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# Safety Performance Target Setting

January 25, 2021





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# Traffic Safety

DATE

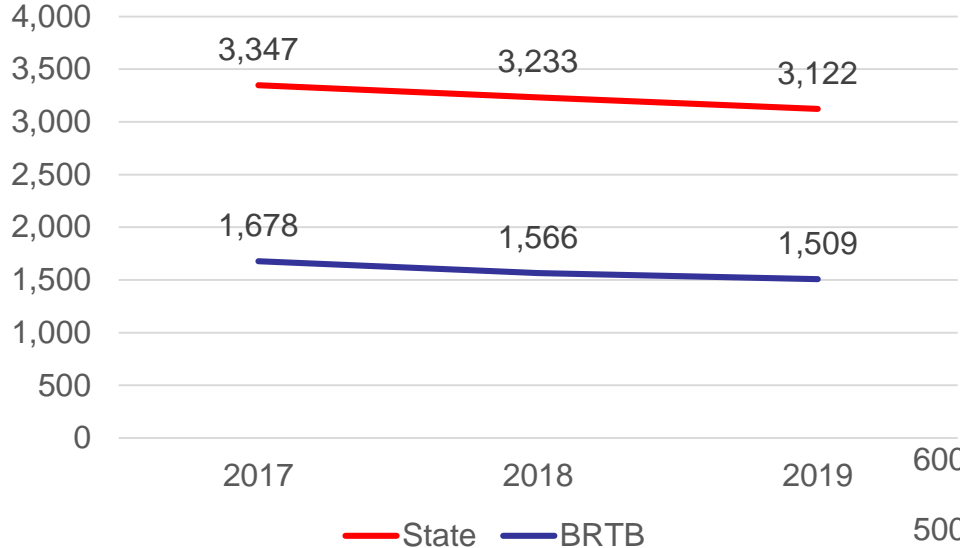
# Safety in the Baltimore Region

	2017-2019 average
<b>BRTB</b>	
Crashes	61,546
Serious Injuries	1,584
All Injuries	25,892
Fatalities	222
<b>State</b>	
Crashes	116,457
Serious Injuries	3,234
All Injuries	50,017
Fatalities	535

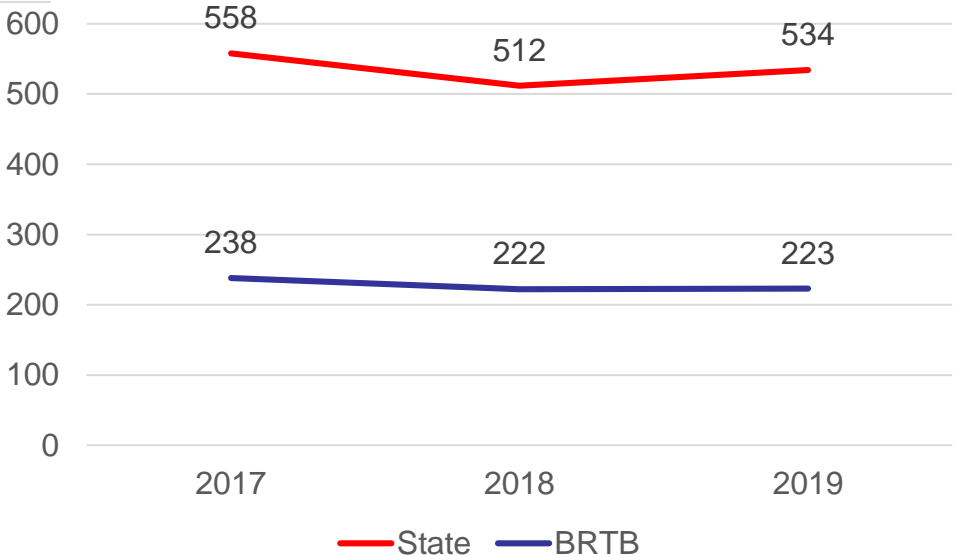
2017-2019 Percent Change		
	BRTB	State
Crashes	-1.5%	0.4%
Serious Injuries	-10.1%	-6.7%
All Injuries	-4.1%	-5.3%
Fatalities	-13.0%	-4.3%

