Module 3 Assignment 1

Ellen Bledsoe

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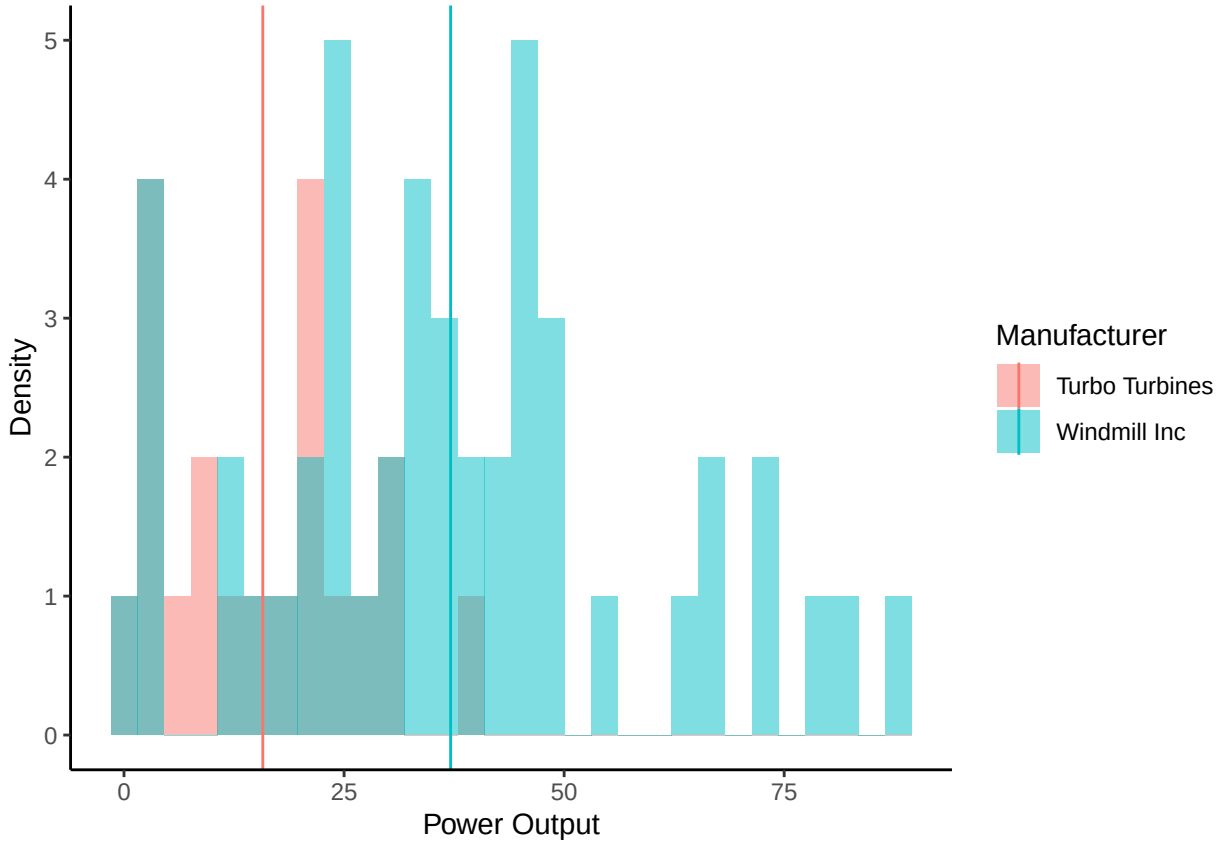
2.

