Data Visualizations and Analysis

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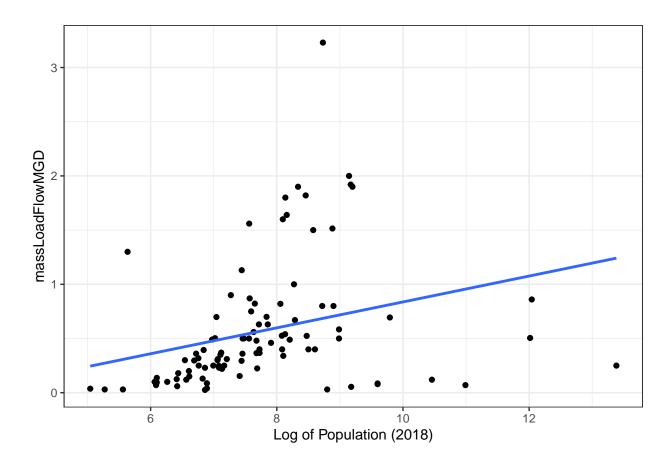
7/13/2020

```
ggplot(working_df, aes(x = log(pop_2018), y = massLoadFlowMGD)) +
geom_point() +
geom_smooth(method = "lm", se = FALSE) +
theme_bw() +
labs(x = "Log of Population (2018)")
```

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

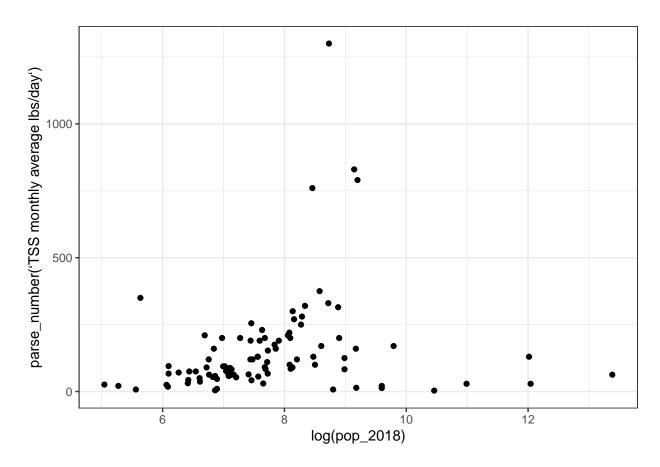
Warning: Removed 17 rows containing non-finite values (stat_smooth).

Warning: Removed 17 rows containing missing values (geom_point).



```
## Warning: 2 parsing failures.
## row col expected actual
## 13 -- a number na
## 45 -- a number na
## warning: 2 parsing failures.
## row col expected actual
## 13 -- a number na
## 45 -- a number na
```

Warning: Removed 19 rows containing missing values (geom_point).



```
working_df %>%
  filter(type1 %in% c("lagoons", "activated sludge")) %>%
  group_by(type1) %>%
  summarize(median = median(pop_2018, na.rm = TRUE))
```

'summarise()' ungrouping output (override with '.groups' argument)

```
## # A tibble: 2 x 2
```