# Safety in the Baltimore Region

## Serious Injuries

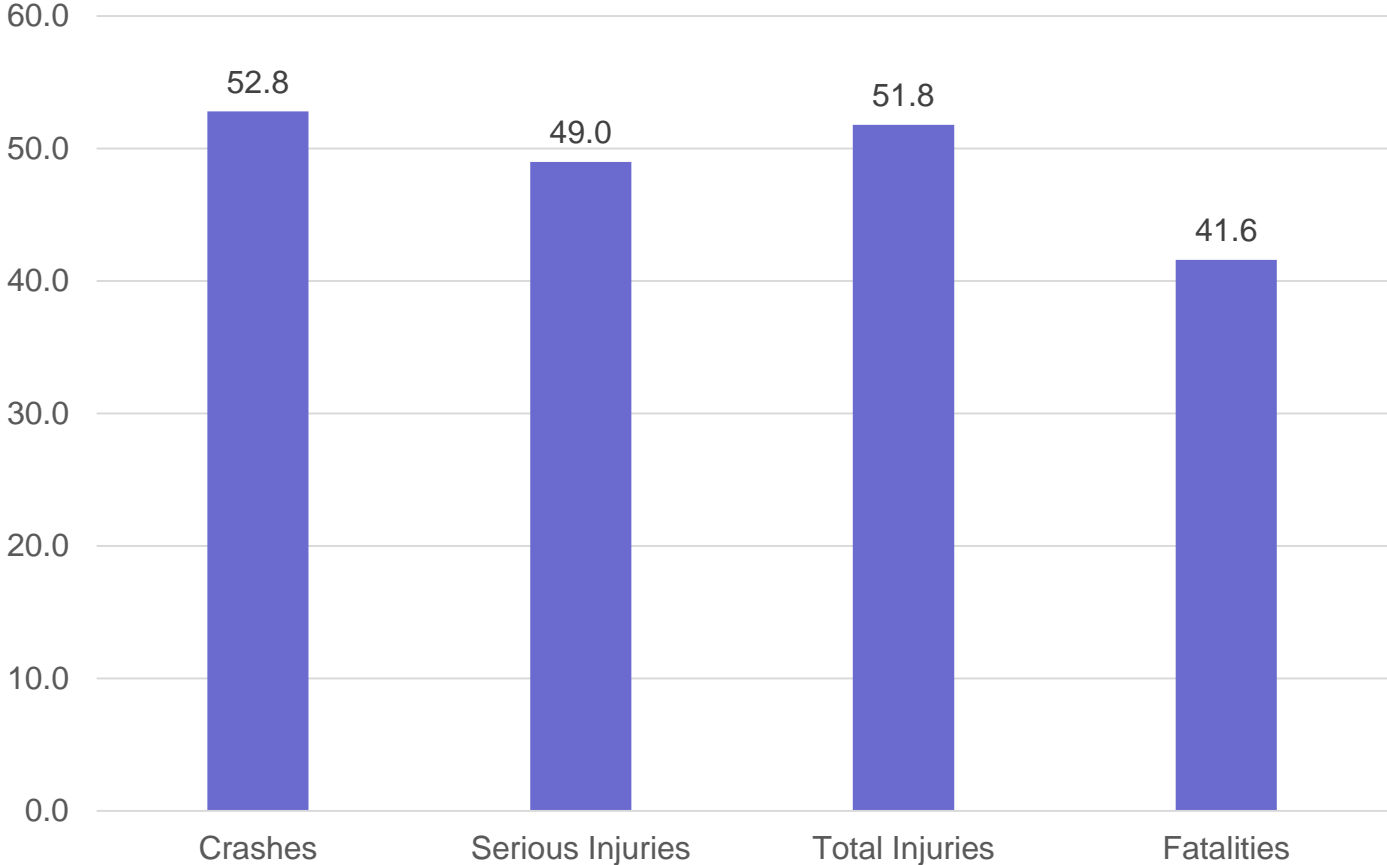


## Fatalities



# BRTB % of State

2017-2019 average



# Baltimore Region Summary

<b><u>Total</u></b>	<b>2019</b>	<b>% of Region</b>
Total Crashes	60,648	
Total of All Fatalities	207	
Total Number Injured	25,289	

