Analysis of Bus Collision Incidents Using Data Driven Tools in Developing and Building a Safety First Culture



Presented by Harold Wyatt

May 21, 2019

Overview

Rate Calculation

Data Review

Observations

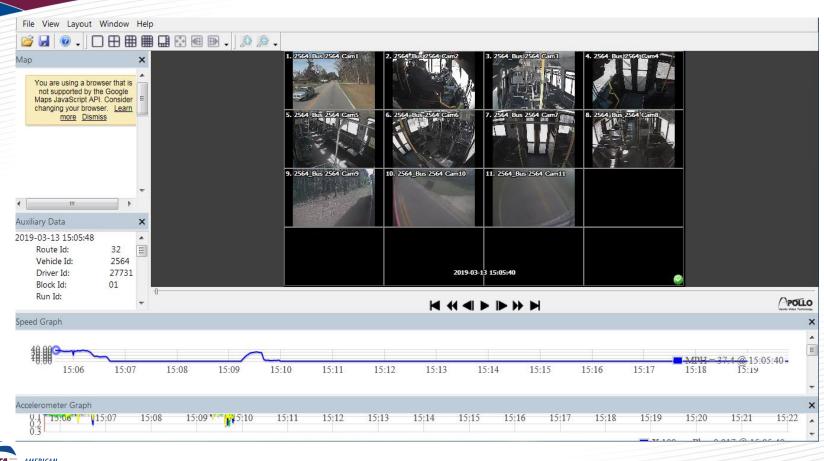
Next Steps





Bus Accident March 2019





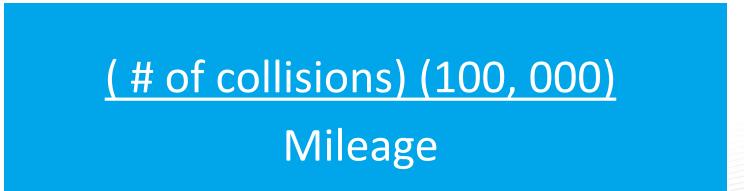


TRANSPORTATION ASSOCIATION

TITLE OF PRESENTATION 1 4

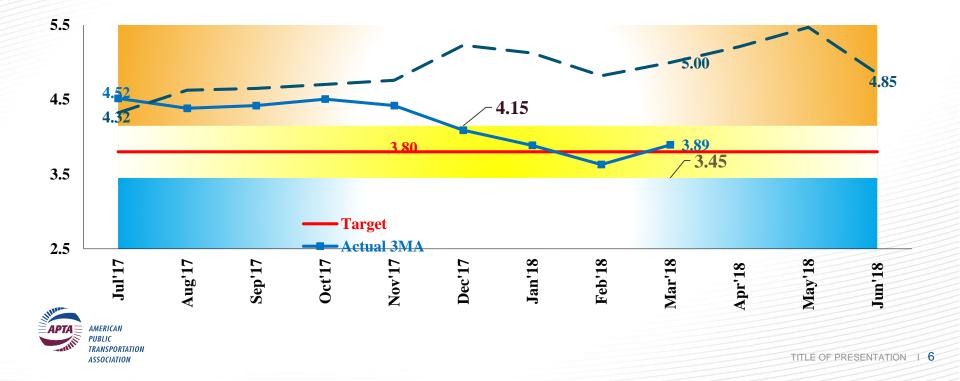
Bus Collision Rate

Measured as the number of collisions involving bus service per 100,000 miles.



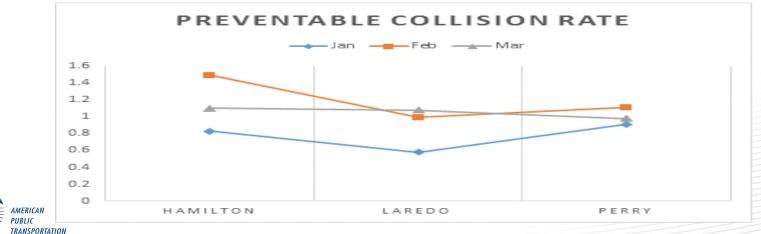


Bus Collisions per 100K Miles measured as the number of collisions involving bus service per 100,000 hub miles.



Preventable Bus Collision Rate Per 100,00 Miles

	Hamilton	Laredo	Perry
Jan	.83	.58	.91
Feb	1.49	.99	1.11
March	1.1	1.08	.98



ASSOCIATION

TITLE OF PRESENTATION 1 7

October 2018 to December 2018 total collisions = 325

Total Bus Collison Rate = 4.6

Non-Preventable Bus Collision Rate = 2.72 Preventable Bus Collision Rate = 1.44

January 2019 to March 2019 total collisions = 279

Total Bus Collision Rate = 4.04 Non-Preventable Bus Collision Rate = 1.98 Preventable Bus Collision Rate = 1.36



COLLISION REVIEW





What a Collision Costs

July 2016 to June 2017

981 Claims Average Total Paid = \$1600

Average Maintenance Cost = \$5300

July 2017 to June 2018

Average Maintenance Cost = \$4683



Field Observations

Rule Violations use of Defensive Driving techniques

Inconsistent

Distracted Driving

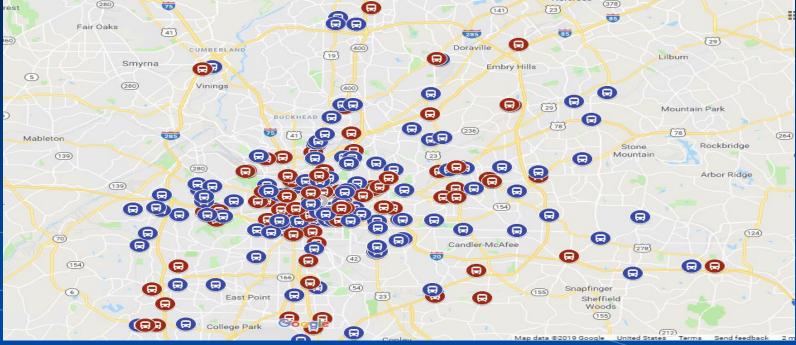
Scheduling Issues

Route Issues



Collision Mapping

(Preventable/Non-Preventable Collisions)





Corrective Action Plan

Continue coaching sessions and evaluations with operators

evaluations with operators Collision reduction committee

Route Hazard Analysis observations of top five accident routes

Hiring Criteria Line Instructor Re-Certification

Strategic radar and line observation checks Safety Modules incorporated into training Mentoring Program Operator Safety Recognition



Weekly contact with operators to deliver safety messages/coaching Route Analyses/Ride Checks

Surveys are performed (Revamped Survey form in Survey Monkey)

Progress in FY19

Establishing of additional Safety Committees, addressing Safety First Concerns, and HEAT <u>tickets</u> Collision mapping is being utilized to identify where to perform line observations and hotspots



Questions?

