

**SPR-821: DEVELOP NEW METHODS TO USE ODOT WEIGH-IN-MOTION DATA
FOR PREDICTING FREIGHT FLOW AND/OR COMMODITY PATTERNS**

Summary of Driving Distance by WIM Station

by

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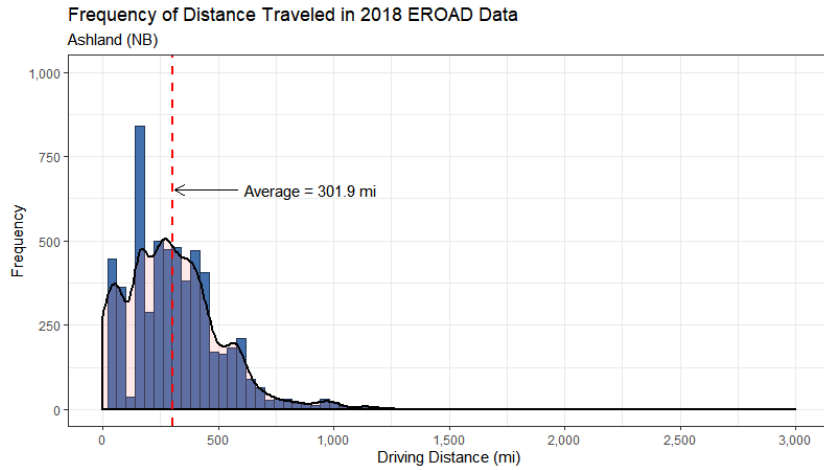
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DRIVING DISTRIBUTION BY WIM STATION

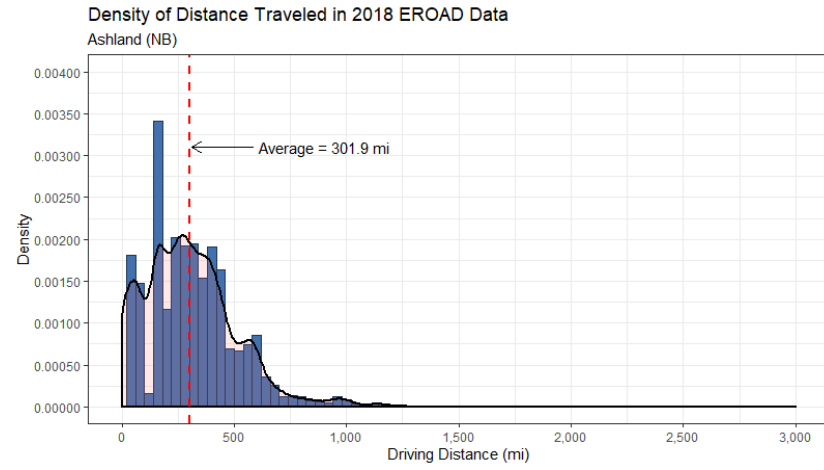
Utilizing the Google Maps API, the geographic coordinates of each county seat (i.e., latitude and longitude values) were used to determine the driving distance between origins and destinations.

The plots shown here present the distribution of driving distances by (a) frequency and (b) density. In addition, empirical cumulative distribution functions were computed. On the empirical cumulative distribution function plots, the 25th percentile, median, 75th percentile, and 95th percentile driving distances are specified.

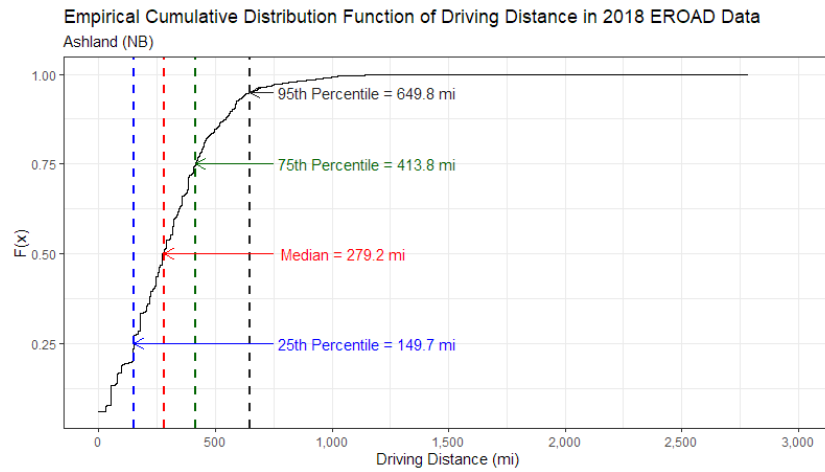
Ashland WIM Stations



(a)

