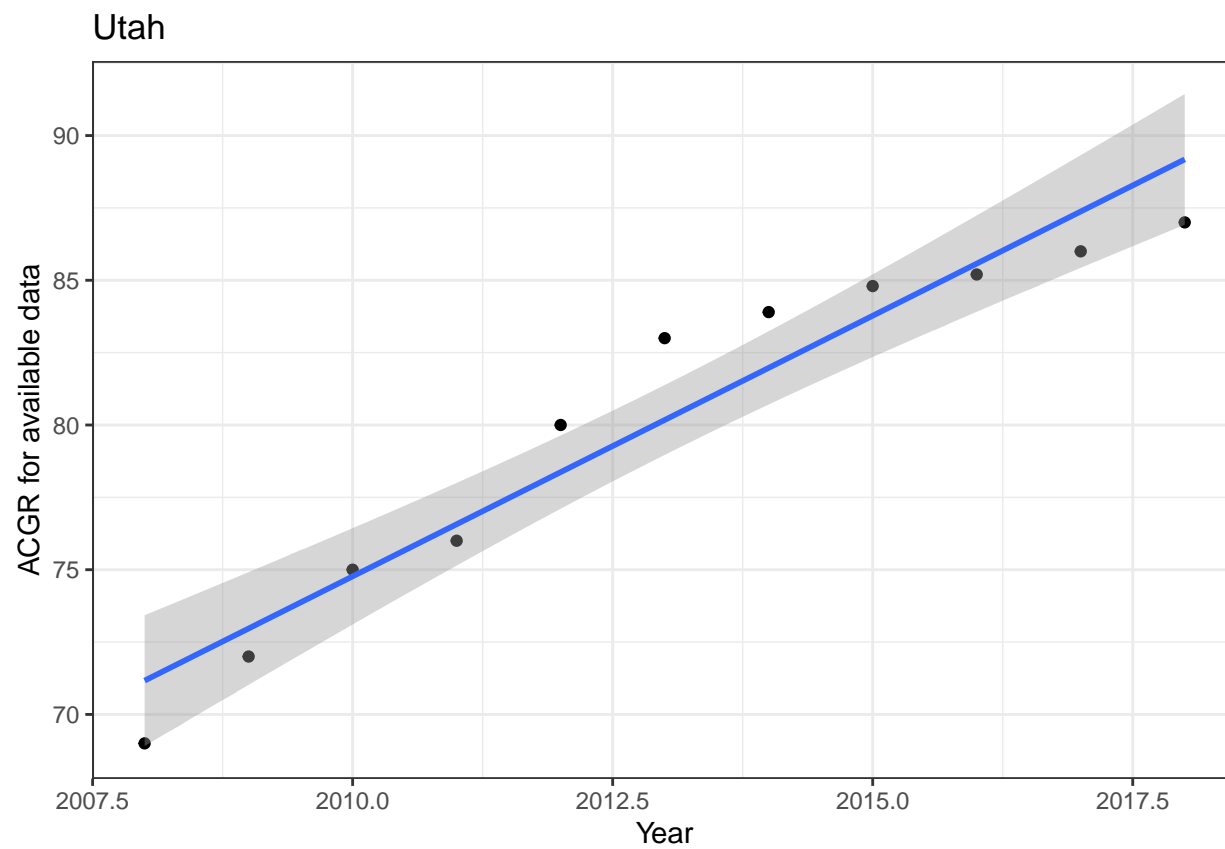
```
##  
## $Tennessee  
## `geom_smooth()` using formula 'y ~ x'
```



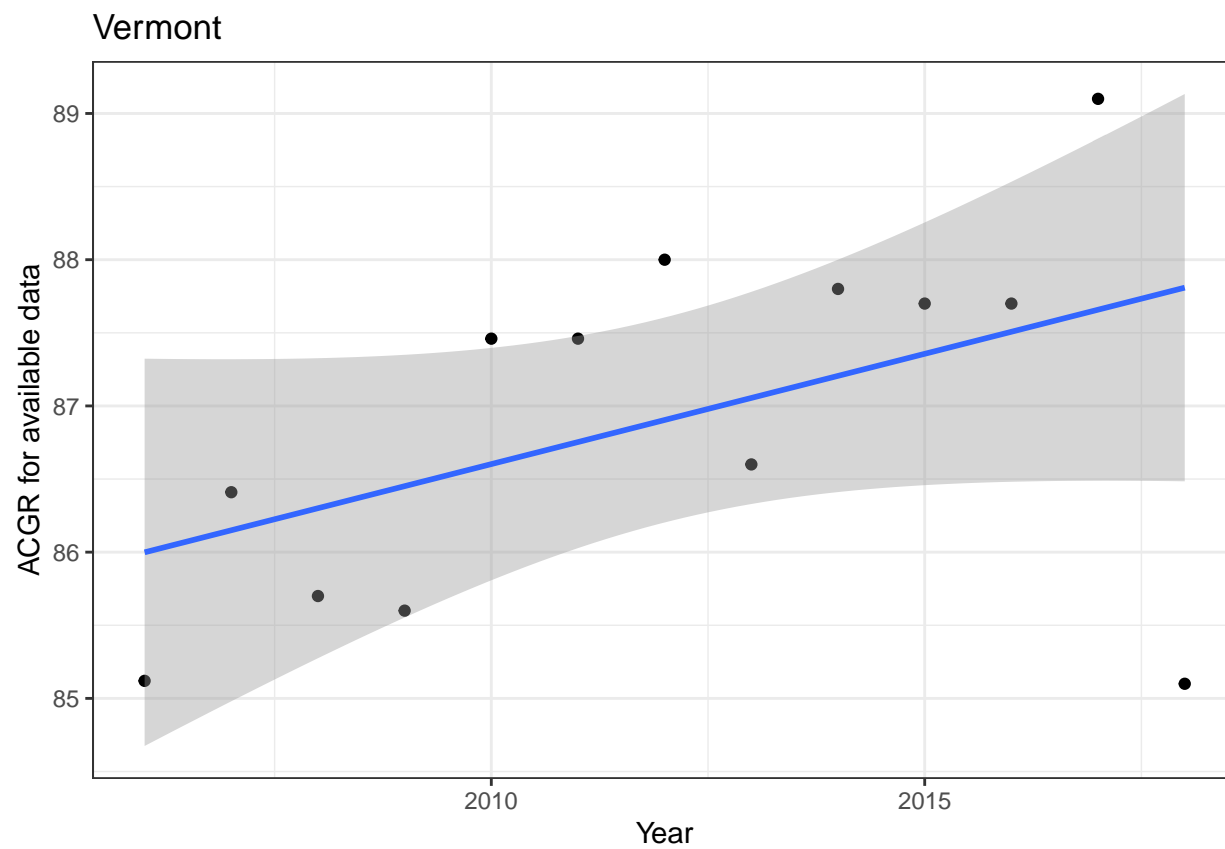
```
##  
## $Texas  
## `geom_smooth()` using formula 'y ~ x'
```



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

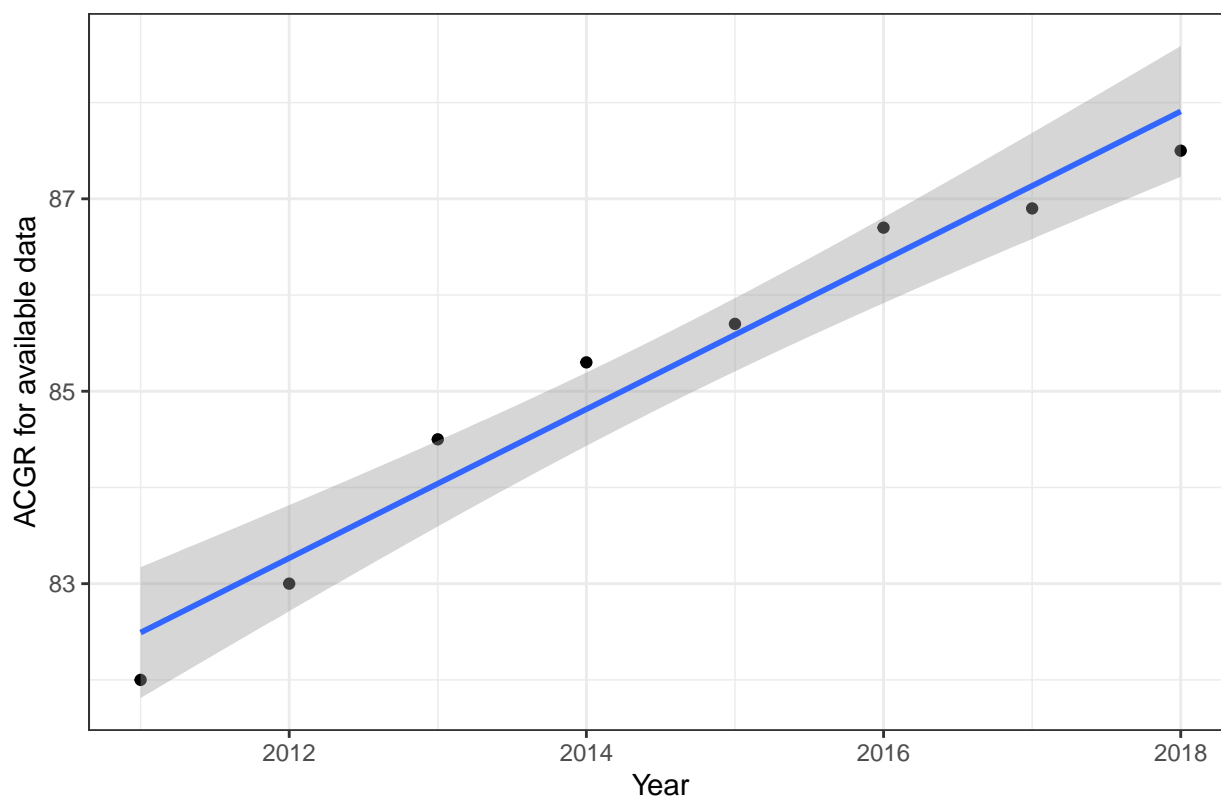


```
##  
## $Vermont  
## `geom_smooth()` using formula 'y ~ x'
```



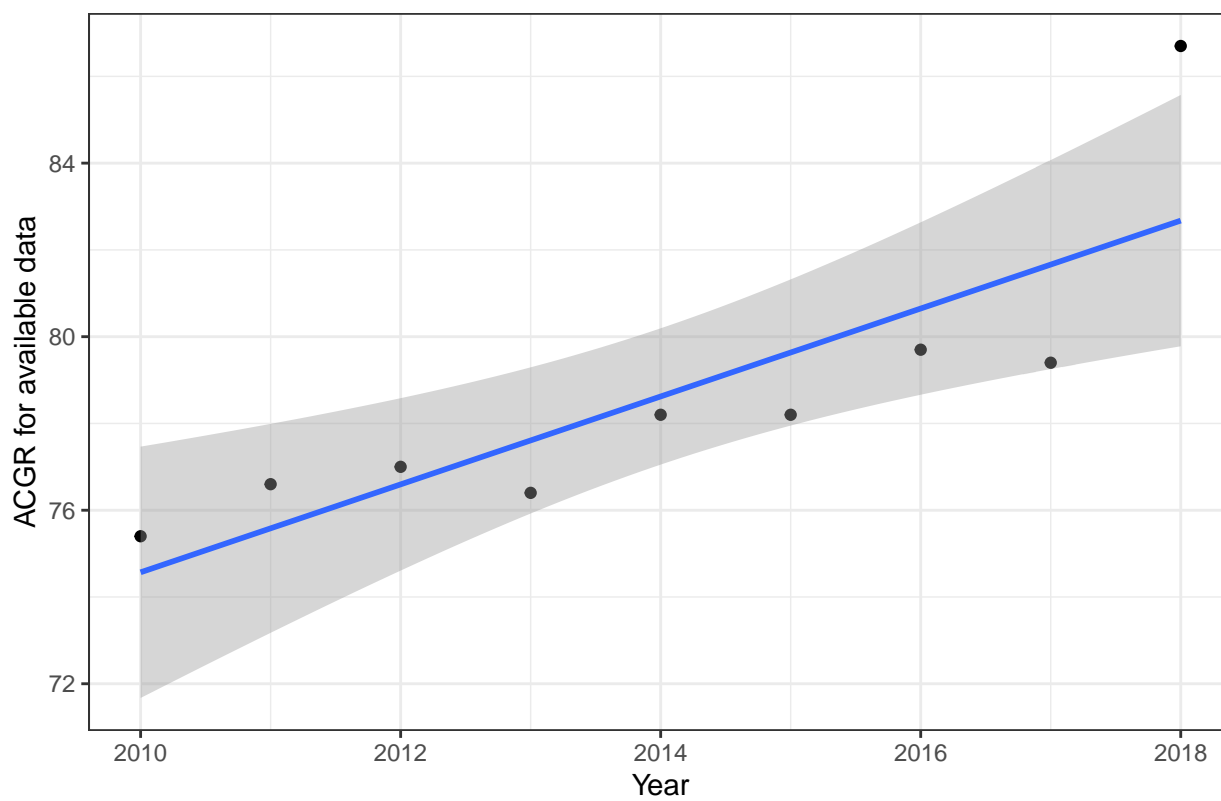
```
##  
## $Virginia  
## `geom_smooth()` using formula 'y ~ x'
```

Virginia

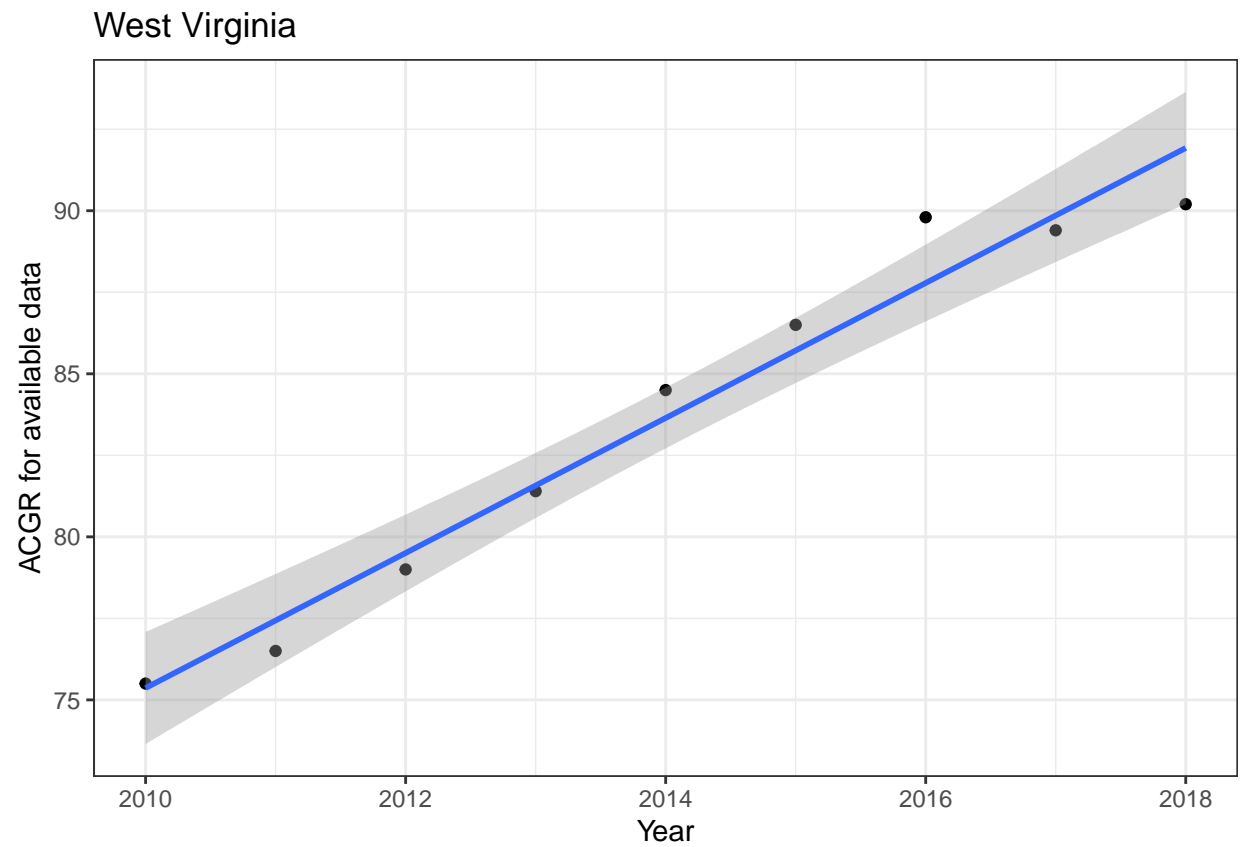


```
##  
## $Washington  
## `geom_smooth()` using formula 'y ~ x'
```

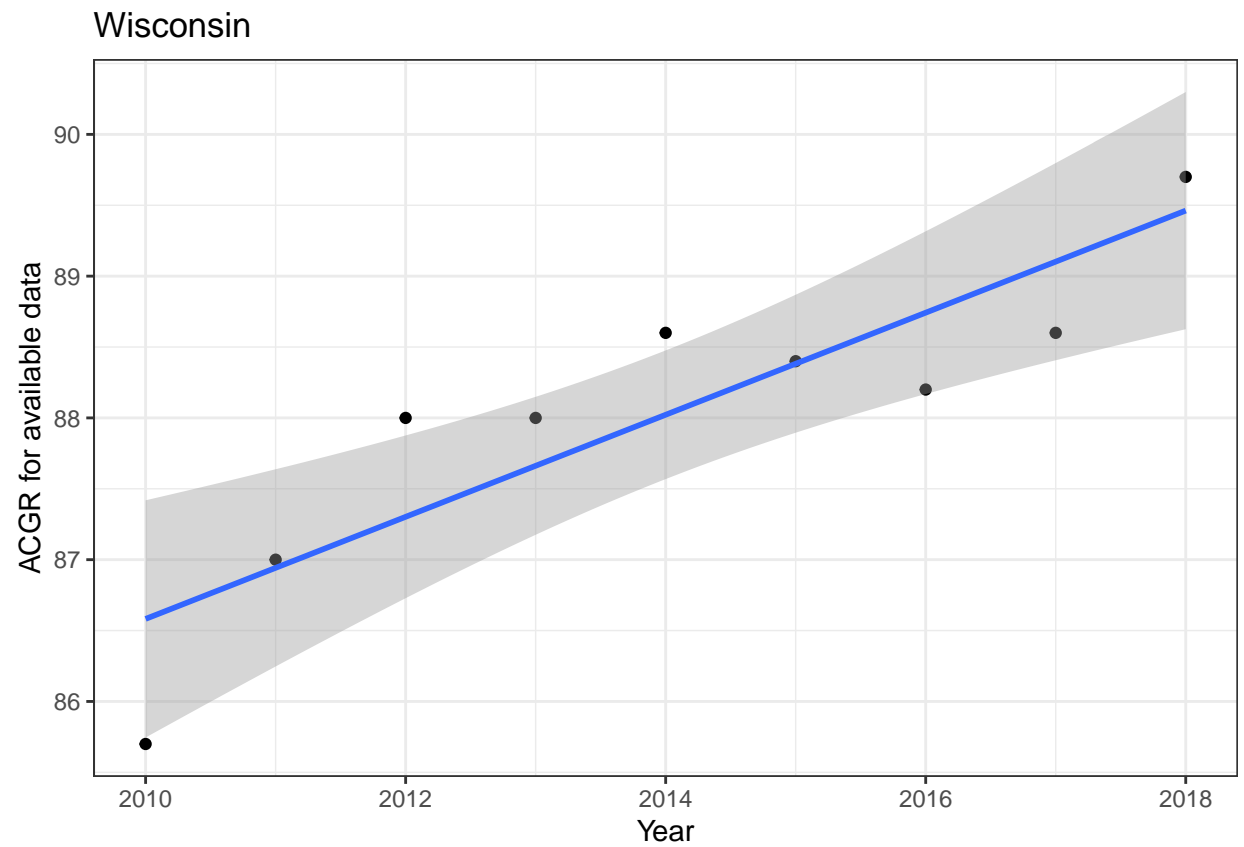
Washington



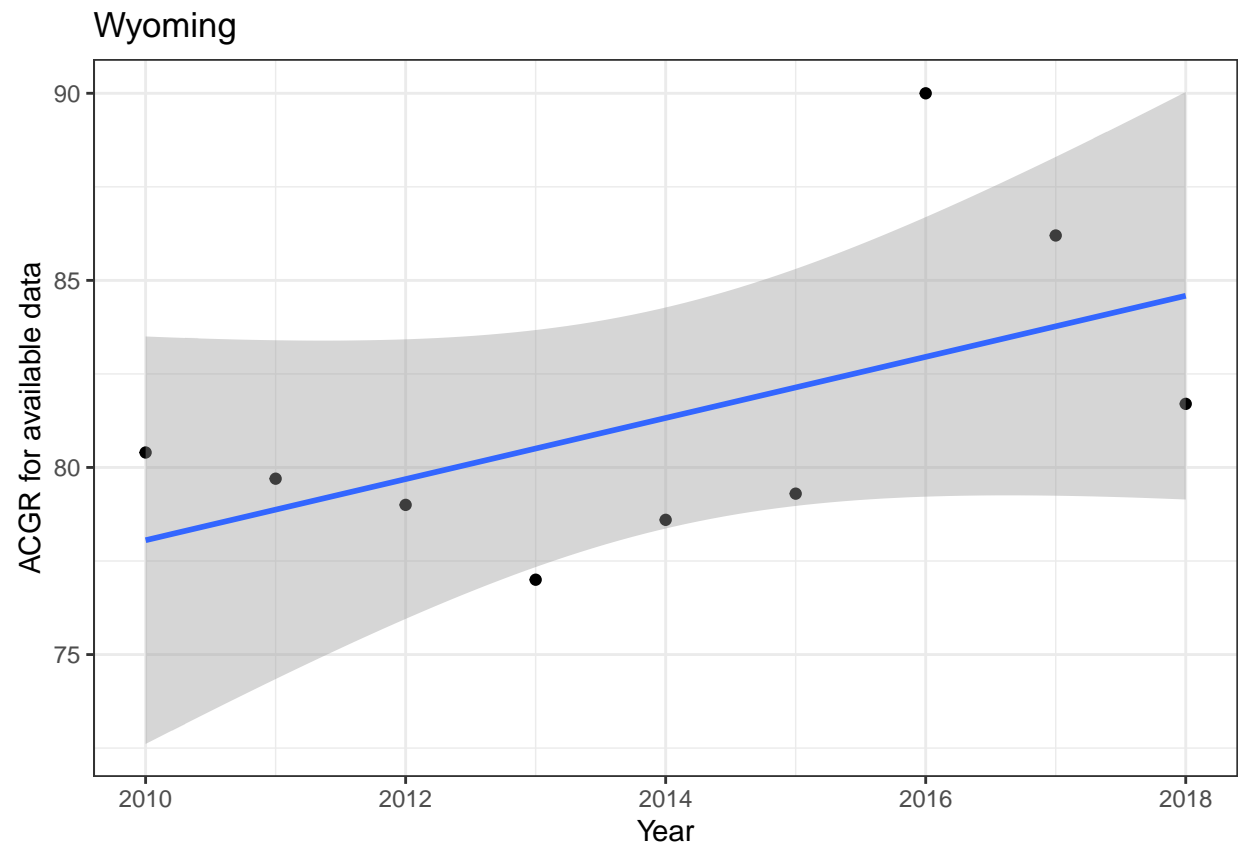
```
##  
## $`West Virginia`  
## `geom_smooth()` using formula 'y ~ x'
```

