## Determinants of Truck Rates in the U.S.

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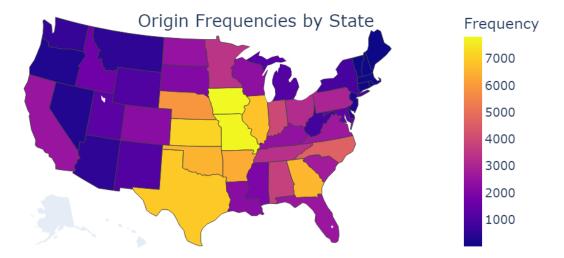
Washington State University

May 23, 2024

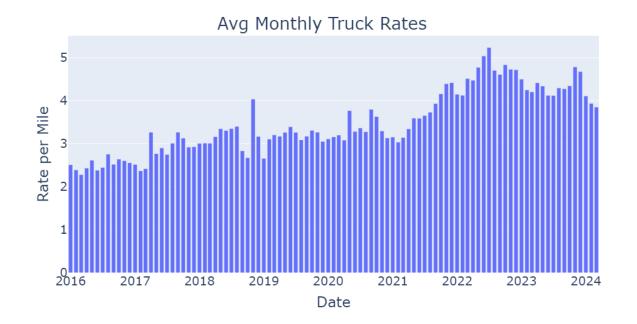
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- **Objective:** Understanding what drives truck rates.
- **Key Factors:** Operational cost, distance, supply and demand, and economic condition.
- Data Sources:
  - Bulkloads.com: Platform connects commodity transporters with shippers.
  - Federal Reserve Bank of St. Louis
  - Energy Information Administration

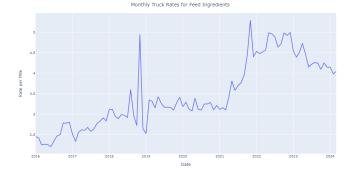
## Truck Transportation

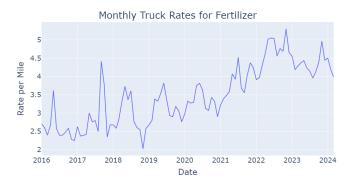


#### Figure 1: Accumulative Frequency from 2016-2024

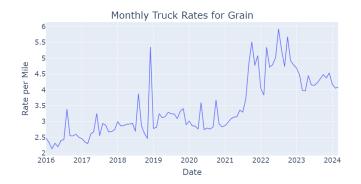


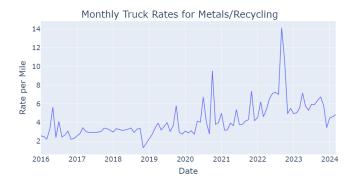
## Truck Rates for Different Commodity

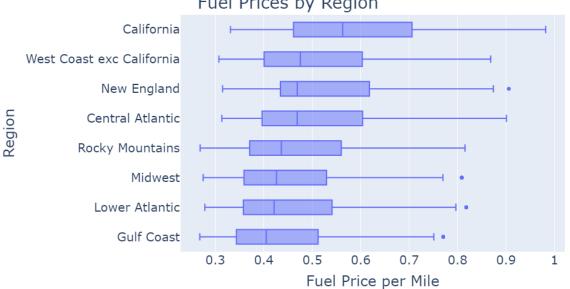




## Truck Rates for Different Commodity



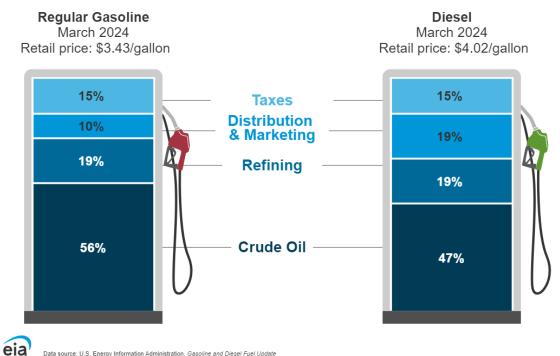




### Fuel Prices by Region

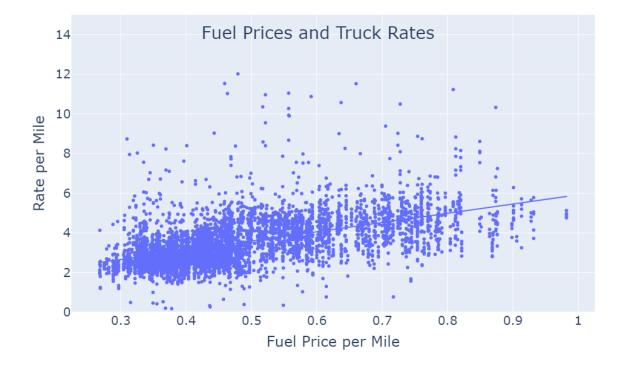
## Fuel Prices

What we pay for in a gallon of:



Data source: U.S. Energy Information Administration, Gasoline and Diesel Fuel Update

## Truck Rates vs Diesel



## Truck Rates vs Economic Indicator





	Coef. (Std.Err.)
Aggregates	$2.5438 \ (0.5861)^{***}$
Feed Ingredients	$2.9108 \ (0.4307)^{***}$
Fertilizer	$3.0549 \ (0.5710)^{***}$
Grain	$1.7733 \ (0.6757)^{**}$
Industrial	$2.6740 \ (0.5392)^{***}$
Metals/Recycling	$3.2883 \ (0.8218)^{***}$
Other	$3.0875\ (6.6921)$
Unemployment	$1.5897 \ (1.8504)$
Wages	$0.0193\ (0.0134)$
Year	$0.0567 \ (0.0283)^{**}$

 Table 1: OLS Regression Results for Commodity

	Coef. (Std.Err.)
California	$1.7071\ (1.3196)$
Central Atlantic	$2.6982 \ (0.6205)^{***}$
Gulf Coast	$4.4344 \ (0.6701)^{***}$
Lower Atlantic	$3.5385 \ (0.5269)^{***}$
Midwest	$2.4306 \ (0.4063)^{***}$
New England	-0.7016 $(2.6077)$
Rocky Mountains	$2.8634 \ (0.7712)^{***}$
West Coast exc California	-1.2123(1.1728)
Unemployment	$1.9604\ (1.8549)$
Wages	$0.0279 \ (0.0136)^{**}$

 Table 2: OLS Regression Results for Region

## Questions?

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# Thank you!