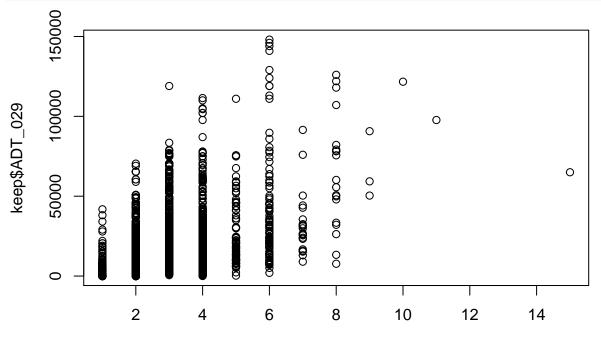
## Bridges Plots

## Rachel Kostrzewa 1/30/2017

```
library(plyr)
library(choroplethr)
## Loading required package: acs
## Loading required package: stringr
## Loading required package: XML
##
## Attaching package: 'acs'
## The following object is masked from 'package:base':
##
##
       apply
library(dplyr)
##
## Attaching package: 'dplyr'
## The following object is masked from 'package:acs':
##
##
       combine
## The following objects are masked from 'package:plyr':
##
##
       arrange, count, desc, failwith, id, mutate, rename, summarise,
##
       summarize
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library(readr)
library(data.table)
## data.table + dplyr code now lives in dtplyr.
## Please library(dtplyr)!
##
## Attaching package: 'data.table'
## The following objects are masked from 'package:dplyr':
##
##
       between, last
```

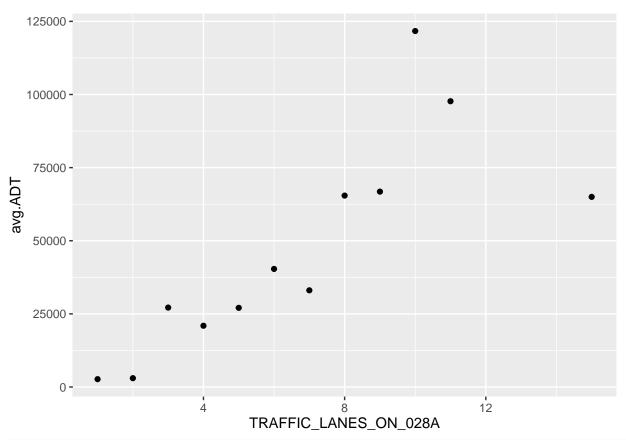
## library(ggplot2)



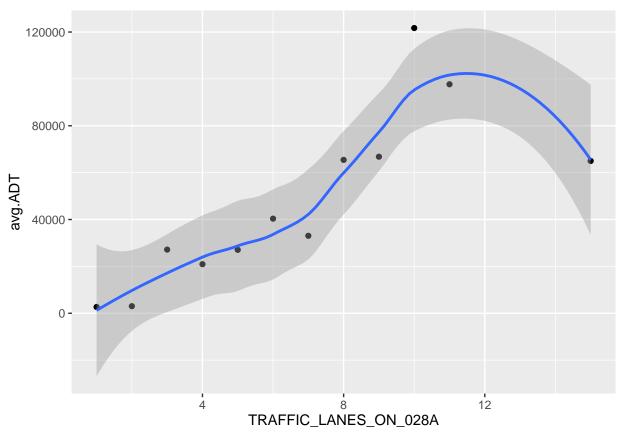
#trend with average daily traffic and traffic lanes
keep %>% group\_by(TRAFFIC\_LANES\_ON\_028A) %>%
summarize(avg.ADT = mean(ADT\_029)) %>%
ggplot(mapping = aes(x=TRAFFIC\_LANES\_ON\_028A, y = avg.ADT)) +

keep\$TRAFFIC\_LANES\_ON\_028A

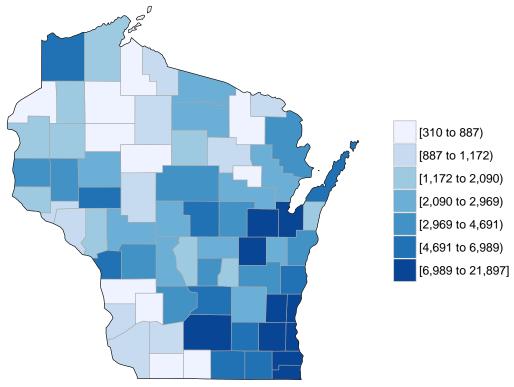
geom\_point()



```
keep %>% group_by(TRAFFIC_LANES_ON_028A) %>%
summarize(avg.ADT = mean(ADT_029)) %>%
ggplot(mapping = aes(x=TRAFFIC_LANES_ON_028A, y = avg.ADT)) +
geom_point() + geom_smooth()
```



```
#looking at average daily traffic by county
dat2 = keep %>% group_by(FIPS) %>% summarize(avg.ADT = mean(ADT_029))
dat2 %>% transmute(region = FIPS, value = avg.ADT) %>% county_choropleth(state_zoom = "wisconsin")
```



#looking at average lanes on bridges by county, looks very similar to previous map
dat3 = keep %>% group\_by(FIPS) %>% summarize(avg.lanes = mean(TRAFFIC\_LANES\_ON\_028A))

dat3 %>% transmute(region = FIPS, value = avg.lanes) %>% county\_choropleth(state\_zoom = "wisconsin")