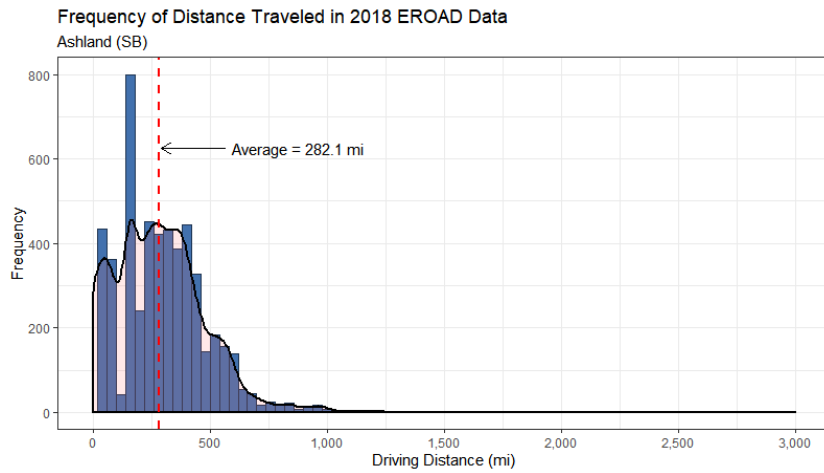


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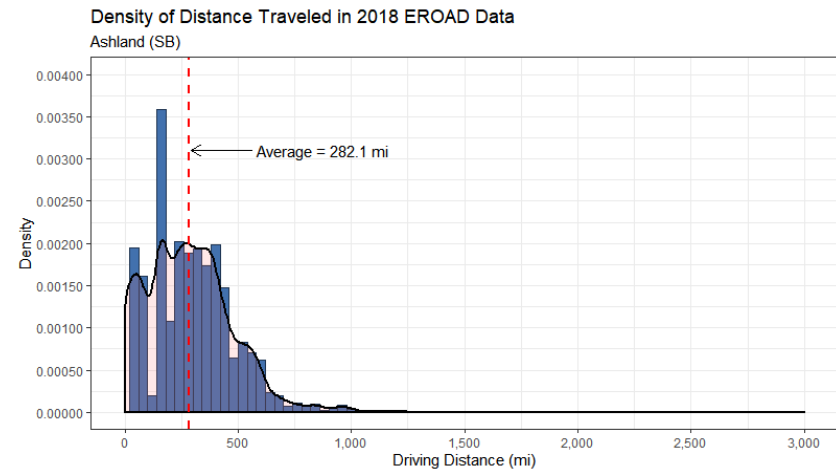


(c)

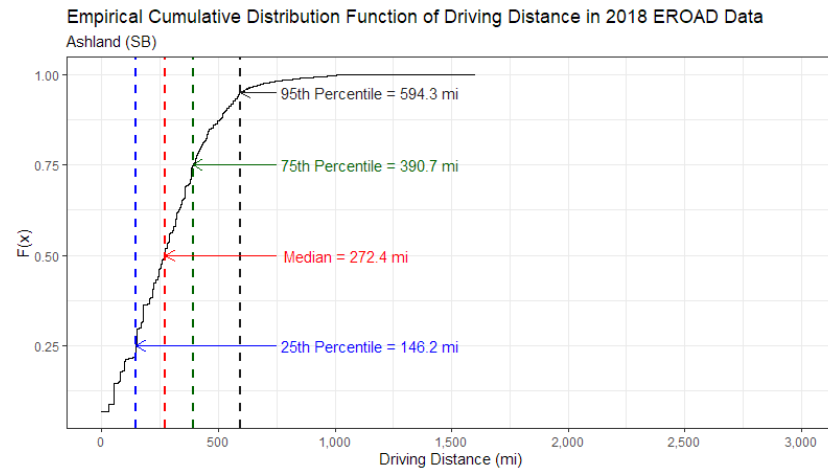
Figure 1: (a) Count Distribution, (b) Density, and (c) Empirical CDF of Driving Distance at Ashland (NB) WIM Station



(a)



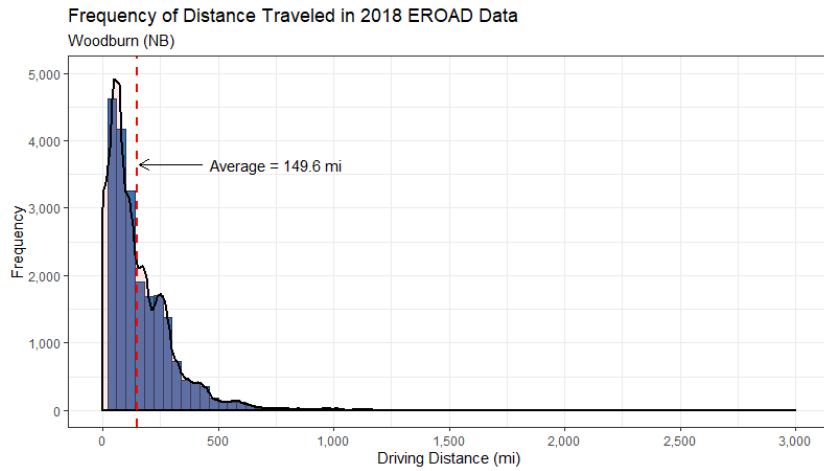
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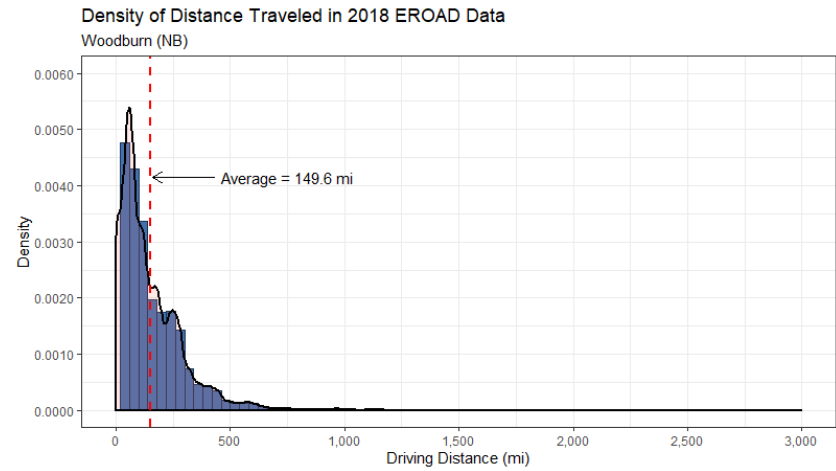
(c)