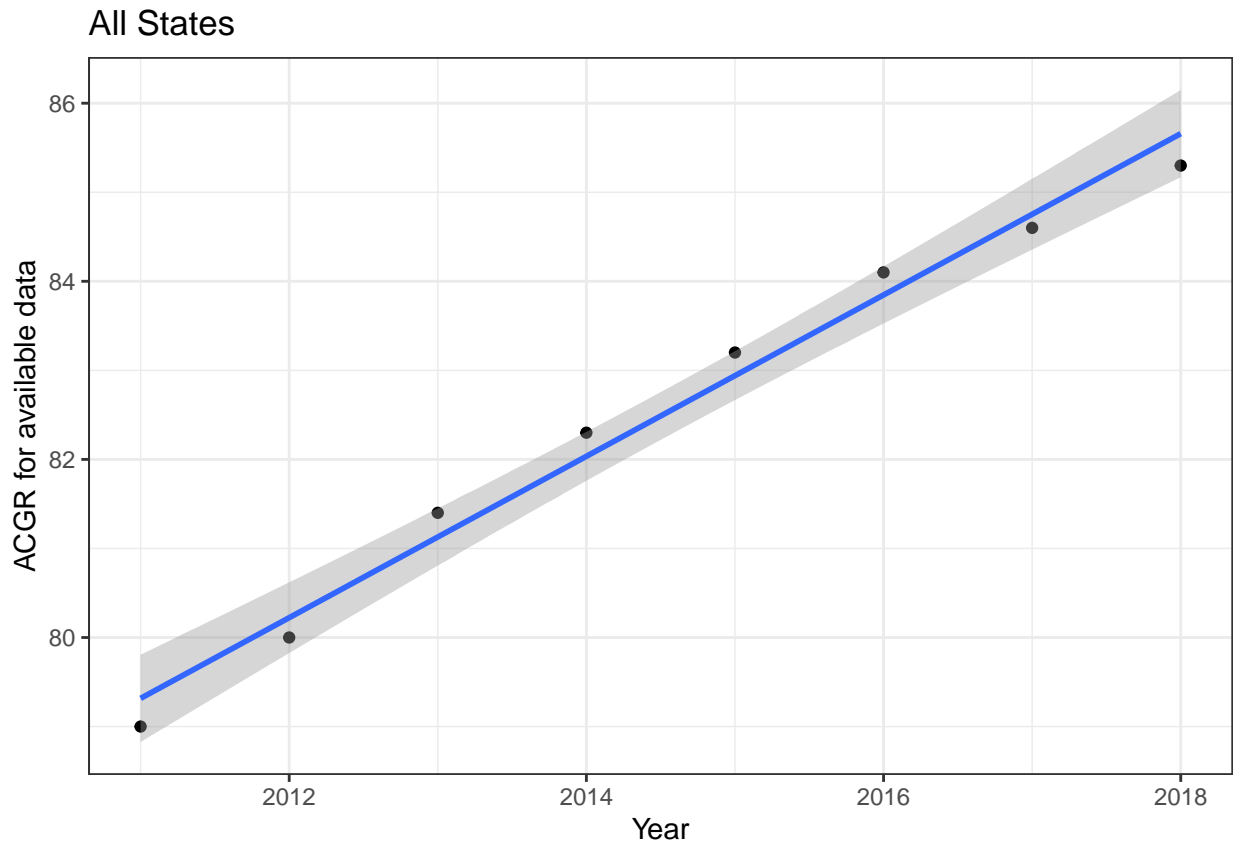
```
##  
## $Wisconsin  
## `geom_smooth()` using formula 'y ~ x'
```



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



```
##  
## $`All States`  
## `geom_smooth()` using formula 'y ~ x'
```



```
acgr_long_subgroups <- acgr %>%
  gather(race, acgr, ACGR_black:ACGR_white) %>%
  select(statename, race, acgr)

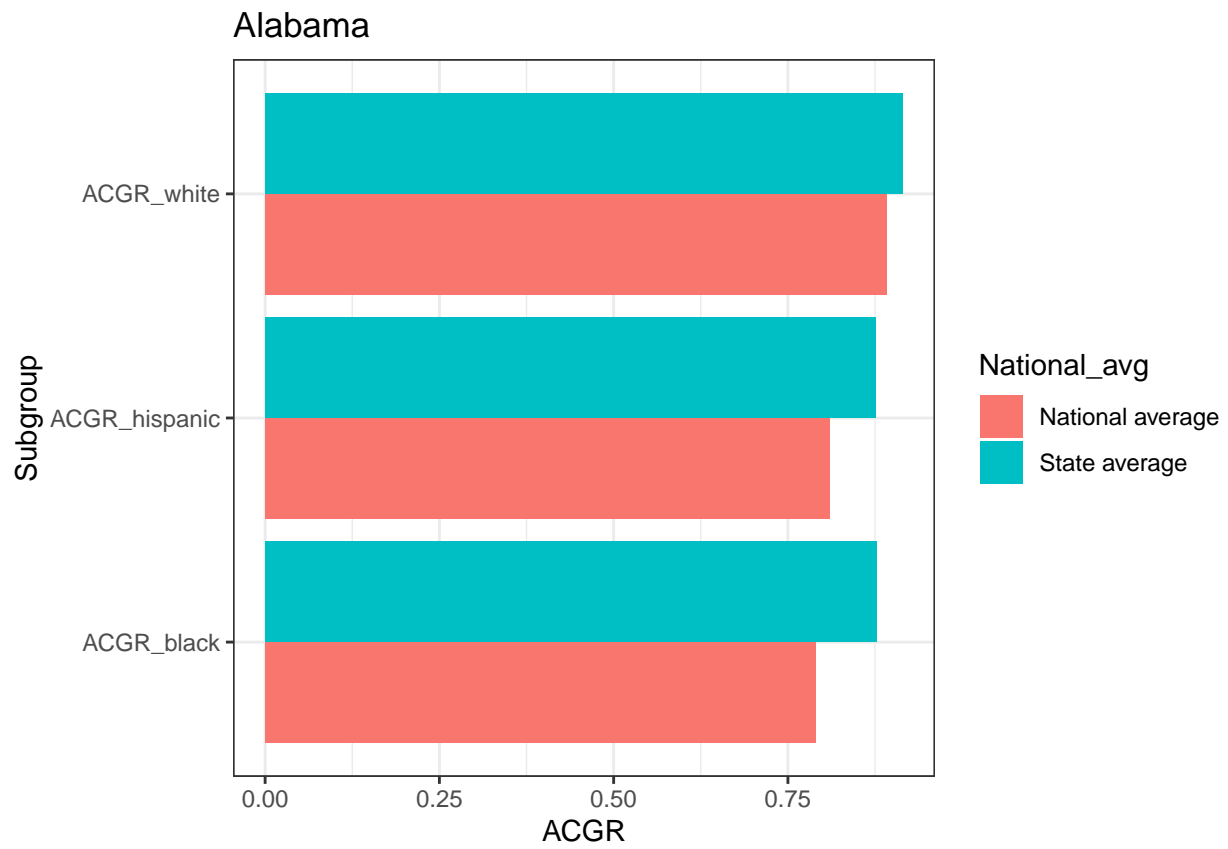
acgr_long_subgroups$race <- as.factor(acgr_long_subgroups$race)

acgr_long_subgroups <- acgr_long_subgroups %>%
  mutate(National_avg = case_when(
    statename == "United States" ~ "National average",
    statename != "United States" ~ "State average") %>%
    as.factor() %>%
    structure(levels = c("National average", "State average"))
  )

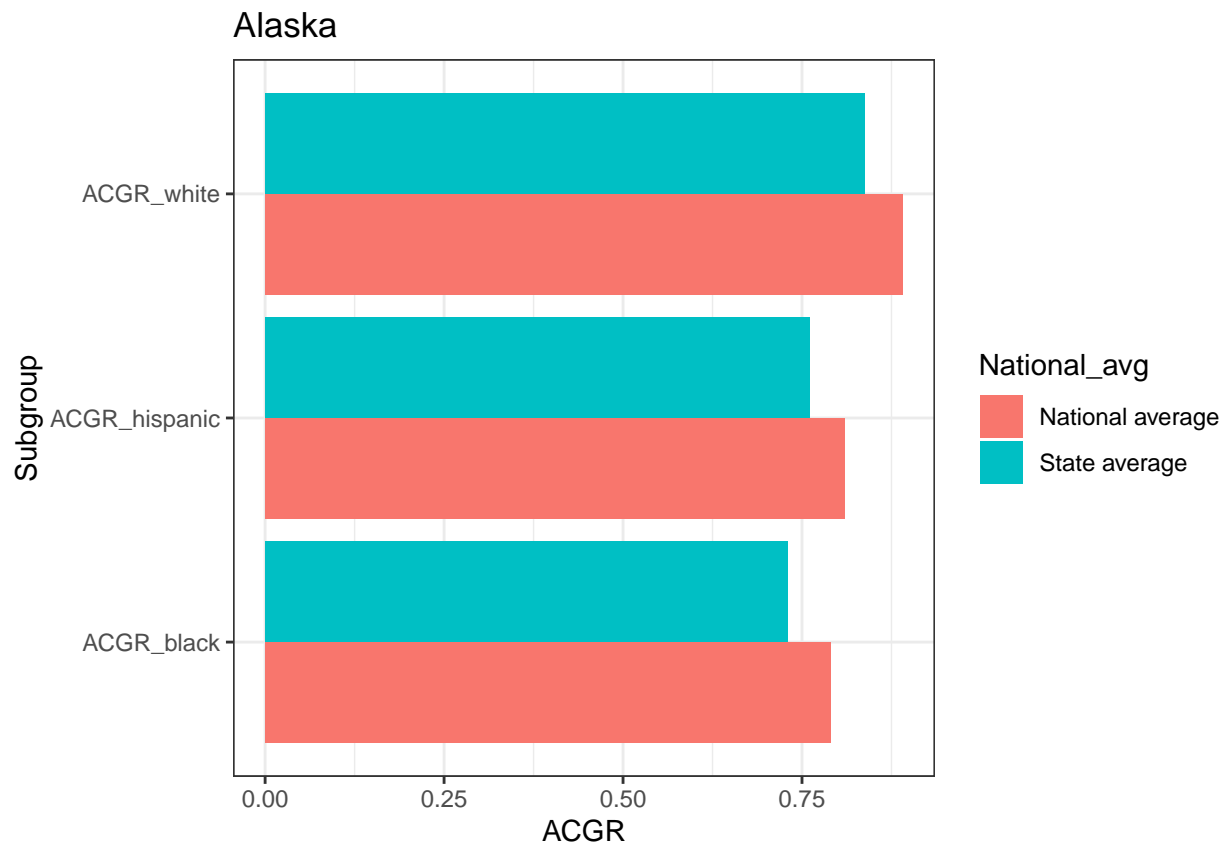
states2 = unique(acgr_long_subgroups$statename)
state_subgroup_bar = list()

for (i in states2) {
  state_subgroup_bar[[i]] = ggplot(acgr_long_subgroups %>% filter(statename == i|statename == "United States"))
  print(state_subgroup_bar[i])
}

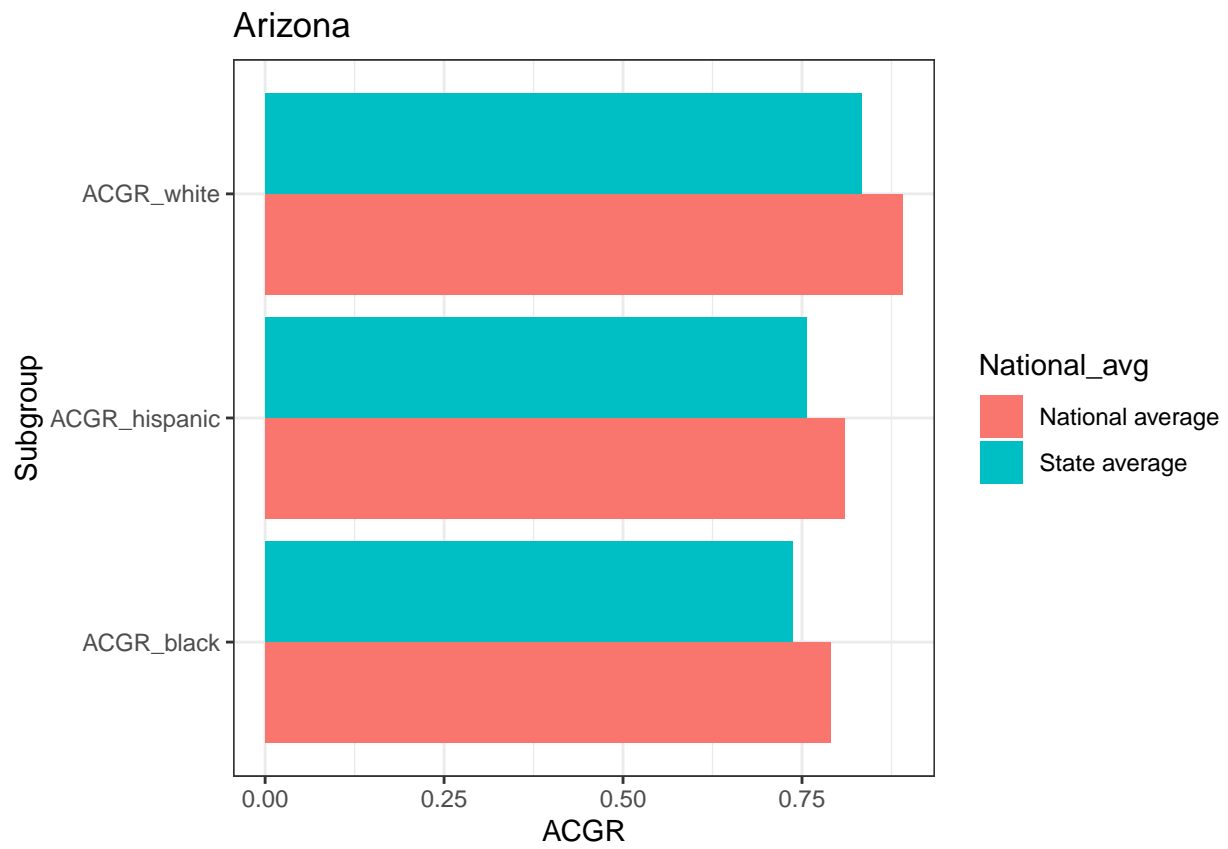
## $Alabama
```