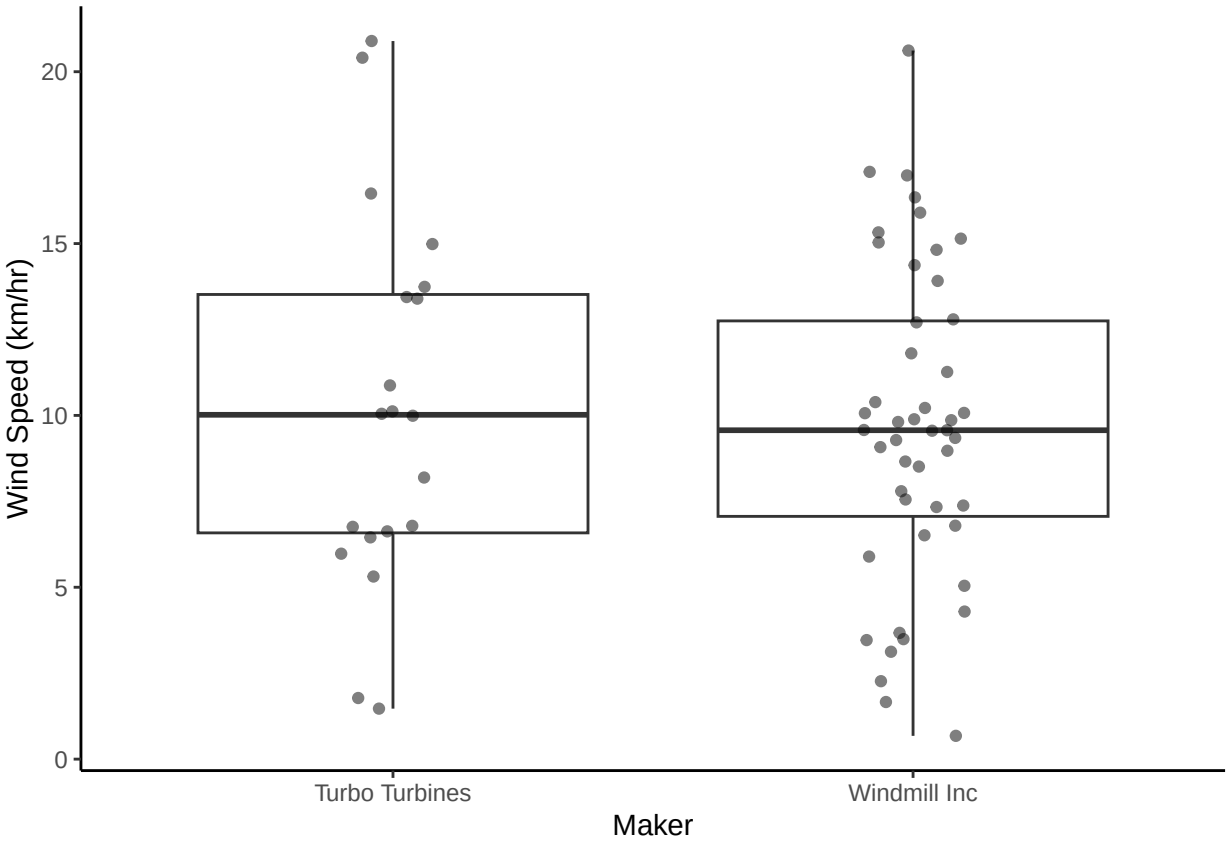
```
## # A tibble: 2 x 3
##   manufacturer   mean_wind_speed mean_power
##   <chr>                    <dbl>      <dbl>
## 1 Turbo Turbines           10.2        15.8
## 2 Windmill Inc              9.66       37.1
```

3.

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



4.



7.

```
##
##  Welch Two Sample t-test
##
## data:  power_output by manufacturer
## t = -5.2832, df = 62.905, p-value = 1.686e-06
## alternative hypothesis: true difference in means between group Turbo Turbines and group Windmill Inc
## 95 percent confidence interval:
##  -29.40840 -13.26639
## sample estimates:
## mean in group Turbo Turbines   mean in group Windmill Inc
##                     15.76615                     37.10355
```

9.

```
##
##  Welch Two Sample t-test
##
## data:  wind_speed by manufacturer
## t = 0.38194, df = 31.02, p-value = 0.7051
## alternative hypothesis: true difference in means between group Turbo Turbines and group Windmill Inc
## 95 percent confidence interval:
##  -2.290743  3.346450
## sample estimates:
## mean in group Turbo Turbines   mean in group Windmill Inc
##                    10.185139                     9.657286
```