Figure 2: (a) Count Distribution, (b) Density, and (c) Empirical CDF of Driving Distance at Ashland (SB) WIM Station

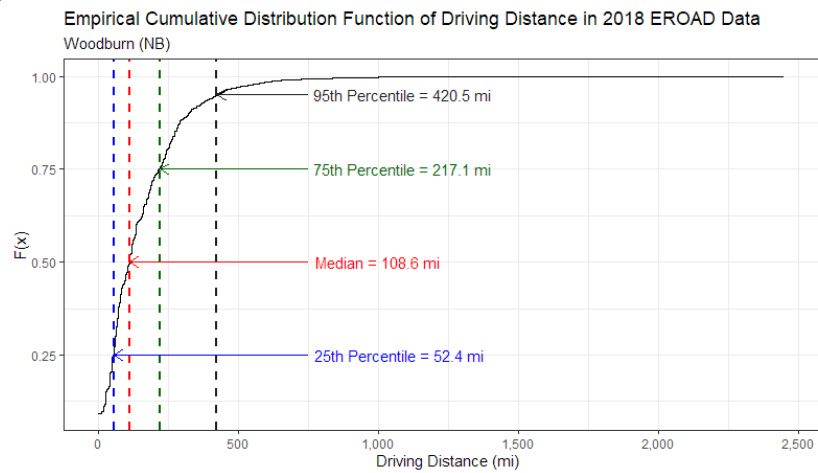
Woodburn WIM Stations



(a)

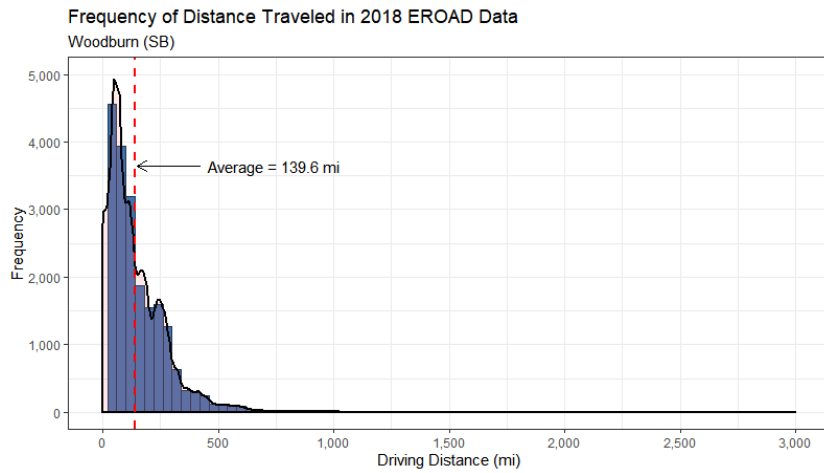


(b)

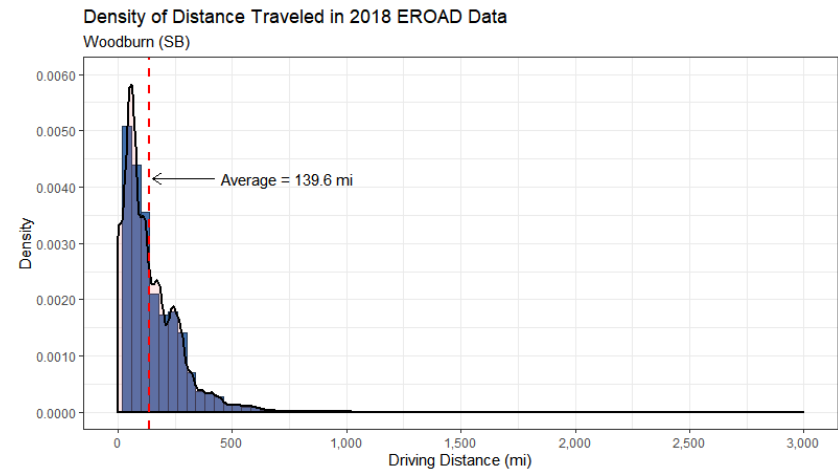


(c)