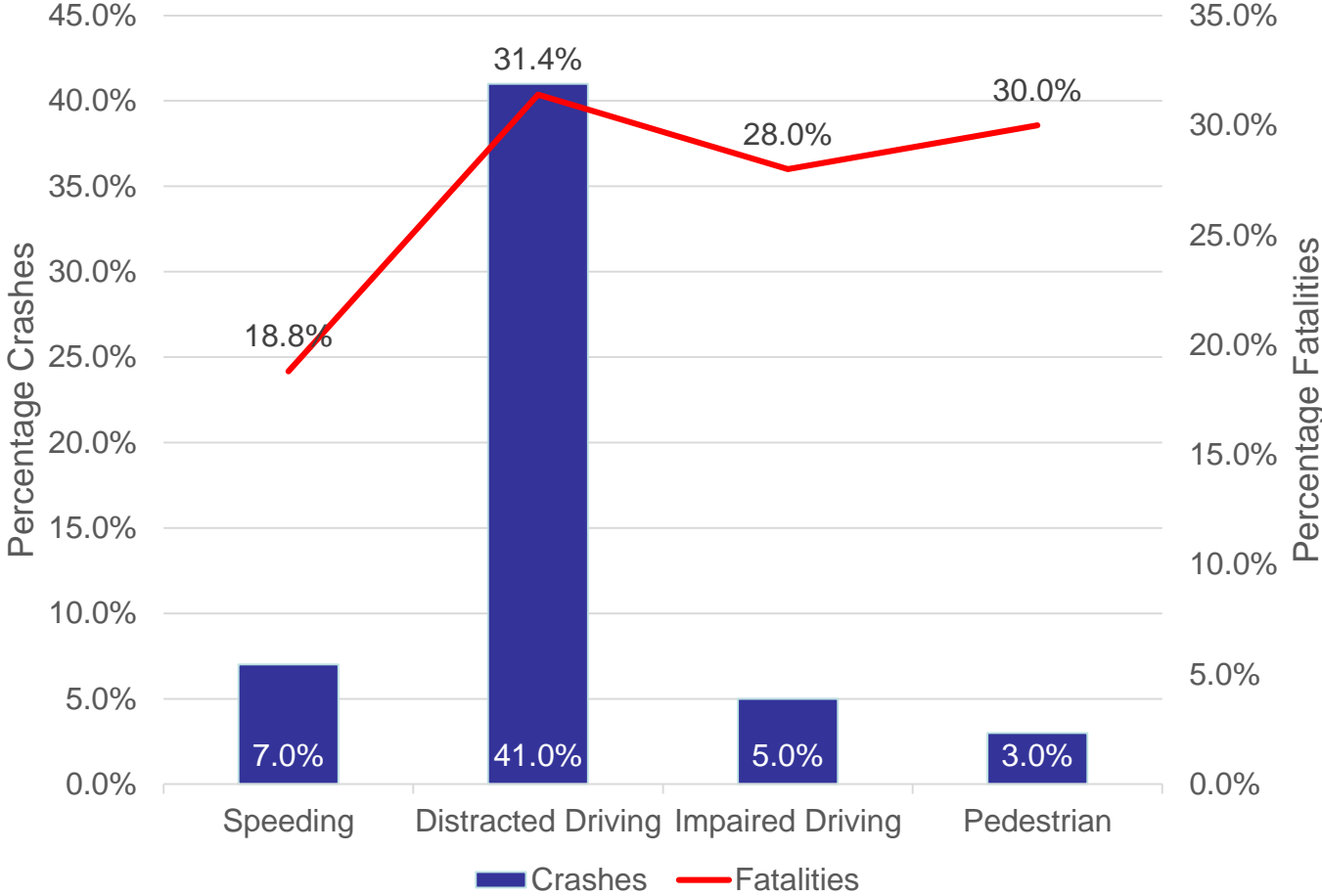
<b><u>Speed</u></b>		
Total Crashes	4,234	7.0%
Total of All Fatalities	39	18.8%
Total Number Injured	1,759	7.0%

<b><u>Distracted</u></b>		
Total Crashes	24,896	41.0%
Total of All Fatalities	65	31.4%
Total Number Injured	11,565	45.7%

