

## Fleet DNA Project Data Summary Report



Kevin Walkowicz Adam Duran Evan Burton

1/15/2014

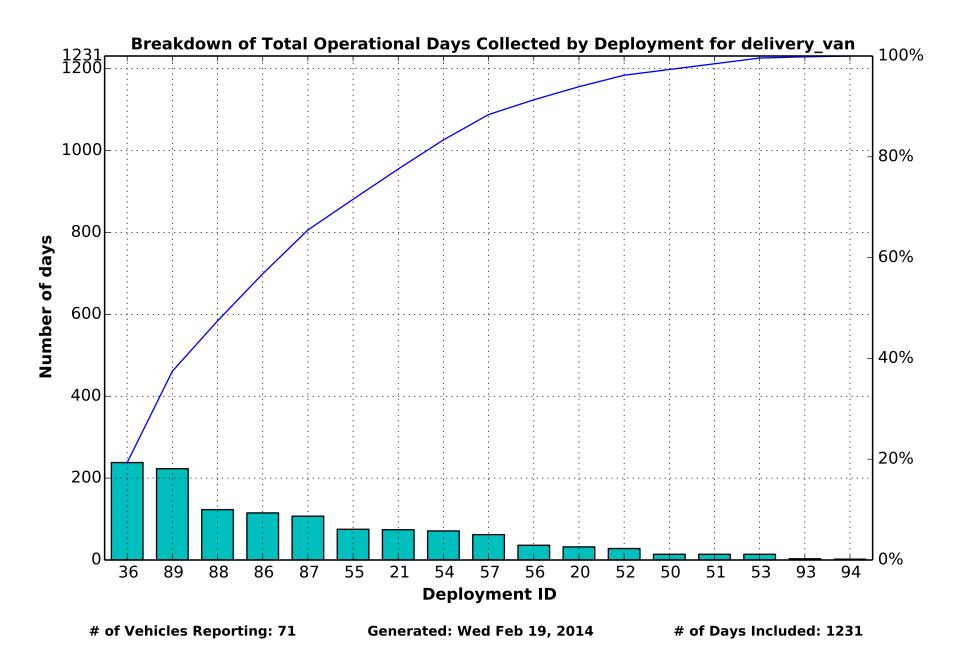
NREL/PR-5400-61168

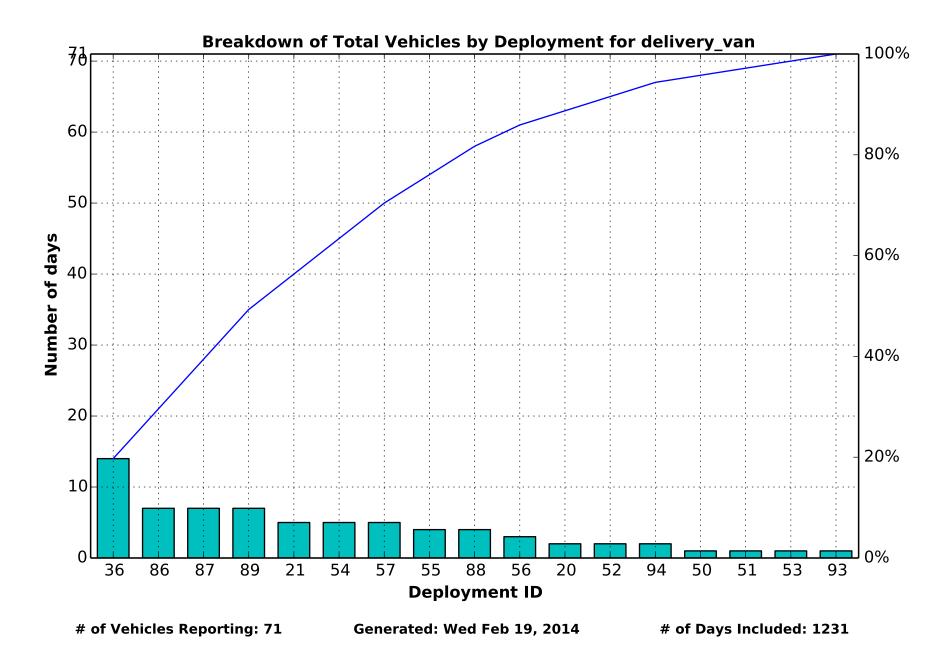
NREL is a national laboratory of the U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, operated by the Alliance for Sustainable Energy, LLC.

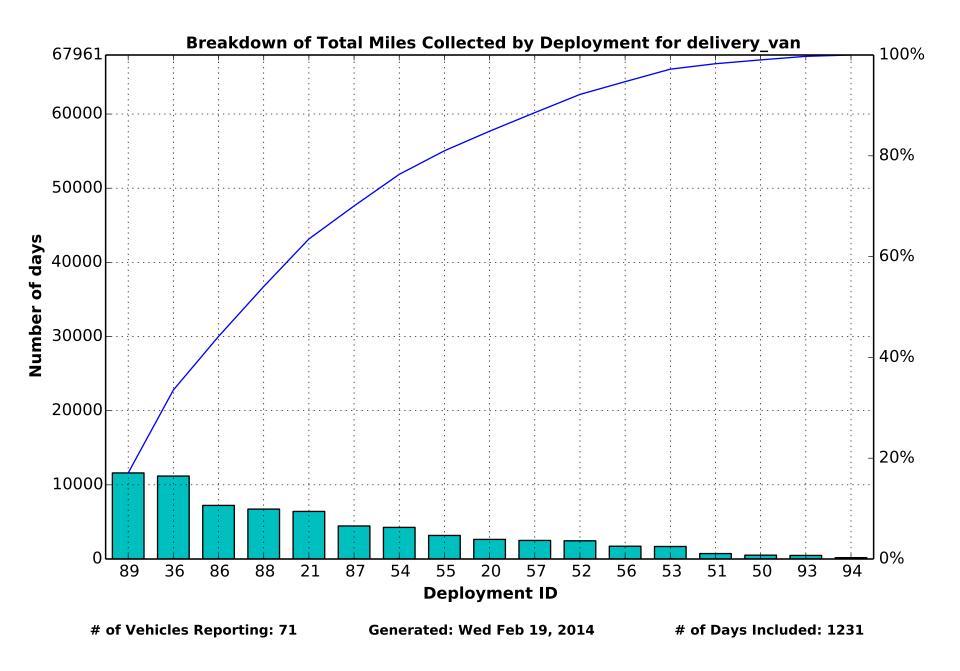
The Fleet DNA Project aims to accelerate the development of advanced vehicle technologies while supporting the strategic deployment of market-ready technologies that reduce costs, fuel consumption, and emissions.

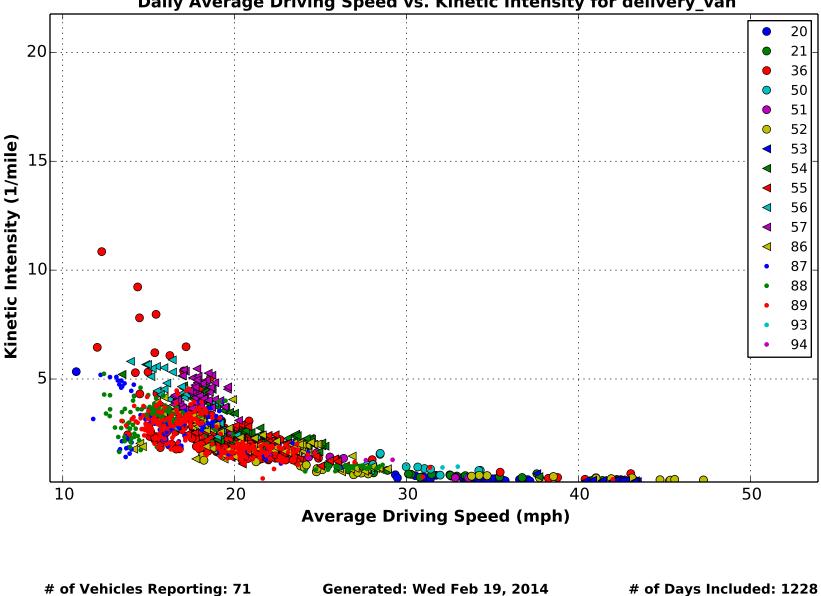
Designed by the U.S. Department of Energy's National Renewable Energy Laboratory in partnership with Oak Ridge National Laboratory, the data summaries contained within this report are designed to illustrate the broad operation range of many of today's vehicle vocations and to provide insight into key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