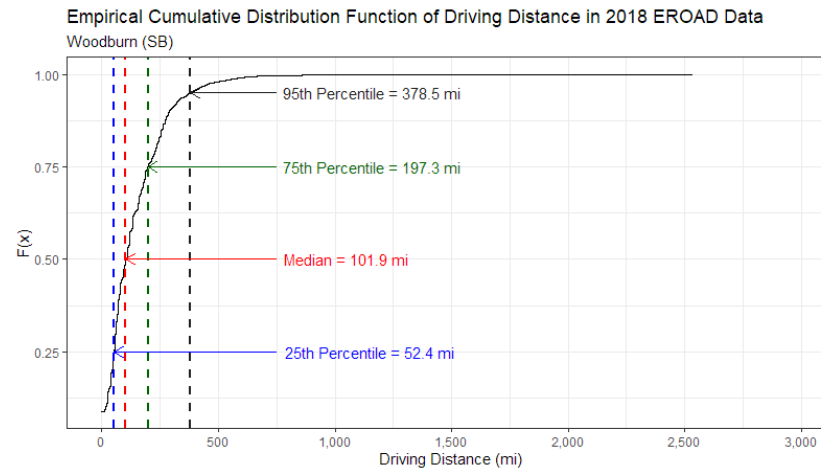
Figure 3: (a) Count Distribution, (b) Density, and (c) Empirical CDF of Driving Distance at Woodburn (NB) WIM Station



(a)



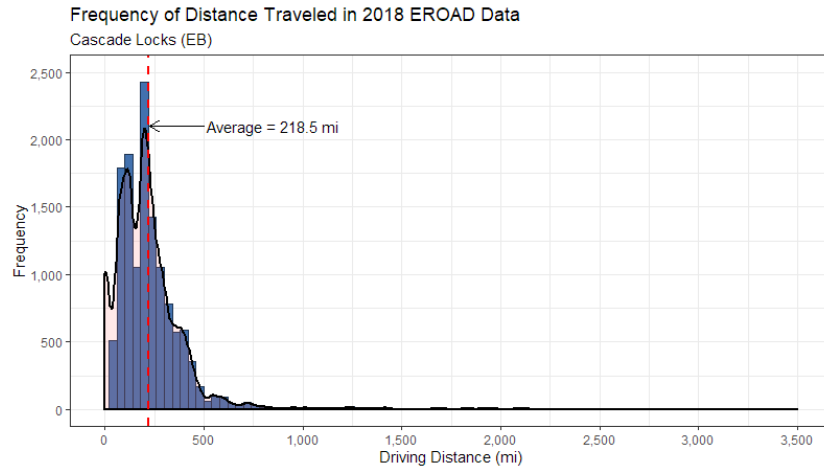
(b)



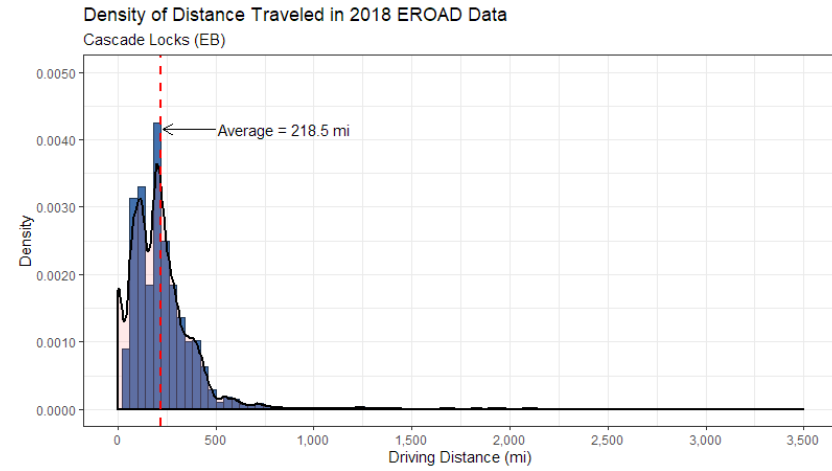
(c)

Figure 4: (a) Count Distribution, (b) Density, and (c) Empirical CDF of Driving Distance at Woodburn (SB) WIM Station

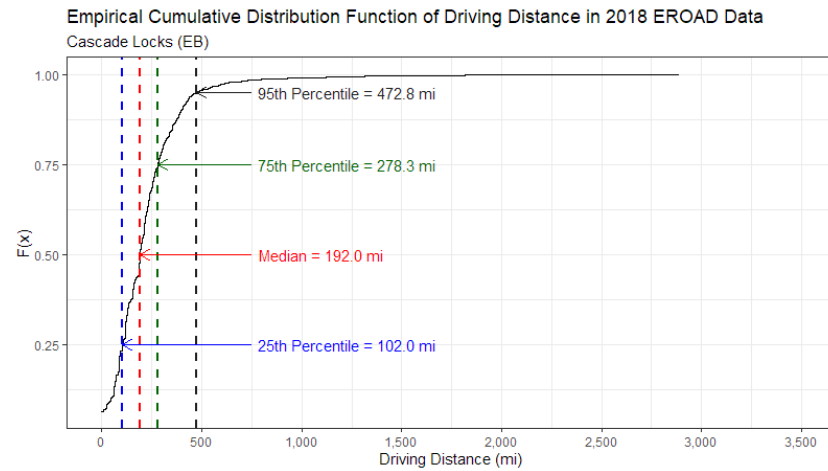
Cascade Locks (EB) and Wyeth (WB) WIM Stations



