

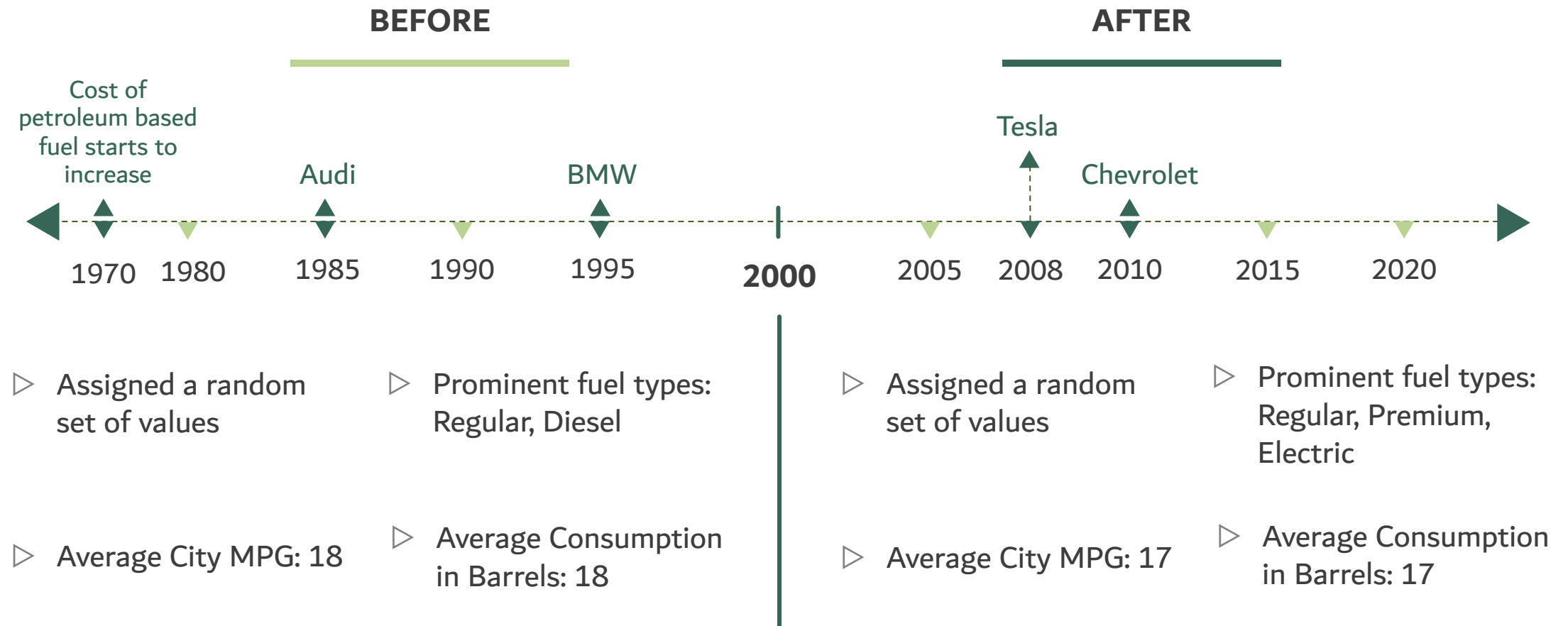


THE STATISTICS OF AUTO EFFICIENCY

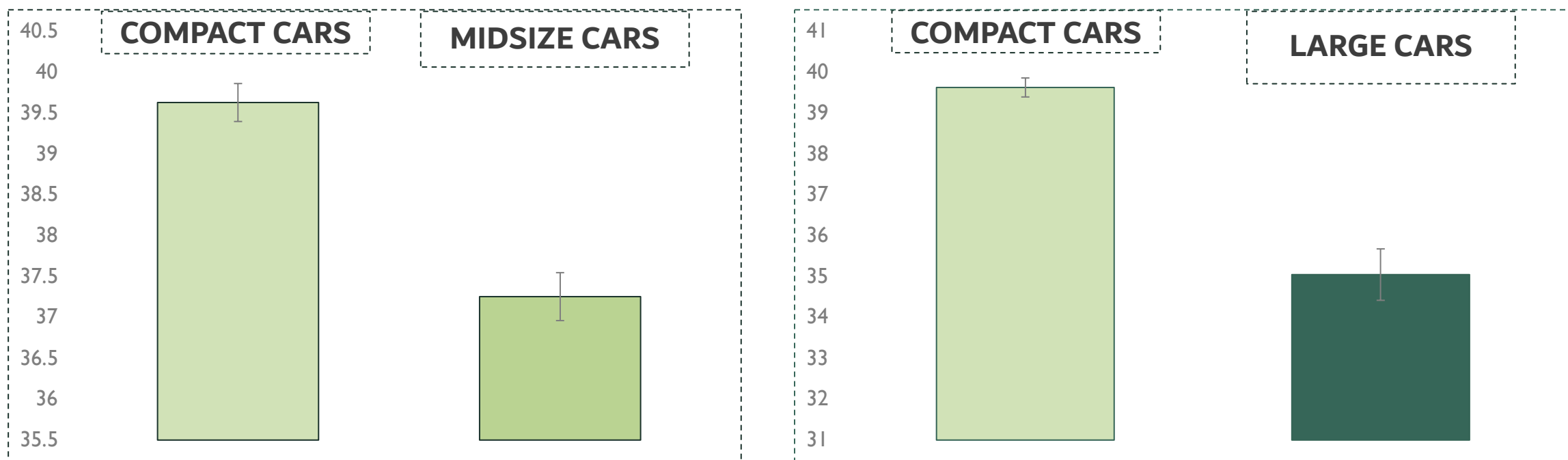
VEHICLES AND FUEL COSTS



HYPOTHESIS ONE: OLDER VS NEWER VEHICLES



HYPOTHESIS TWO: UNADJUSTED HIGHWAY MPG



▷ Highway MPG
ideal for tests

▷ Compact Cars
MPG significant

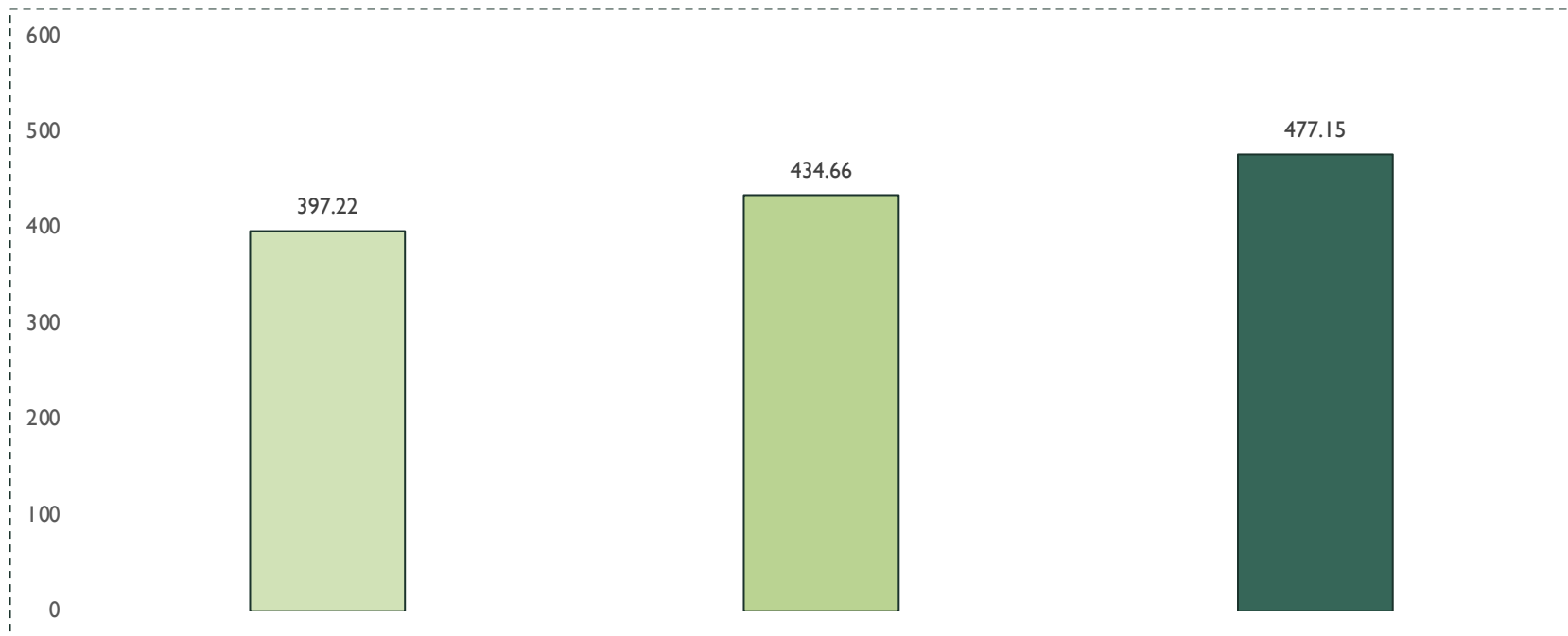
▷ Similarities
in averages

HYPOTHESIS THREE: CO2 EMISSION FROM TAILPIPE

COMPACT CARS