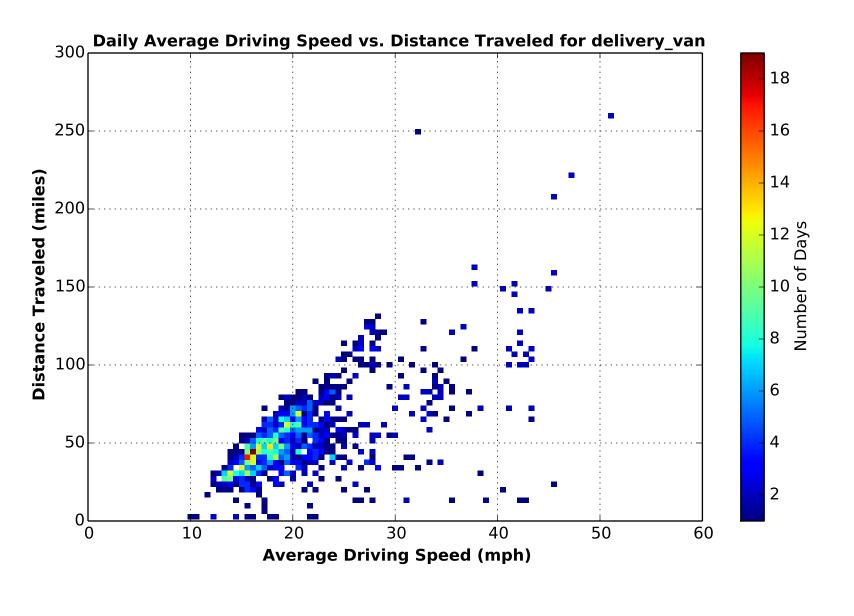




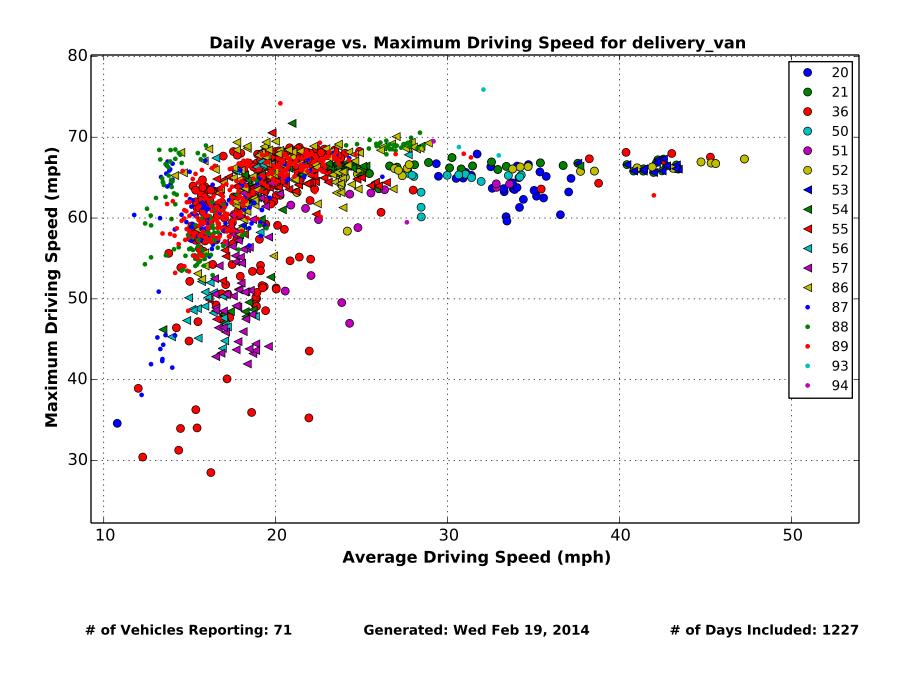


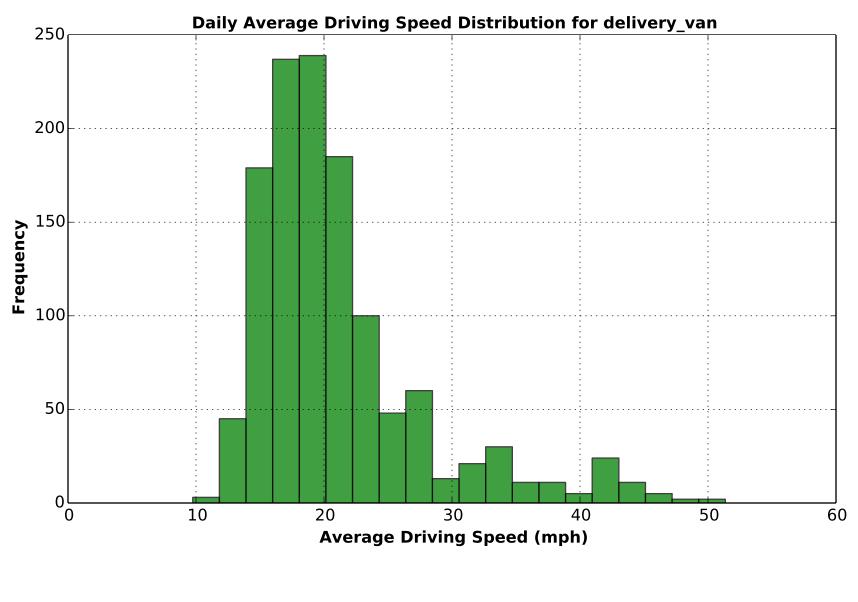
## Daily Average Driving Speed vs. Kinetic Intensity for delivery\_van

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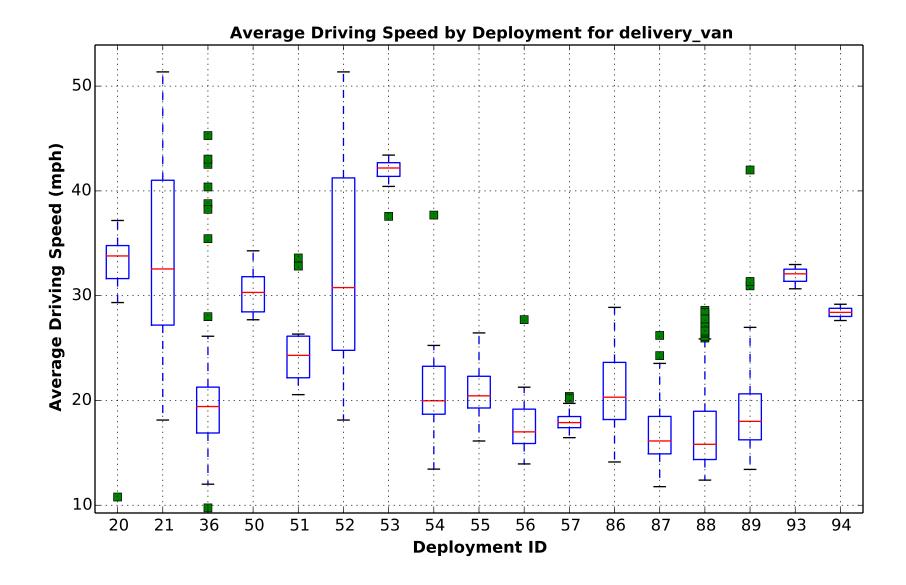


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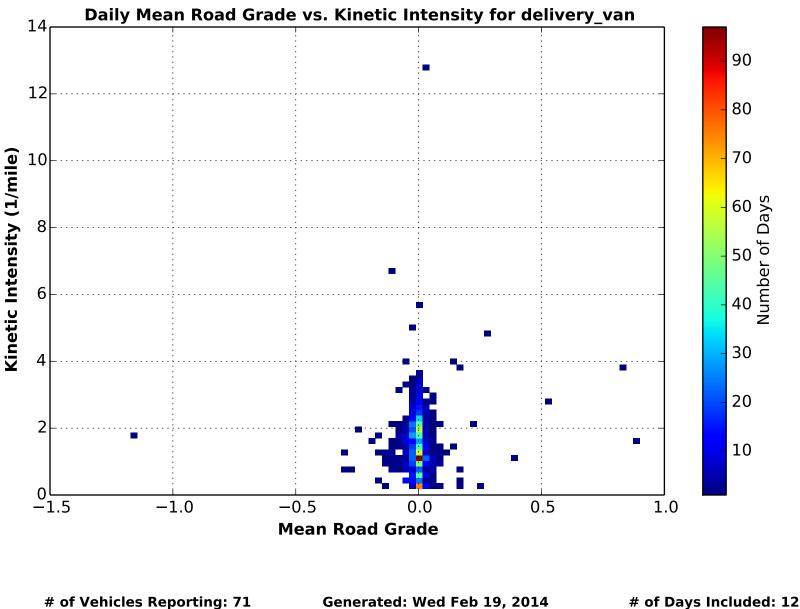




