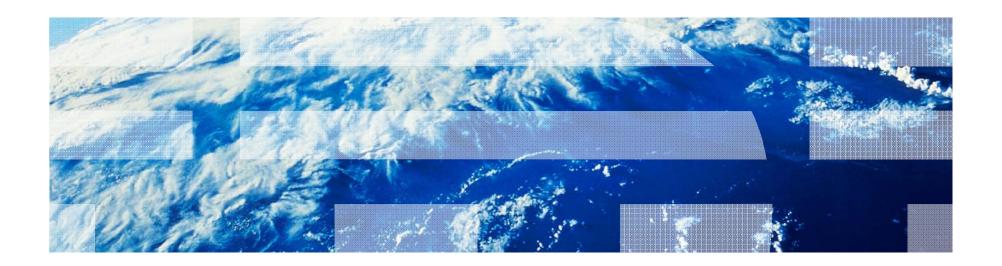


IBM ILOG Oil Case Study



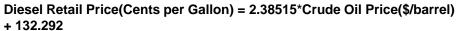


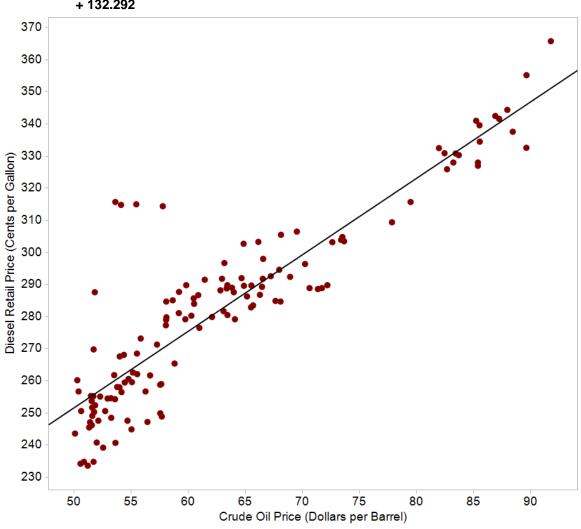
US Diesel and Crude Oil Prices over time





Relationship between Crude Oil price and Diesel Fuel Price (filtered above \$50/barrel) Trend Line Model



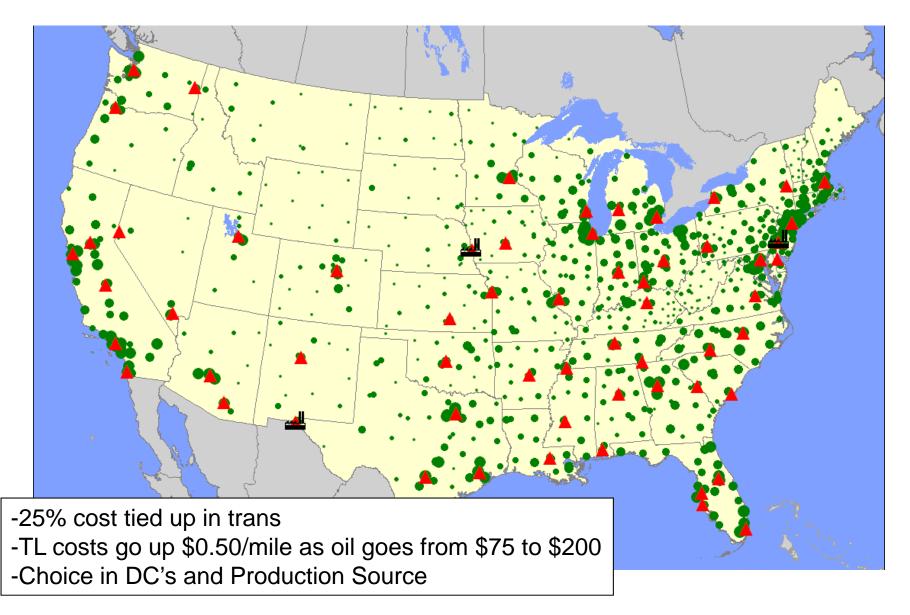




Implications on crude oil price to transportation rates

- Given the relationship in the previous slide, we see that a \$10/barrel increase in crude oil will result in ~\$0.24/gallon increase in diesel fuel
- Standard fuel surcharge methodology is to increase surcharge \$0.01/mile for every \$0.06 increase in diesel fuel
- Therefore we conclude that for every \$10 increase per barrel of crude oil price, we will see an additional \$0.04/mile increase in transportation rates.







Impact on Marchouse Locations Warehouse

Scenario Atlanta Chicago Dallas New York Las Vegas Albuquerque Los Angeles Portland \$75/ barrel \$100/ barrel \$125/ barrel \$150/ barrel \$200/ barrel