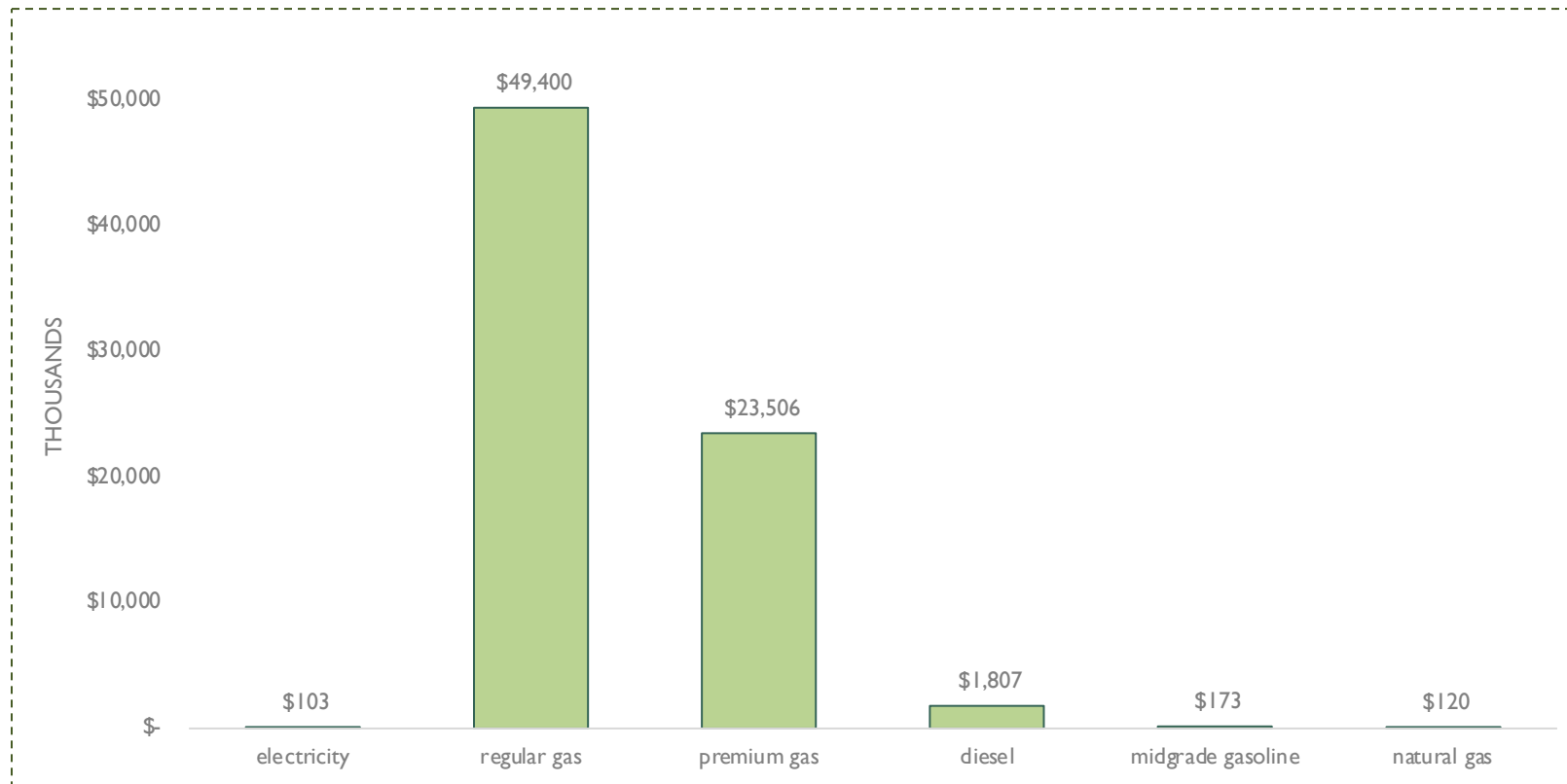
MIDSIZE CARS

LARGE CARS



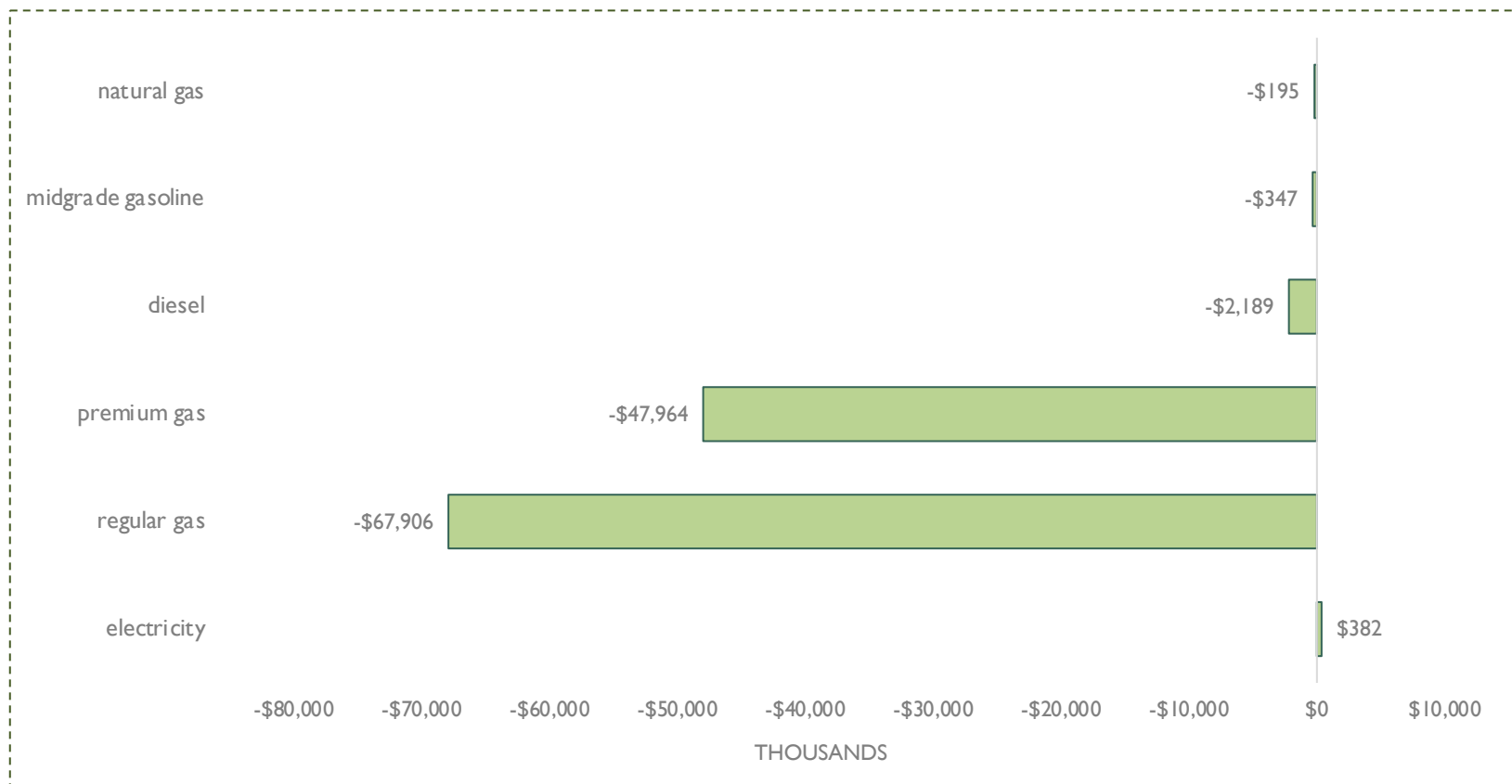
- ▷ Fewer Large Cars in sample
- ▷ Contrast of CO2 release from Compact to Large Cars
- ▷ Before year 2000 for Midsize and Large Cars

ANNUAL FUEL COSTS



- ▷ Electric and gas type cars
- ▷ Regular gas significantly higher than all gas types
- ▷ Subjected to gas guzzlers tax
- ▷ EPA fuel economy score

FIVE-YEAR COST PROJECTIONS



▷ More spending and less saving

▷ Regular and Premium gas significantly higher than all gas types

▷ Incremental value

◀ ▶ Electric for the future

HYPOTHESES RESULTS

▶ HYPOTHESIS ONE	<ul style="list-style-type: none">▷ Older vs. Newer Vehicles▷ Median Year: 2000	TEST RESULTS	<ul style="list-style-type: none">▷ Fail to reject the null hypothesis▷ No statistical difference
▶ HYPOTHESIS TWO	<ul style="list-style-type: none">▷ Compact, Midsize and Large Car Types▷ Unadjusted Highway MPG	TEST RESULTS	<ul style="list-style-type: none">▷ Reject the null hypothesis▷ Significant statistical difference
▶ HYPOTHESIS THREE	<ul style="list-style-type: none">▷ Compact, Midsize and Large Car Types▷ CO2 Emission from Tailpipe	TEST RESULTS	<ul style="list-style-type: none">▷ Reject the null hypothesis▷ Significant statistical difference



Q&A Session