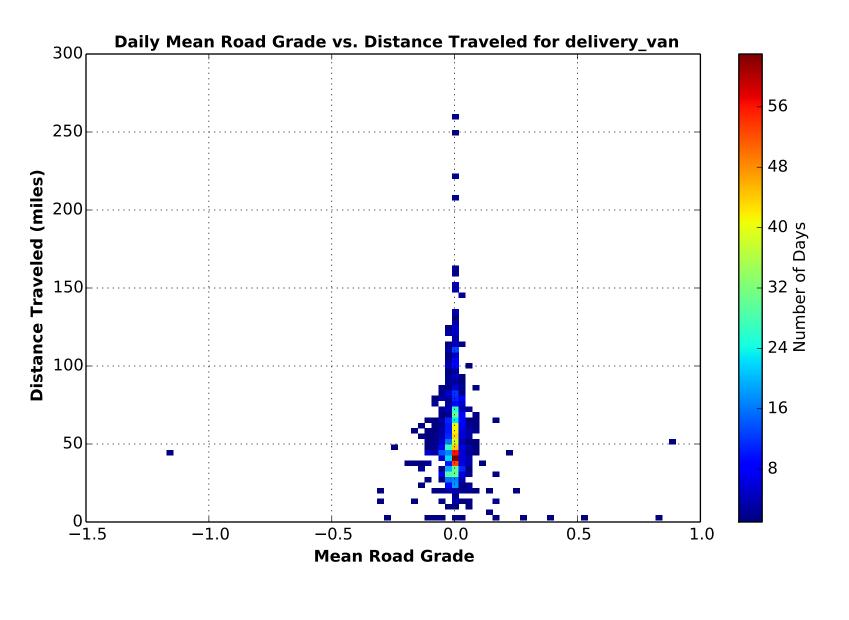
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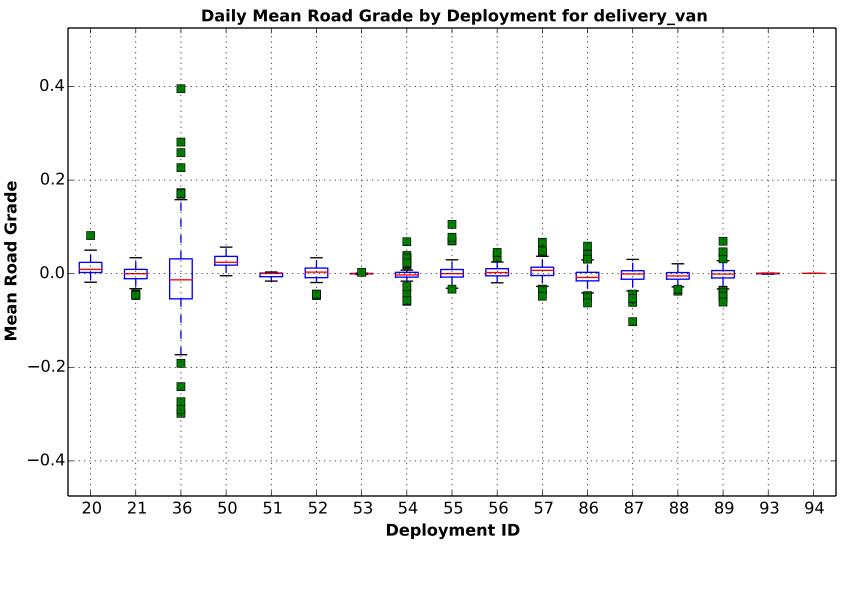
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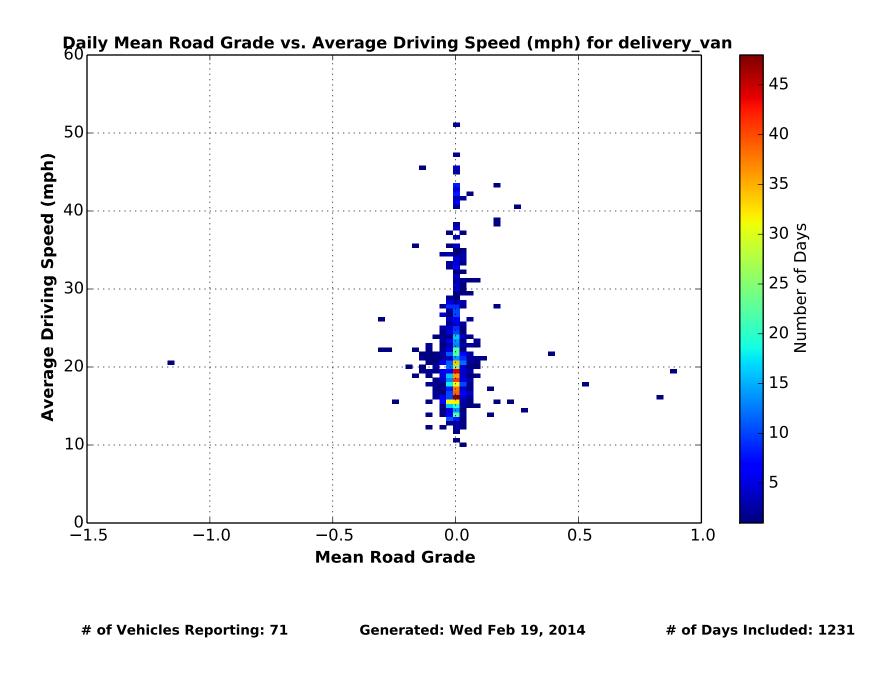
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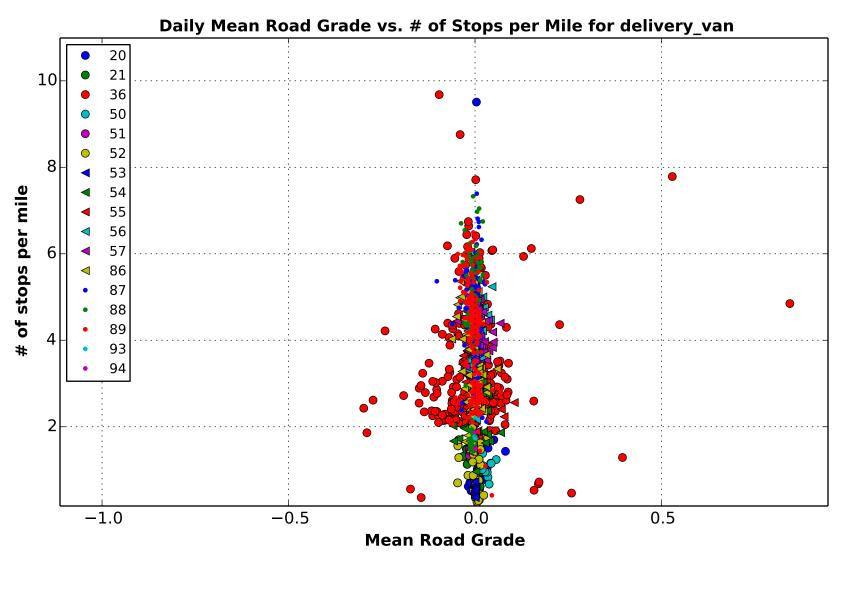


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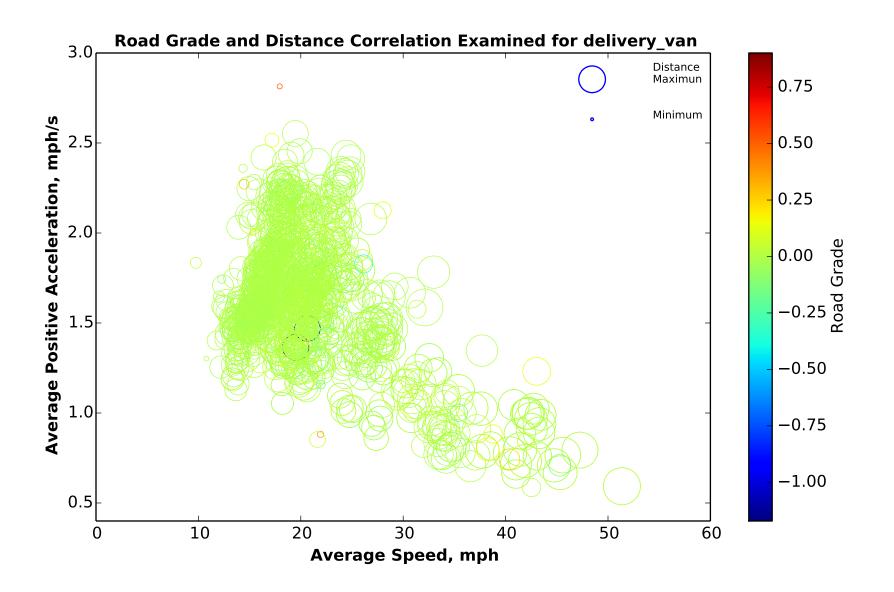


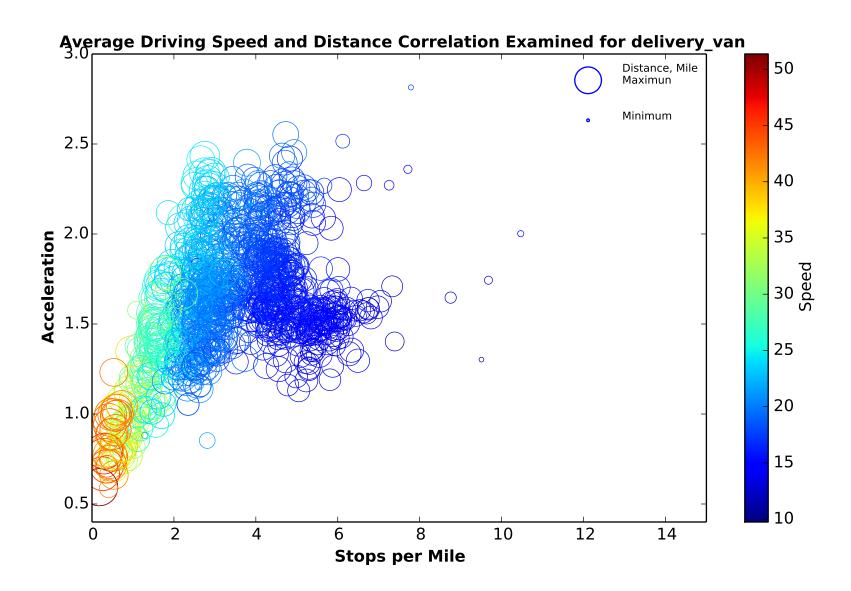
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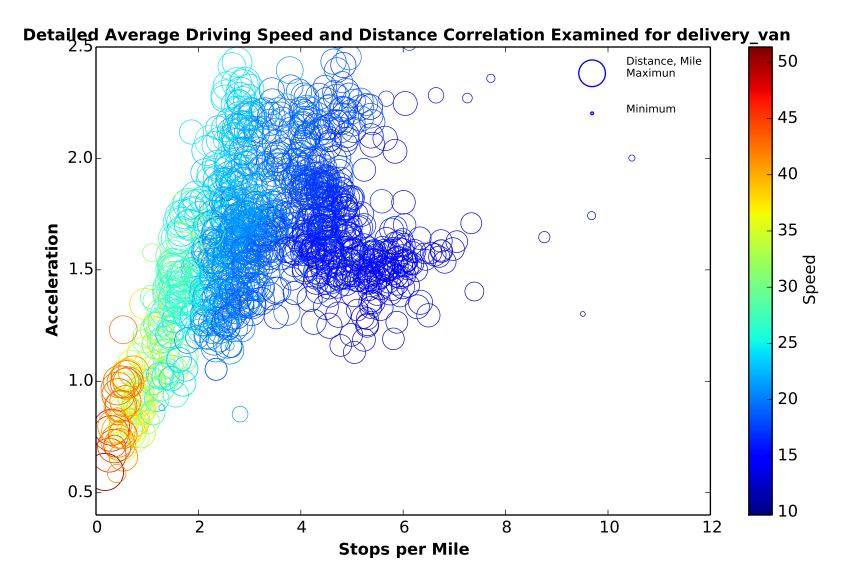