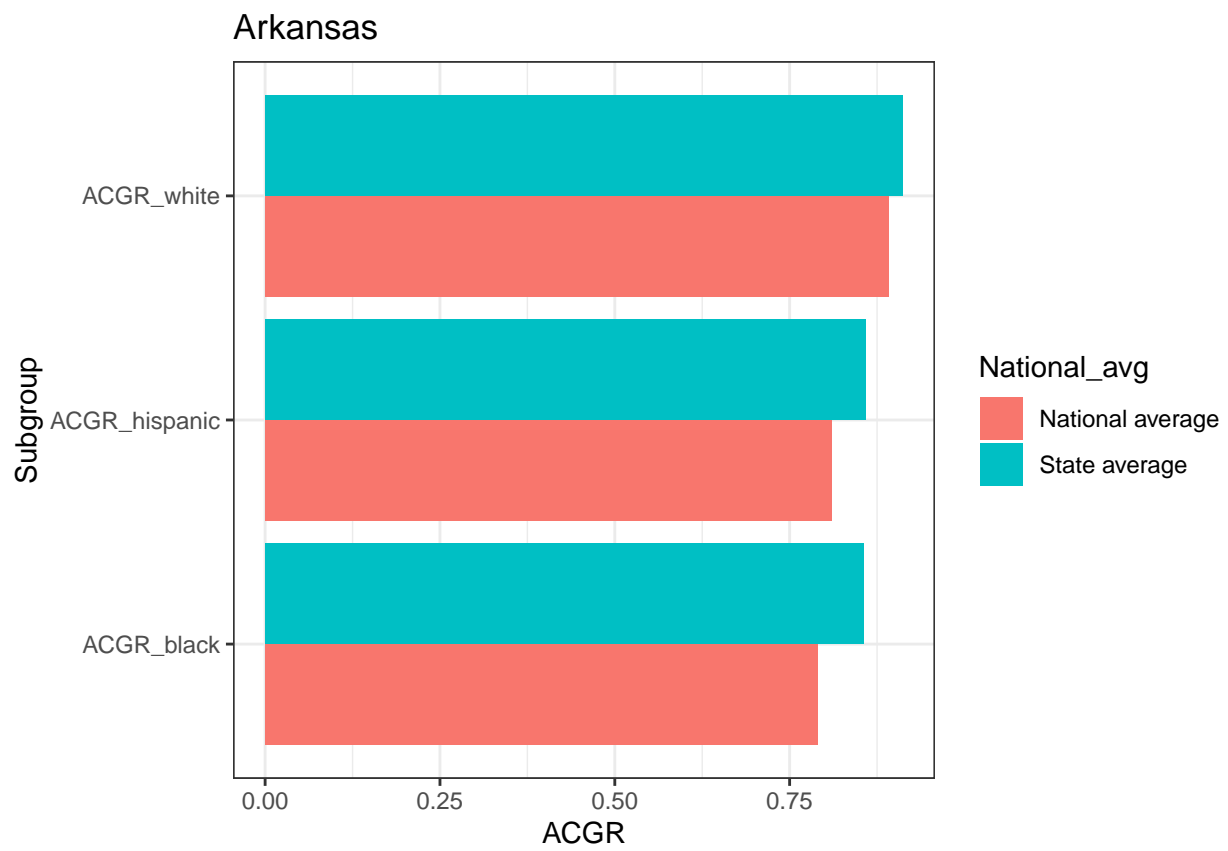
\$Alaska



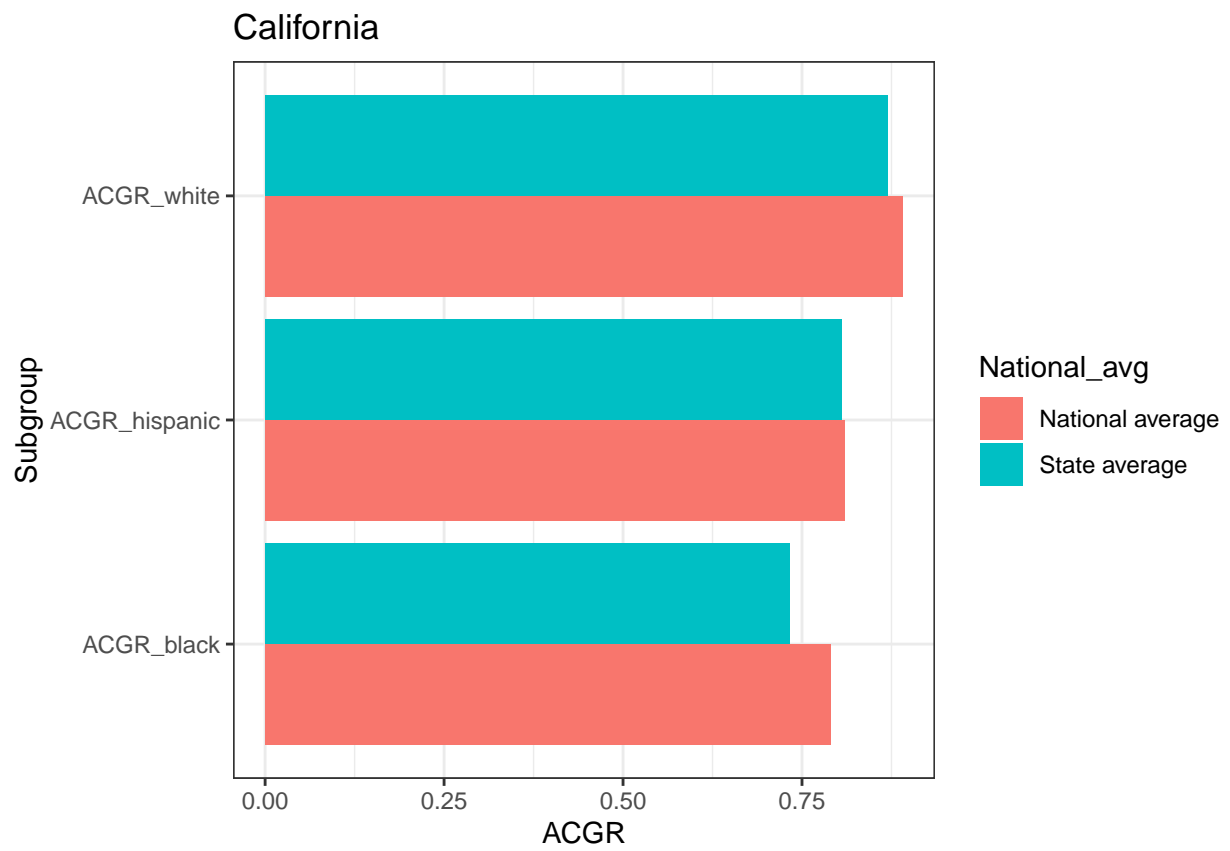
\$Arizona



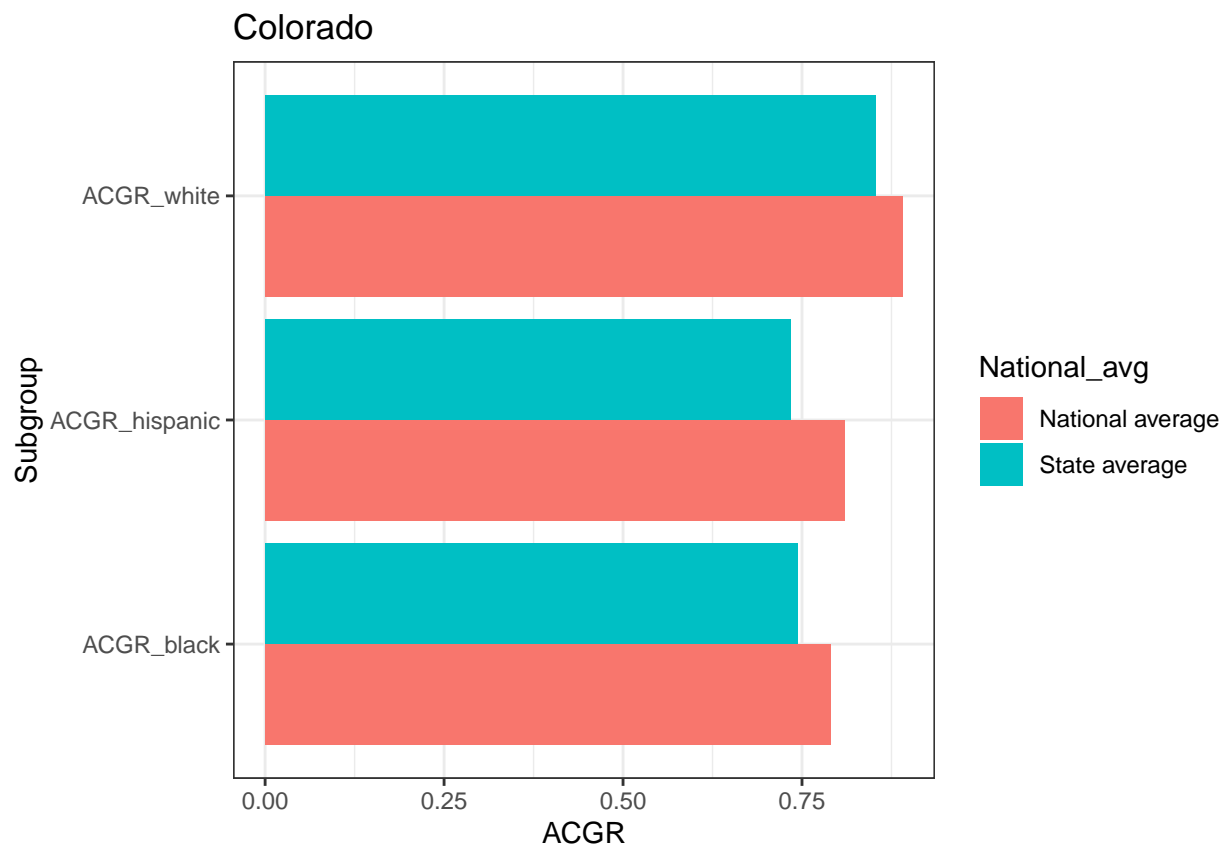
\$Arkansas



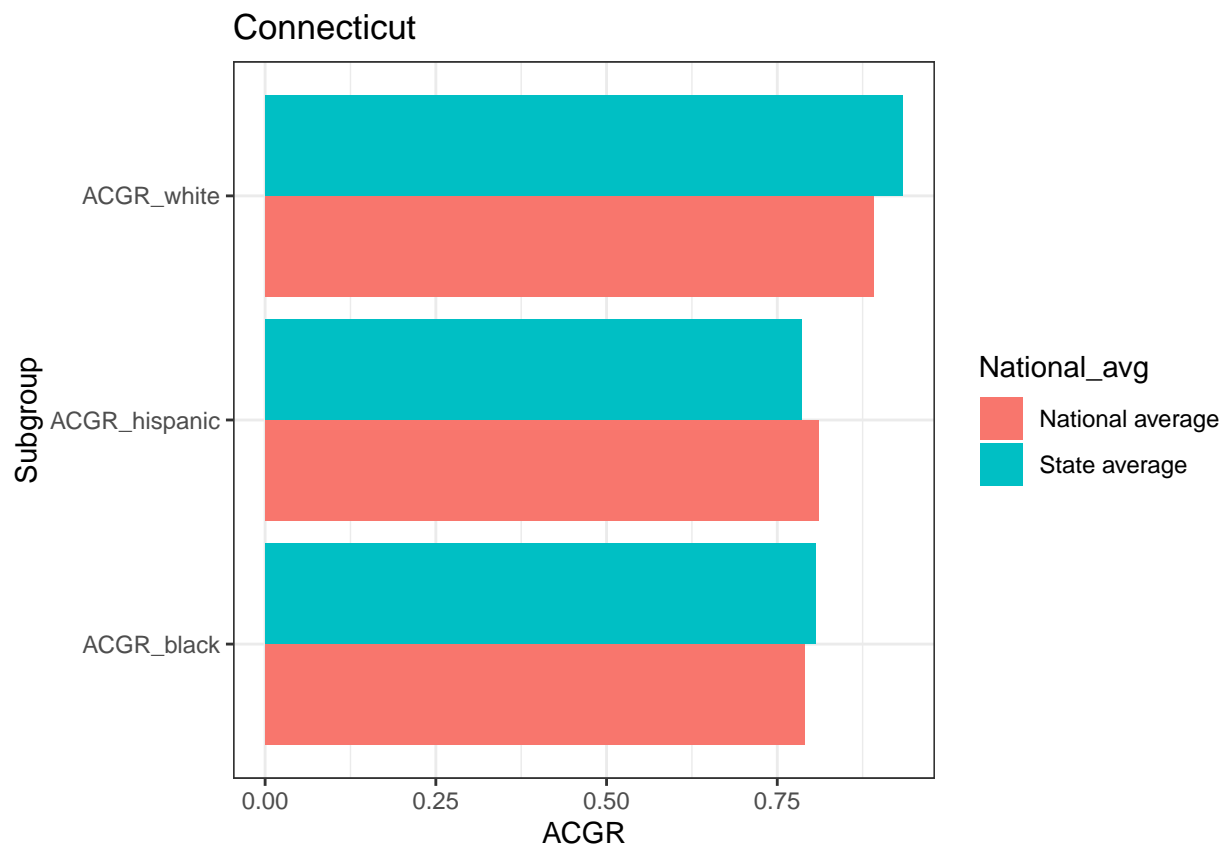
\$California



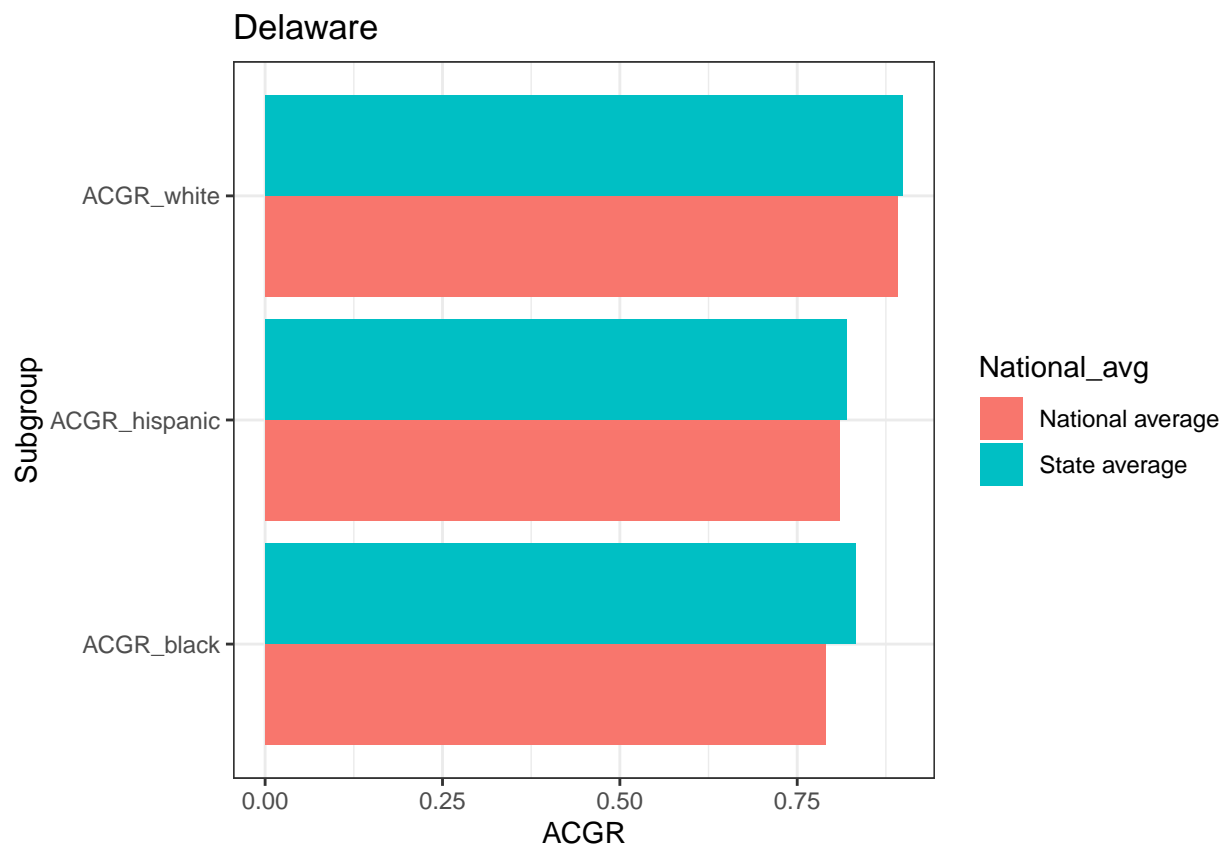
\$Colorado



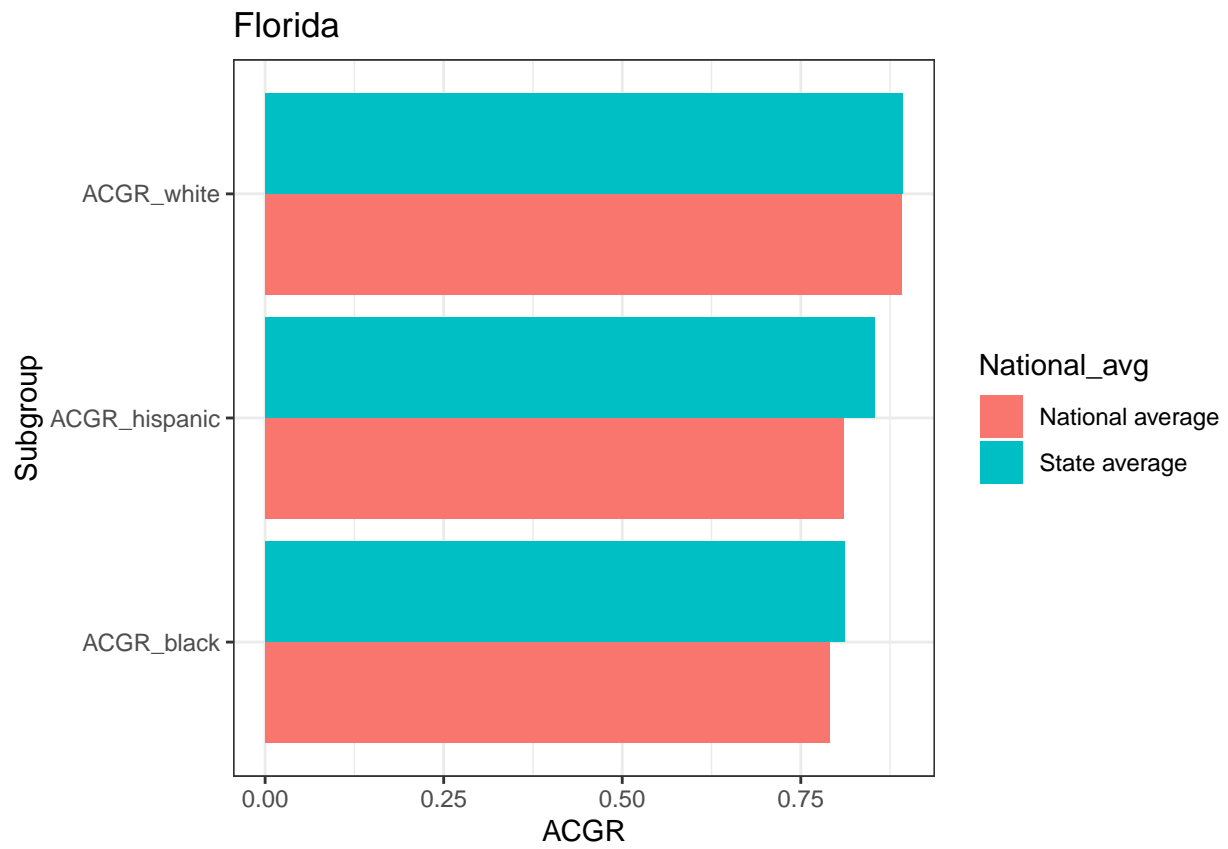
\$Connecticut



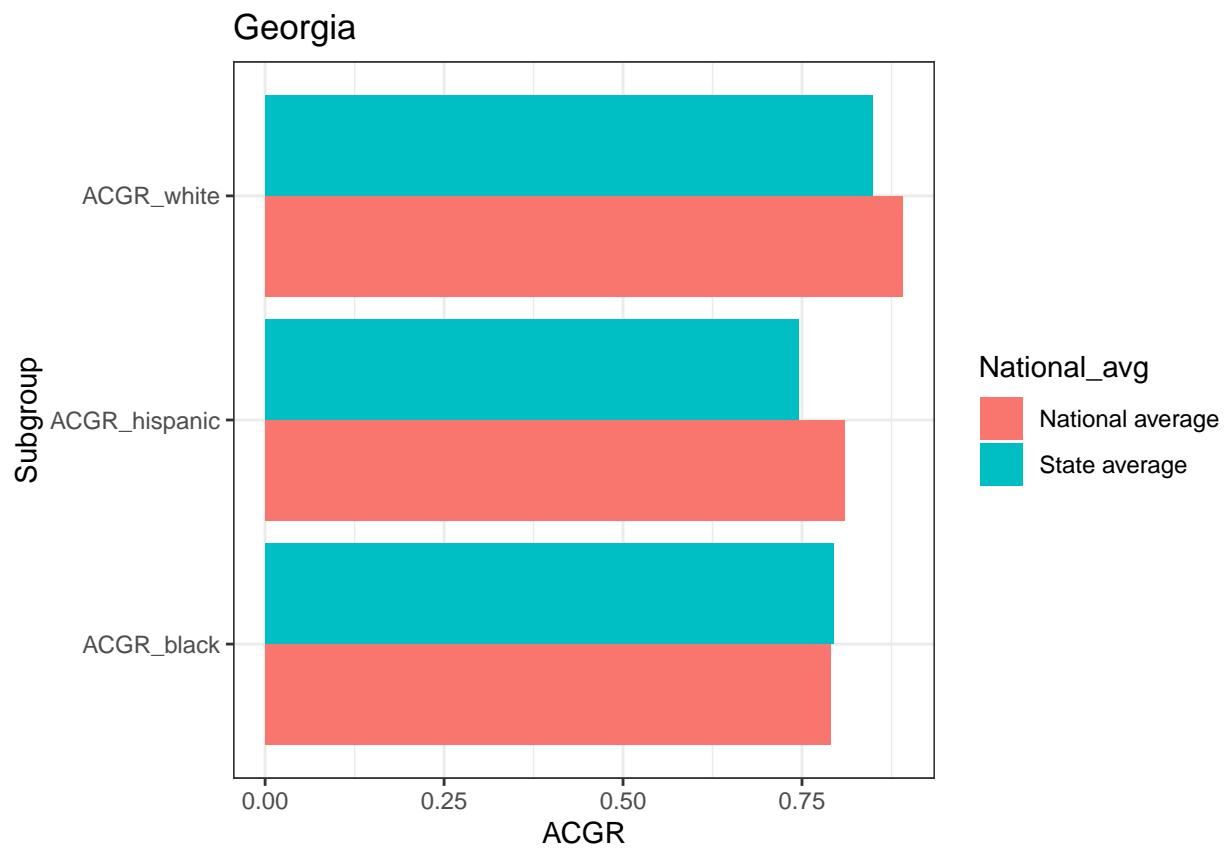
\$Delaware



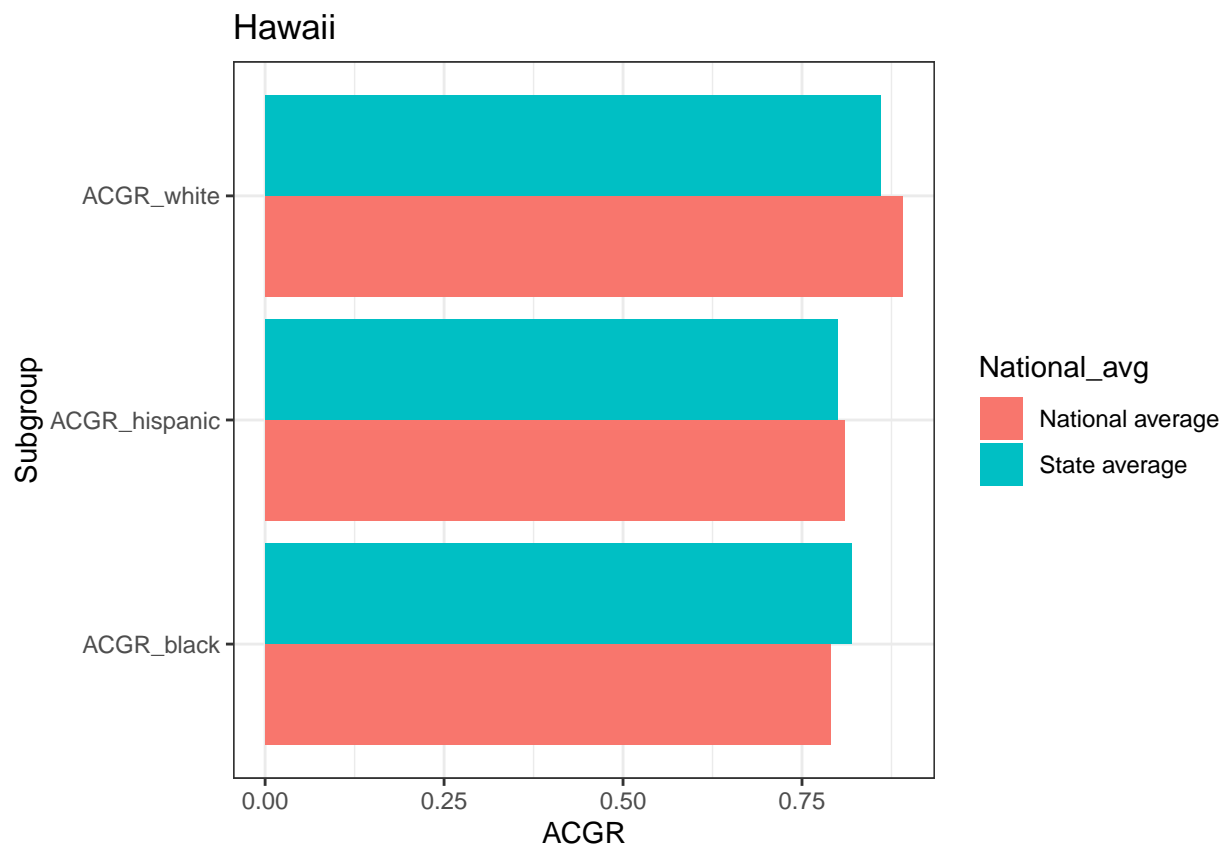
\$Florida



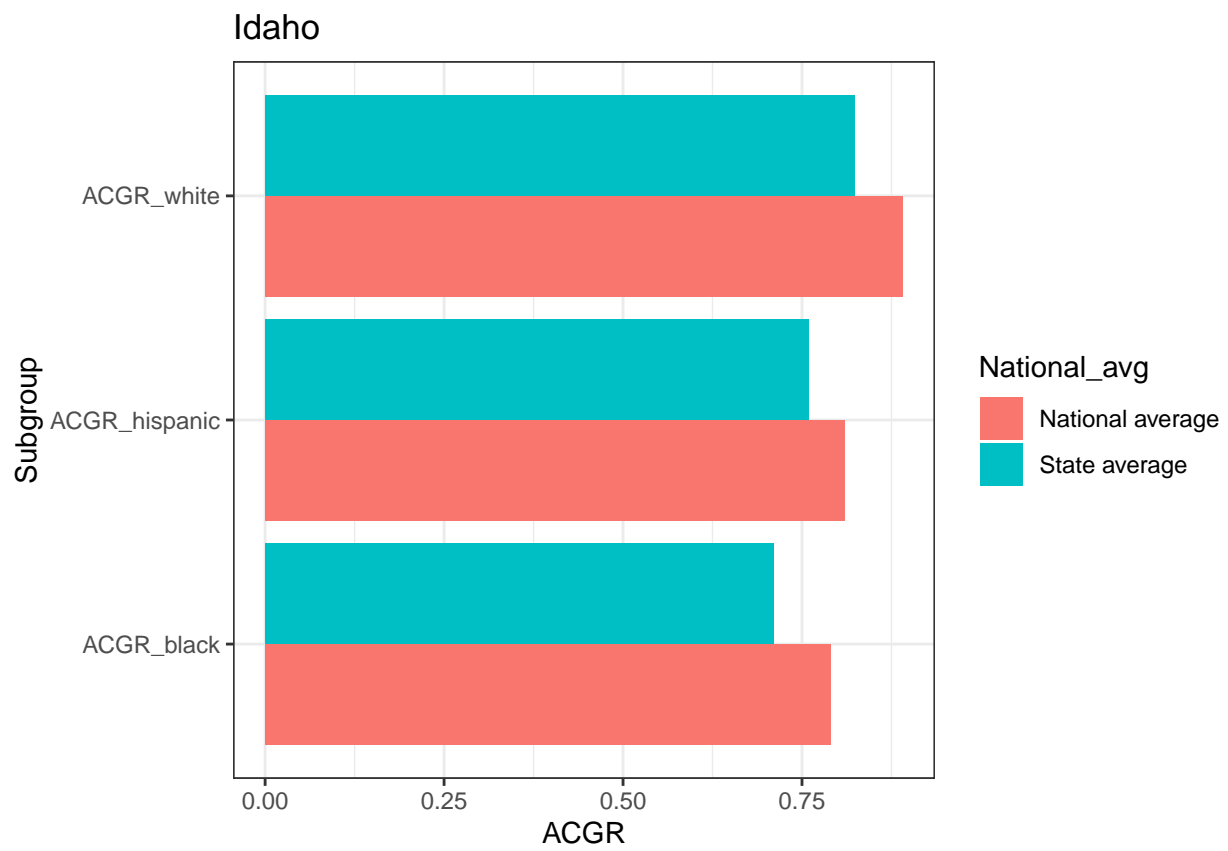
\$Georgia



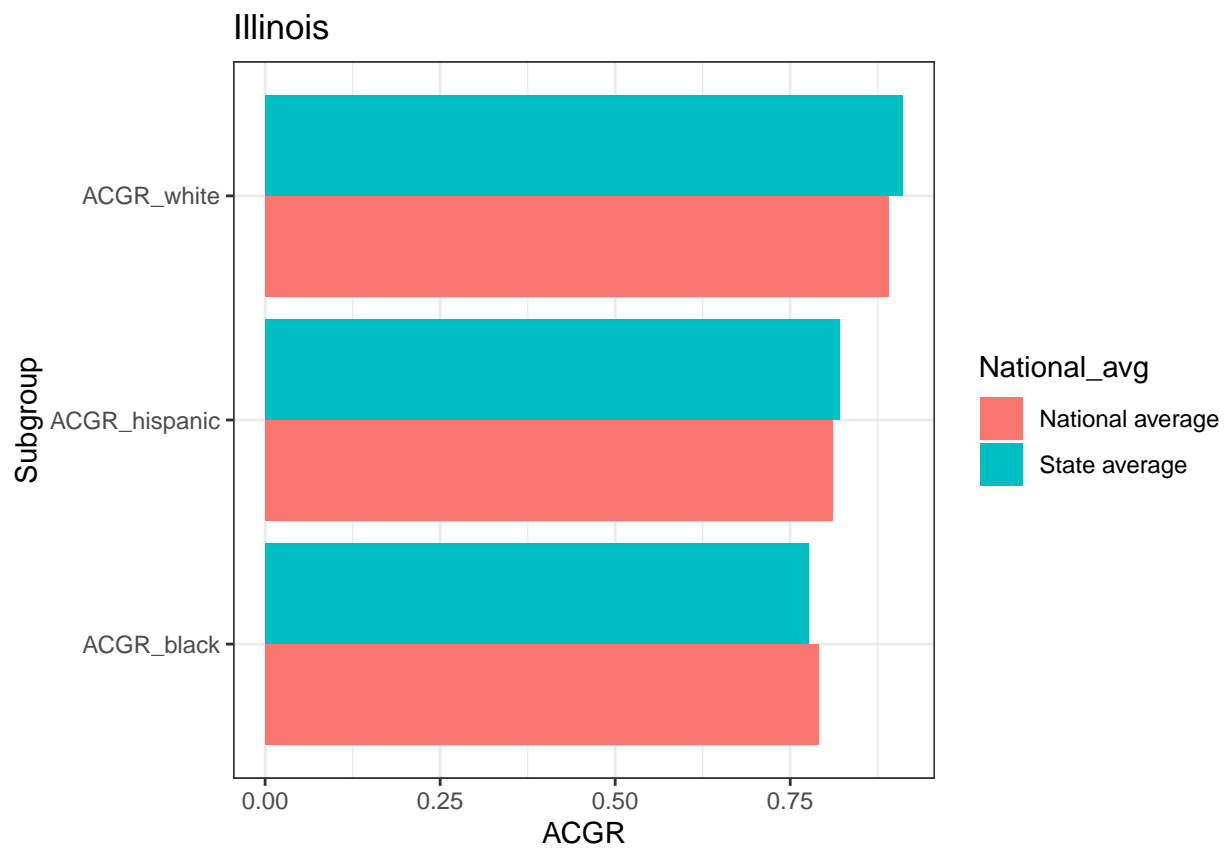
\$Hawaii



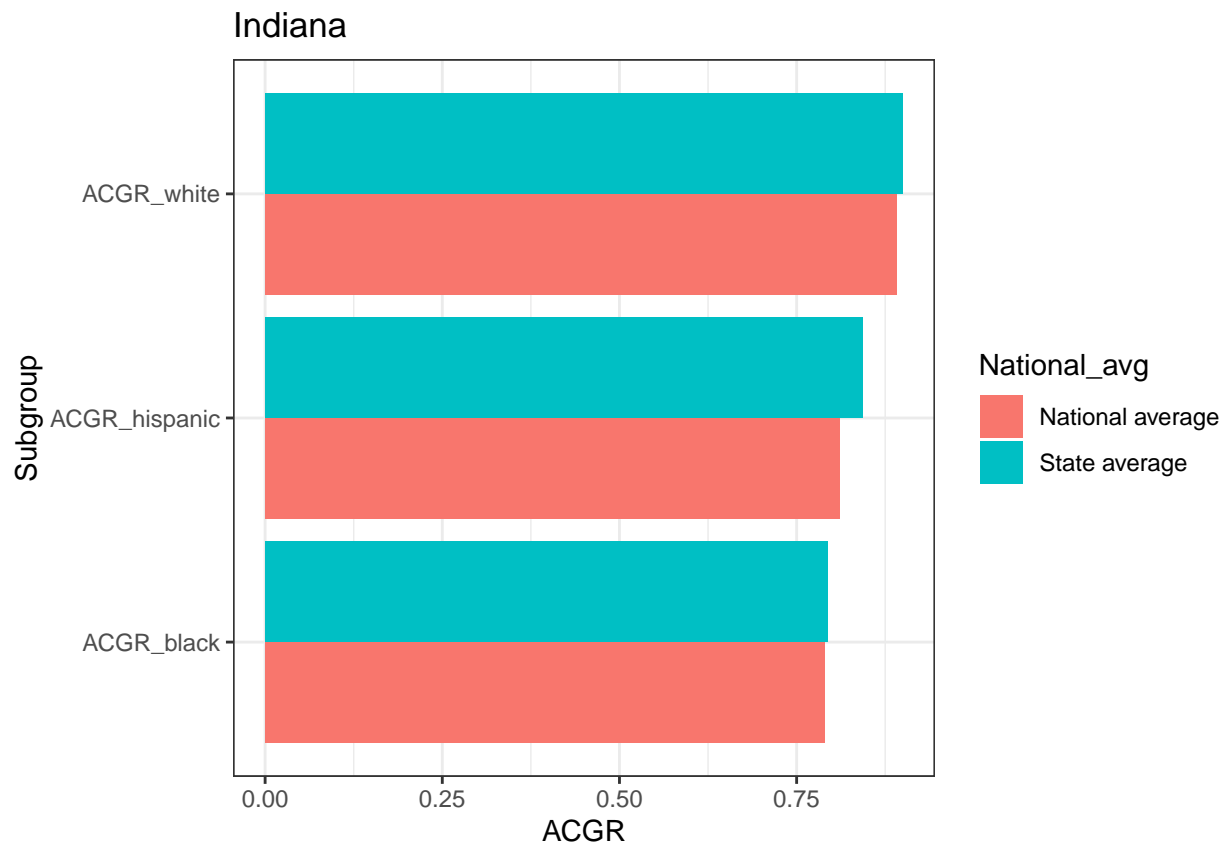
\$Idaho



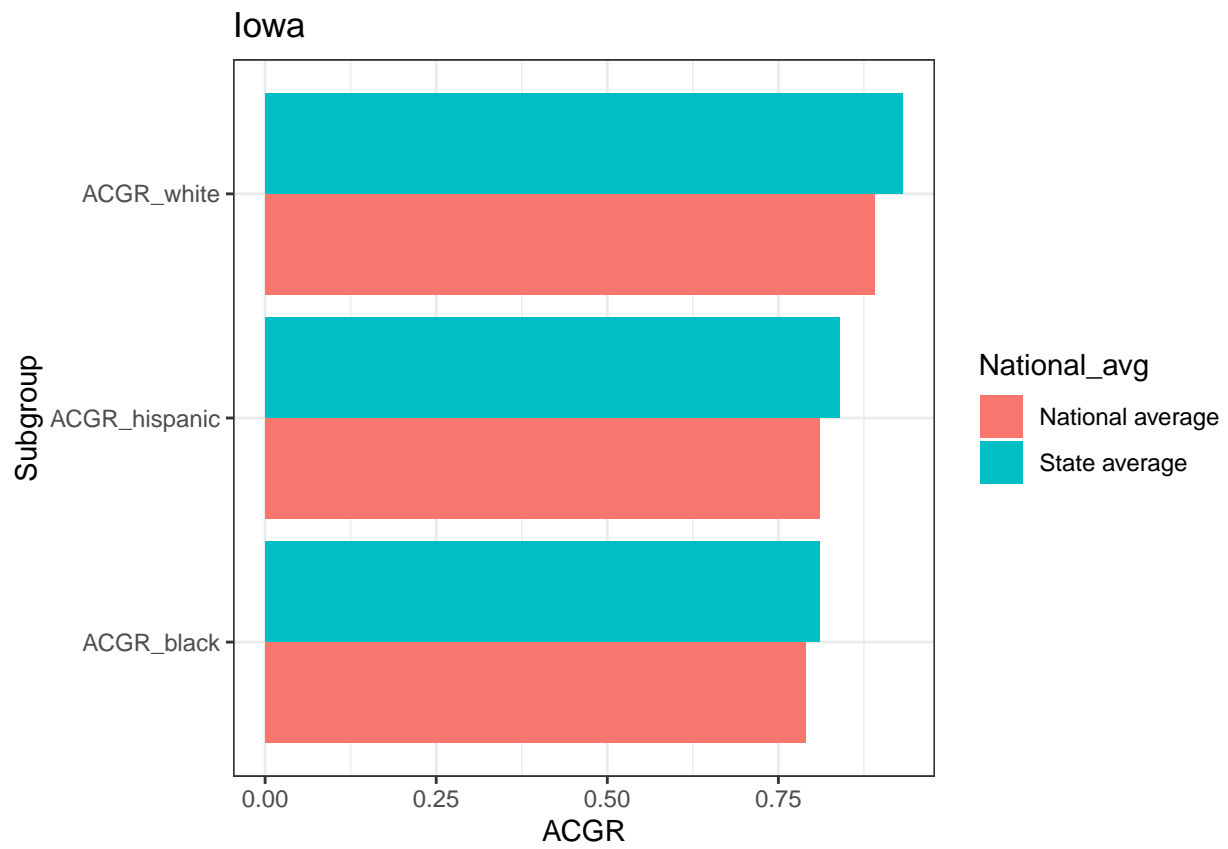
\$Illinois



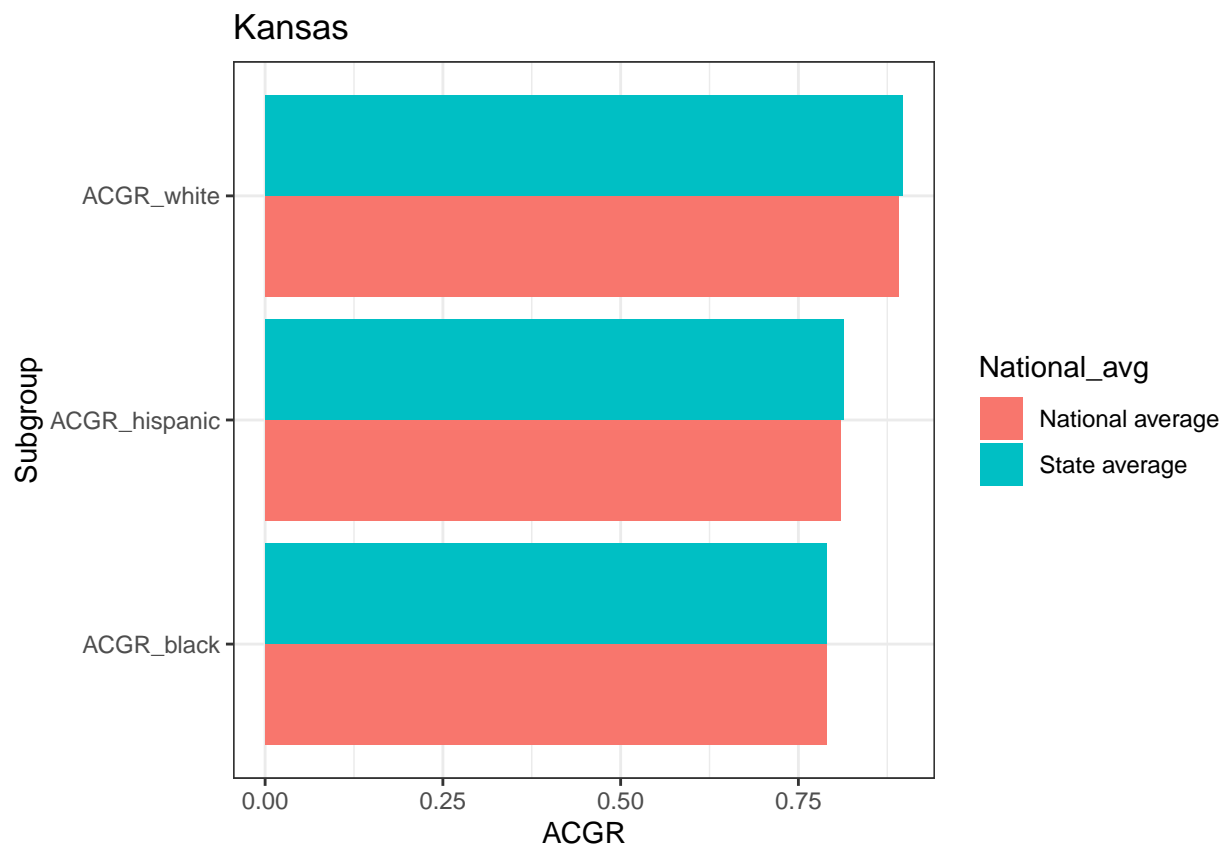