(a)

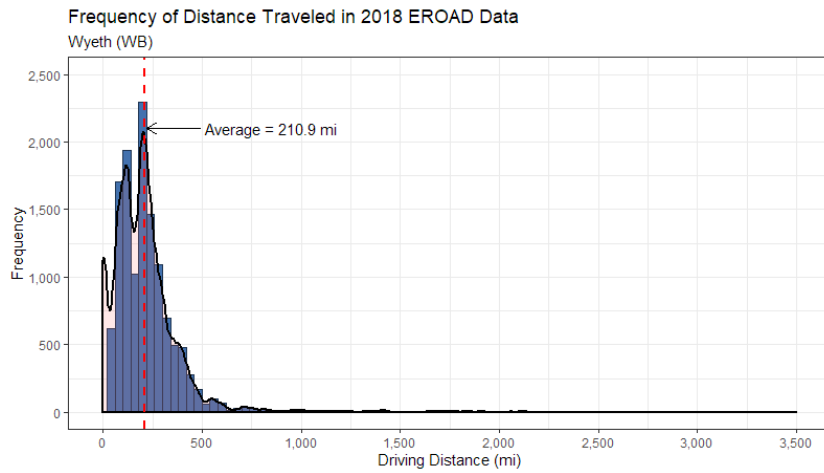


(b)

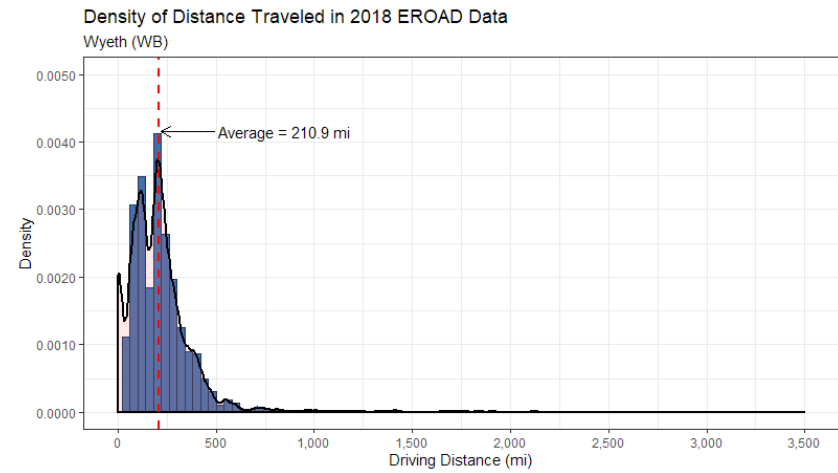


(c)

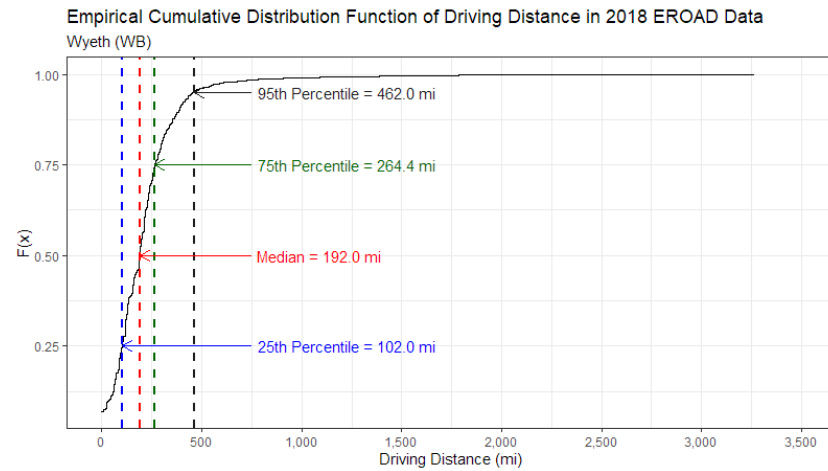
Figure 5: (a) Count Distribution, (b) Density, and (c) Empirical CDF of Driving Distance at Cascade Locks (EB) WIM Station



(a)



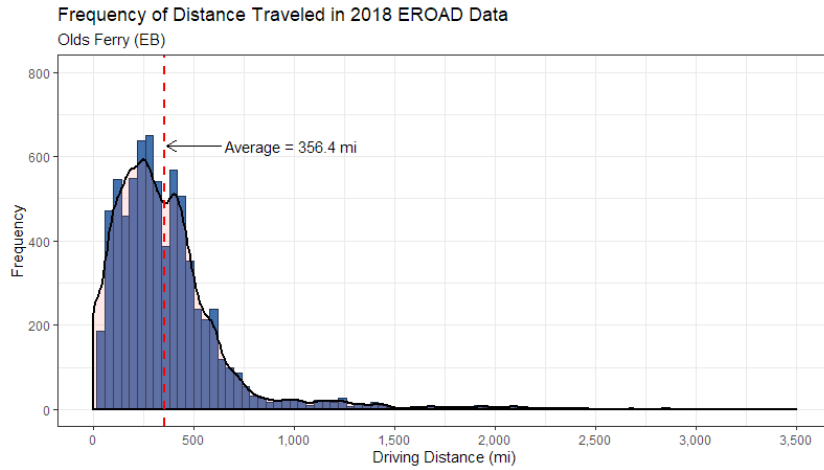
(b)