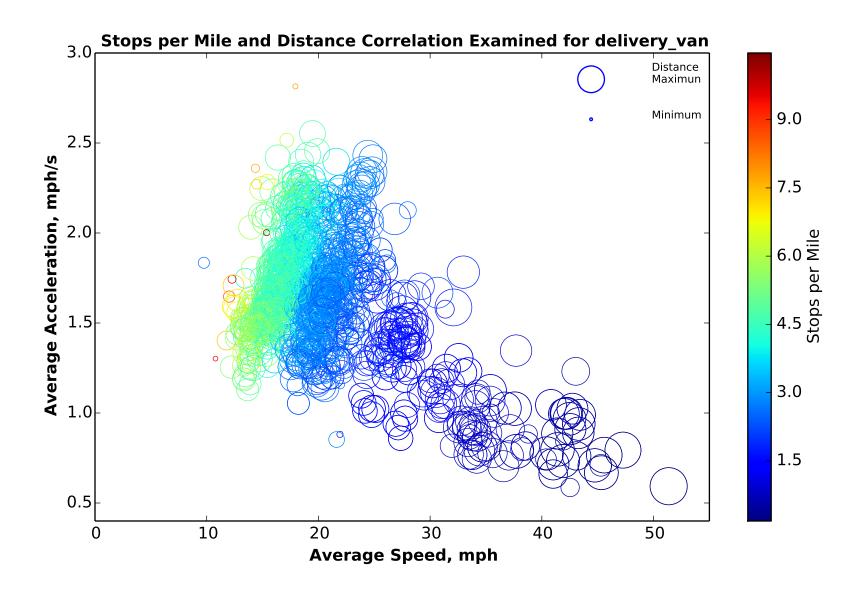


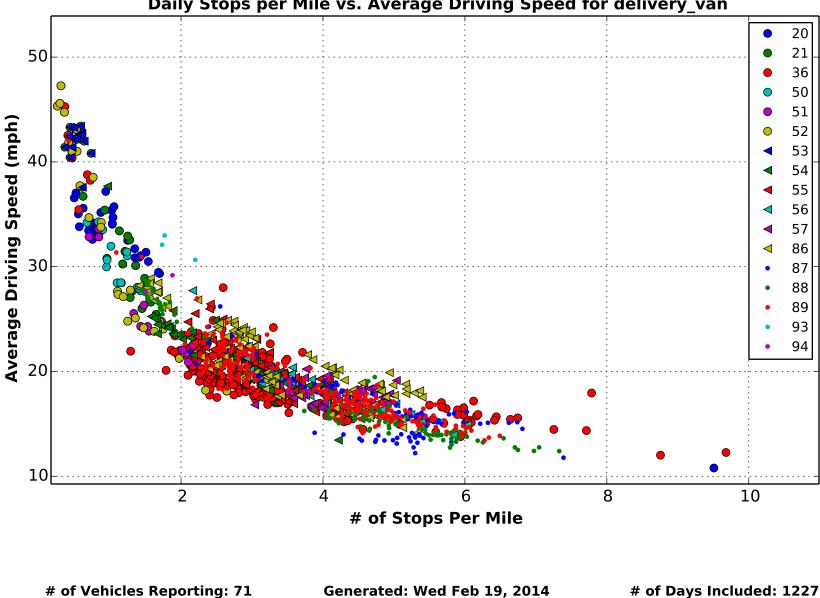
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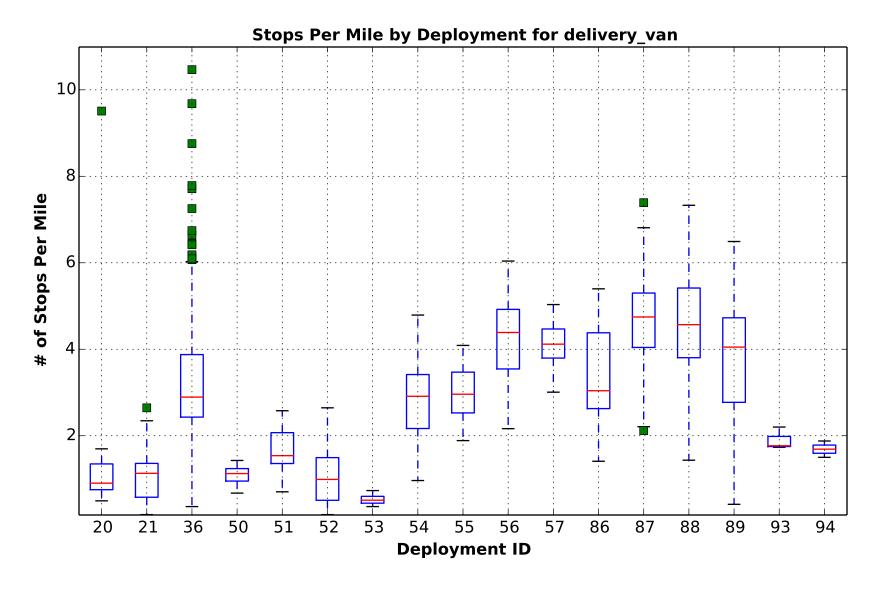




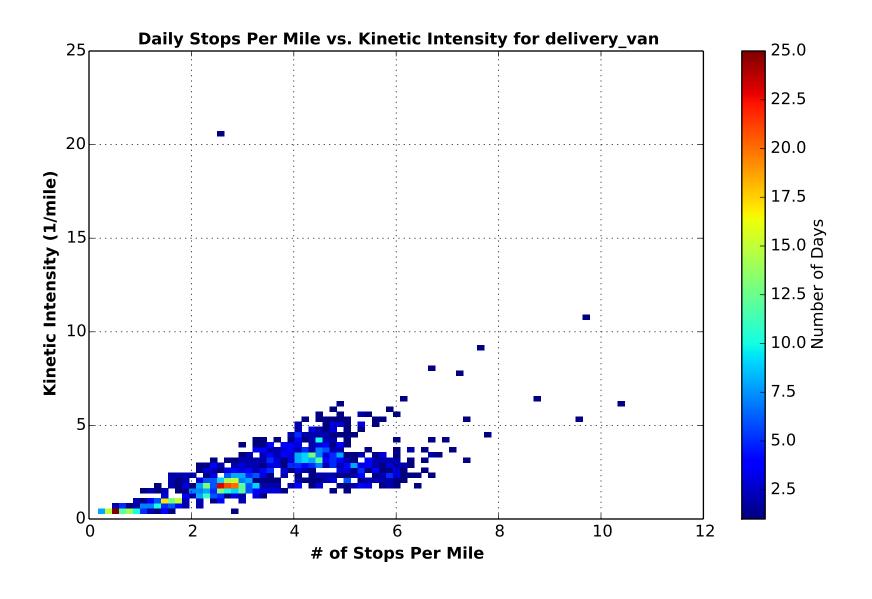




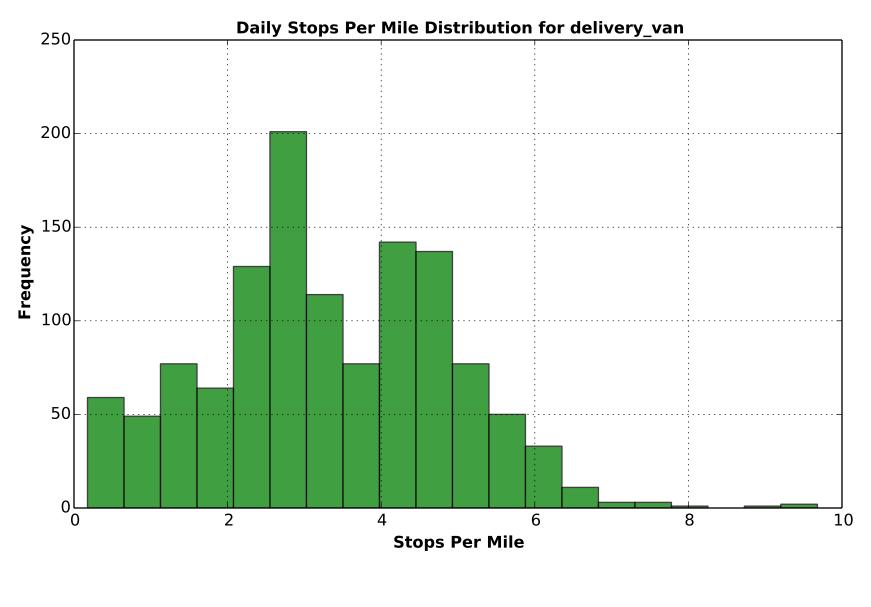
## Daily Stops per Mile vs. Average Driving Speed for delivery\_van



