

# Capstone Charts

*Ryan Fortney*

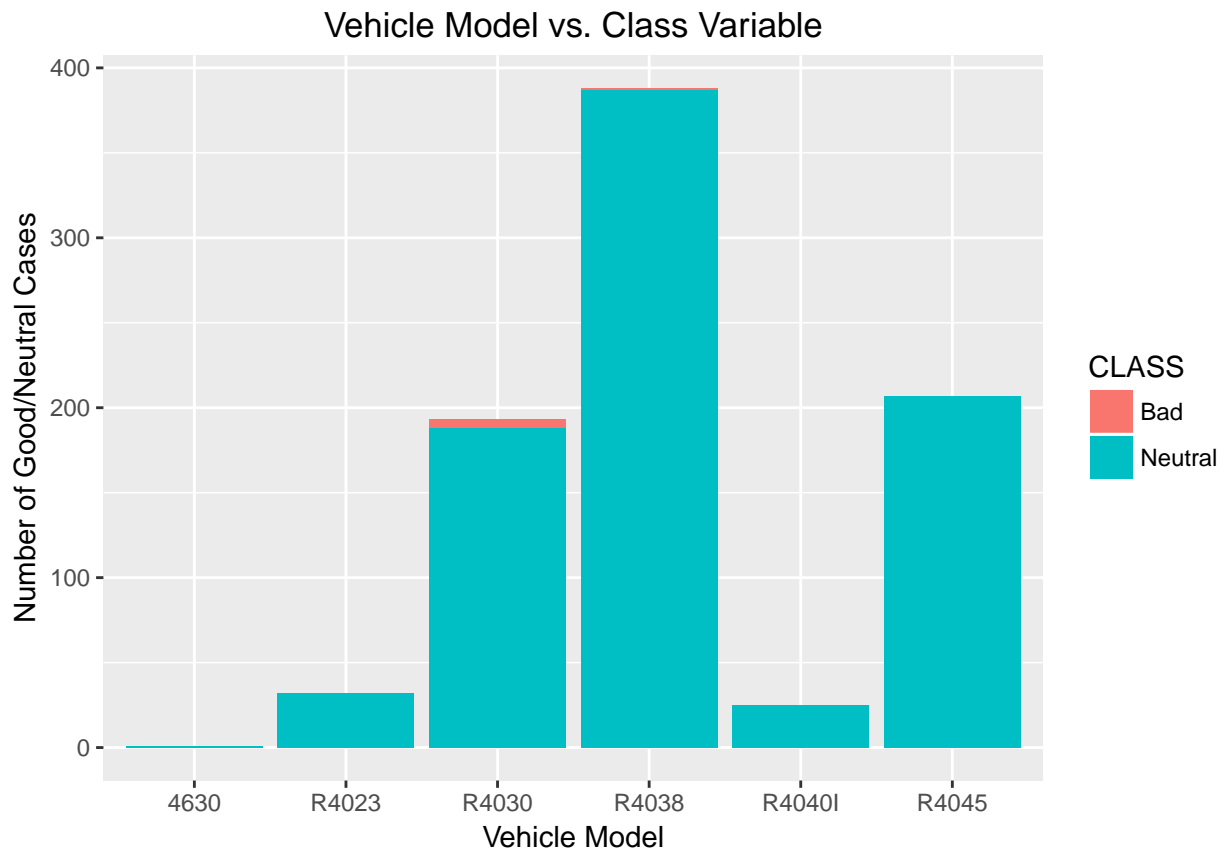
*April 27, 2017*

```
library(readxl)
Sprayer_Data_Master_test <- read_excel("~/Box Sync/Sprayer Data Master_test.xlsx")

Sprayer_Data_Master_test$ENGINE_SIZE <- as.character(Sprayer_Data_Master_test$ENGINE_SIZE)
```