\$Indiana



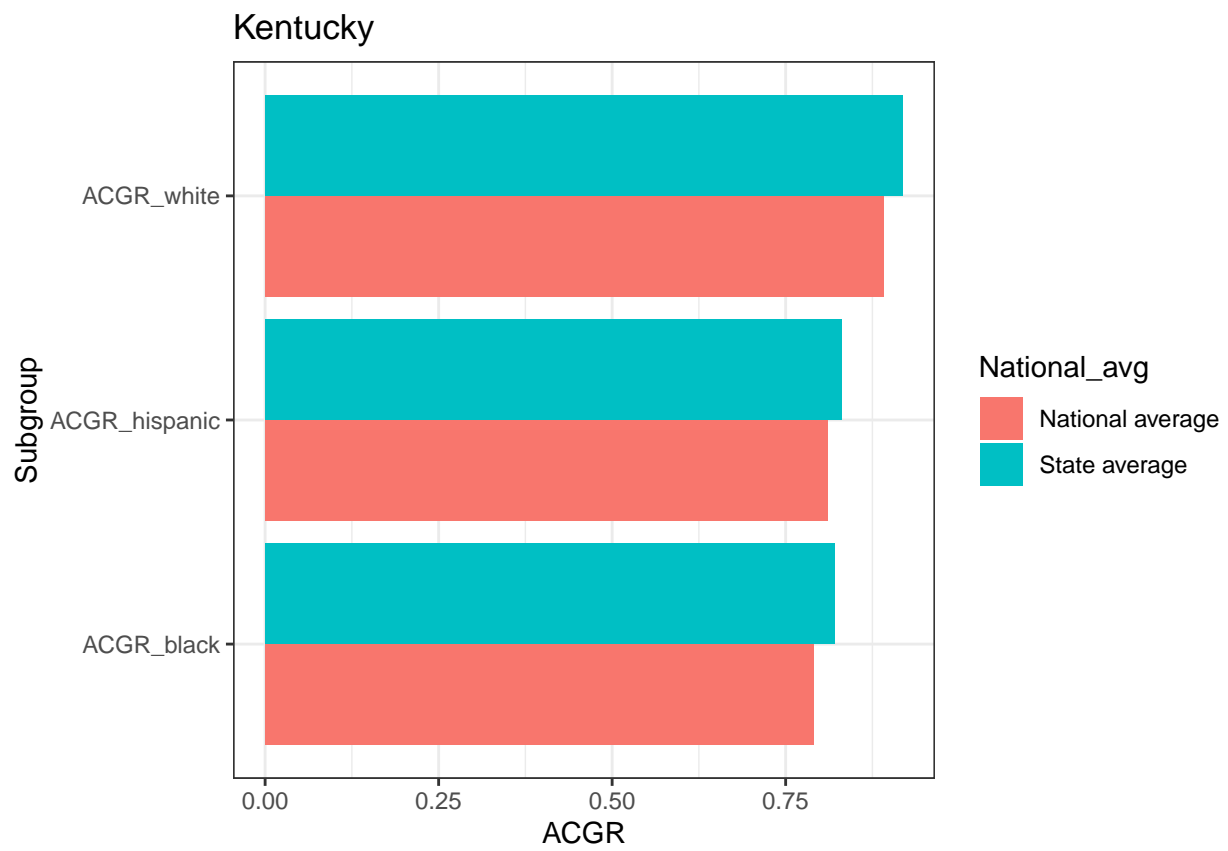
\$Iowa



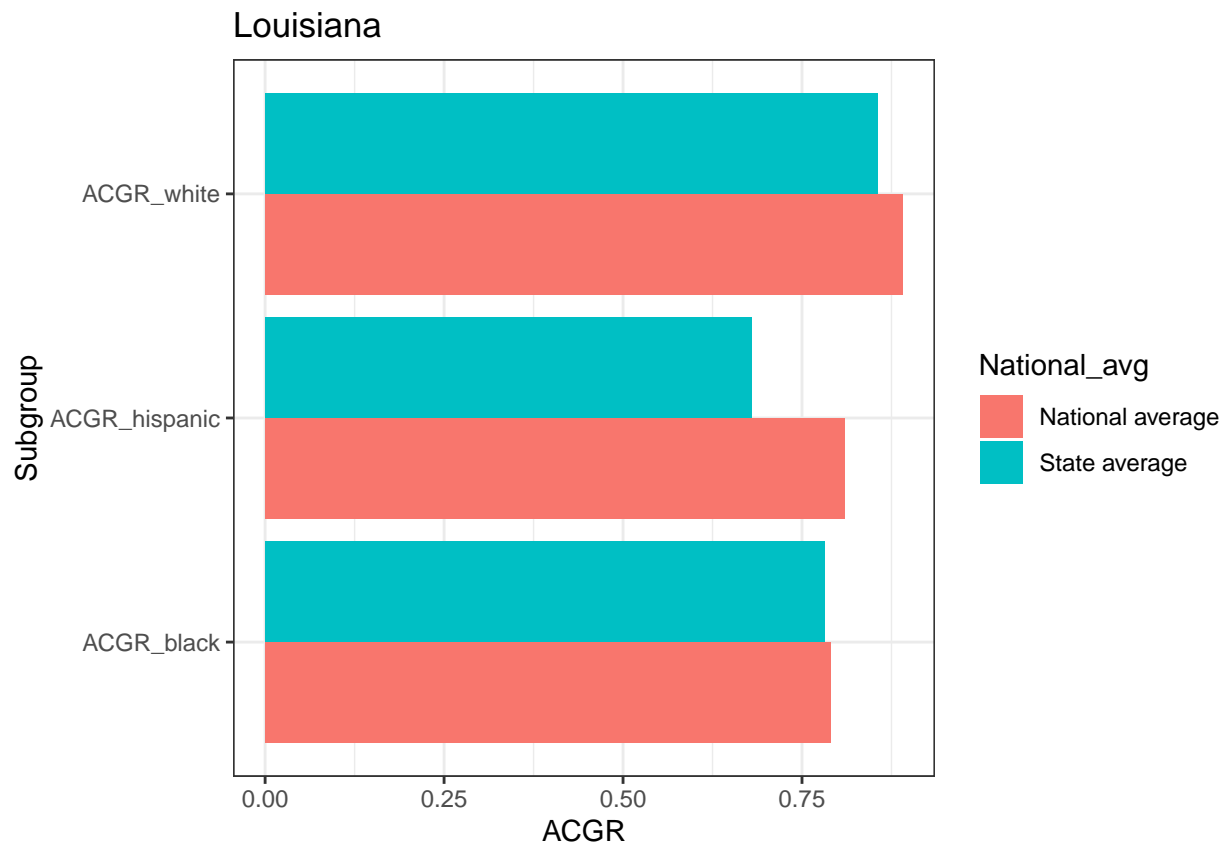
\$Kansas



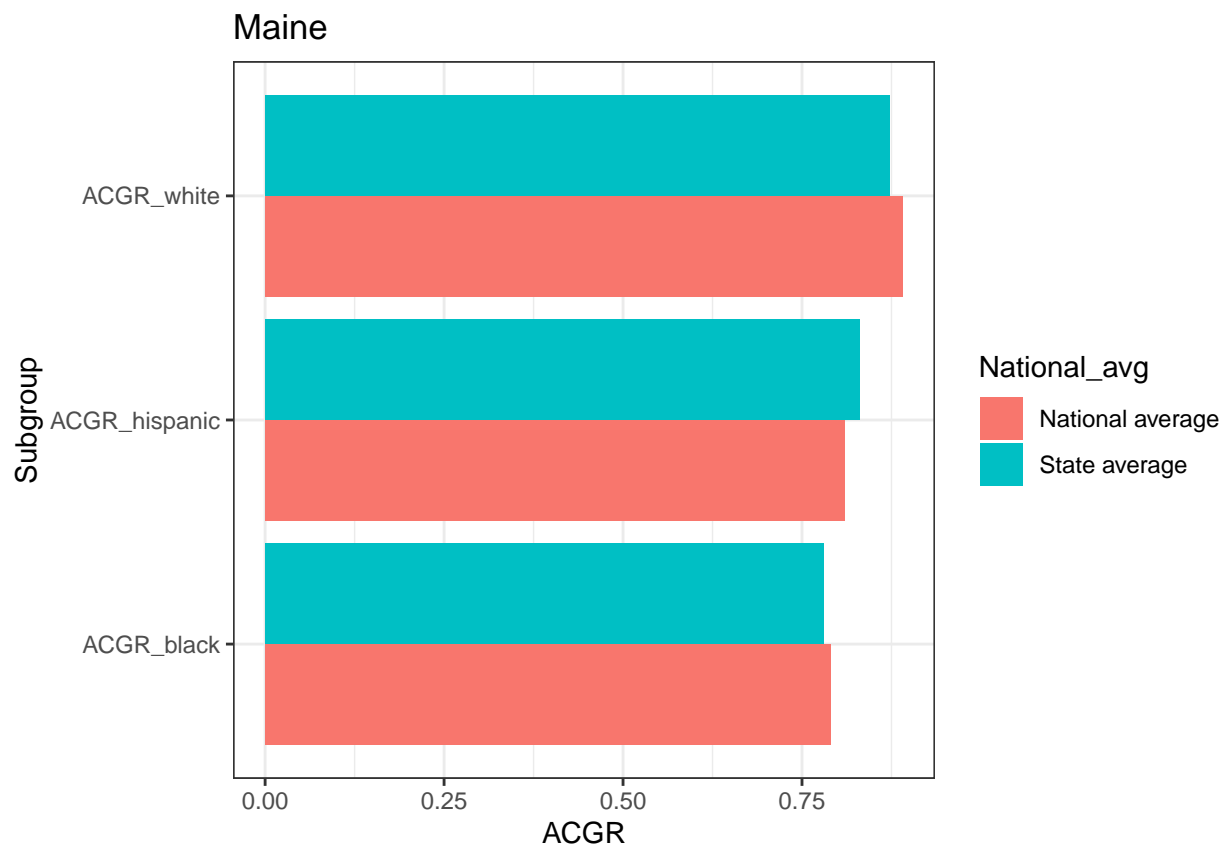
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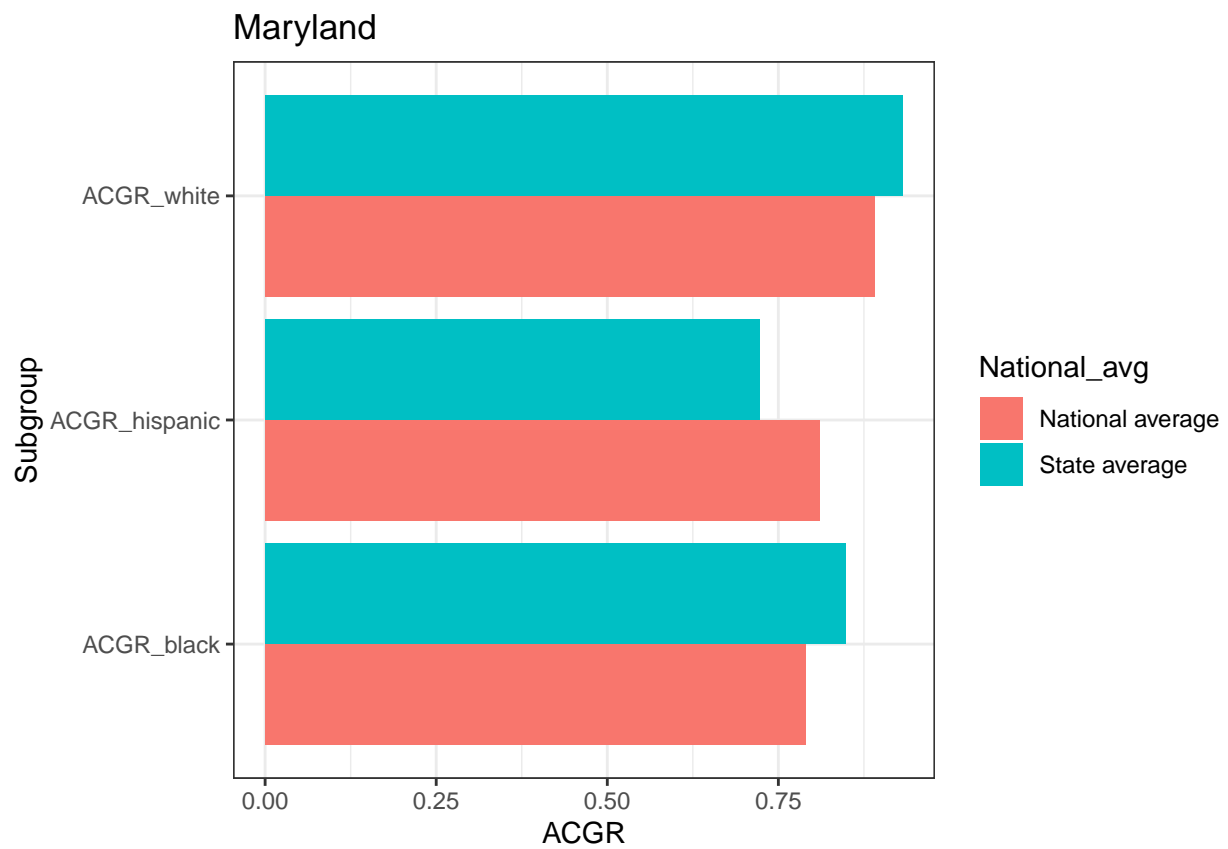
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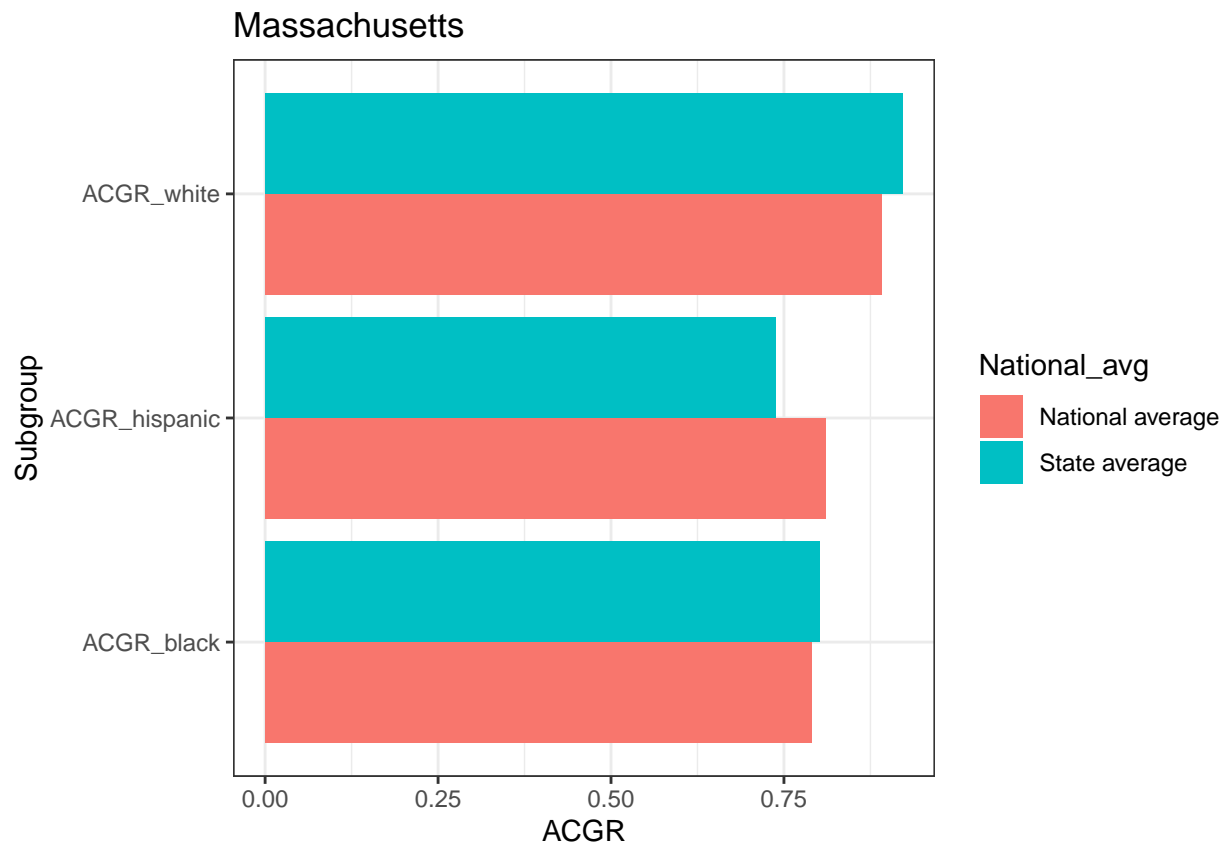
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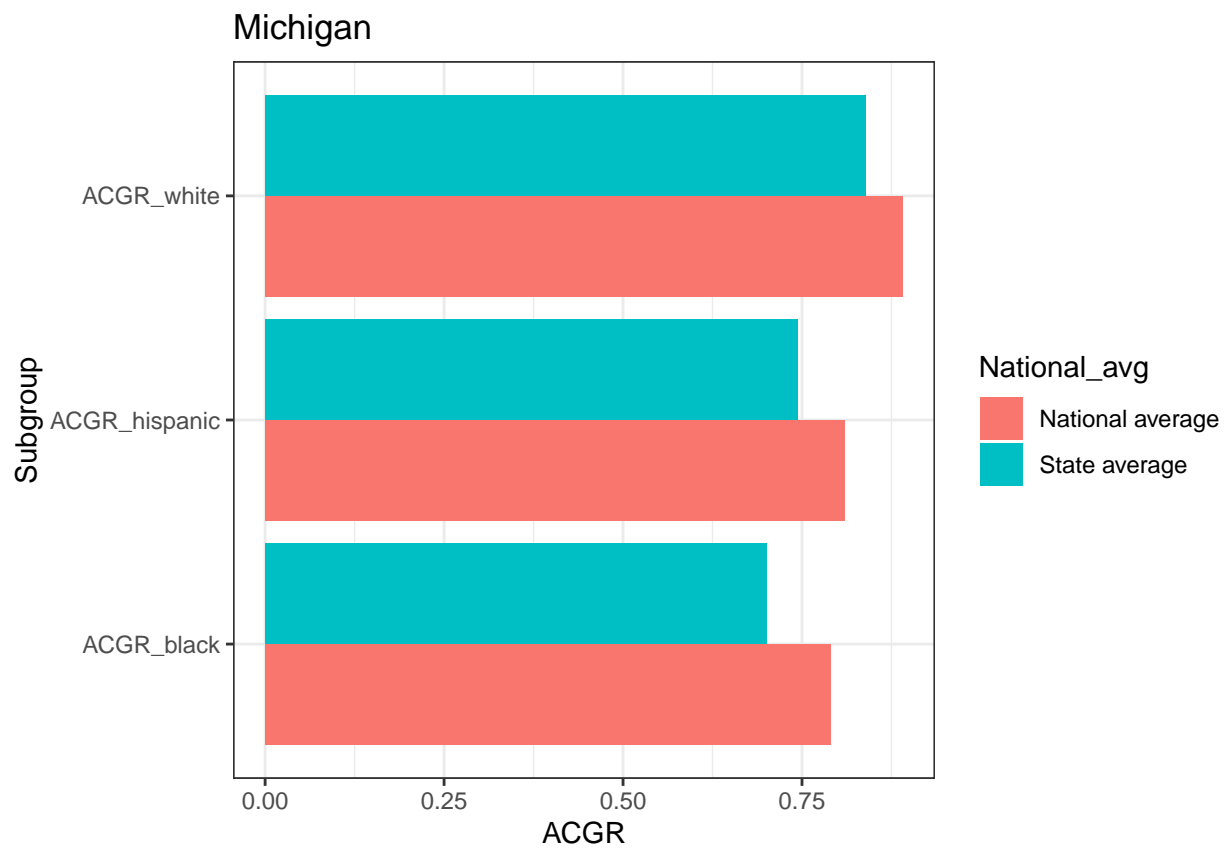
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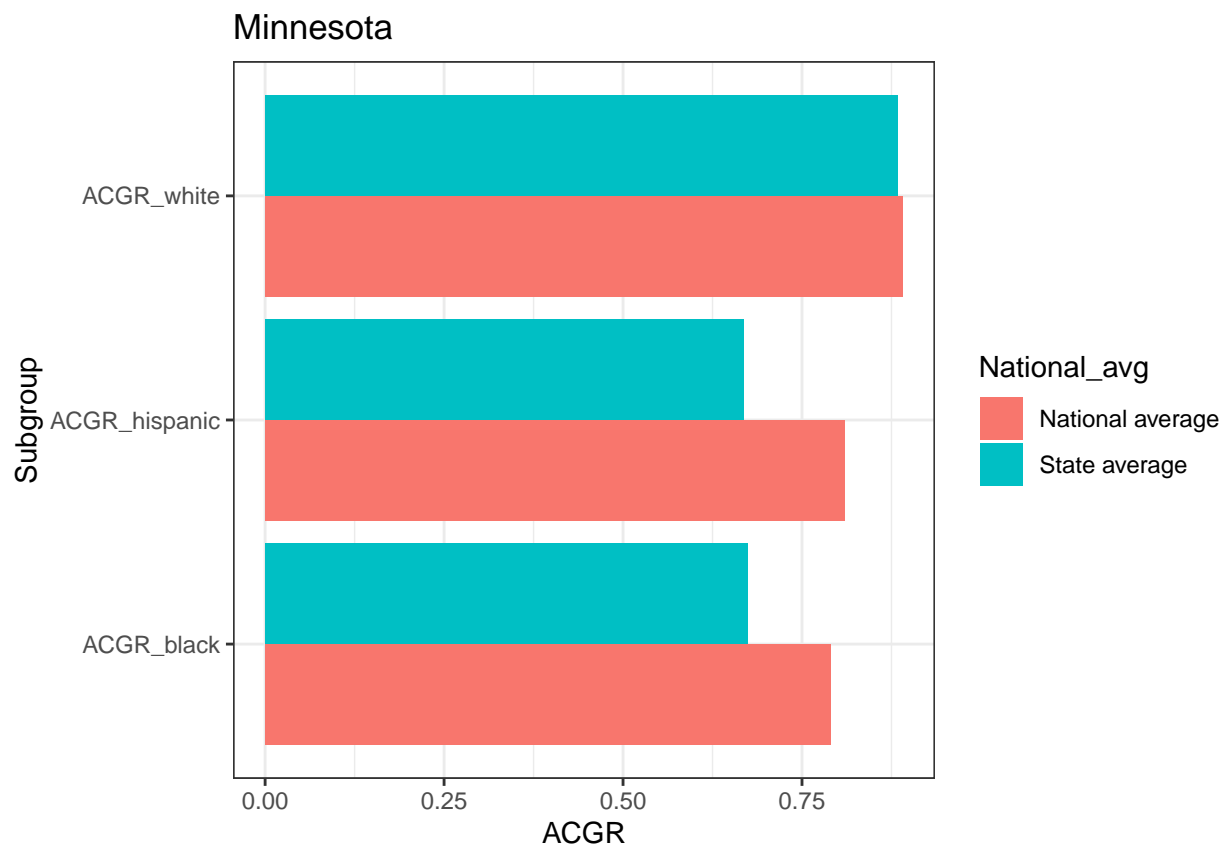
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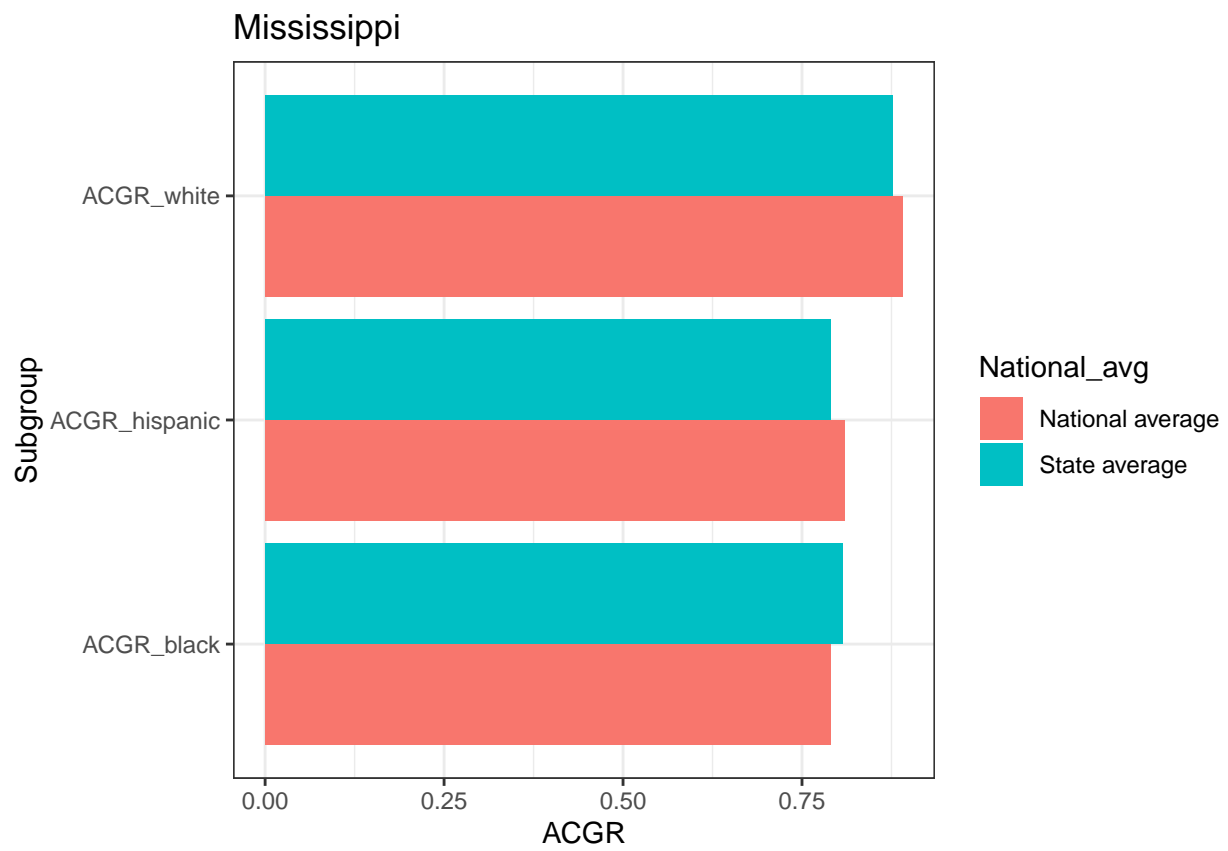
