## ERNREL <br> NATIONAL RENEWABLE ENERGY LABORATORY

## Fleet DNA Project Data Summary Report

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## The Fleet DNA Project:

The Fleet DNA Project aims to accelerate the development of advanced vehicle technologies while supporting the strategic deployment of market-ready technologies that reduce costs, fuel consumption, and emissions.

Designed by the U.S. Department of Energy's National Renewable Energy Laboratory in partnership with Oak Ridge National Laboratory, the data summaries contained within this report are designed to illustrate the broad operation range of many of today's vehicle vocations and to provide insight into key observable statistical trends.

## Within This Report:

Contained within this report are graphical data summaries based on real-world "genetics" of medium- and heavy-duty commercial fleet vehicles operating within a chosen vocation.

These graphical data summaries have been selected to highlight key statistical trends observed in past U.S. DOE fleet studies, and to provide insight into potential areas of interest for the continued development of technology to reduce costs, fuel consumption, and emissions.




Daily Average Driving Speed vs. Kinetic Intensity for Delivery Trucks


\# of Days Included: 553

Daily Average vs. Maximum Driving Speed for Delivery Trucks



Average Driving Speed by Deployment for Delivery Trucks


\# of Vehicles Reporting: 36
Generated: Thu Aug 07, 2014
\# of Days Included: 486


Daily Mean Road Grade by Deployment for Delivery Trucks

\# of Vehicles Reporting: 36
Generated: Thu Aug 07, 2014
\# of Days Included: 553


Daily Mean Road Grade vs. \# of Stops per Mile for Delivery Trucks




## Detailed Average Driving Speed and Distance Correlation Examined for Delivery Trucks




Daily Stops per Mile vs. Average Driving Speed for Delivery Trucks


Stops Per Mile by Deployment for Delivery Trucks




Daily Total Number of Stops vs. Operating Time for Delivery Trucks


Daily Total Number of Stops vs. Distance Traveled for Delivery Trucks







Daily Zero Speed Cycle Percentage by Deployment for Delivery Trucks


Captured Operating Time by Speed Bin (mph) for Delivery Trucks


Captured Operating Time by Speed Bin (mph) for Delivery Trucks


Total Mileage Collected by Speed Bin (mph) for Delivery Trucks


Total Mileage Collected by Speed Bin (mph) for Delivery Trucks



\# of Days Included: 553



\# of Vehicles Reporting: 36
Generated: Thu Aug 07, 2014
\# of Days Included: 553


\# of Days Included: 553

Daily Operating Time vs. Average Driving Speed for Delivery Trucks

\# of Days Included: 552

\# of Vehicles Reporting: 36
Generated: Thu Aug 07, 2014
\# of Days Included: 553

Operating Time by Deployment for Delivery Trucks


## Interested in Participating?

The statistical summaries presented in this report were generated with the support of a variety of organizations. It is through the continued support of these partner organizations that Fleet DNA continues to grow.

For more information about the project or to discuss partnership opportunities including contribution of data to the database, please contact:

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