## Vehicle Model

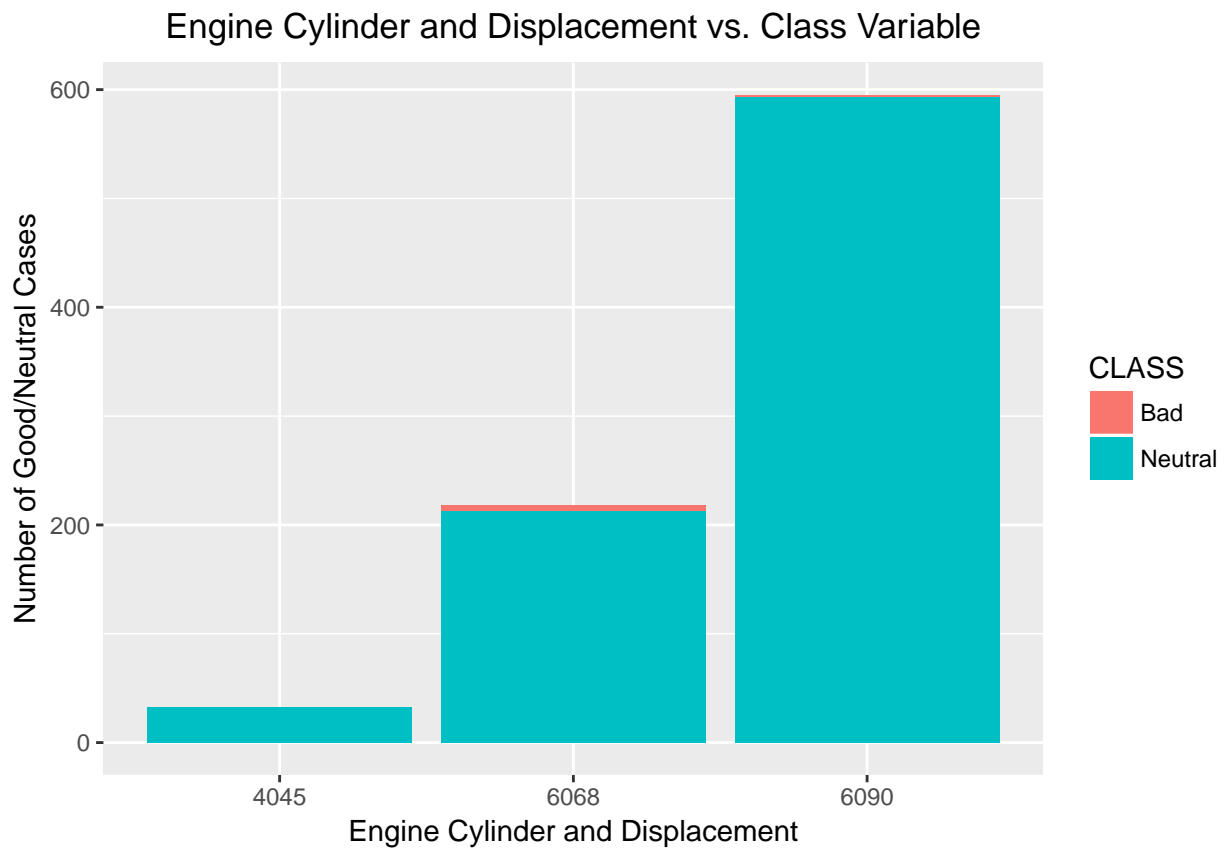
### Including Plots



MODEL	Bad	Neutral
4630	NA	1
R4023	NA	32
R4030	5	188
R4038	1	387
R4040I	NA	25
R4045	NA	207