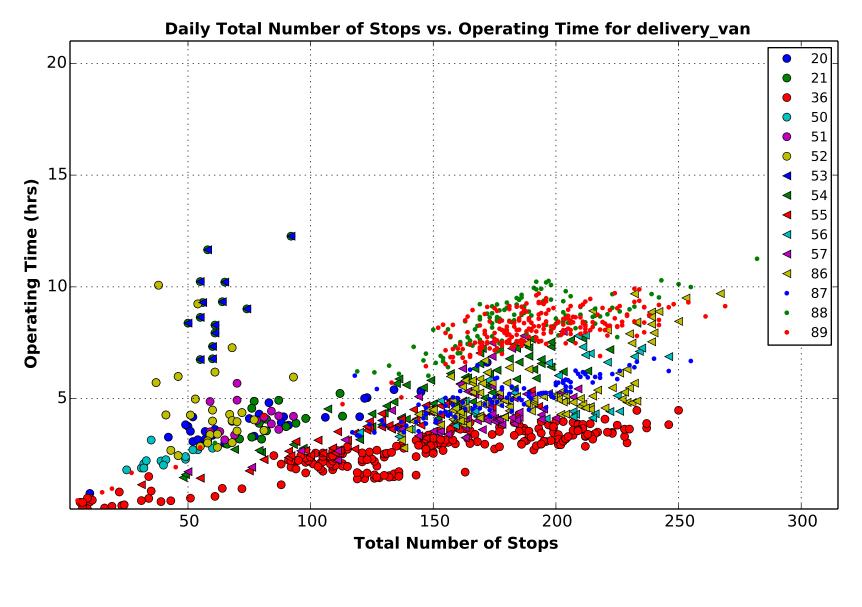
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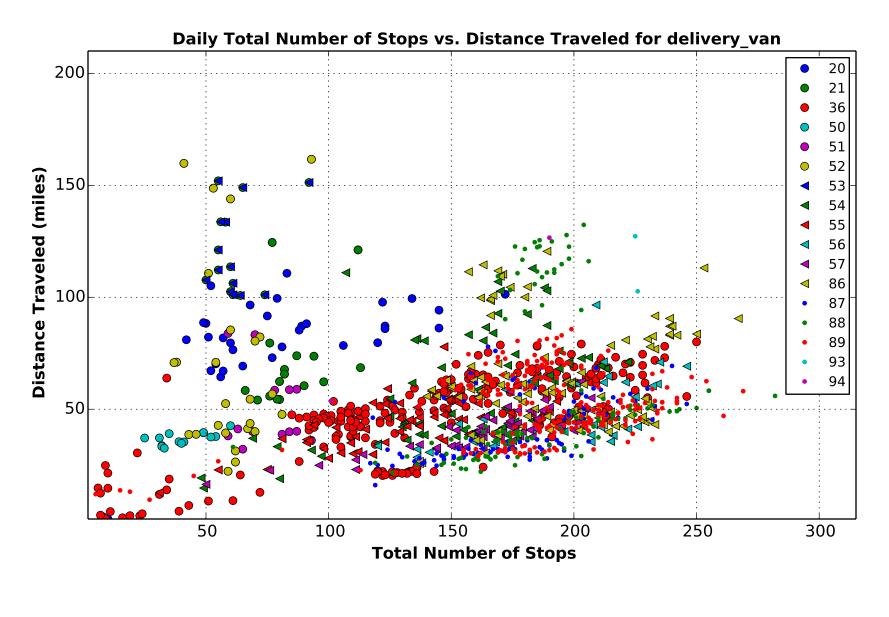
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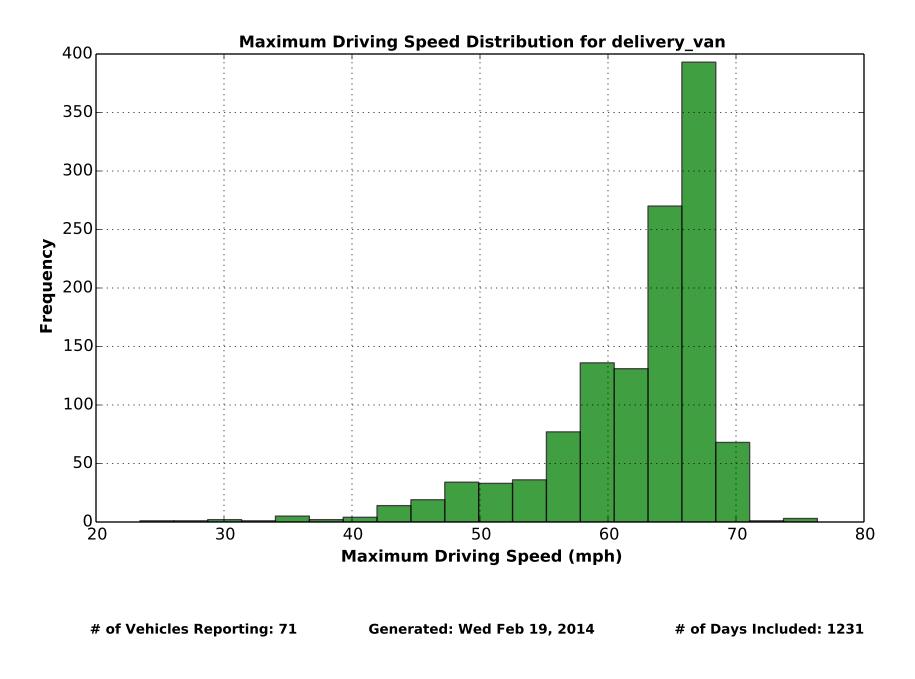
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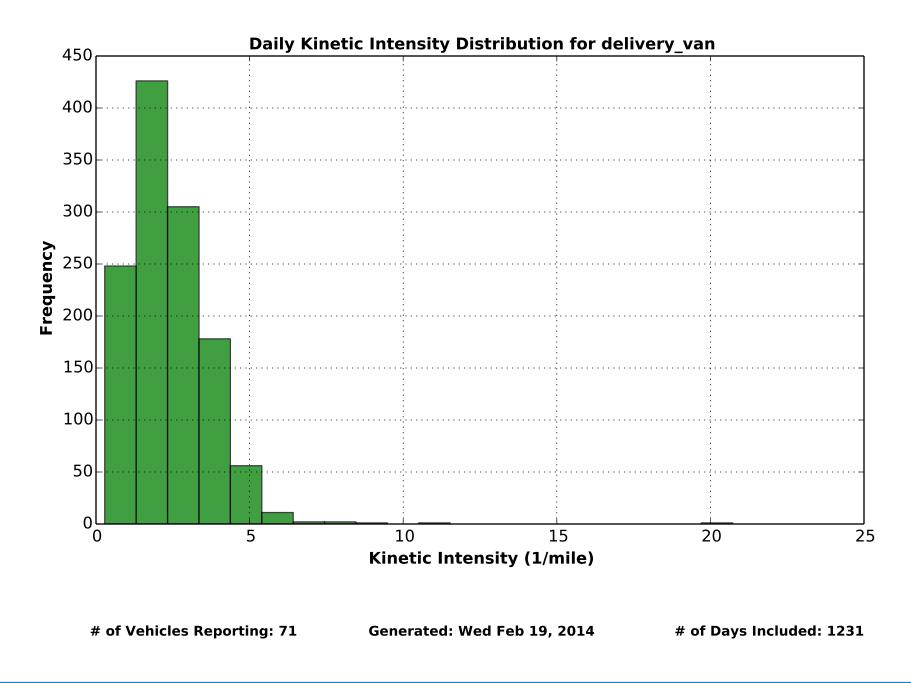


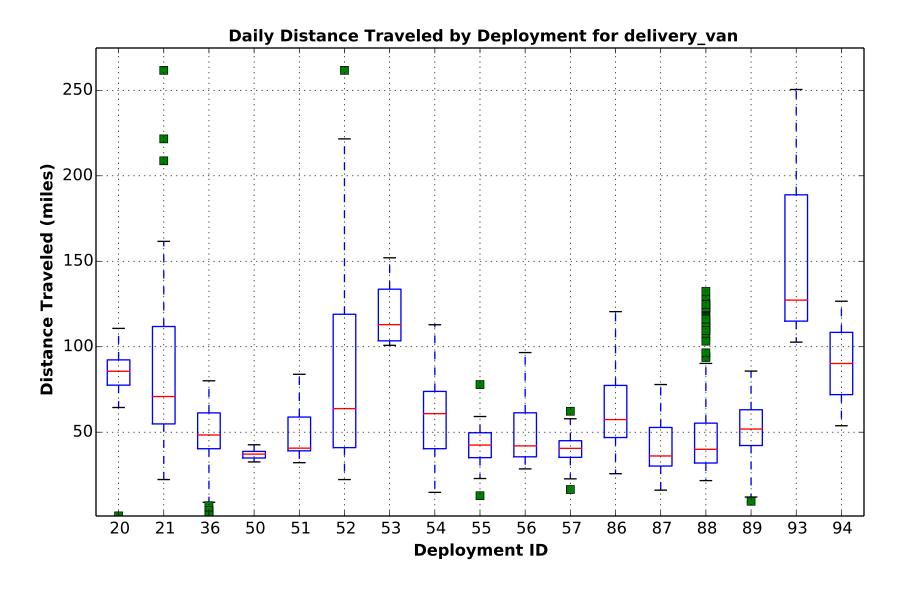
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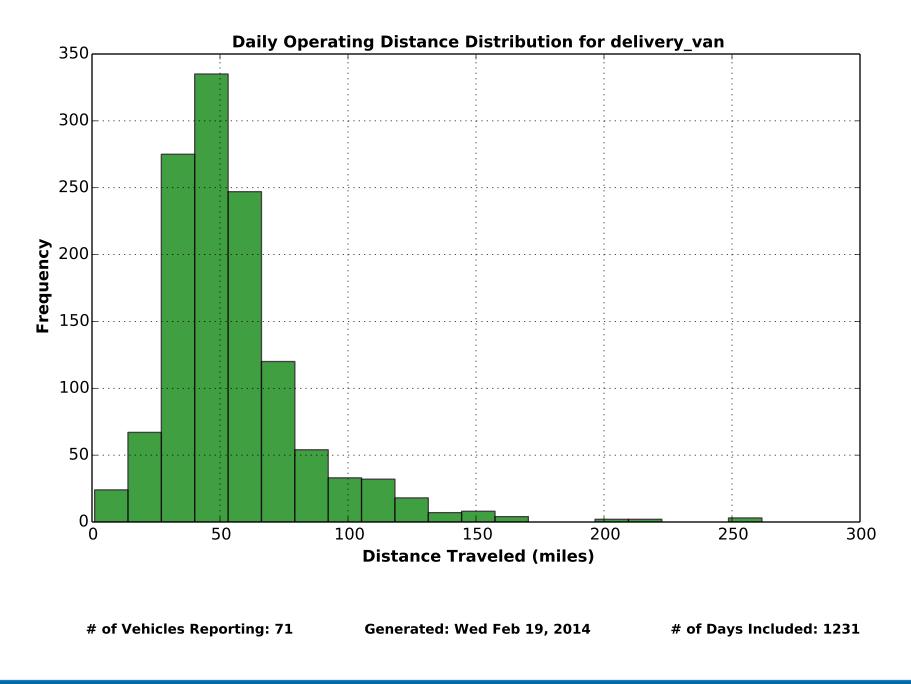
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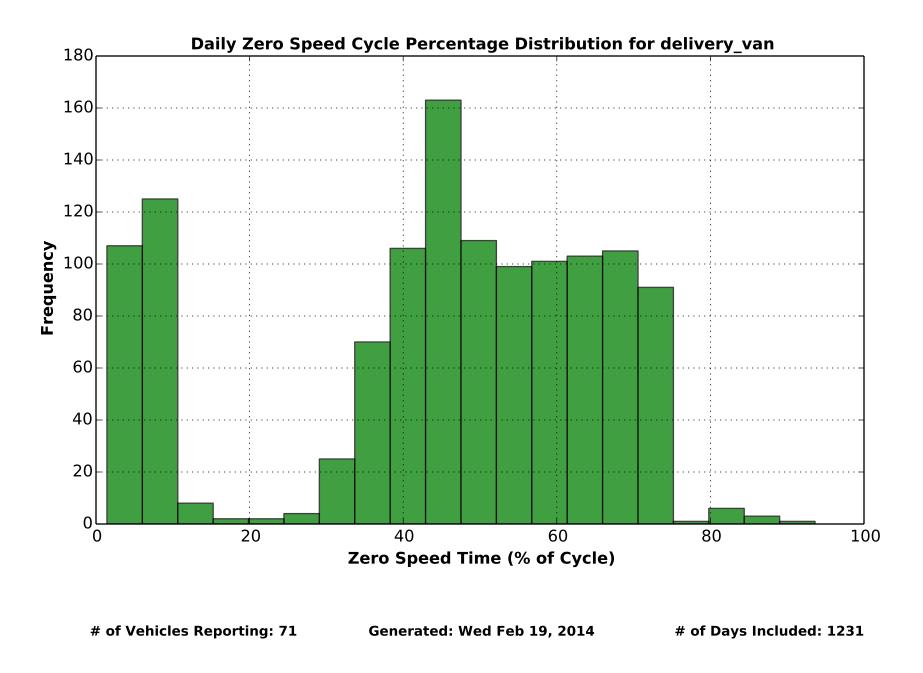