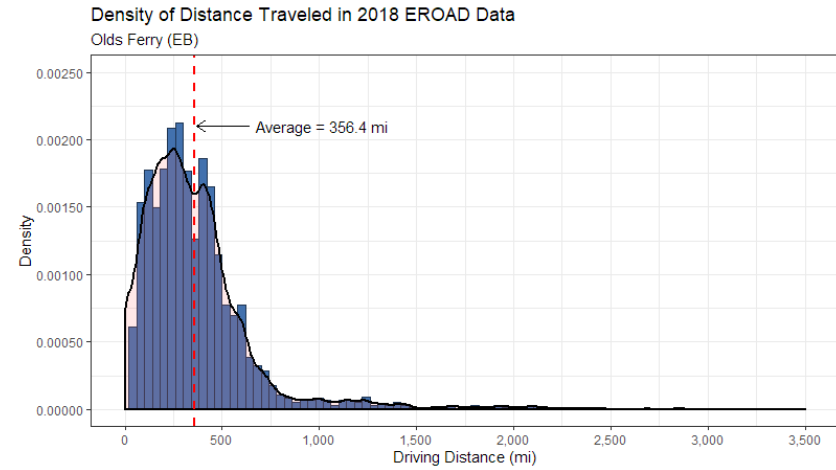
(c)

Figure 6: (a) Count Distribution, (b) Density, and (c) Empirical CDF of Driving Distance at Wyeth (WB) WIM Station

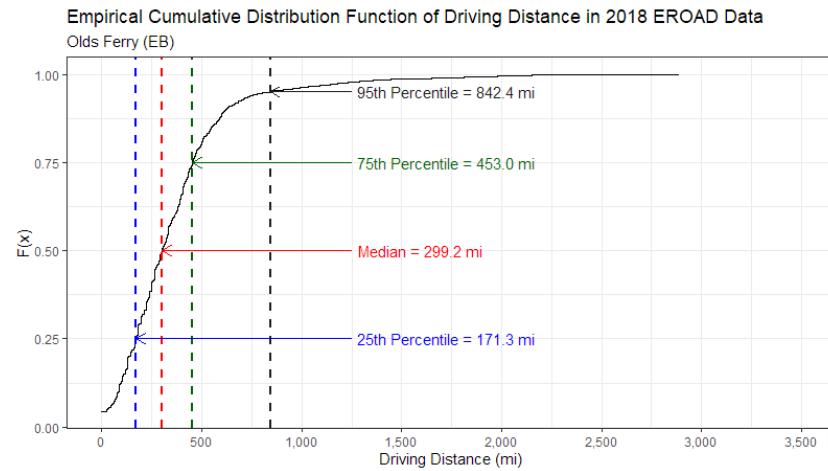
Olds Ferry (EB) and Farewell Bend (WB) WIM Stations



(a)

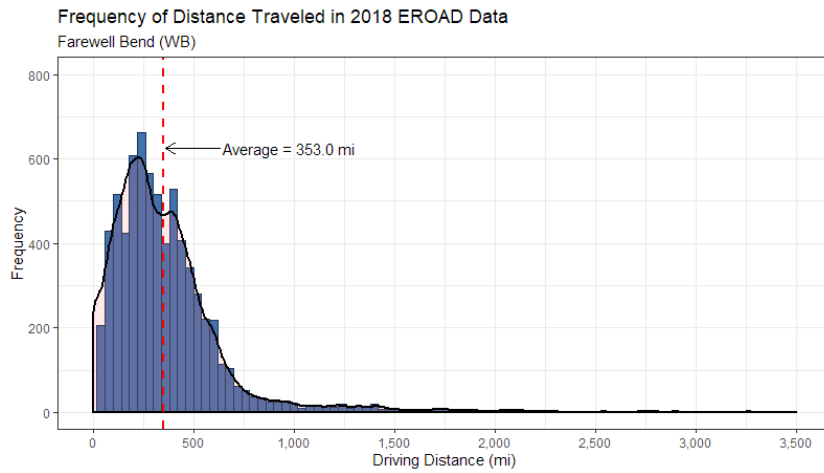


(b)

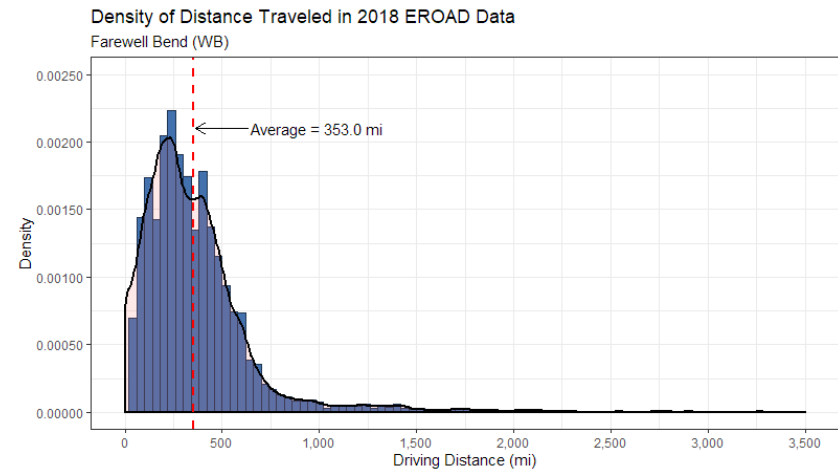


(c)