## ENGINE SIZE

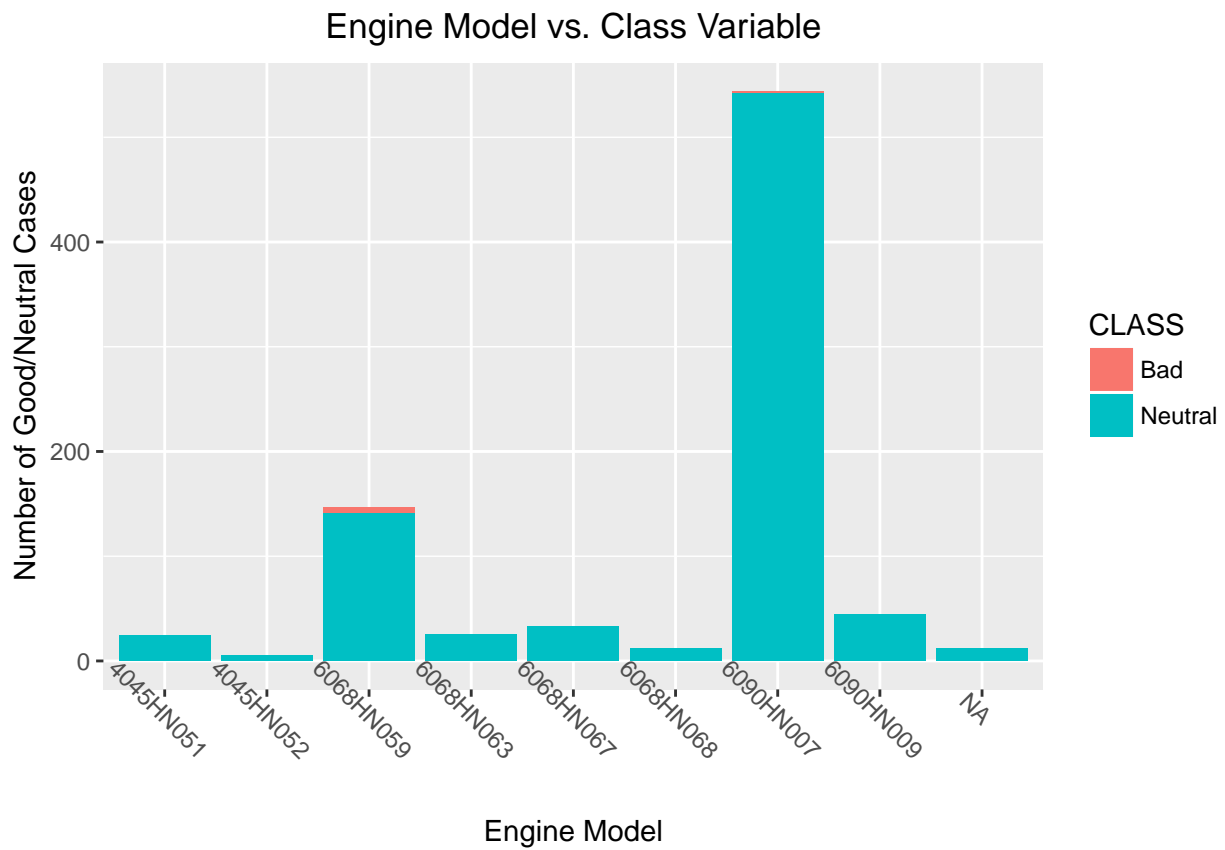
Including Plots



ENGINE_SIZE	Bad	Neutral
4045	NA	33
6068	5	213
6090	1	594

# ENGINE MODEL

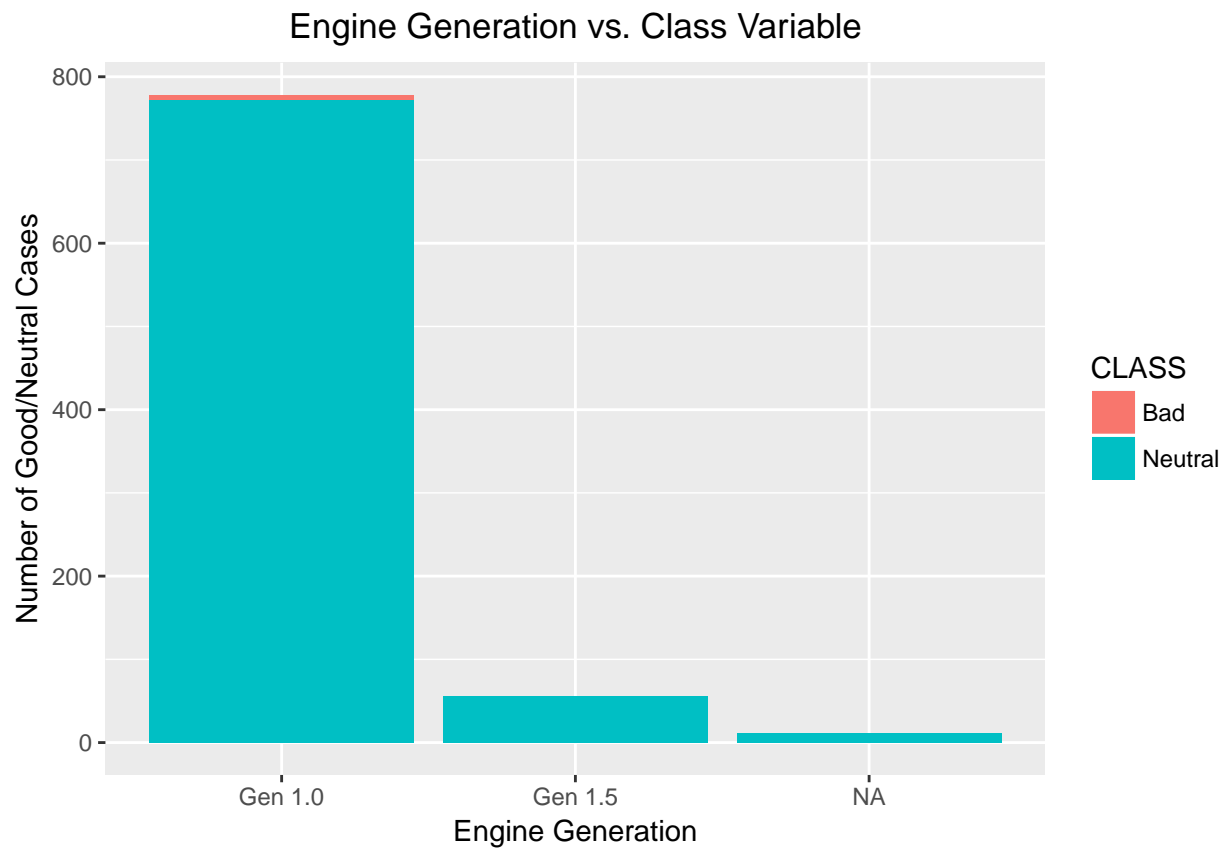
Including Plots



ENGINE_MODEL	Bad	Neutral
4045HN051	NA	24
4045HN052	NA	5
6068HN059	5	142
6068HN063	NA	25
6068HN067	NA	33
6068HN068	NA	12
6090HN007	1	543
6090HN009	NA	44
NA	NA	12

