

## Quality Assurance of Teralytics Studio

Quality assurance is an integral part of the Teralytics product creation process. When traffic volumes and trips are updated in Teralytics Studio, validation reports are automatically created to ensure quality goals are achieved. Validation is completed for every area of the USA using local and national data sources such as traffic counts and travel survey data. Quality review and validation are completed across multiple dimensions, including:

### Trip Production Rates

The average number of trips made by each person or household.

Trip purpose	Trips per person	Trips per household
HBW	0.43	1.15
HBO	1.86	5.0
NHB	1.27	3.42
<b>Total</b>	<b>3.56</b>	<b>9.57</b>

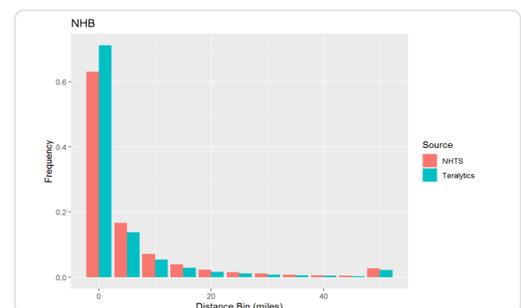
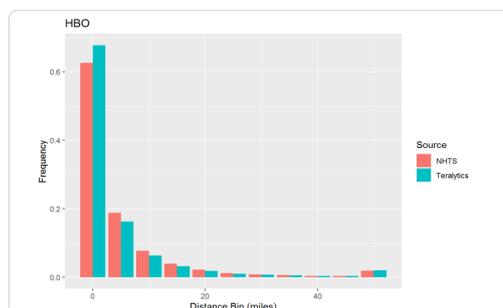
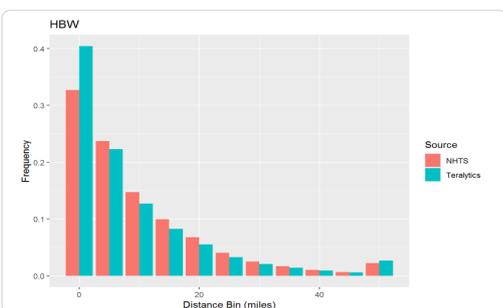
### Trip Purpose Shares

Share of trips by trip purpose

Trip purpose	Teralytics	NHTS
HBW	0.12	0.14
HBO	0.52	0.54
NHB	0.36	0.32

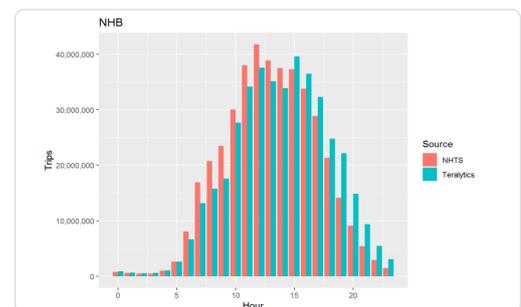
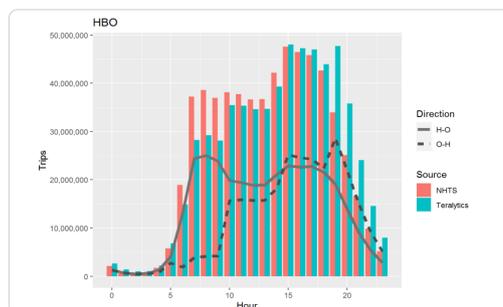
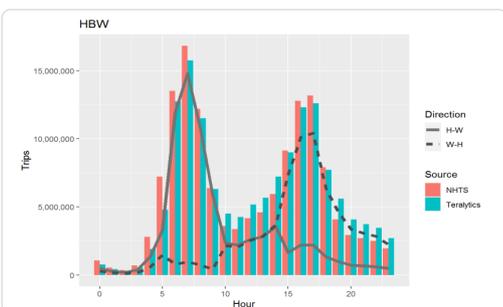
### Trip Length Distributions

The share of trips falling into trip distance ranges



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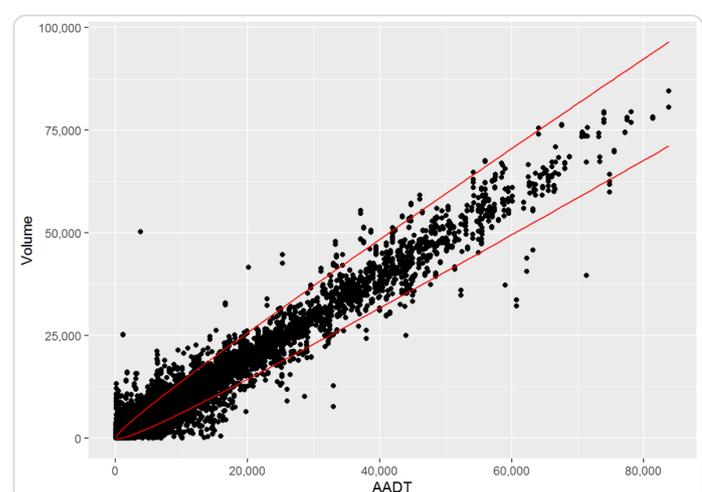
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### Traffic volumes vs. observed traffic counts

The number of vehicles compared to traffic counts collected by state transportation departments, other government agencies, or other sources.

**How is the target obtained?** Targets are primarily estimated from household travel surveys, including the National Household Travel Survey, and federally sponsored travel reports, such as those published by the National Cooperative Highway Research Program (NCHRP).



HBW: home-based work. HBO: home-based other. NHB: non home-based