



MOTOR TREND DATA

Today we will be looking at the travel time vs two factors

**Horsepower
&
Vehicle Weight**

Does Horsepower affect the travel time of one-quarter mile more than vehicle weight does?

Let's look at the data.

HORSE

HORSEPOWER



AVERAGE HORSEPOWER

146.7

HORSEPOWER

SMALLEST

52

LARGEST

335



Vehicle Weight



Average Weight

3.21 Tons

Lightest

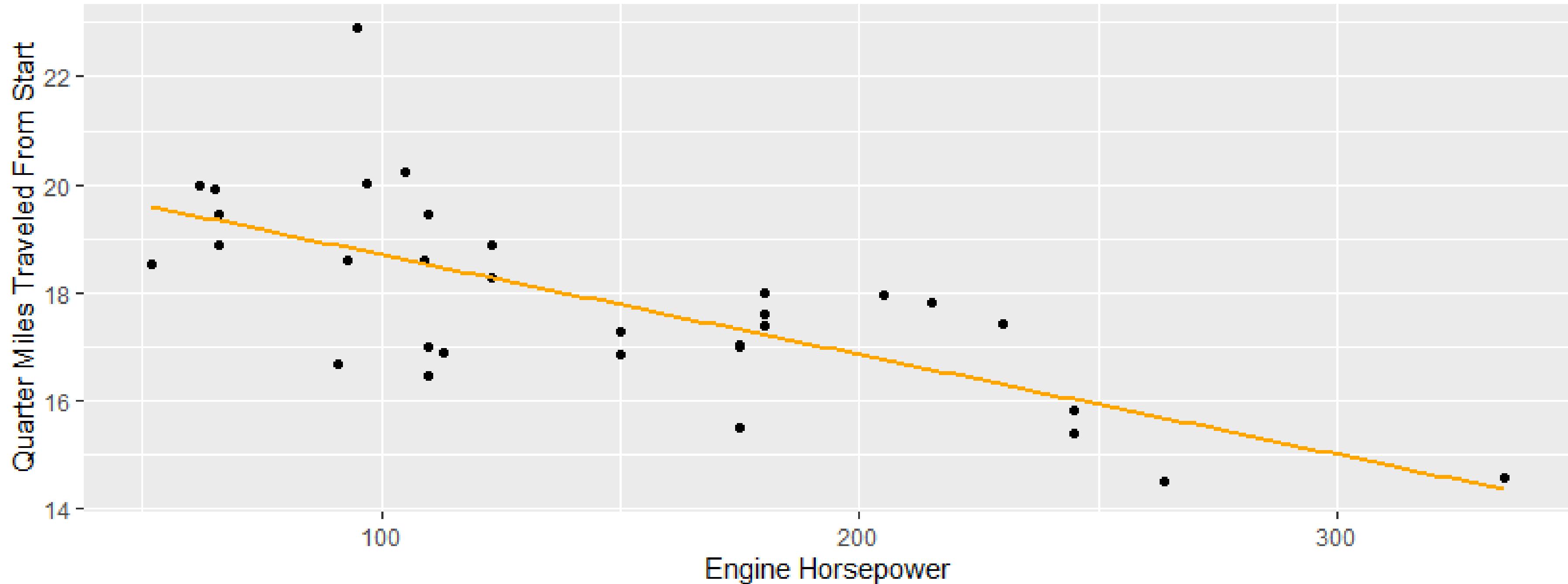
1.51 Tons

Heaviest

5.42 Tons



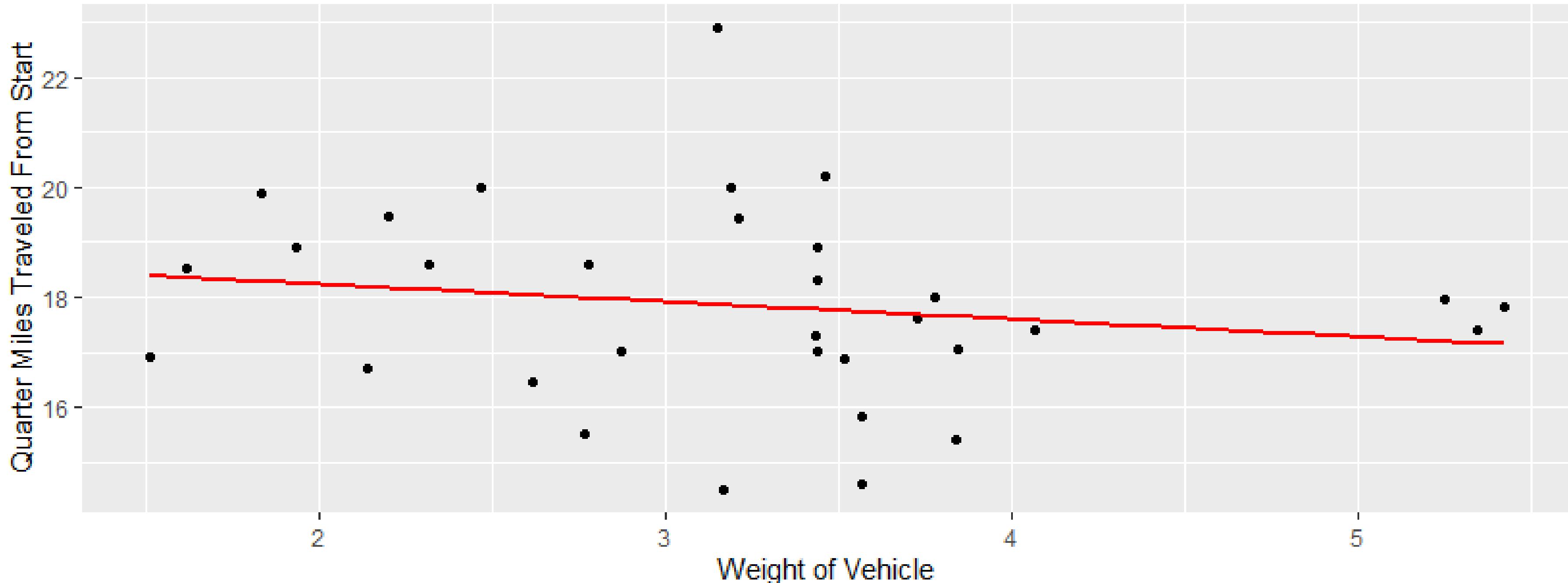
Horsepower vs Travel Times



The trend looks rather negatively correlated at a glance as the linear regression goes from top to bottom.

The more horsepower the shorter the time it takes to travel. This is what we want to see!