# ENGINE GENERATION MODEL

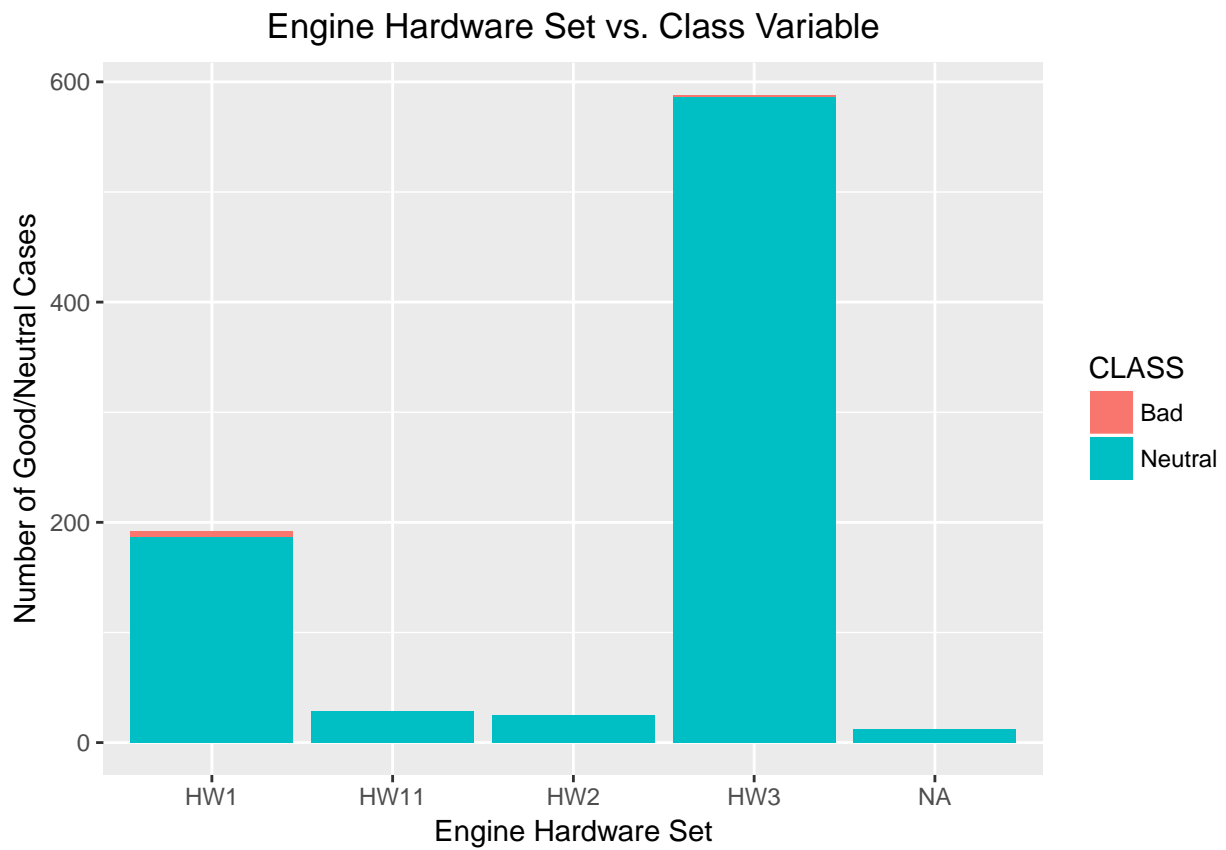
Including Plots



GEN	Bad	Neutral
Gen 1.0	6	772
Gen 1.5	NA	56
NA	NA	12

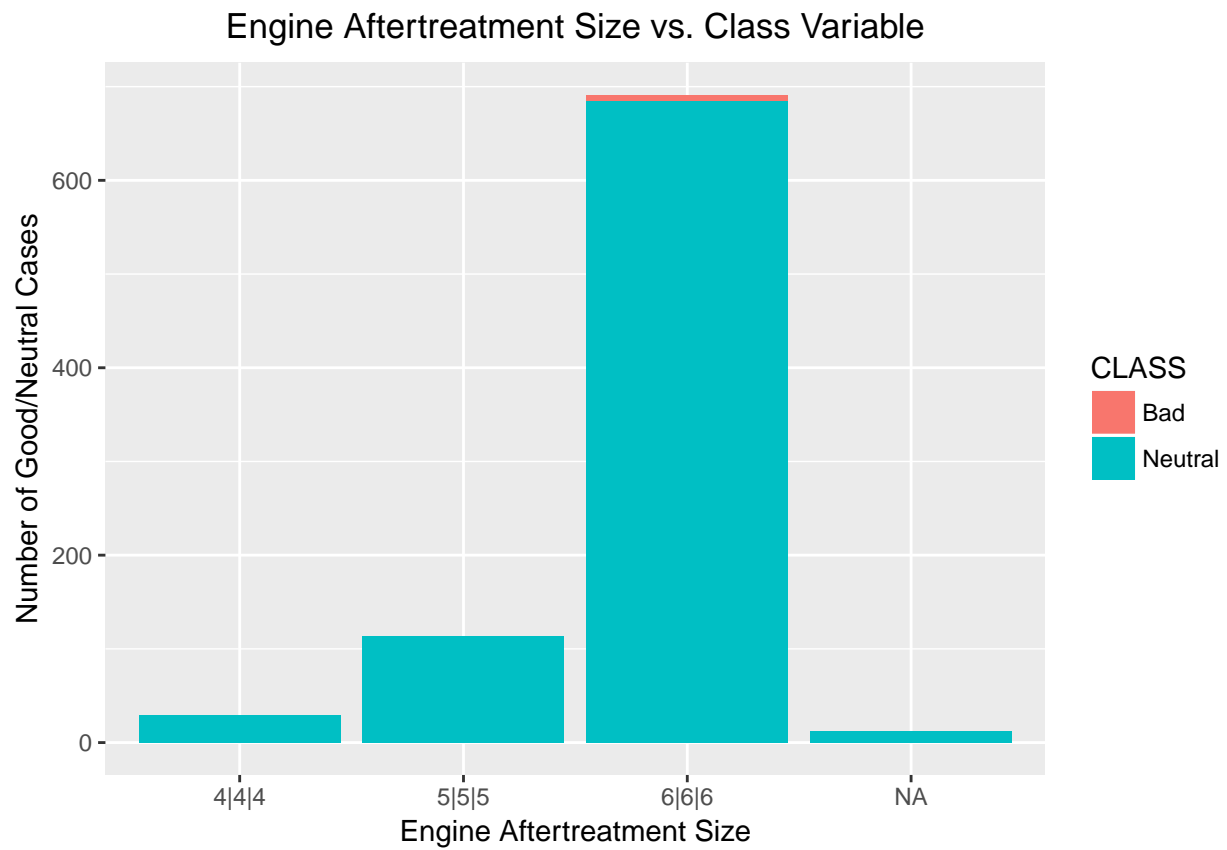
# ENGINE HARDWARE SET

Including Plots



