



*UNITED STATES*  
**DEPARTMENT OF TRANSPORTATION**

# **FRATIS Assessment Update July 16, 2014**

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# FRATIS Assessment Plan

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- Compare test data with baseline data
  - Calculate travel time shipper-to-terminal
  - Compute fuel consumption based on fleet averages and trip mileage
  - Calculate emissions using EPA truck model
  - Determine number of bobtails
  - Calculate terminal queue time
- Survey and interview stakeholders
  - Dispatchers
  - Drivers
  - Terminal operators



# Test versus Baseline Data

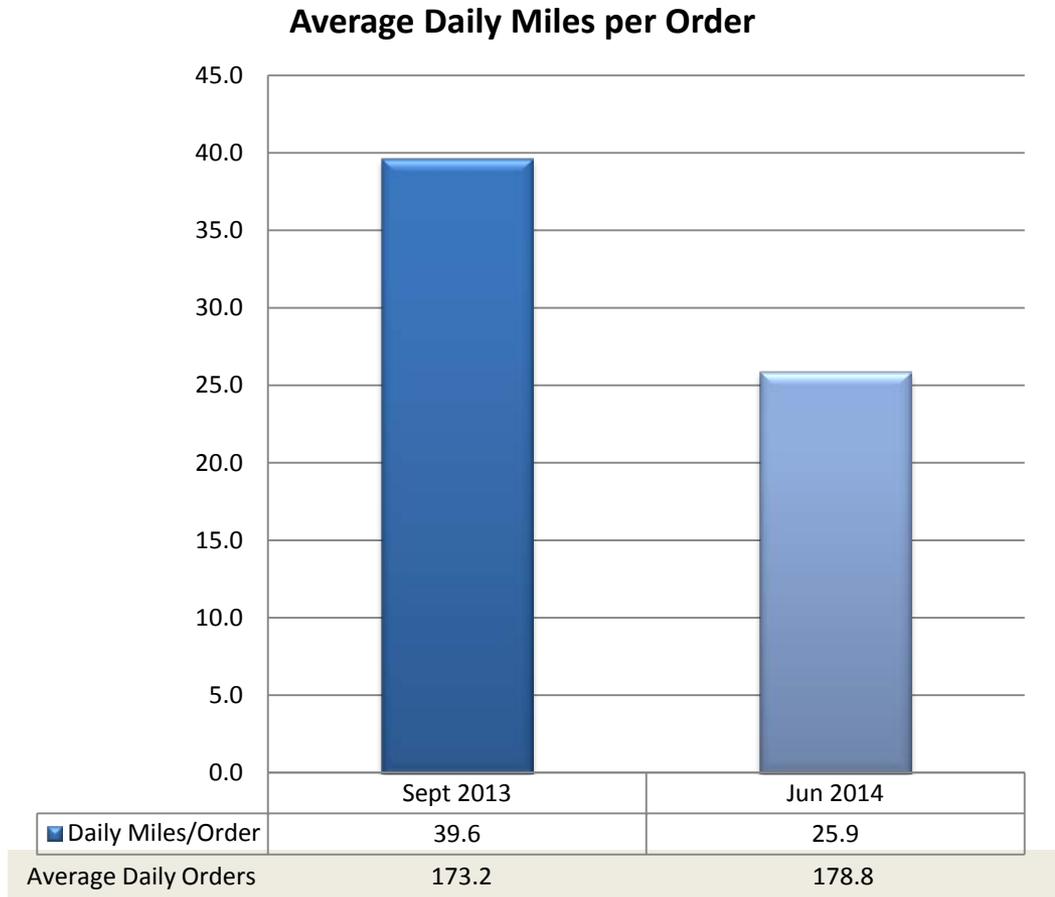
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- LA Baseline data collection began Sept 2013
  - 50 trucks, TomTom 510 devices
- FRATIS Installed Jan-Feb 2014
- Test data collection began March 2014
- Test to continue through January 2015
- Operational Conditions to be examined
  - Apples to apples comparison
  - Bin analysis using traffic conditions and volume of orders



# FRATIS Preliminary Snapshot

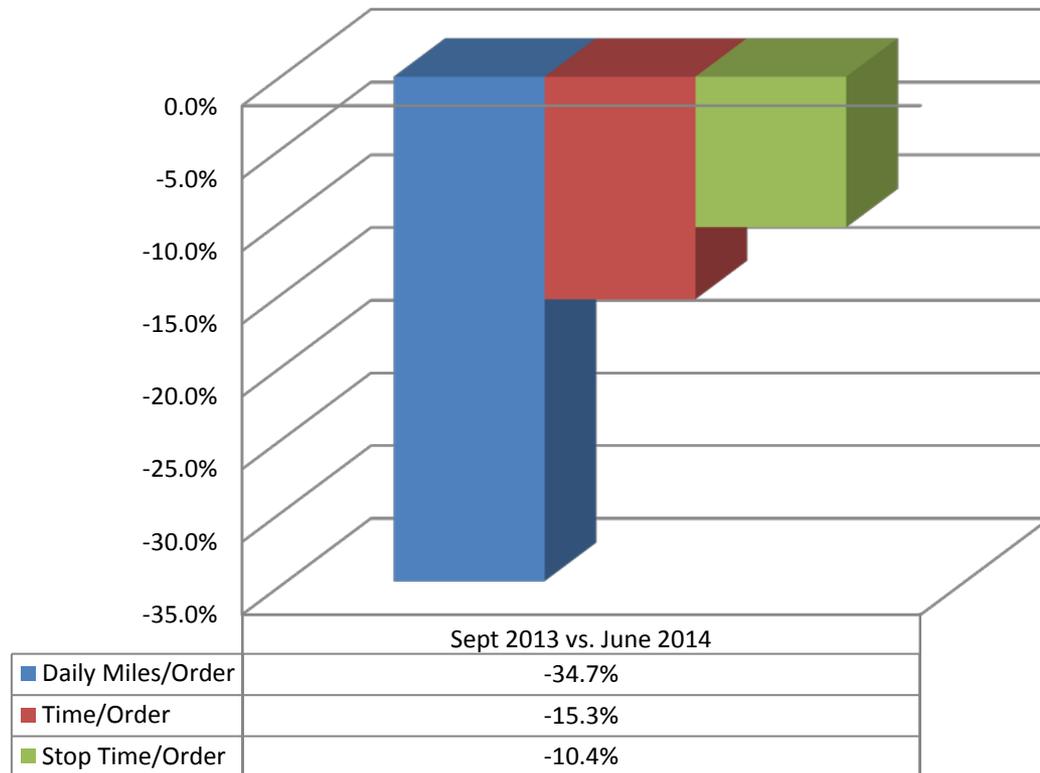
## Two-month Comparison - Average Miles per Order



# FRATIS Preliminary Snapshot

## Two-month Comparison - Metrics Per Order

FRATIS LA Data Comparison: Sept 2013 vs. June 2014



# Assessment of Regional Impacts

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- Identification of impacts of FRATIS at prototype sites
- Assessment of potential impacts of FRATIS on a region
  - Additional customers/partners of test participants
  - Additional drayage companies
  - Other geographic regions