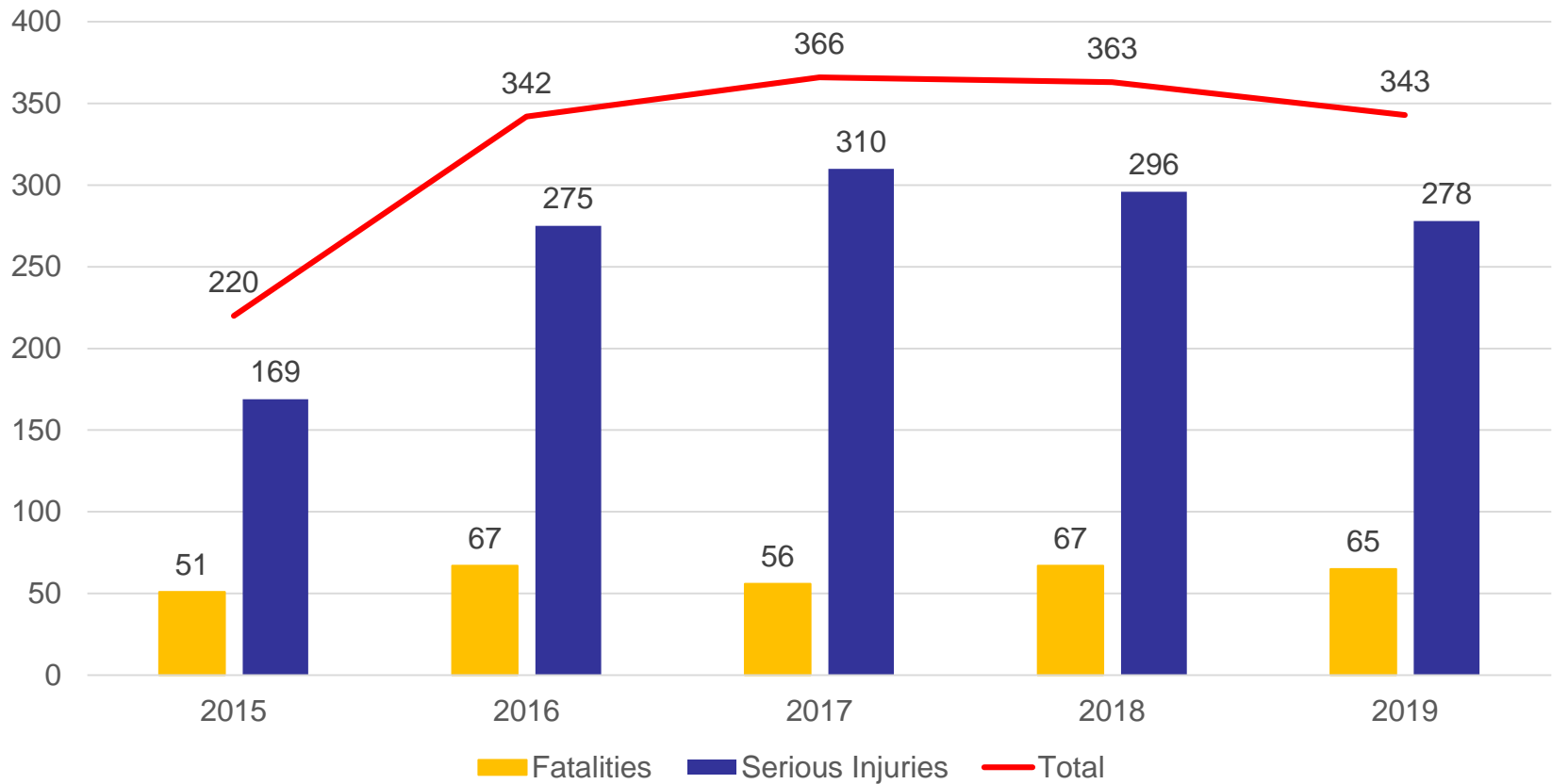
<b><u>Impaired</u></b>	<b>2019</b>	<b>% of Region</b>
Total Crashes	3,016	5.0%
Total of All Fatalities	58	28.0%
Total Number Injured	1,470	5.8%

<b><u>Pedestrian</u></b>		
Total Crashes	1,838	3.0%
Total of All Fatalities	61	29.5%
Total Number Injured	1,835	7.3%

# Baltimore Region Summary - 2019



# Non-motorized Serious Injuries and Fatalities (BRTB region)





# Safety Performance Targets

- Federal regulations state that MPOs must set safety performance targets 180 days after the State HSIP Report is submitted.
- Initial BRTB safety targets set in January 2018 and updated in January 2019 and 2020.