# ENGINE AFTERTREATMENT

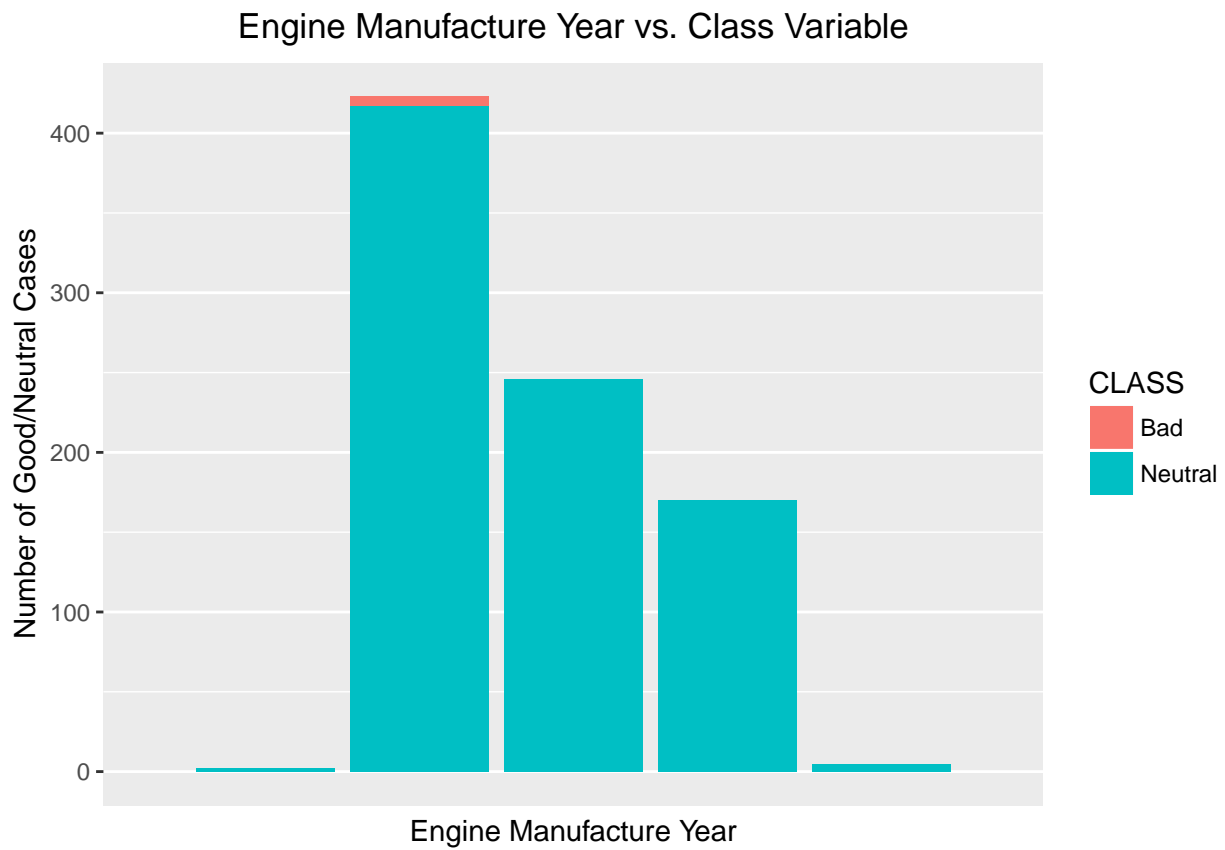
Including Plots



AT_SIZE	Bad	Neutral
4 4 4	NA	29
5 5 5	NA	114
6 6 6	6	685
NA	NA	12

## ENGINE MFG YR

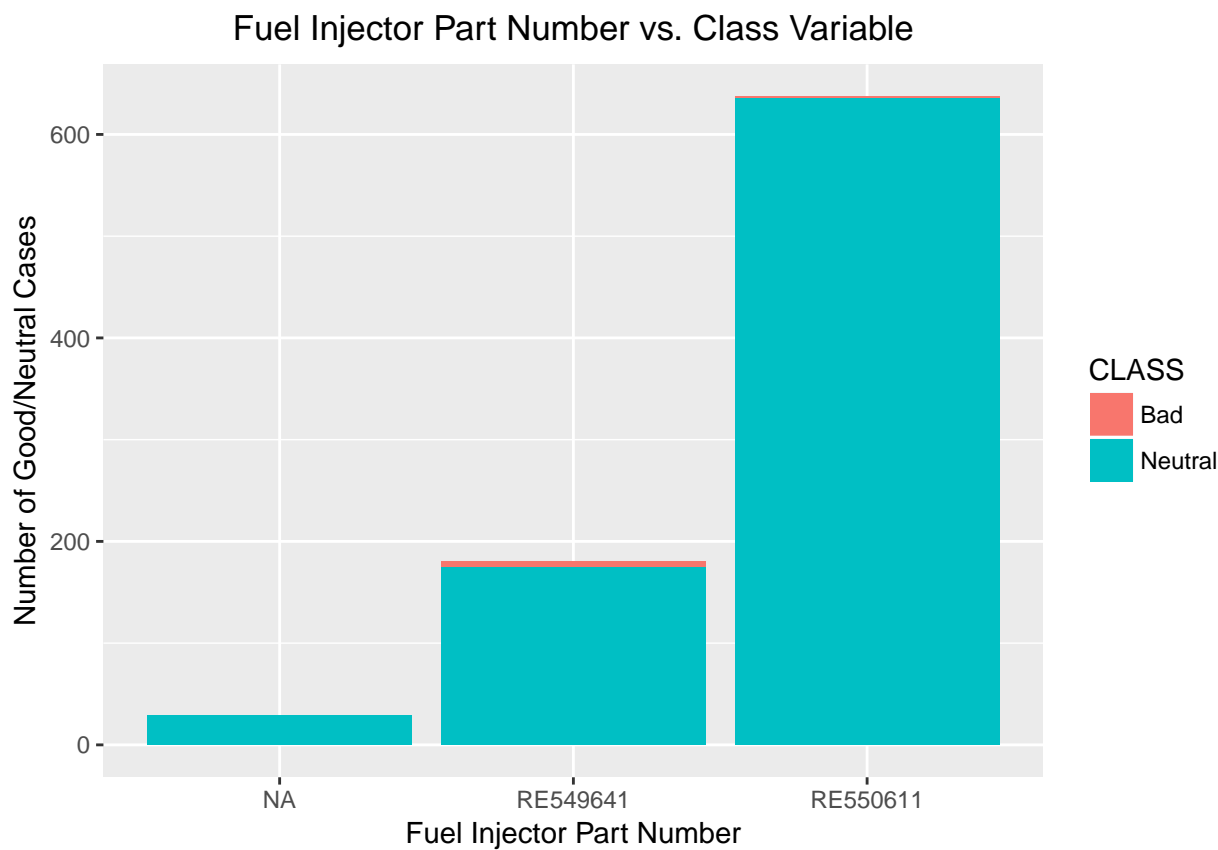
Including Plots



MFG_YR	Bad	Neutral
2013	NA	2
2014	6	417
2015	NA	246
2016	NA	170
2017	NA	5

# ENGINE INJECTOR PART NUMBER

Including Plots



INJ_1_PN	Bad	Neutral
NA	NA	29
RE549641	5	175
RE550611	1	636