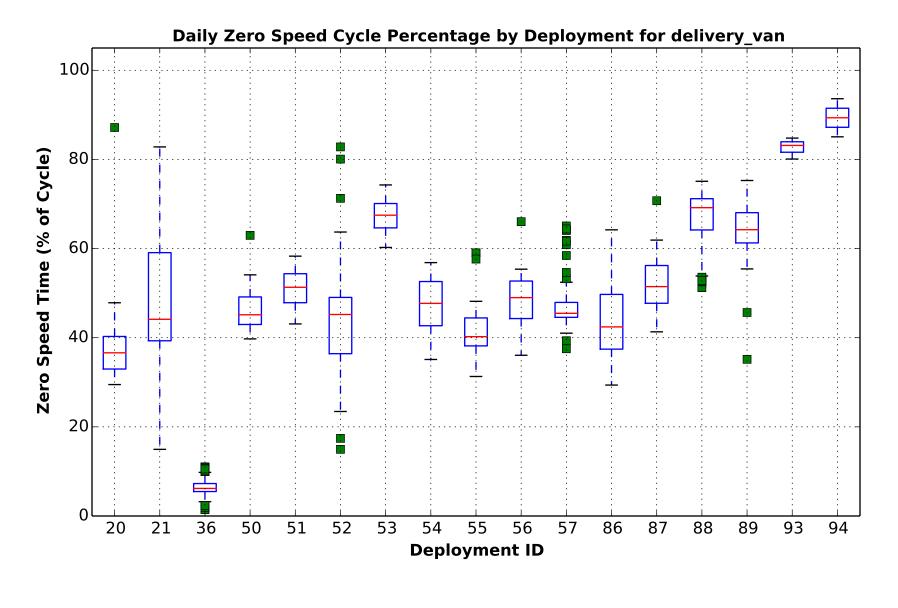




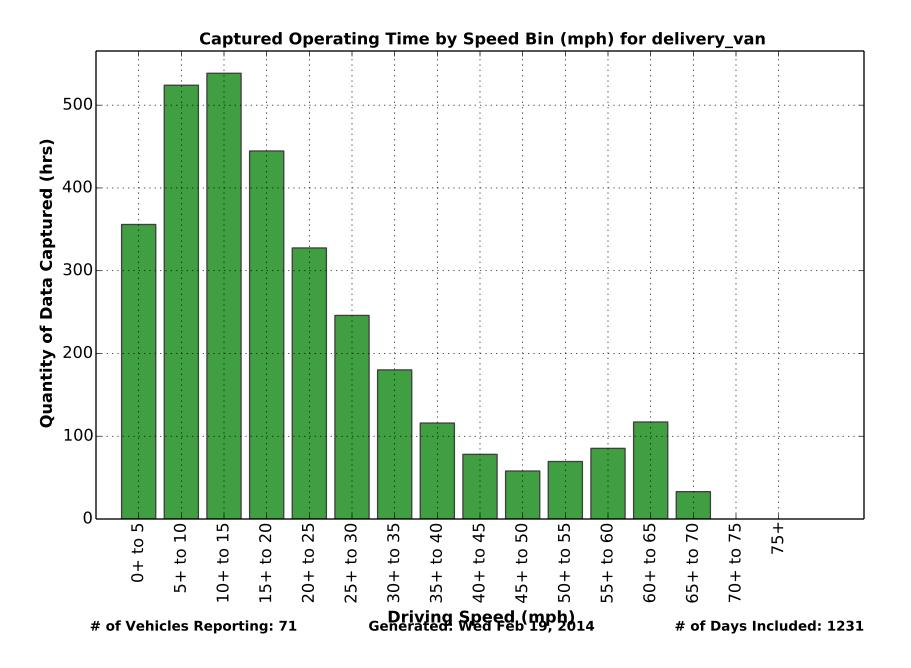
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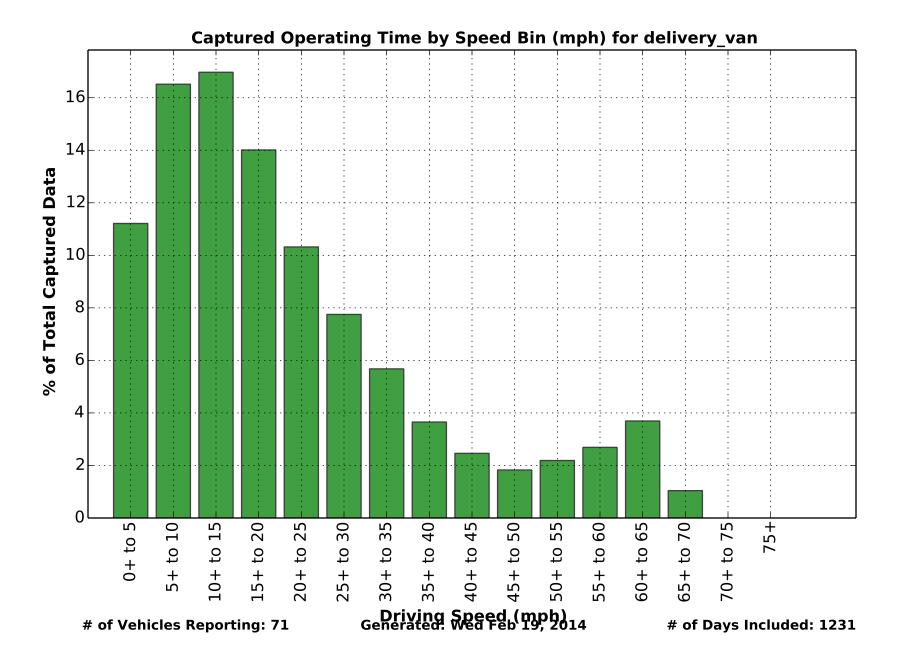




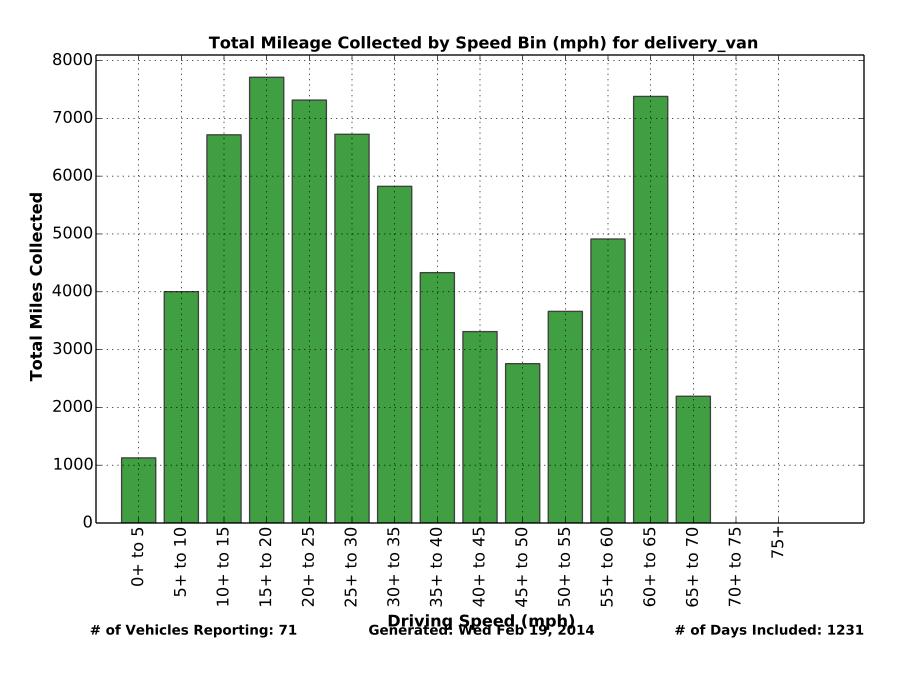


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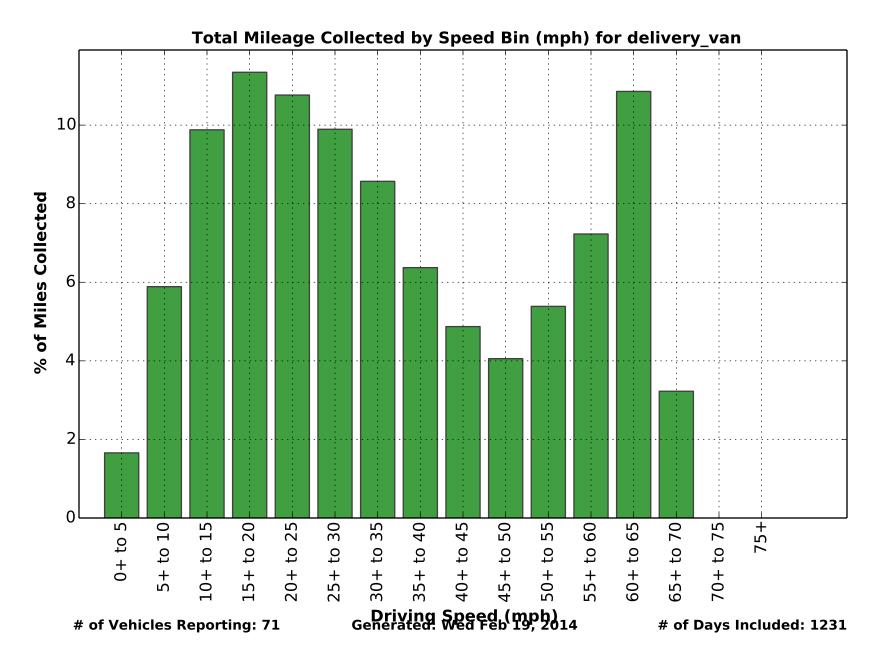