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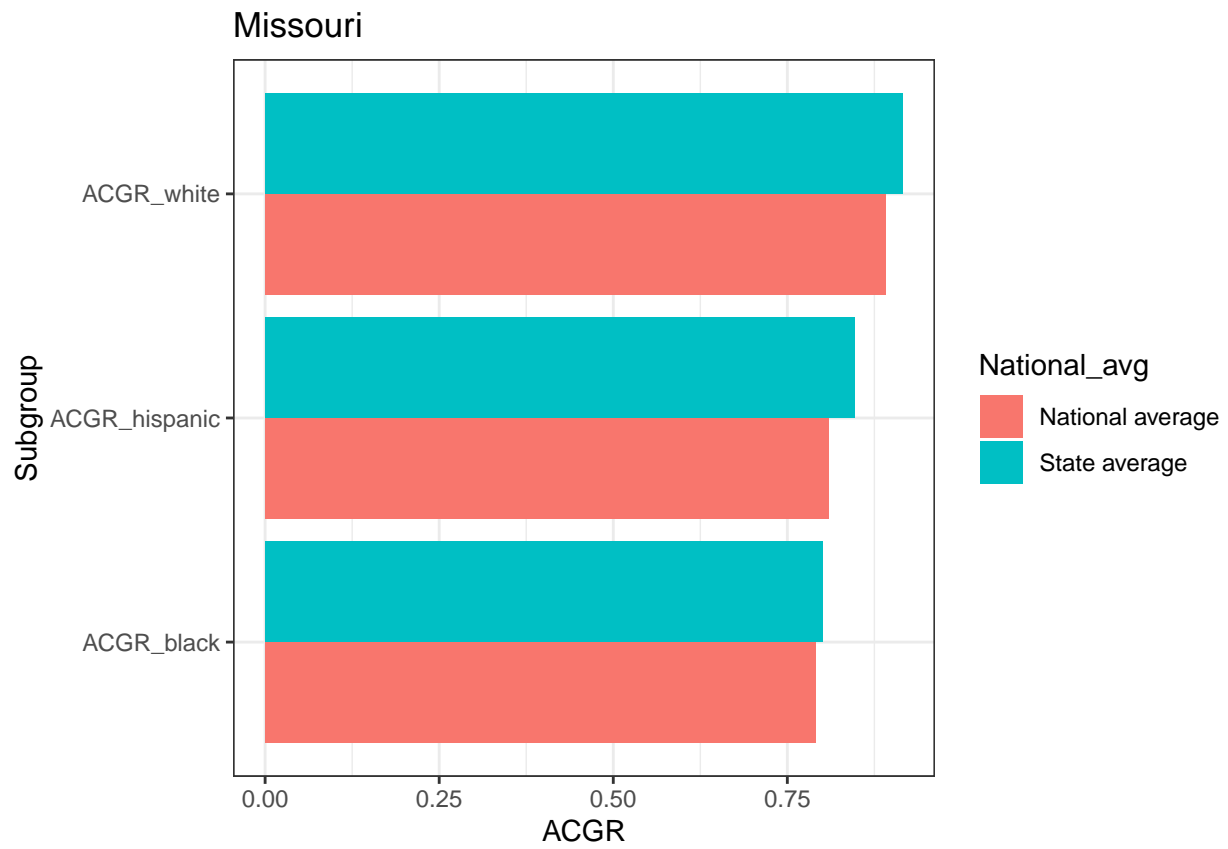
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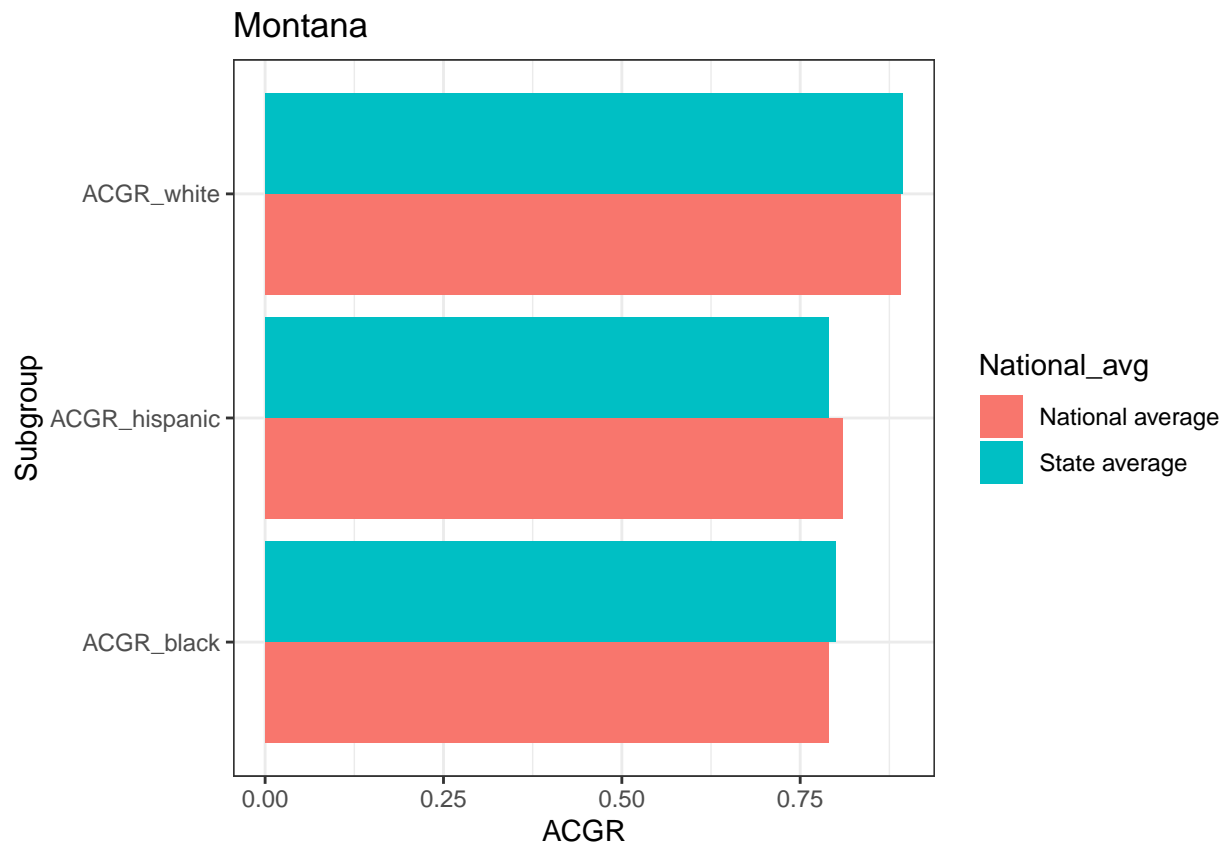
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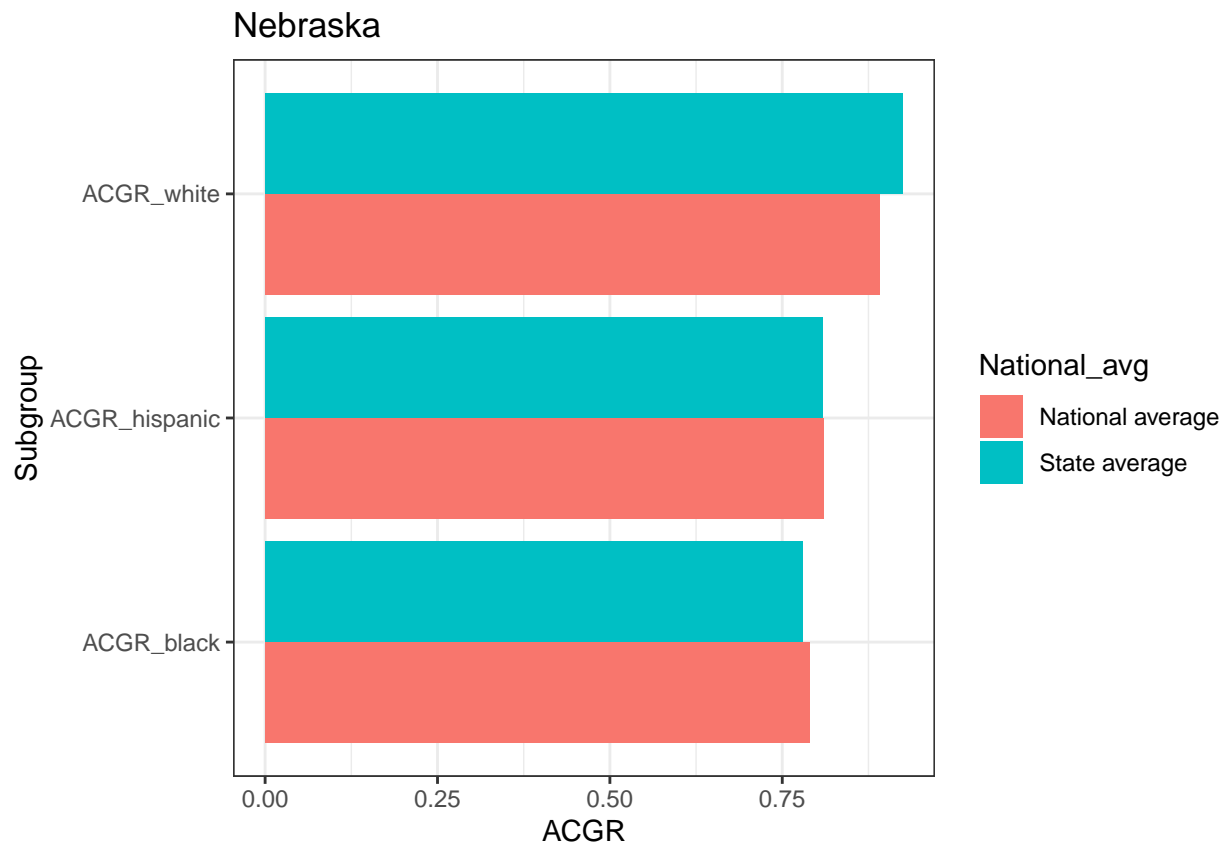
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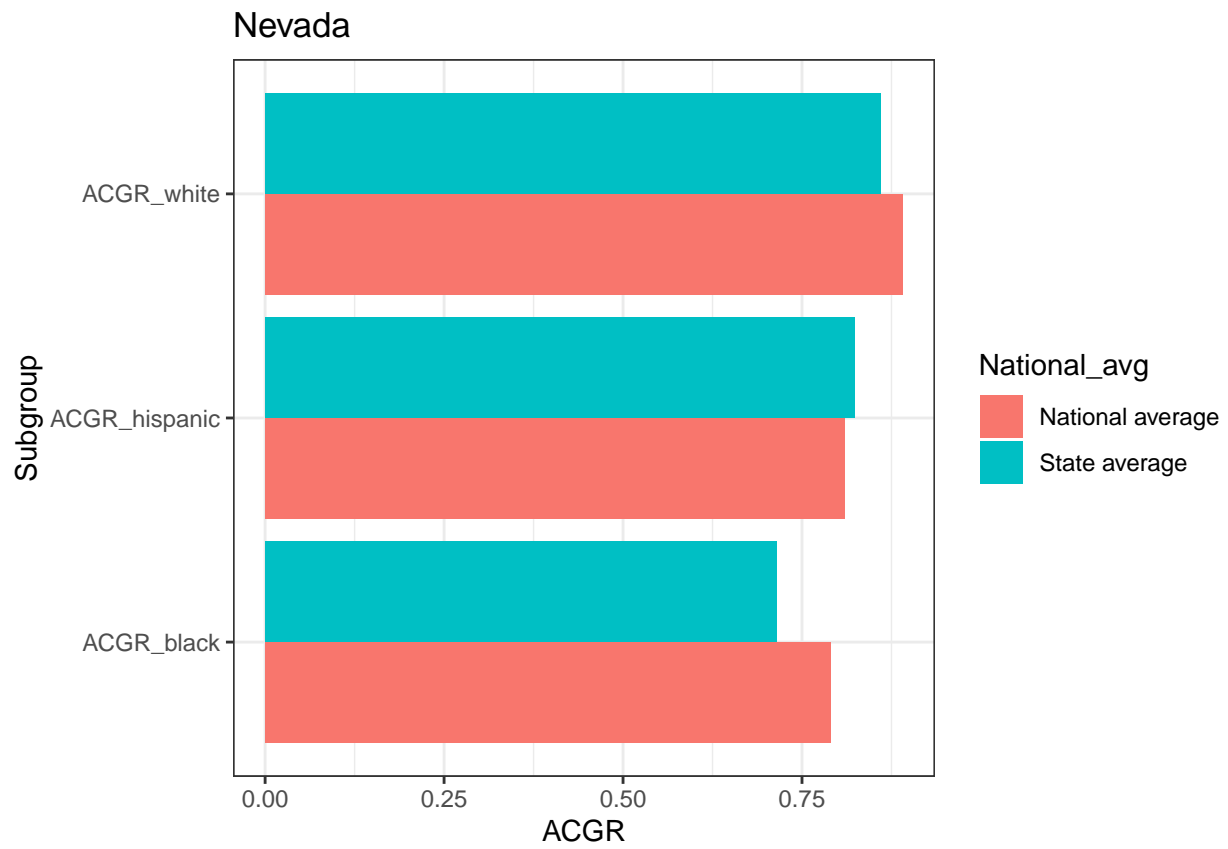
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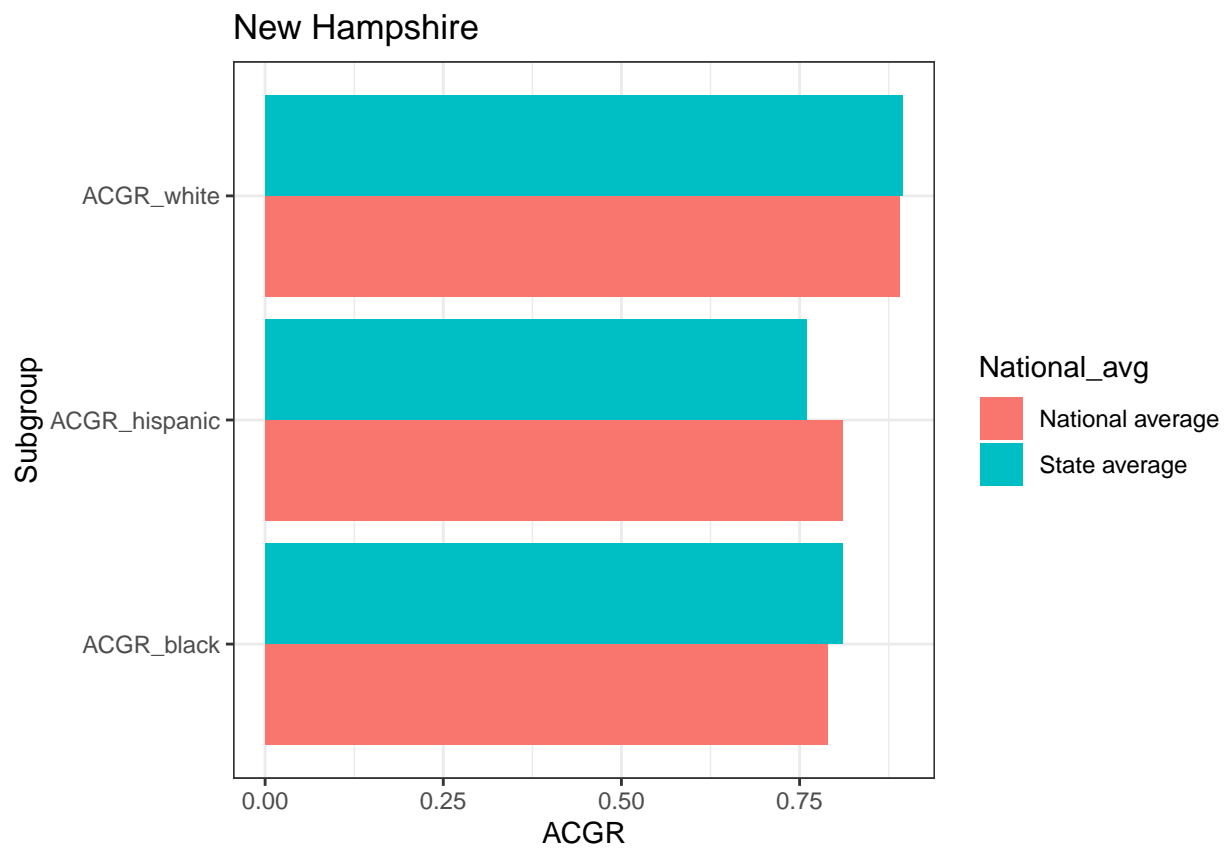
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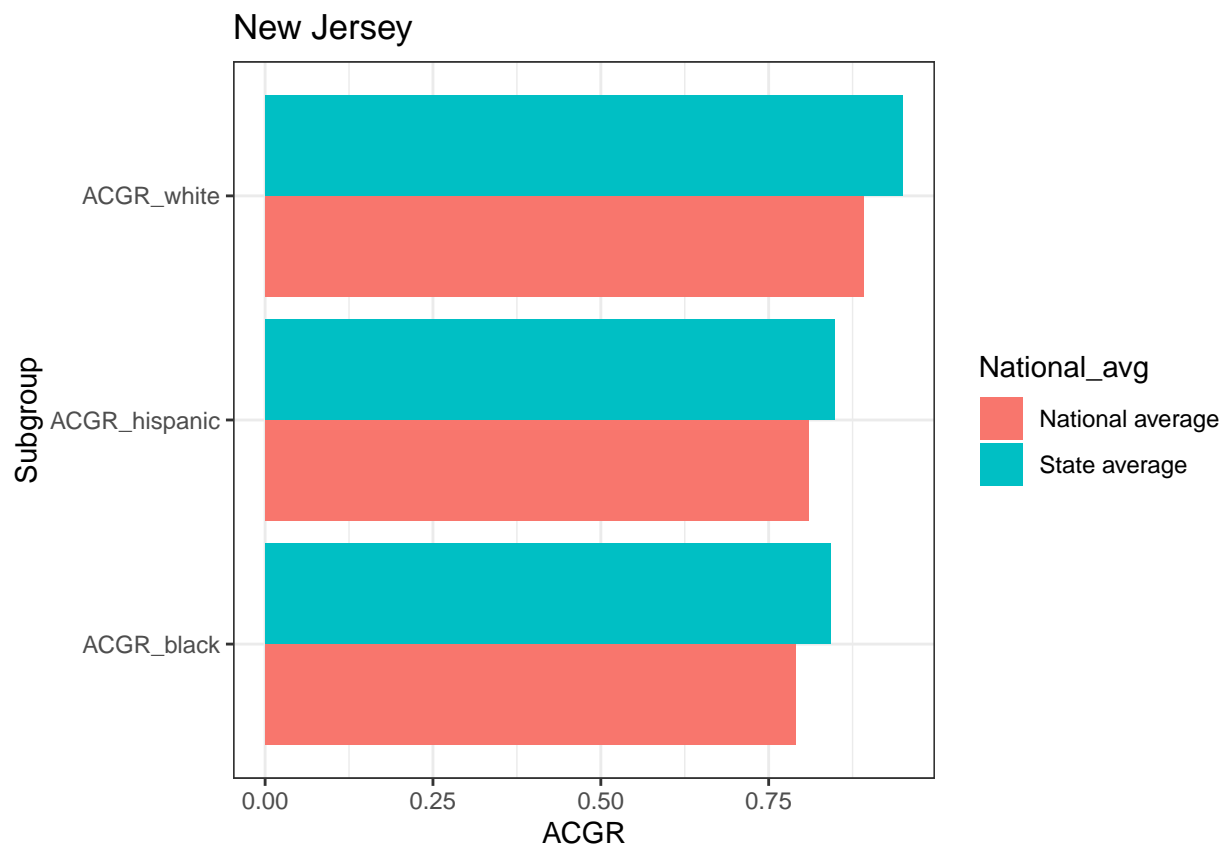
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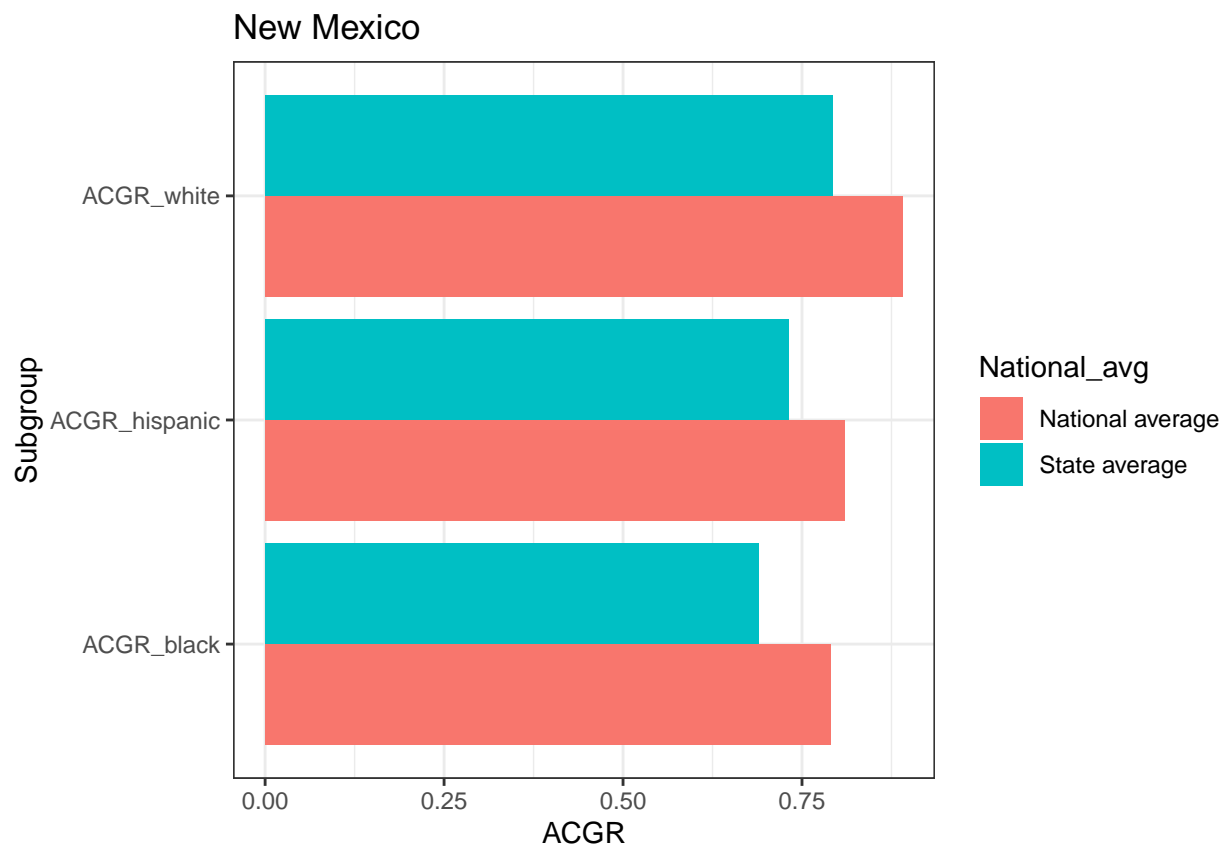
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##  