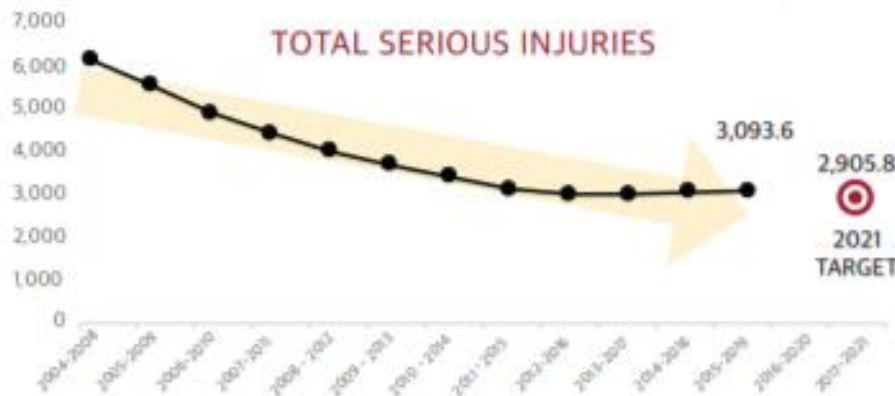
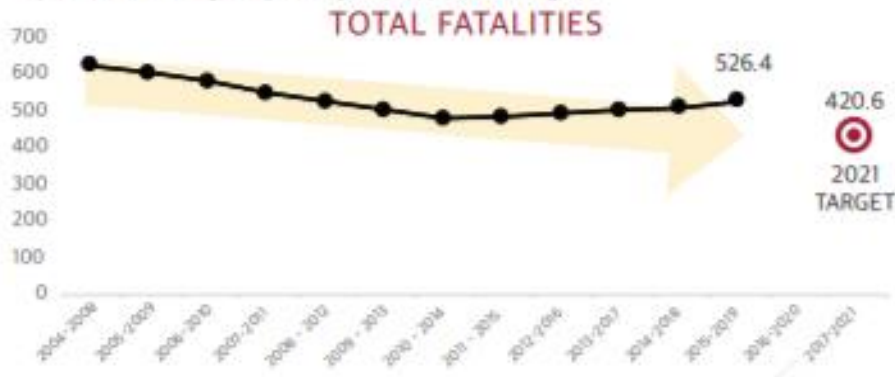
# BRTB Target-Setting Process



- **Follow Maryland's methodology - Toward Zero Deaths**
  - Reduce by 50% from 2008 → 2030
- **Set the five targets specific to the BRTB region**
- **Updated targets to be approved no later than February 28, 2021**
  - Incorporate new year of data into five-year rolling averages
  - Adjust exponential trend line with same fixed end point

## TPM 1: SAFETY

In support of Maryland's "Toward Zero Deaths" goal to halve fatalities and serious injuries by 2030, MDOT applies an exponential trend analysis to the five-year rolling averages to establish safety targets, as documented in the Maryland Strategic Highway Safety Plan 2016-2020. Targets are updated annually and reported in the Highway Safety Improvement Program.



November 2020

**MDOT** MARYLAND DEPARTMENT OF TRANSPORTATION

# Resolution #21-13

## Baltimore Region Yearly Highway Safety Targets

Performance Measure	2008 Baseline	2018 Actual	2019 Actual	Change 2018-2019	2017-2021 Target	2030 TZD Goal
Number of Fatalities	242	223	207	↓ 7.17%	179	121
Number of Serious Injuries	1,868	1,566	1,509	↓ 3.64%	1,203	934
Fatality Rate per 100 Million VMT	0.93	0.81	0.74	↓ 8.64%	0.68	0.47
Serious Injury Rate per 100 Million VMT	7.21	5.66	5.42	↓ 4.24%	4.55	3.60
Number of Non-motorized Fatalities & Serious Injuries	286	363	343	↓ 5.51%	223*	143

