Refrigerated Consolidation CO2 Emissions Reduction

Echo's Refrigerated Consolidation Solution Results in Significantly Lower CO2 Emissions

Echo's temperature-sensitive LTL shipping solution creates efficiencies that result in drastically lower CO2 emissions compared to competitors in the industry. Overall, this solution saves over 450,000 pounds of CO2 emissions per month*.

Output

34 Months

- 27.10% decrease in total mileage vs. National Competitor A
- 15.37% decrease in total mileage vs. National Competitor B

12 Months

- 27.43% decrease in total mileage vs. National Competitor A
- 16.06% decrease in total mileage vs. National Competitor B

6 Months

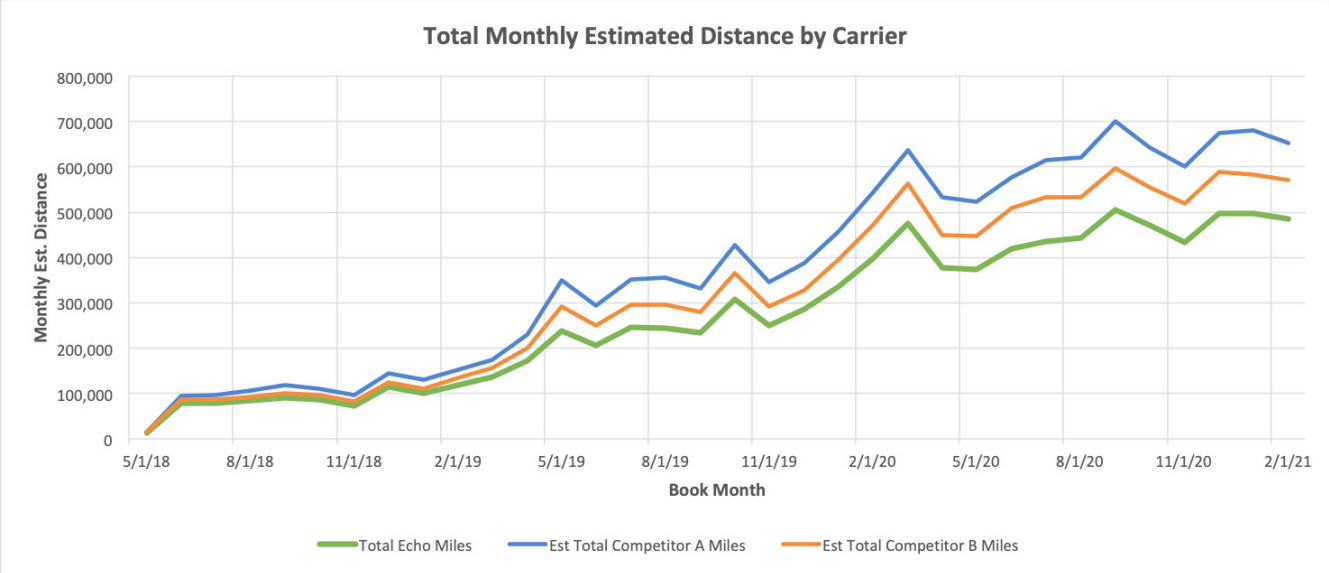
- 26.91% decrease in total mileage vs. National Competitor A
- 15.38% decrease in total mileage vs. National Competitor B

Outside of Data Infomation

Trailer Ultilization

- Full utilization based upon 43,500 pounds or 26 skids (whichever is greater).

Category	Echo	Est. Competitor A	Est. Competitor B
Miles Est. Fuel Gallons	9,307,124 1,431,865	12,767,233 1,964,190	10,997,448 1,691,915
Est. Pounds of CO_2 Emission Est. Reduced CO_2 Pounds	32,073,781 n/a	43,997,849 11,924,068	37,898,898 5,825,117
Est. CO_2 Pounds Per Load Est. Reduced CO_2 Pounds Per Load	4,997 n/a	6,855 1,858	5,905 908



Assumptions

- 6.5 miles per gallon of diesel fuel
  - https://www.arrowtruck.com/blog/2016/06/21/manage-your-semi-trucks-fuel-use-with-these-tips/
- 22.4 pounds of CO_2 produced per 1 gallon of diesel fuel consumed
  - http://www.patagoniaalliance.org/wp-content/uploads/2014/08/How-much-carbon-dioxide-is-produced-by-burning-gasoline-and-diesel-fuel-FAQ-U.S.-Energy-Information-Administration-EIA.pdf
- 2 Largest National Competitors and published pool point/terminal locations
  - Assumptions of using the "most likely" route based on previous experience and feasibility.

Data Set

- TL Shipments booked between 5/1/2018 – 2/28/2021
  - 6,418 "shared consolidated full truckloads"

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*Three-month average