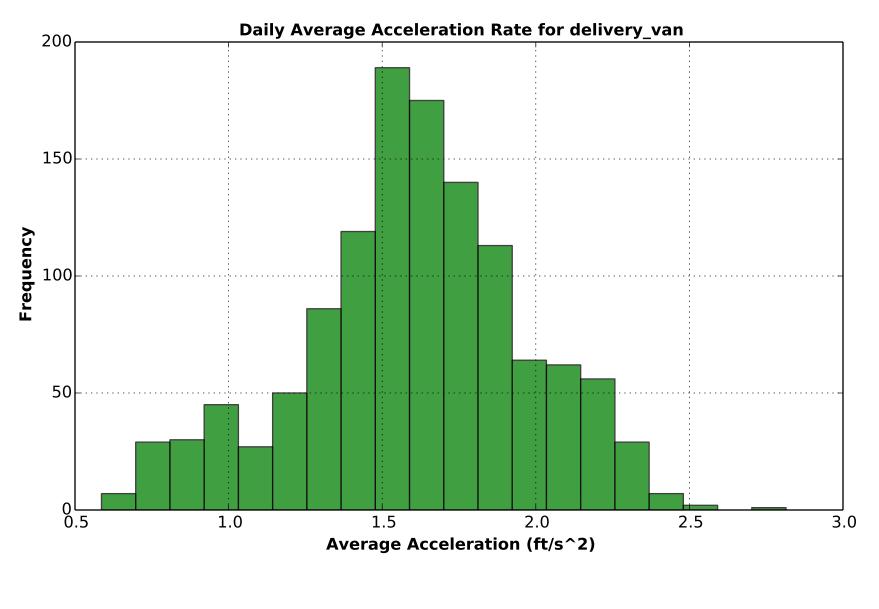


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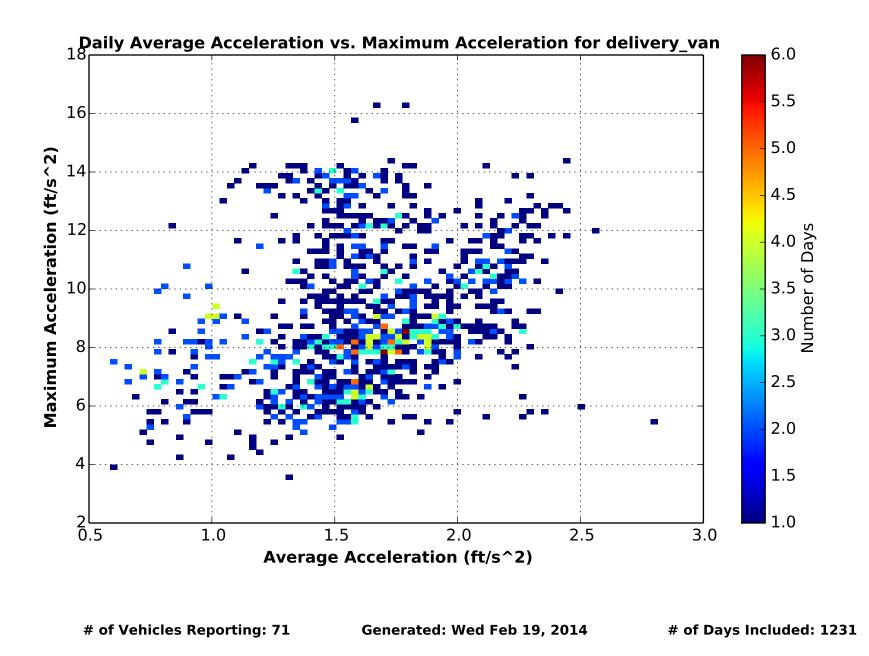


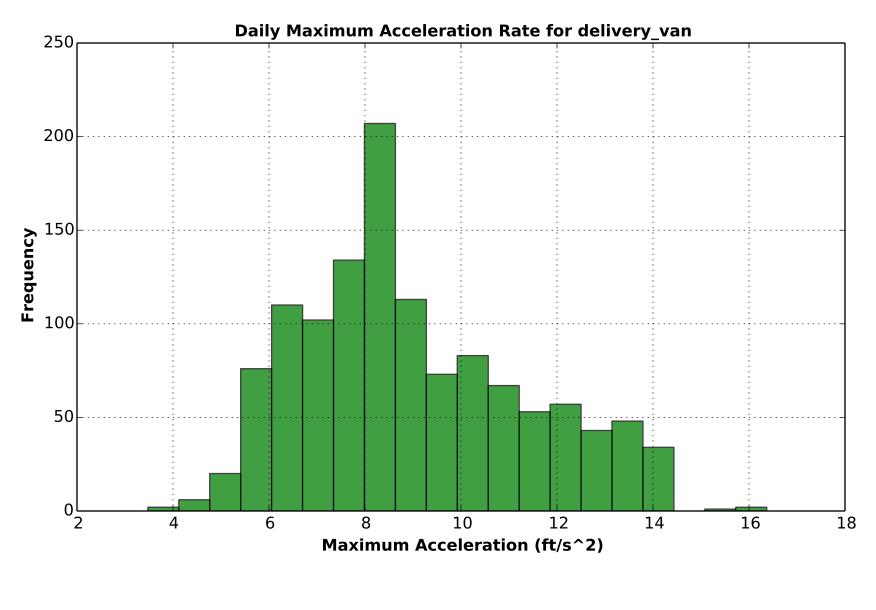
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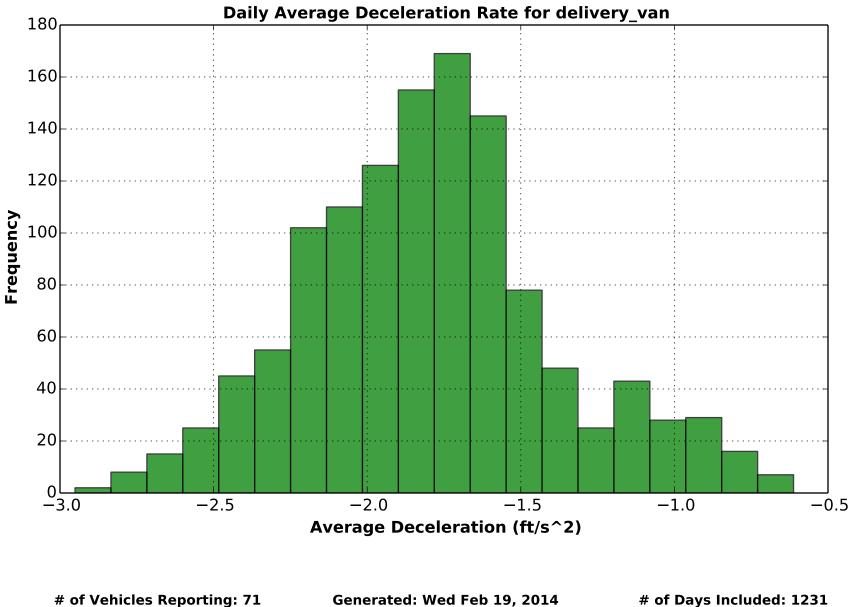


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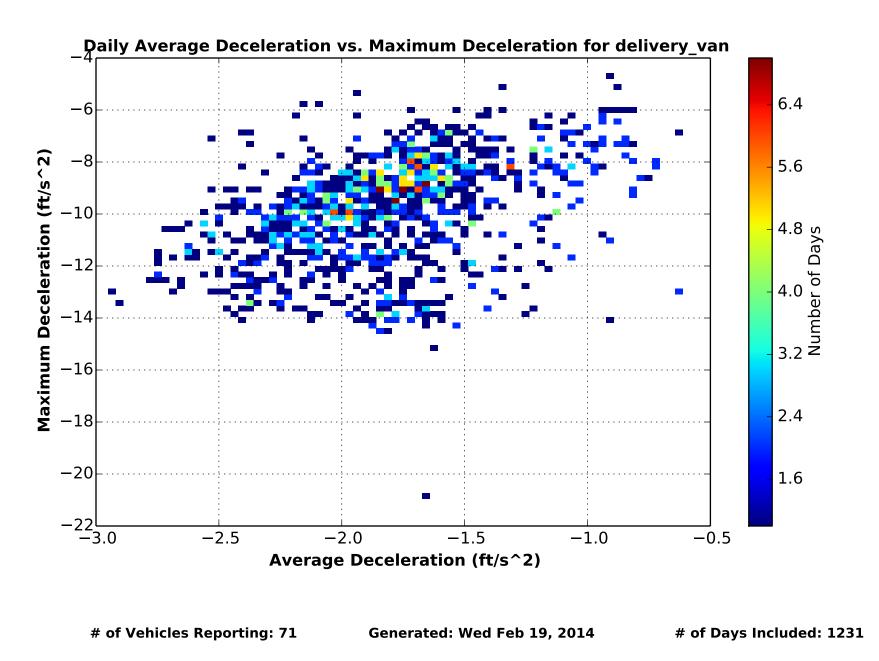