## $^New Hampshire`
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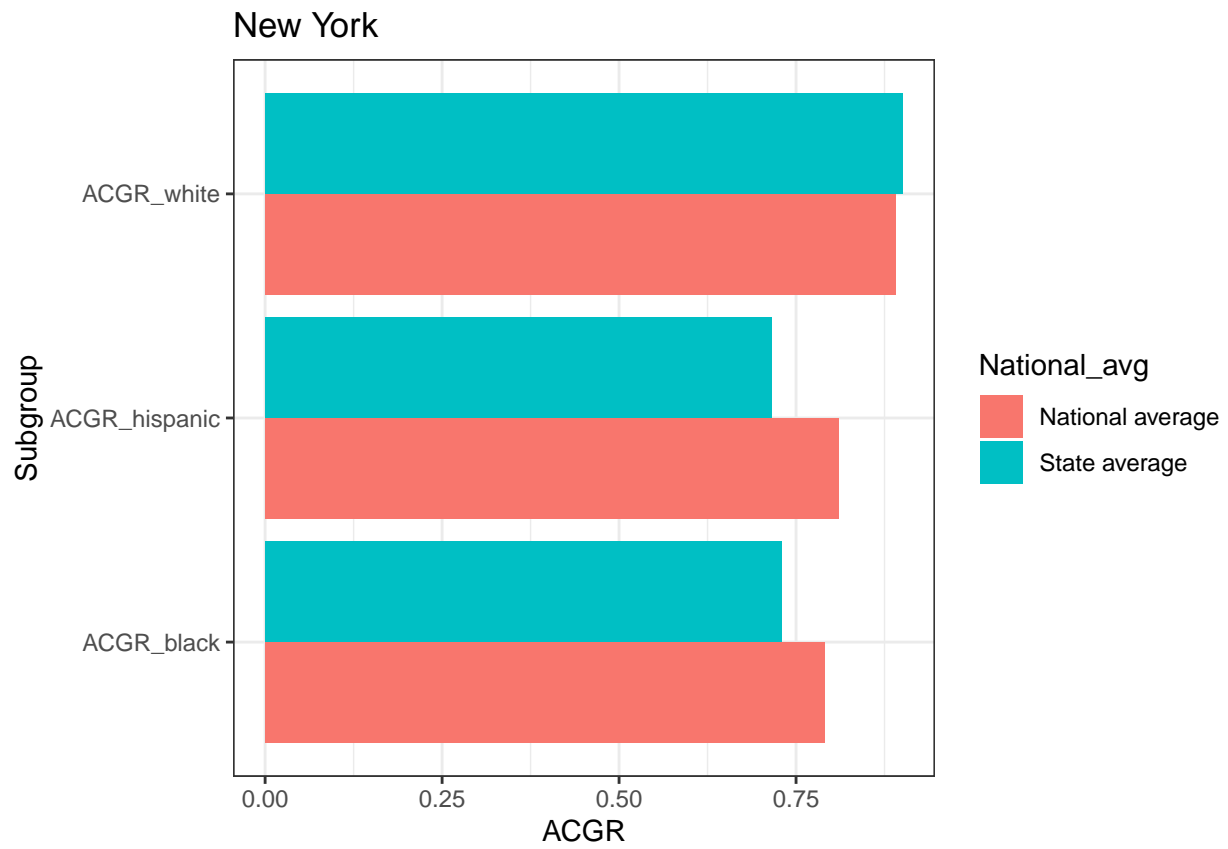
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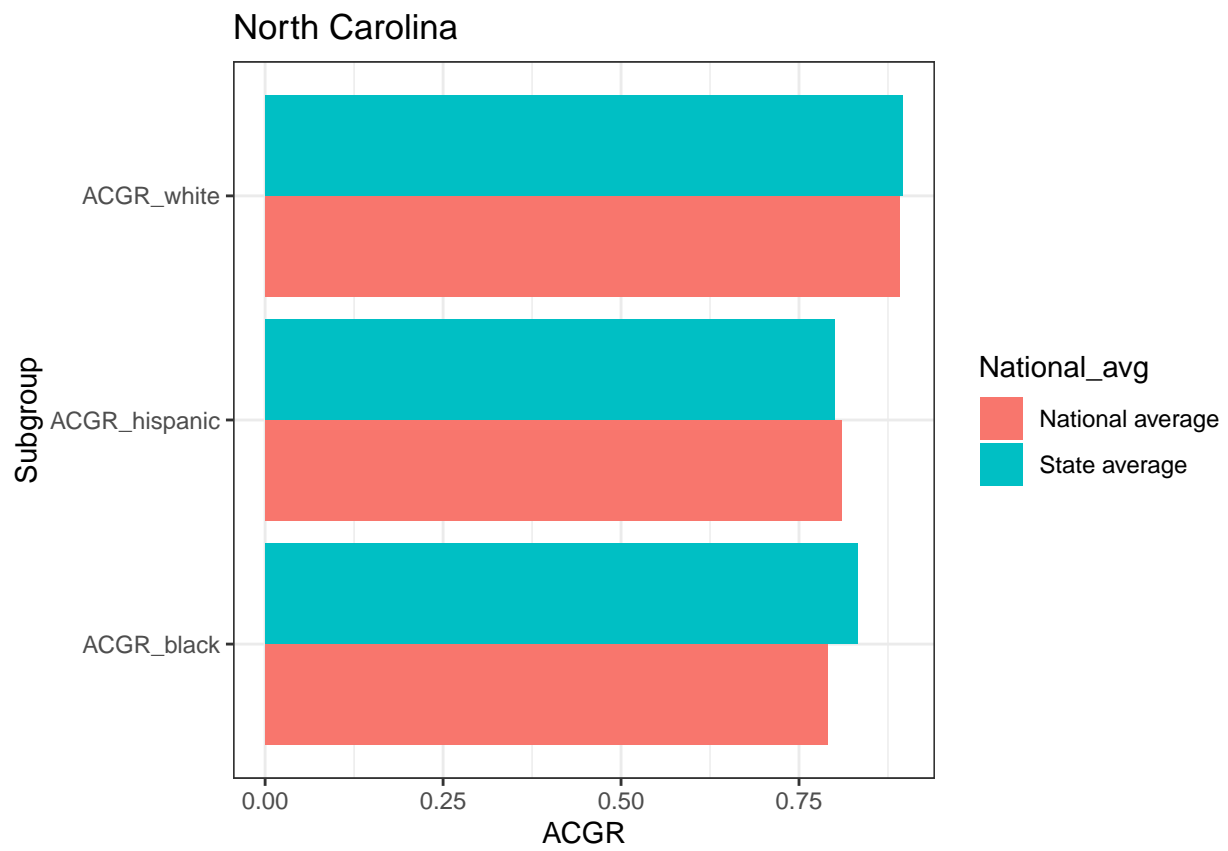
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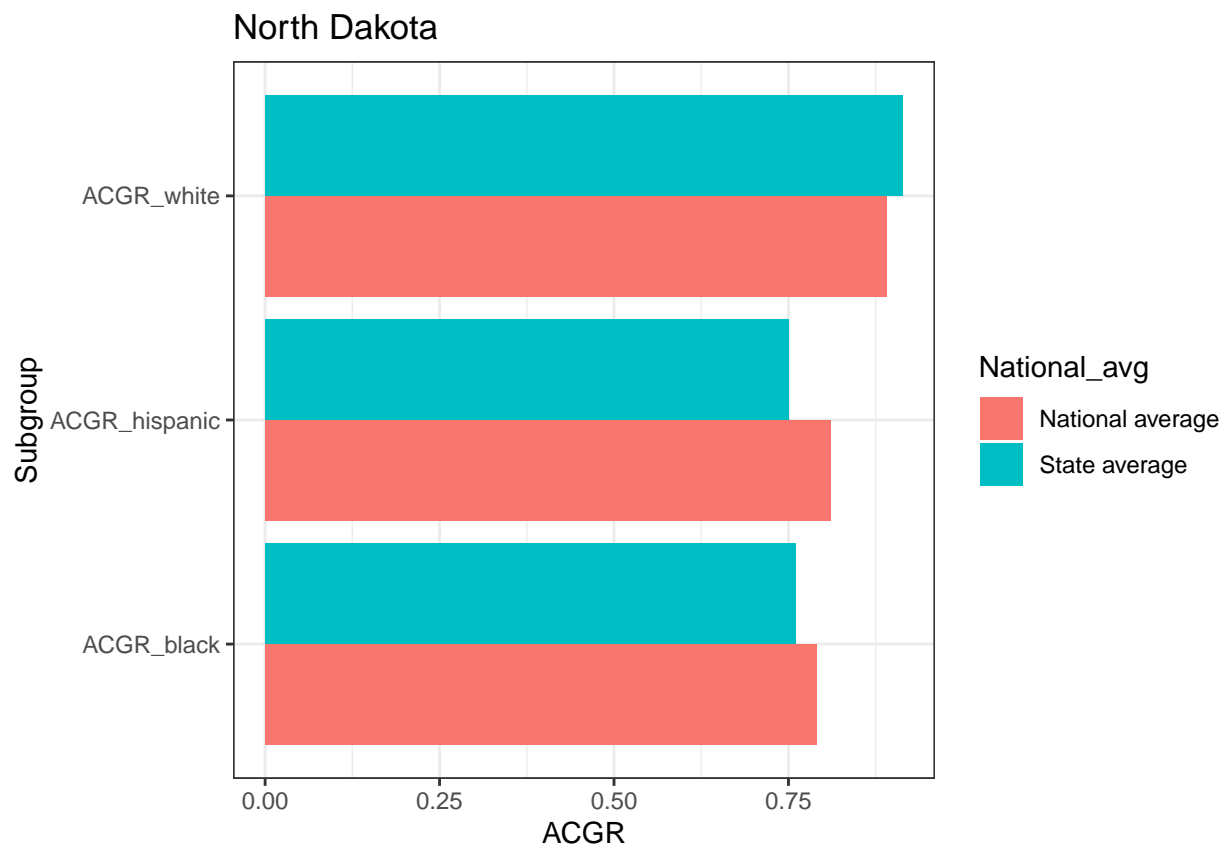
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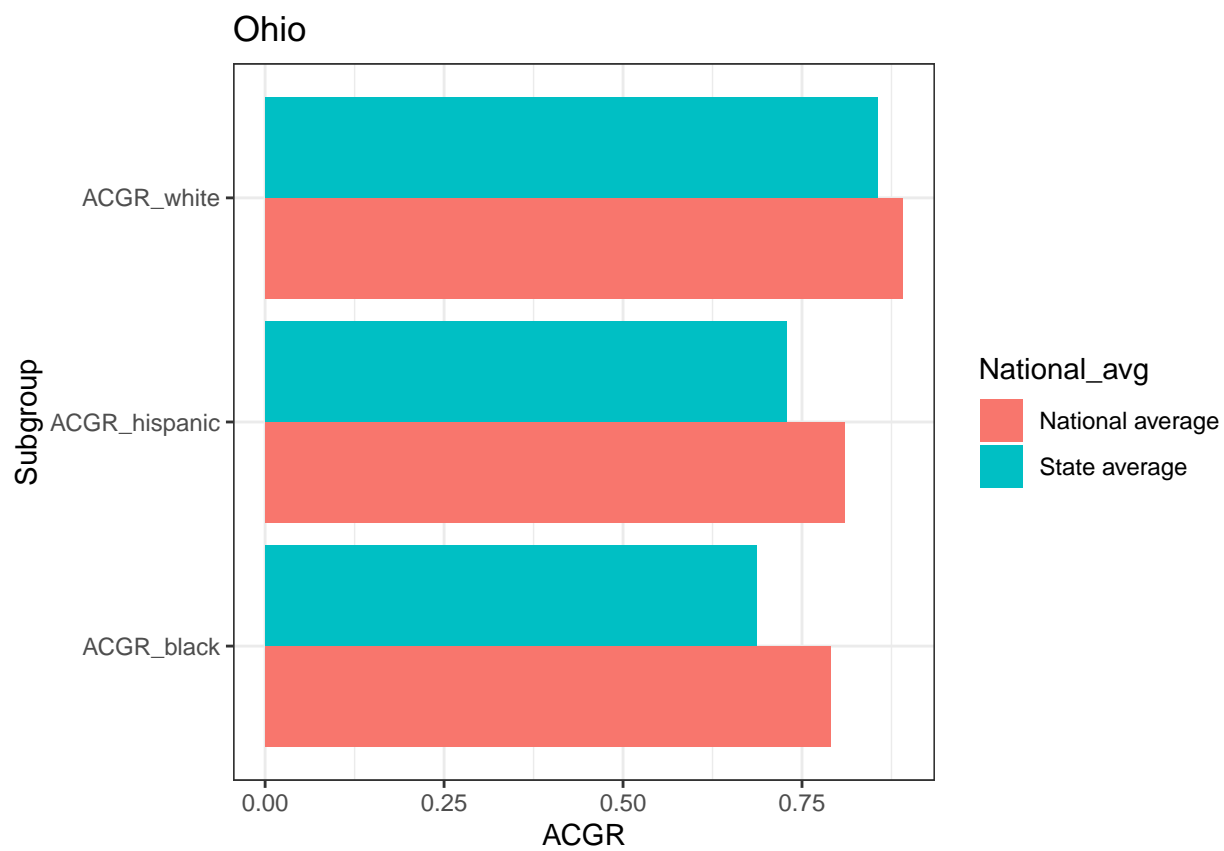
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##  
## $`North Carolina`
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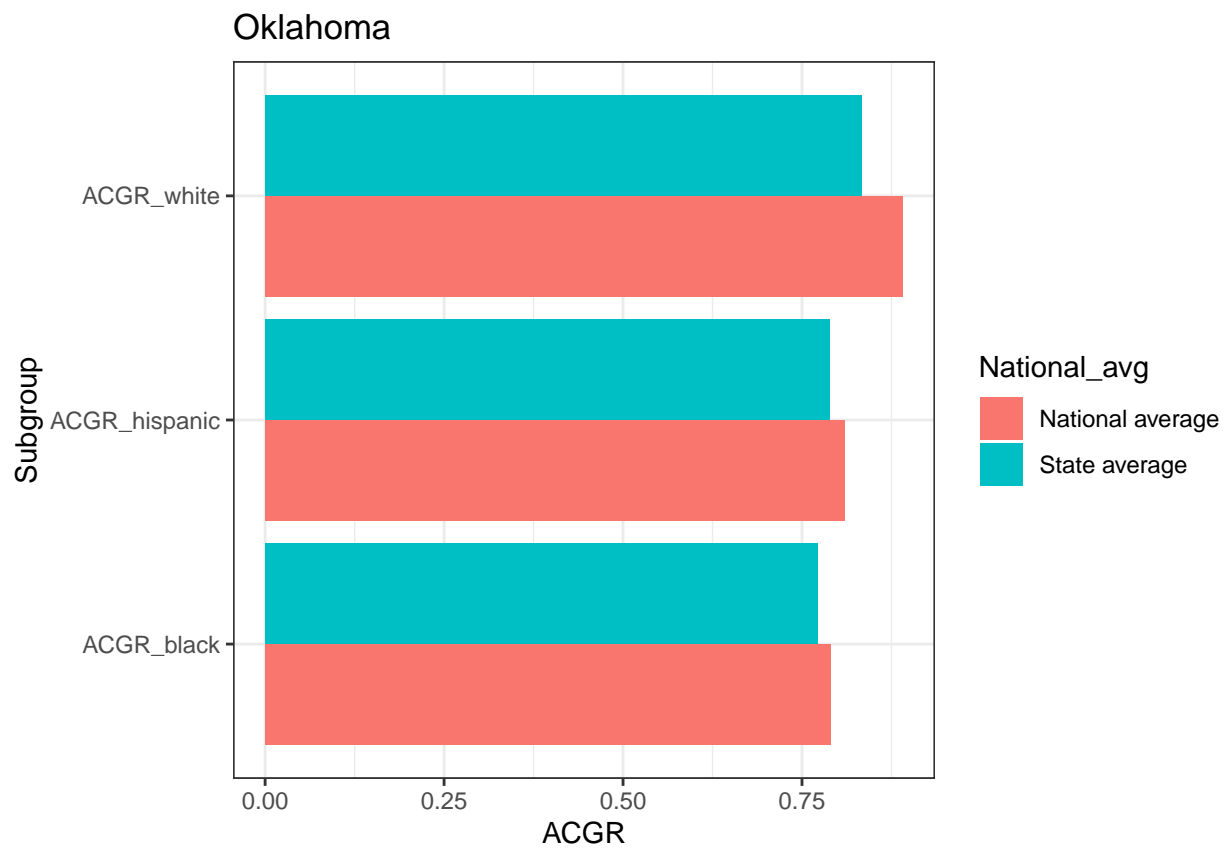
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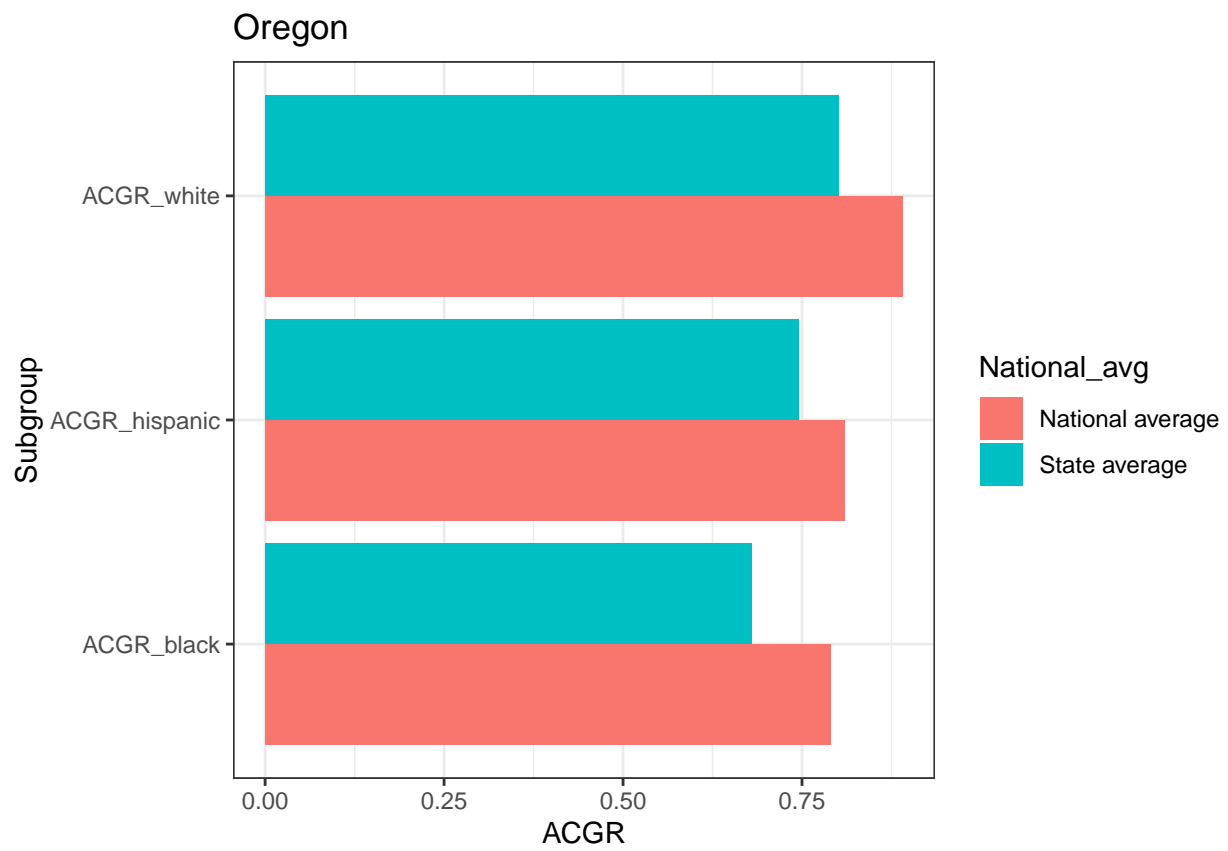