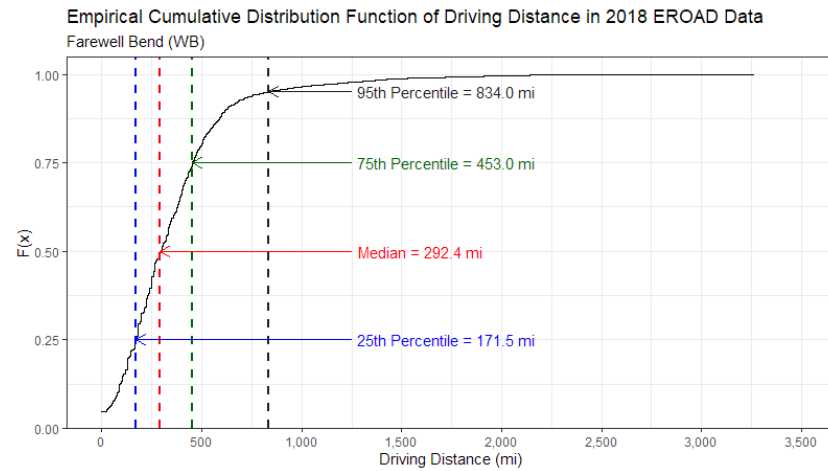
Figure 7: (a) Count Distribution, (b) Density, and (c) Empirical CDF of Driving Distance at Olds Ferry (EB) WIM Station



(a)



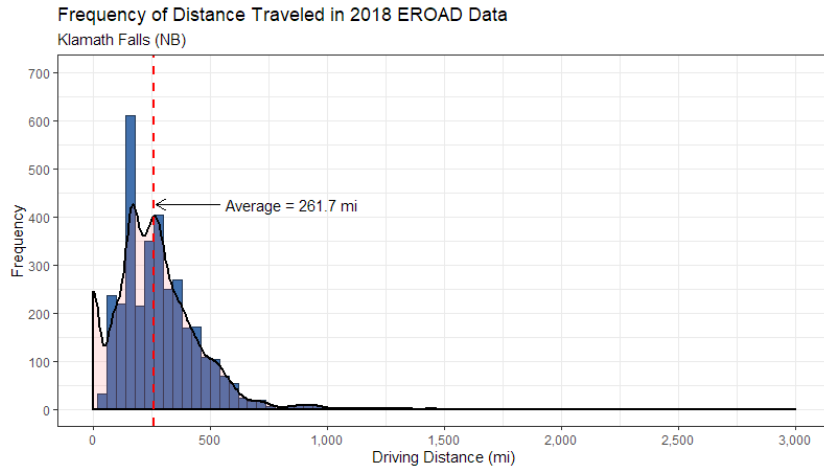
(b)



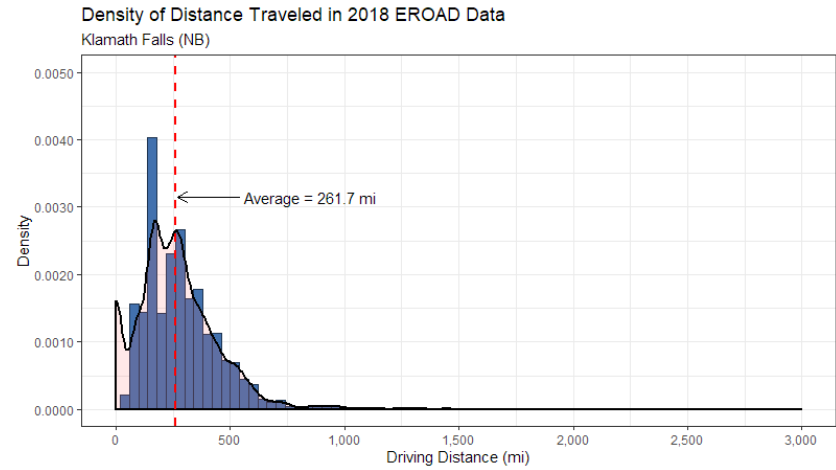
(c)

Figure 8: (a) Count Distribution, (b) Density, and (c) Empirical CDF of Driving Distance at Farewell Bend (WB) WIM Station