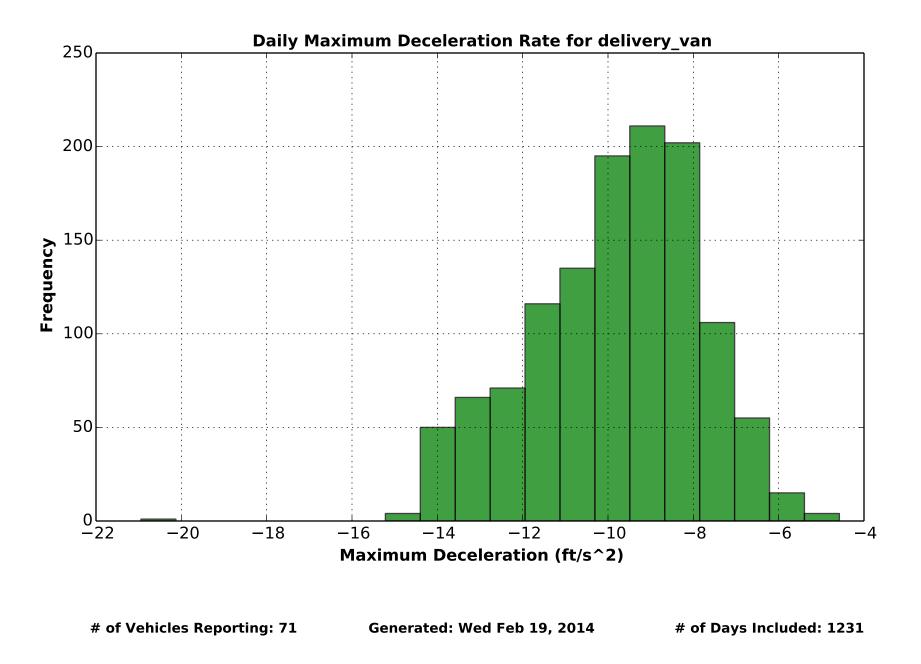
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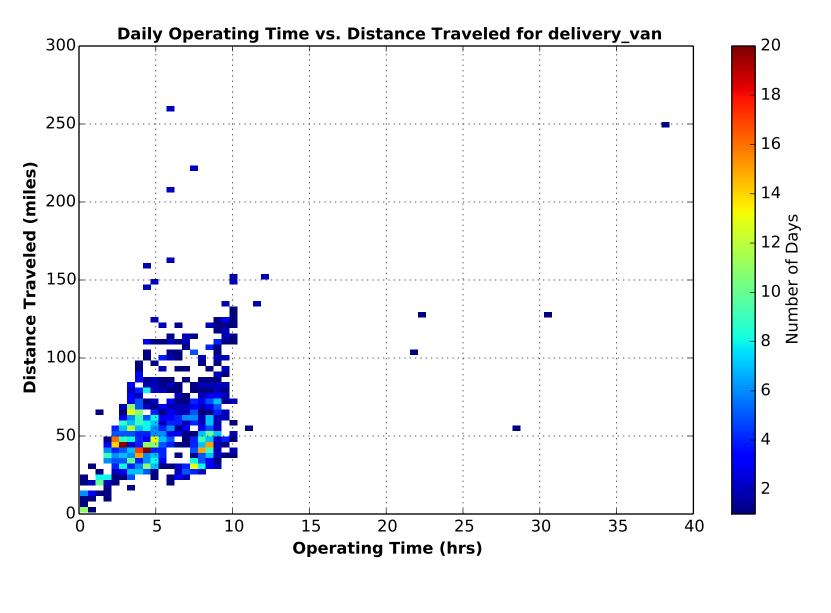


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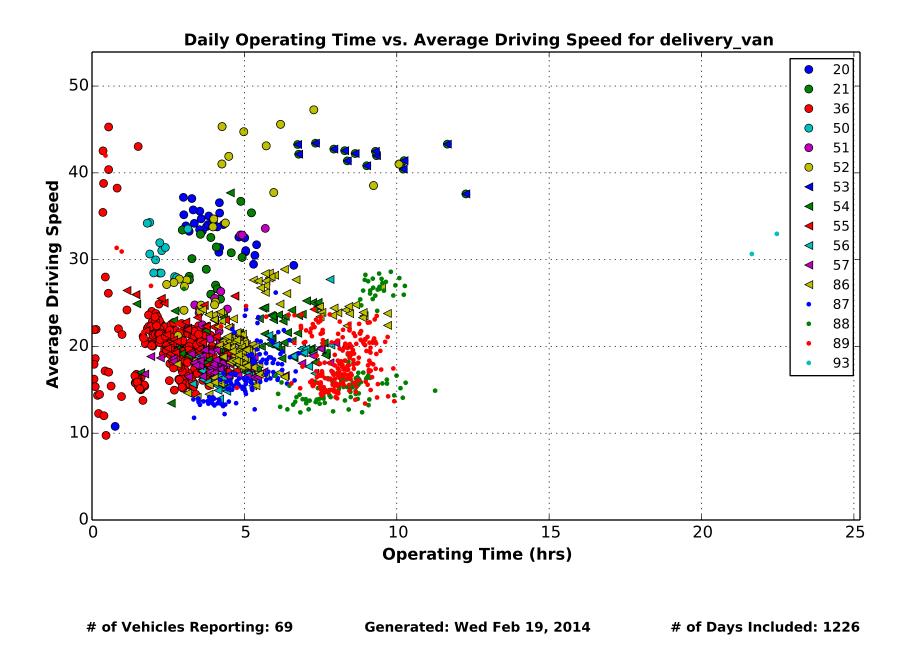


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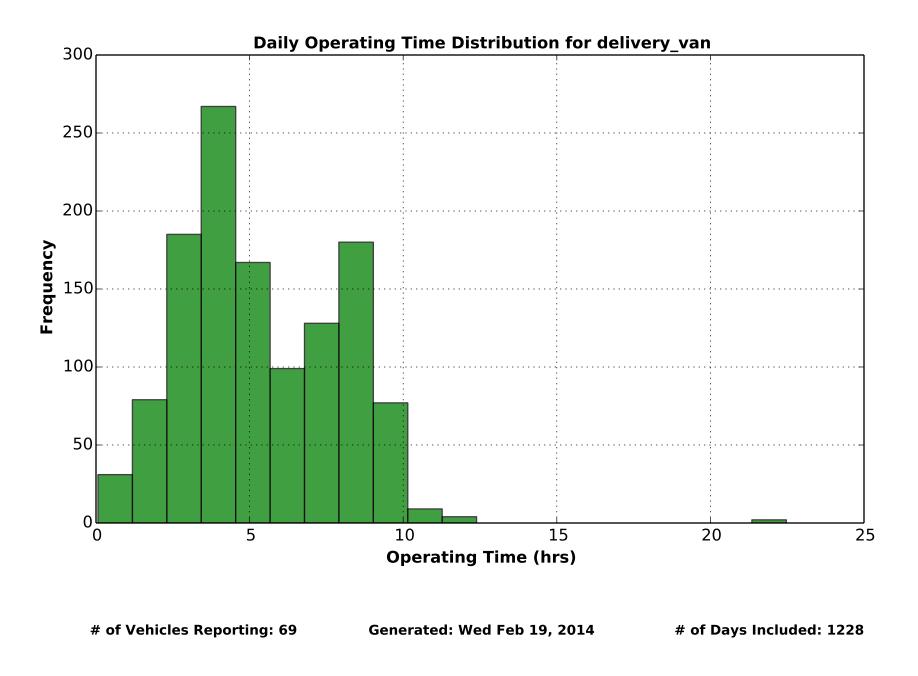


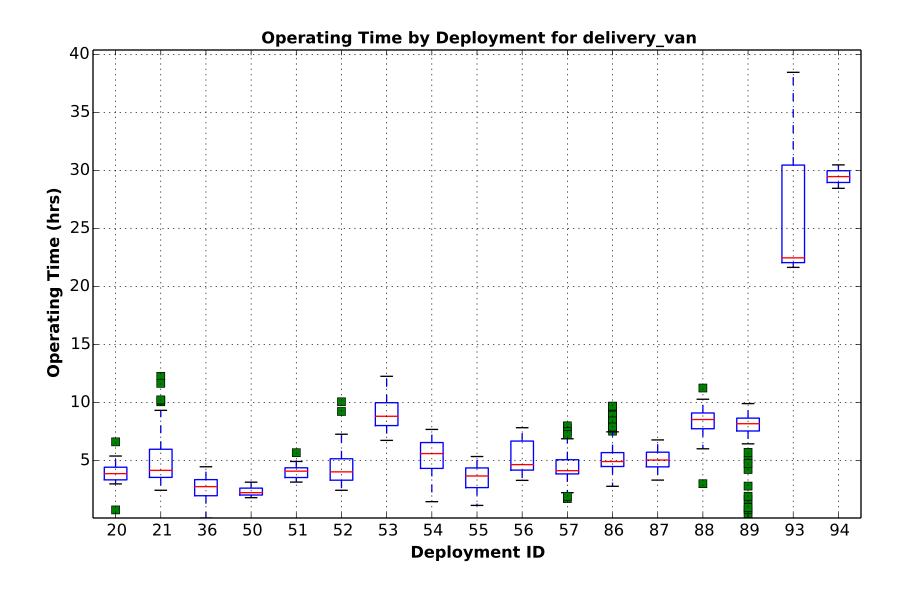


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The statistical summaries presented in this report were generated with the support of a variety of organizations. It is through the continued support of these partner organizations that Fleet DNA continues to grow.

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

> Kevin Walkowicz 303.275.4492 <u>Kevin.Walkowicz@nrel.gov</u> www.nrel.gov/fleetdna