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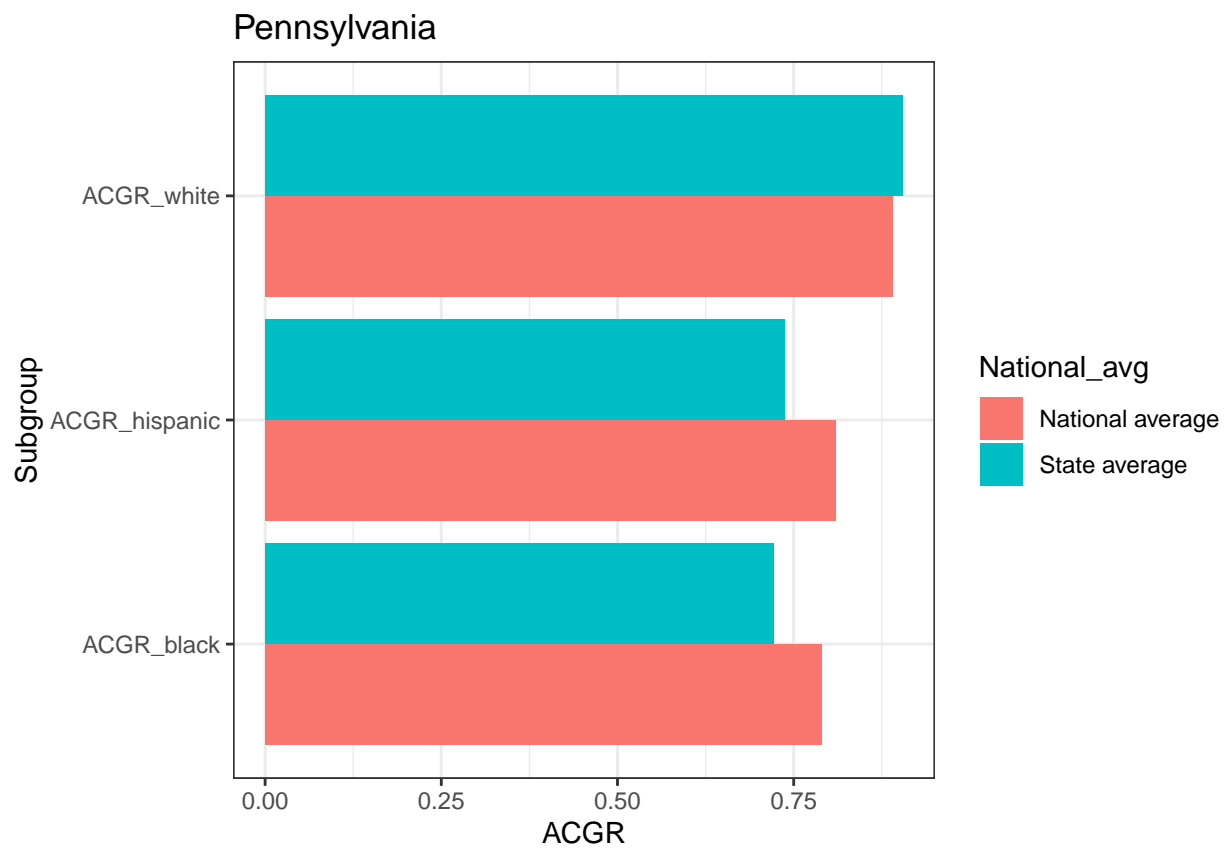
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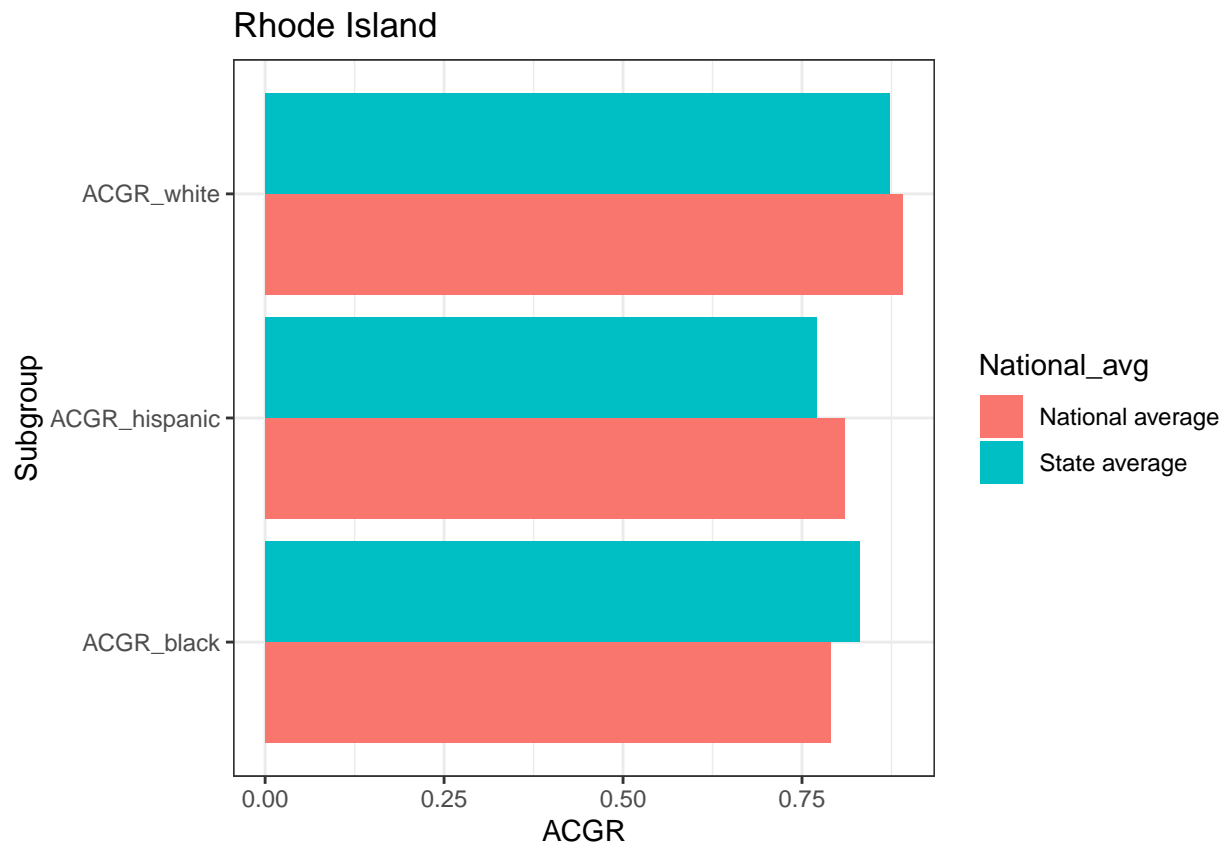
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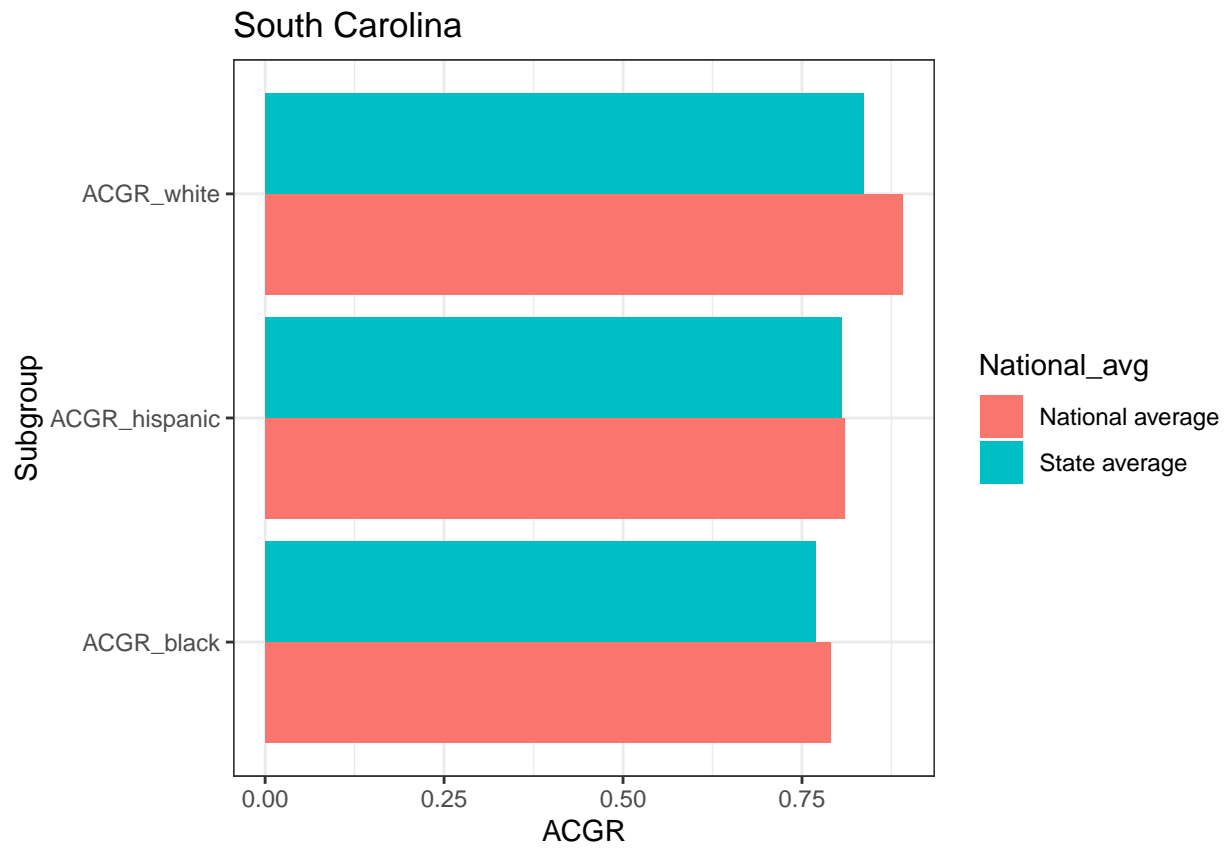
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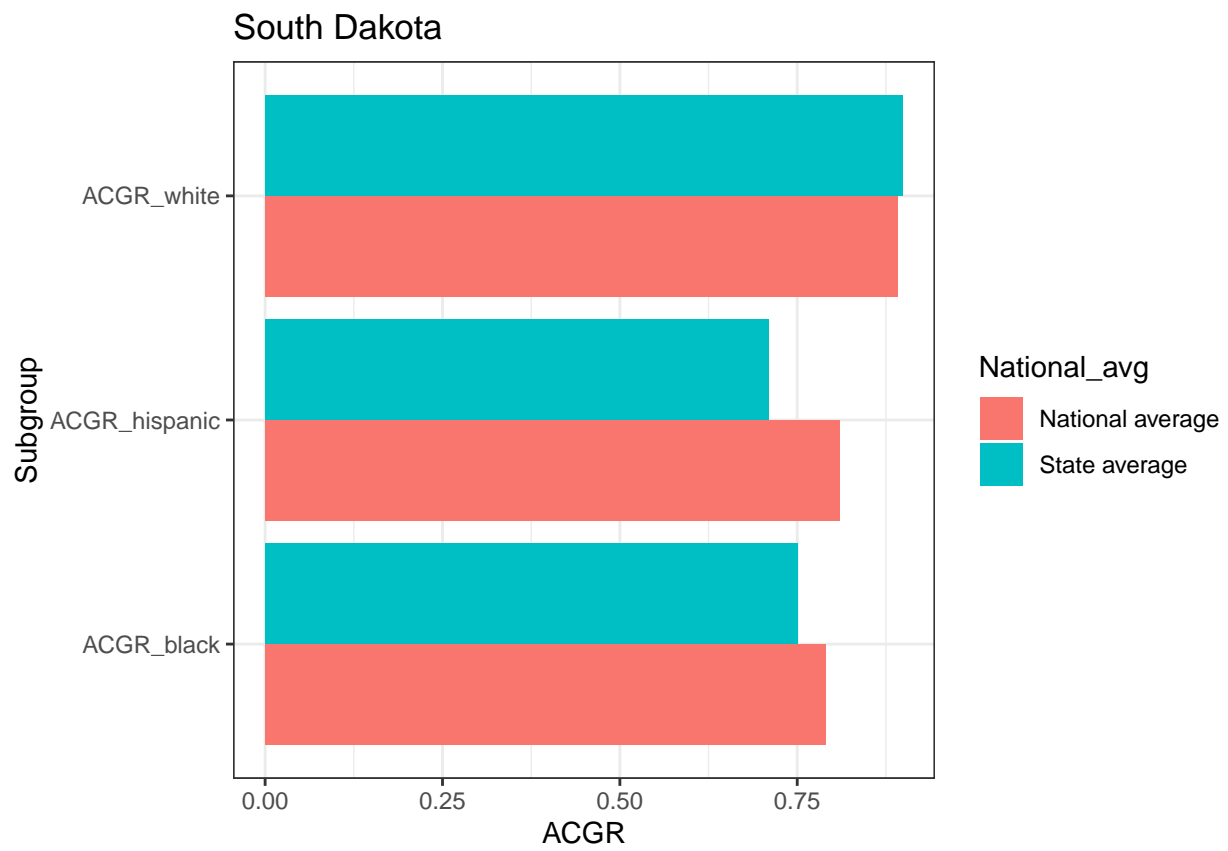
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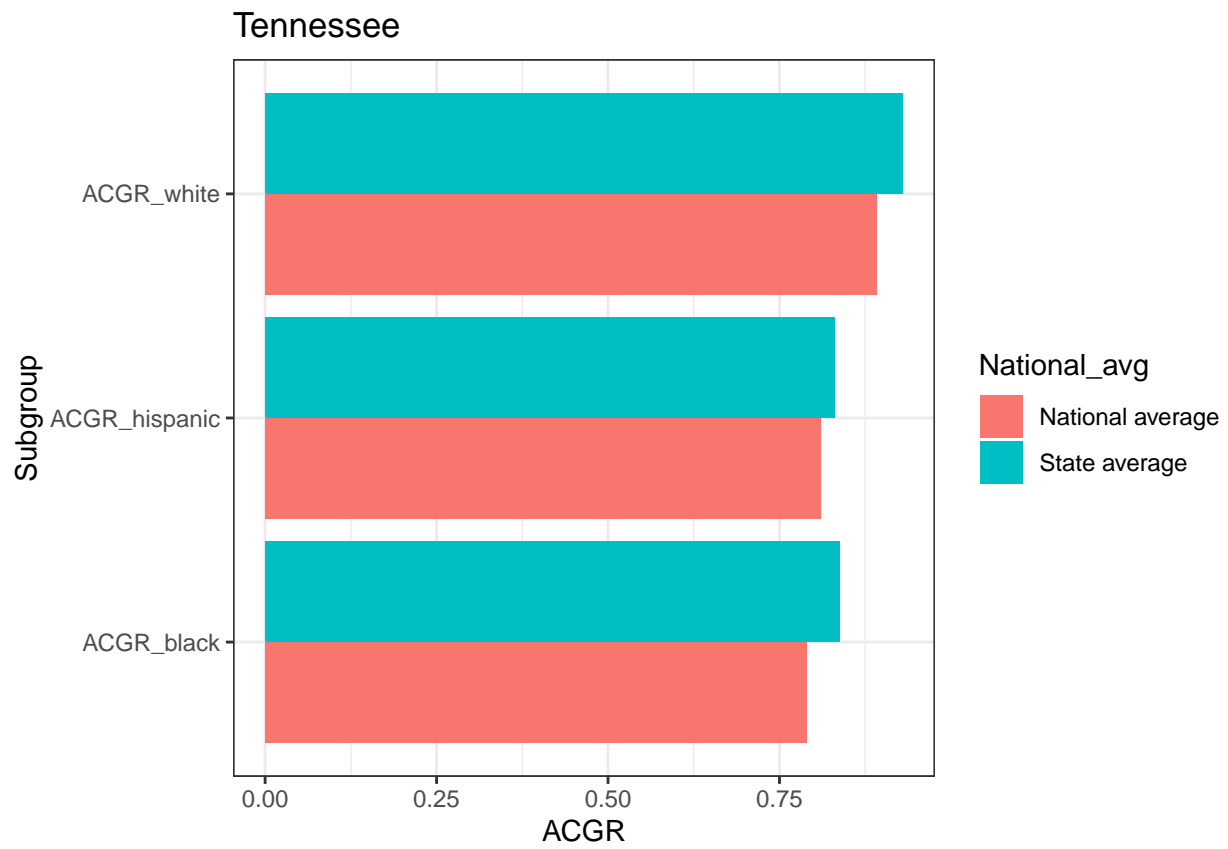
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##  
## $`South Carolina`
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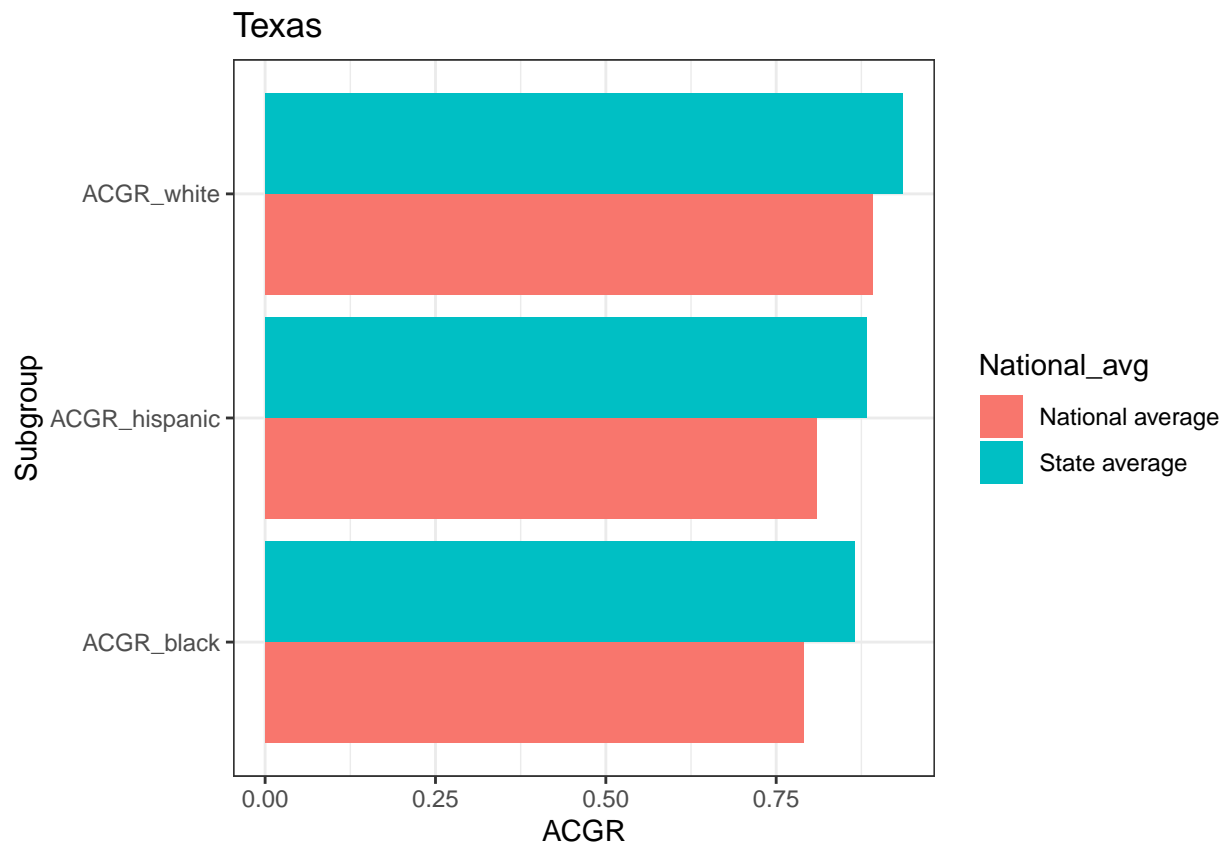
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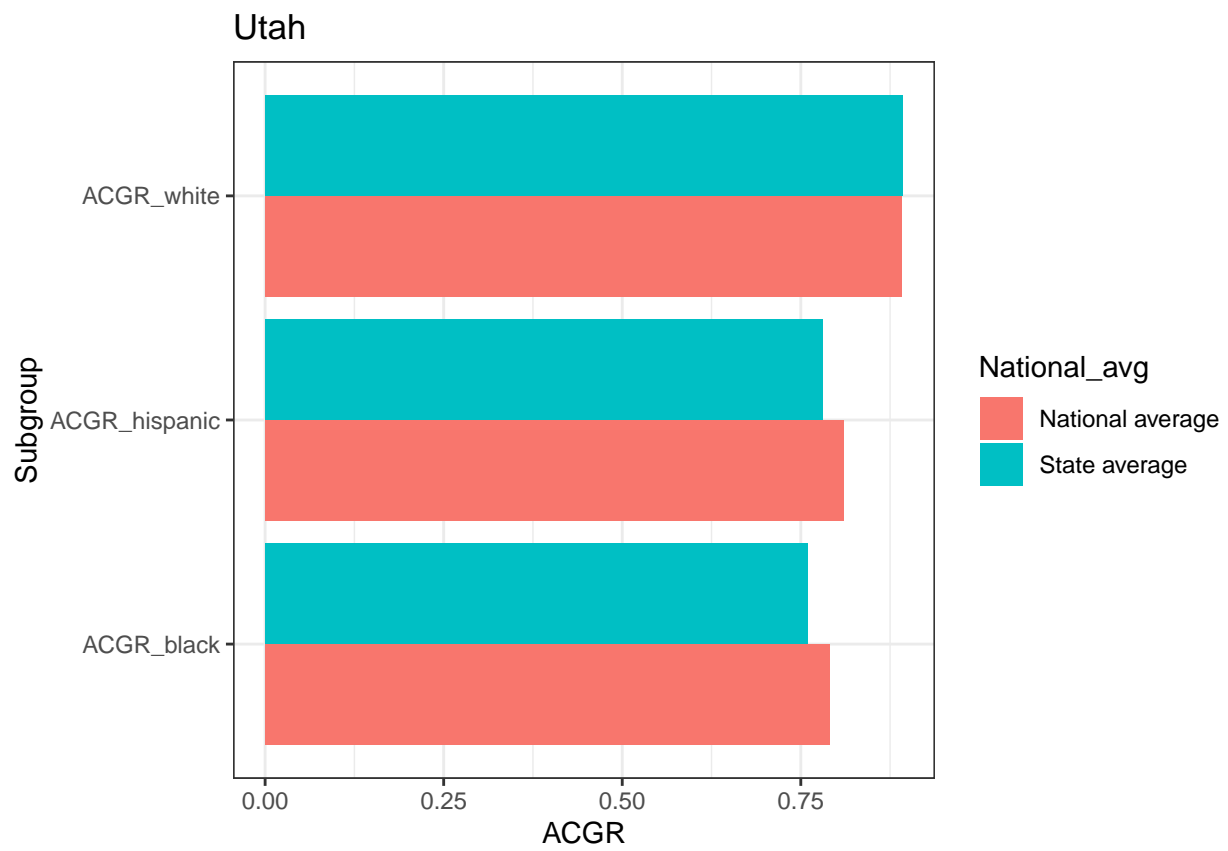