*\*Based on the methodology this target would be 227. However, the recommendation is to keep the lower target from Resolution #20-10 of 223.*

Sources: Maryland State Police crash database, MDOT MVA Highway Safety Office Benchmark Reports, MDOT SHA Mileage Reports

# BRTB Strategies

- What have we done?
  - Have incorporated measures and targets into the Transportation Improvement Program (TIP) since May 2019
  - Complete Streets Policies in State and Jurisdictions
  - Congestion Management Process
  - Local Strategic Highway Safety Plans
    - Four to begin January 2021 (Baltimore, Carroll, Harford, Howard Counties)
  - Pedestrian/Bicycle Coordinators in Jurisdictions
  - Continuing Look Alive campaign
- New ideas?



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## Transit Safety

- Public Transportation Agency Safety Plan (PTASP)

*DATE*

# Transit Safety Performance Measures

- Federal regulations state that MPOs must set safety performance measures within 180 days after the State/agency PTASP is submitted.
- Fatalities – total and per Vehicle Revenue Miles (VRM)
- Injuries – total and per VRM
- Safety Events – total and per VRM
- System Reliability

# MDOT MTA Performance Measures and Targets

Mode of Transit Service	Fatalities	Fatalities (per 1M VRM)	Injuries	Injuries (per 1M VRM)	Safety Events	Safety Events (per 1M VRM)	System Reliability (VRM/Failures)
Local Bus	3	0.1	184	8.7	143	6.8	5,727
Light Rail	1	0.3	15	5.1	15	5.1	1,383
Metro Subway	1	0.2	37	8.1	38	8.3	2,820
Mobility	0	0.0	107	4.8	90	4.1	14,000
Commuter Bus	0	0.0	0	0.0	0	0.0	14,975

## Methodology

- For MDOT MTA, targets are largely set as a baseline compared to National Transit Database (NTD) reports from 2017-2019
- For the Locally Operated Transit Services (LOTS), targets are largely based on LOTS history over last three – five years
- Form 2a (submitted to MDOT MTA on a quarterly basis for NTD purposes) will be the source document for data



# BRTB Process



- Collaborate with MDOT MTA and regional LOTS
- Include measures provided by all LOTS
- Some information has not been collected historically, so initial figures will include estimates
- Annual tracking of measures

# Resolution #21-14

Performance Measure	Fatalities	Fatalities (per 1M VRM)	Injuries	Injuries (per 1M VRM)	Safety Events	Safety Events (per 1M VRM)	System Reliability (VRM/Failures)
<b>Annapolis Transit</b>							
Deviated Route	0	0	0	0	0	0	NA
Fixed Route	0	0	0	0	0.6	0.1	NA
<b>Baltimore Co</b>							39,614 miles between failures
Paratransit Bus	0	0	0	0	0	0	
<b>Carroll Transit</b>							
Deviated Route	0	0	1	0.15	15	2.30	>265,000
Fixed Route	0	0	1	0.53	5	2.66	>82,000
<b>Queen Anne's Co</b>							
Deviated Route	0	0	0	0	0	0	95%
Fixed Route	0	0	0	0	0	0	95%
<b>Anne Arundel OOT</b>							
Deviated Route	0	2	2	0	0	0	25,000
Fixed Route	0	1	1	0	0	0	75,000
<b>Harford Link</b>							
Deviated Route		0		0.25		<5	98%
Fixed Route		0		1		>10	98%
Deviated Fixed Route		0		0.5		0	98%
<b>Charm City Circulator</b>							5,000 miles between breakdowns
Fixed Route MB	0	0	0	0	4 or fewer	1.0	
<b>RTA</b>							Miles bw failures
Howard MB	0	0	20	1.5	20	1.5	6,000
Howard DR	0	0	3	0.25	5	0.40	6,000
Howard DT	0	0	0	0	0	0	0

# For More Information

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**Cindy Burch** | **Transportation Planner - Safety**

410-732-0500 x 1051 | [cburch@baltometro.org](mailto:cburch@baltometro.org) | [www.baltometro.org](http://www.baltometro.org)



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