Vehicle Weight vs Travel Times



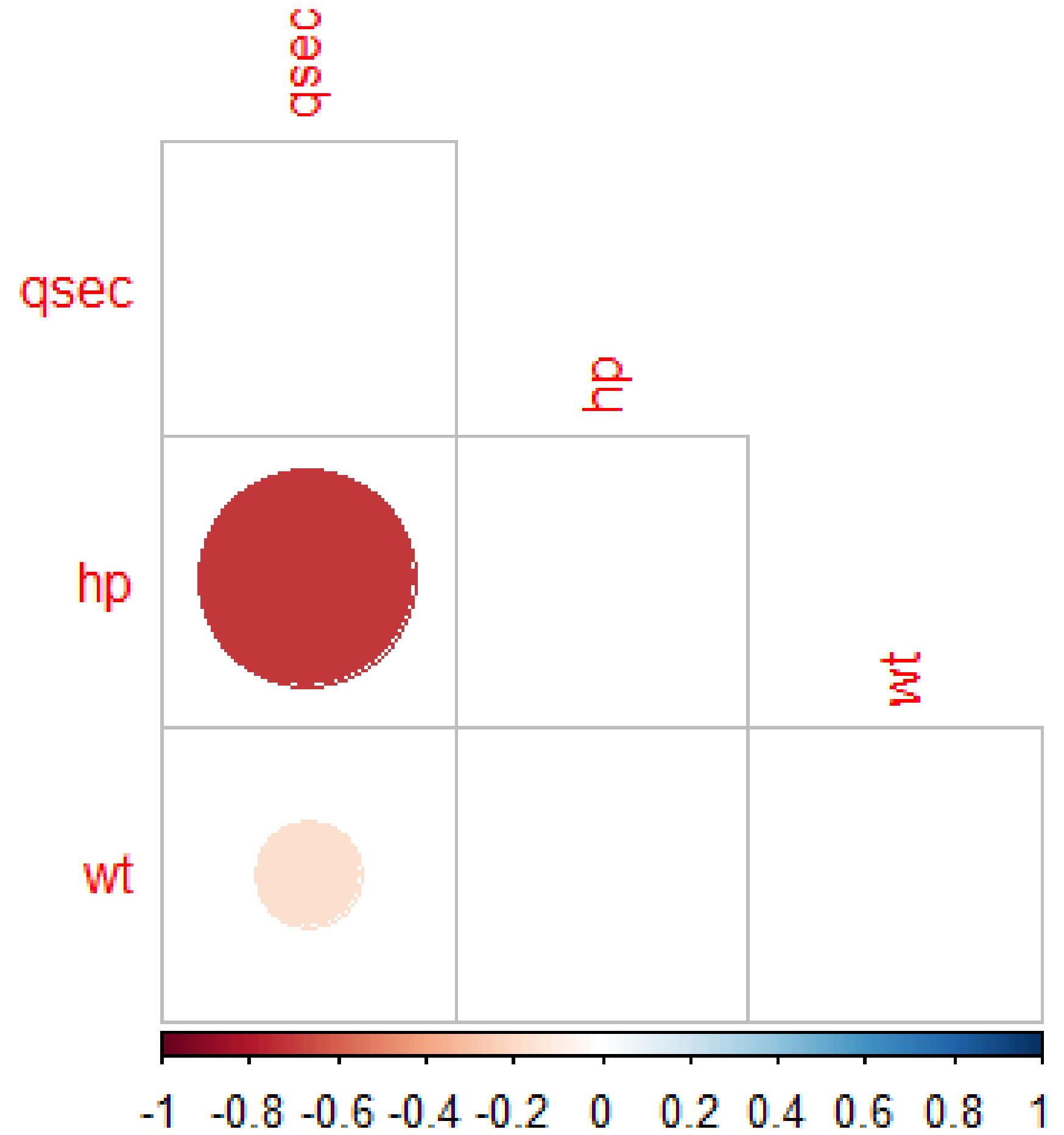
Though the trend looks rather non-correlated at glance as it goes from the linear regression has a slight tip downward, so more negative than positive.

It's hard to tell really if the vehicle weight has impacted the travel time.



Battle Royale

We can see from this chart the horsepower (hp), has much more influence, and the weight (wt) of the car has a very low influence on travel distance (qsec)



CONCLUSION

It appears that while horsepower does have a rather strong effect on the travel time, vehicle weight does not significantly have an impact on travel time.

Check your horsepower and *Laissez le bon temps rouler*