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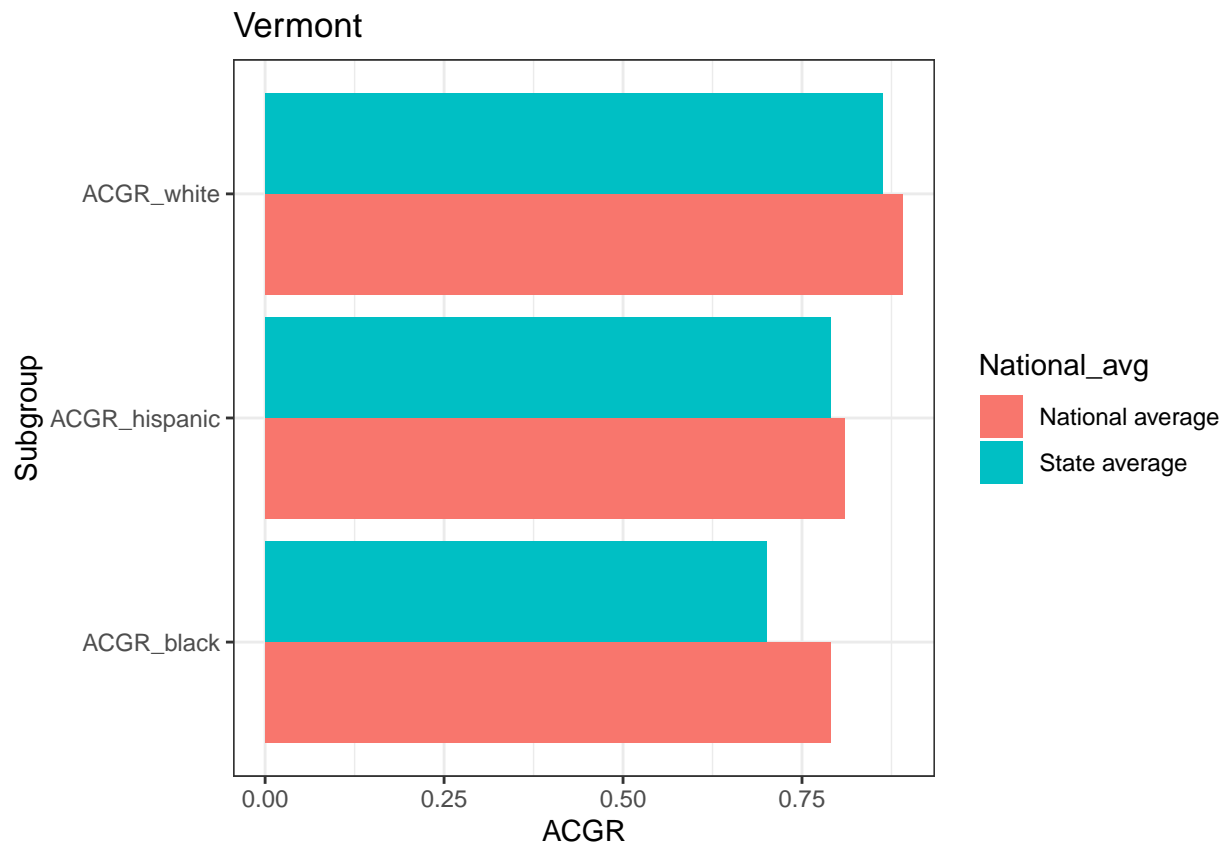
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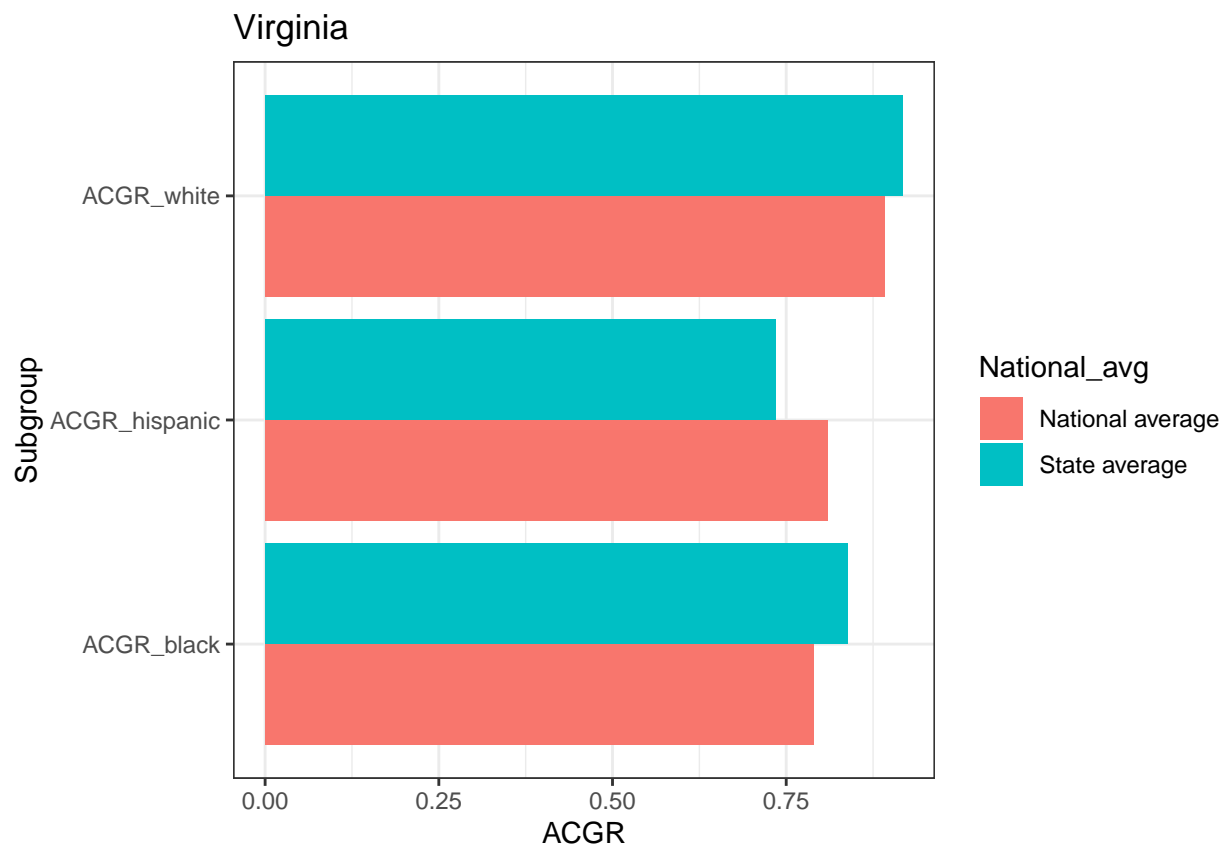
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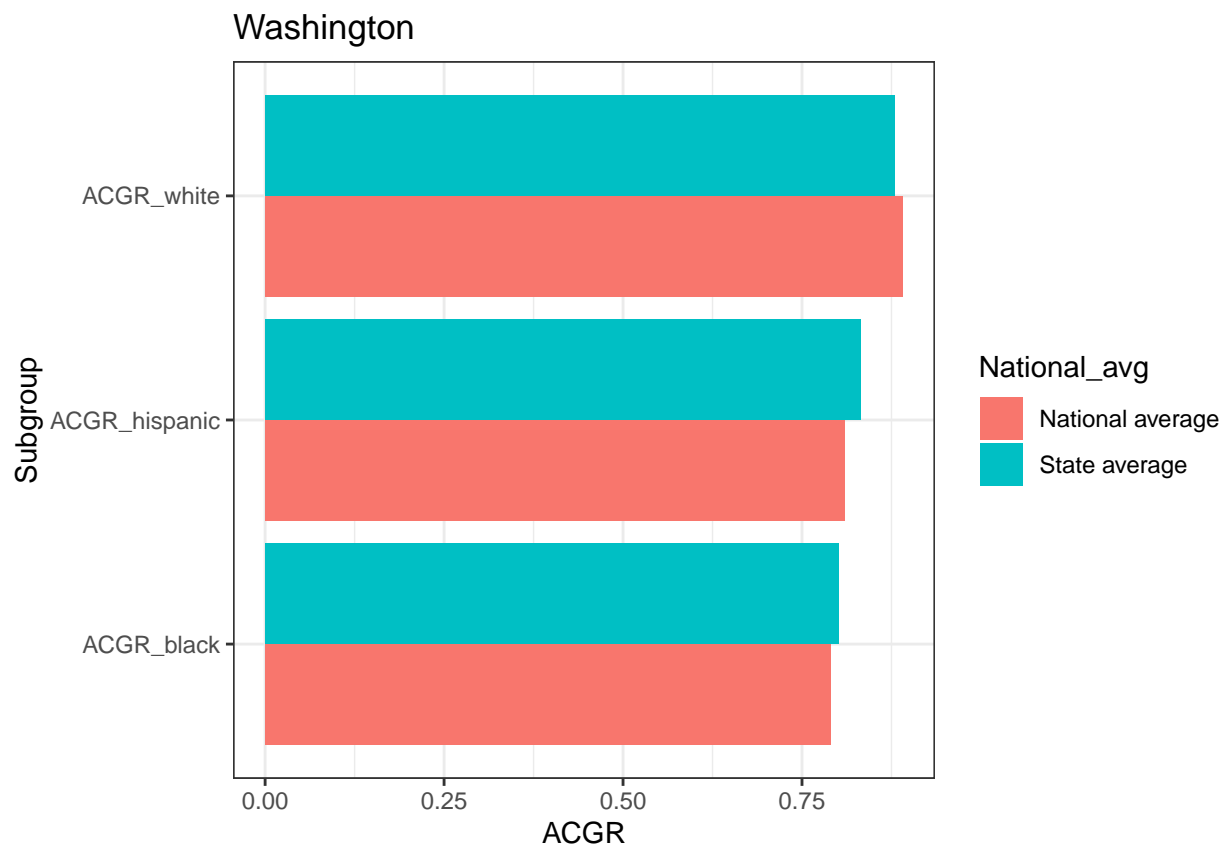
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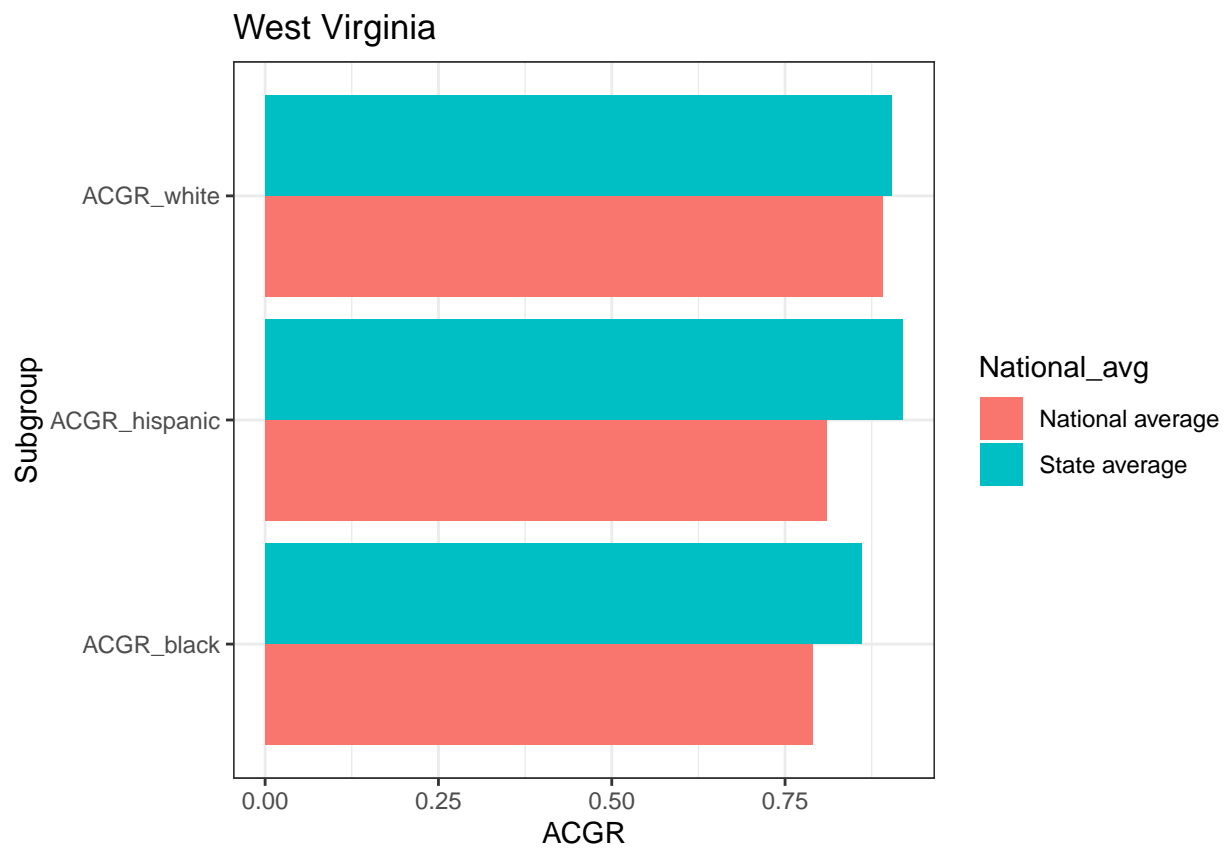
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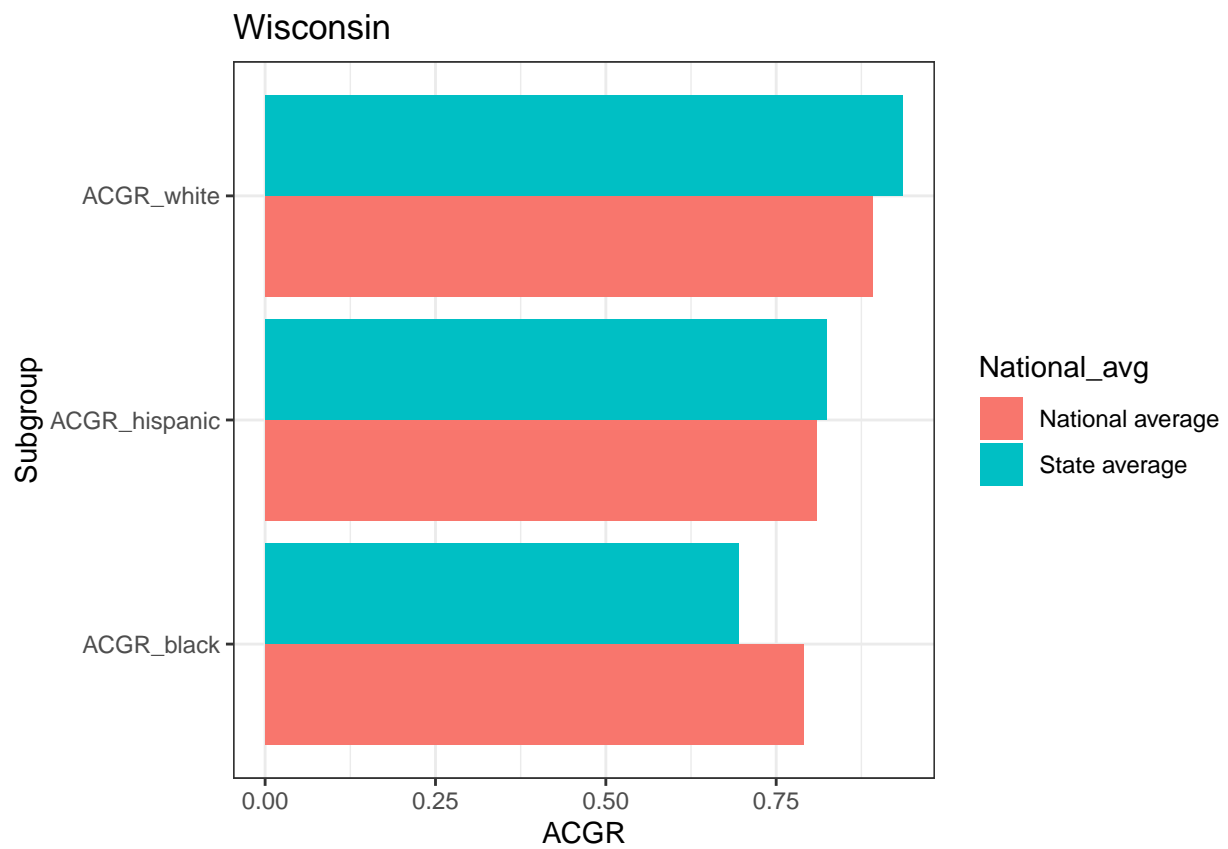
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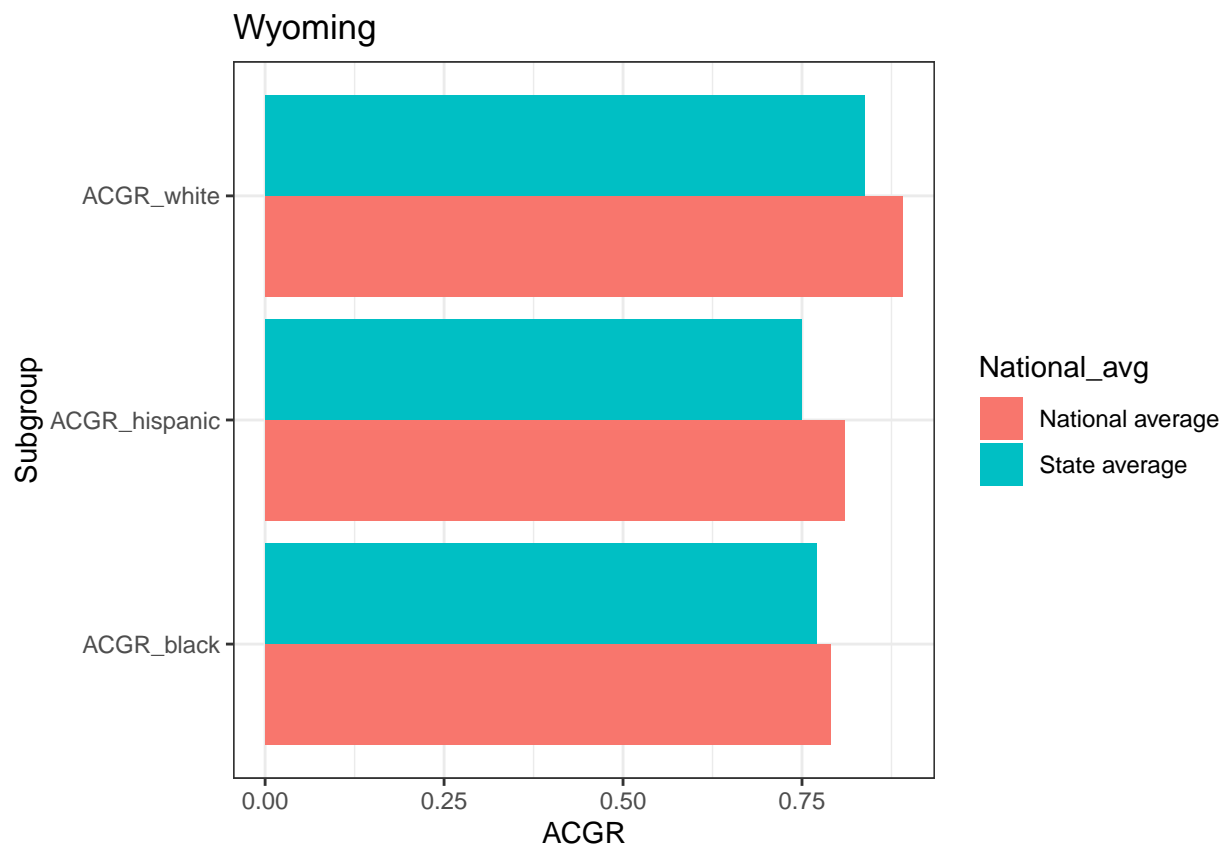
```
##  
## $`West Virginia`
```



\$Wisconsin



\$Wyoming



```
##  
## $`United States`
```