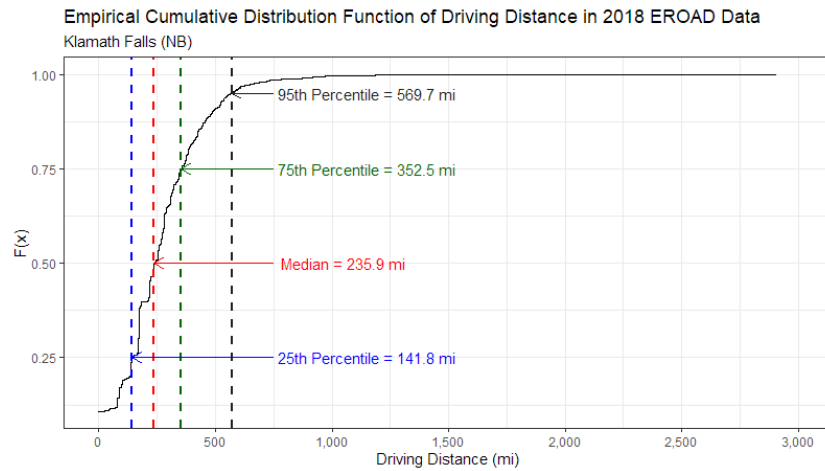
Klamath Falls WIM Stations



(a)

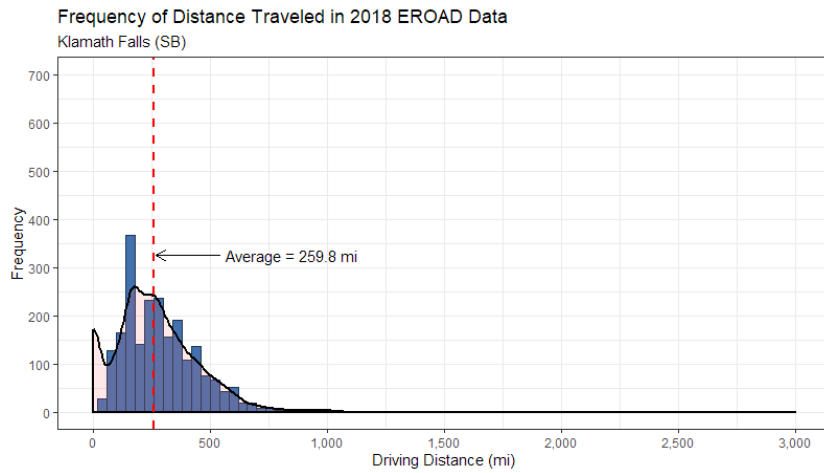


(b)

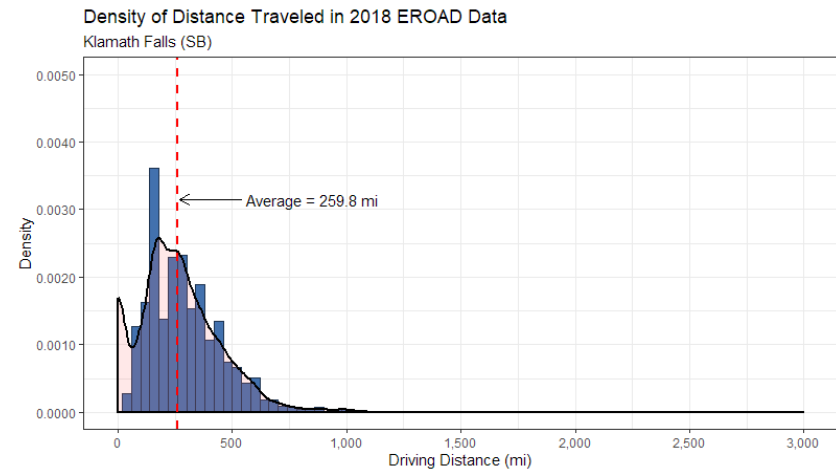


(c)

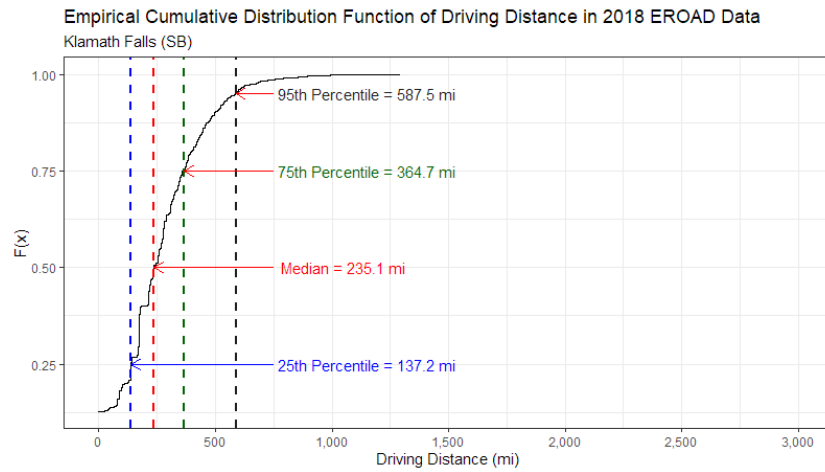
Figure 9: (a) Count Distribution, (b) Density, and (c) Empirical CDF of Driving Distance at Klamath Falls (NB) WIM Station



(a)



(b)



(c)

Figure 10: (a) Count Distribution, (b) Density, and (c) Empirical CDF of Driving Distance at Klamath Falls (SB) WIM Station