



Safety Performance Target Setting

Baltimore Regional Transportation Board Meeting

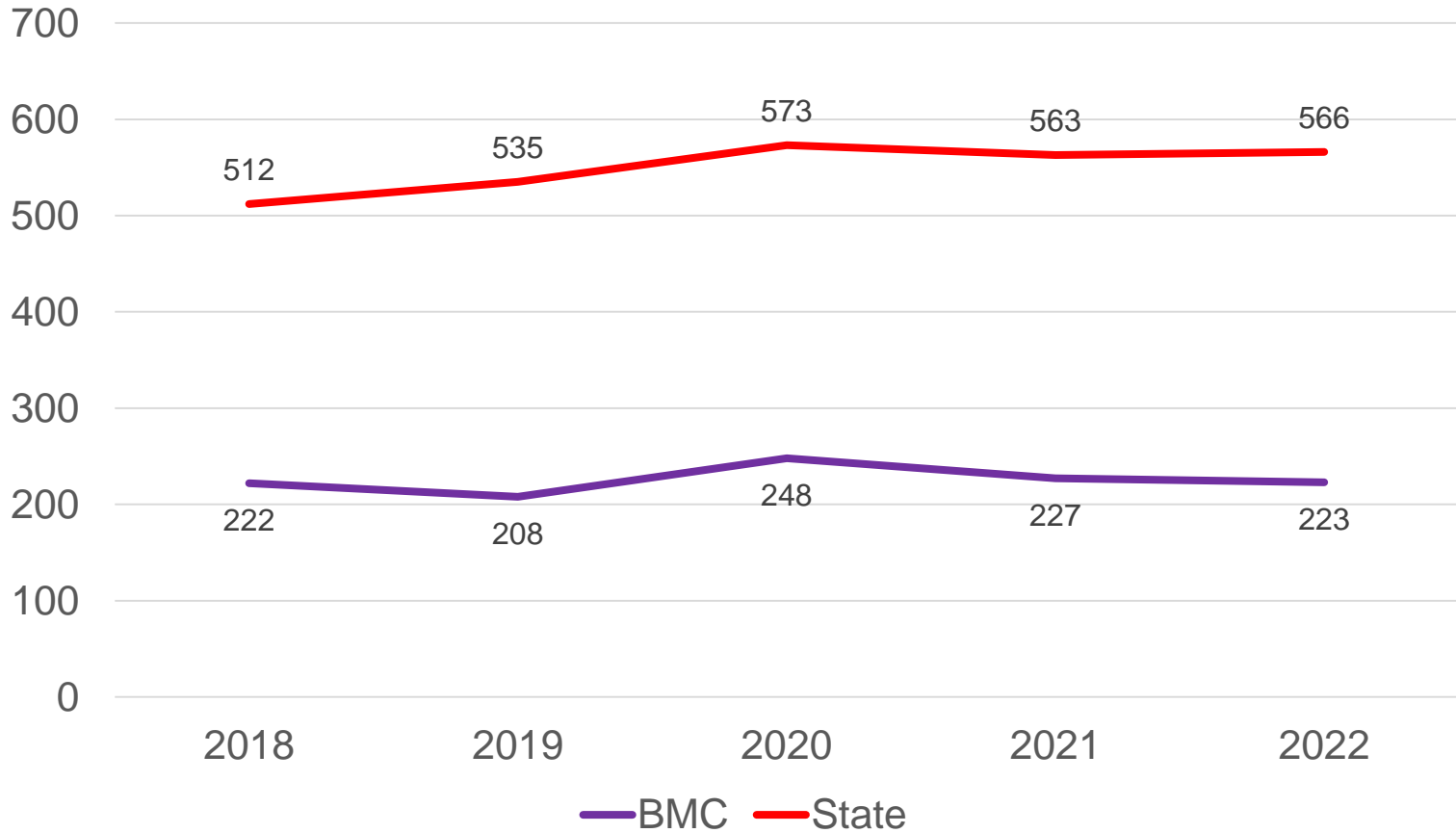
January 23, 2024



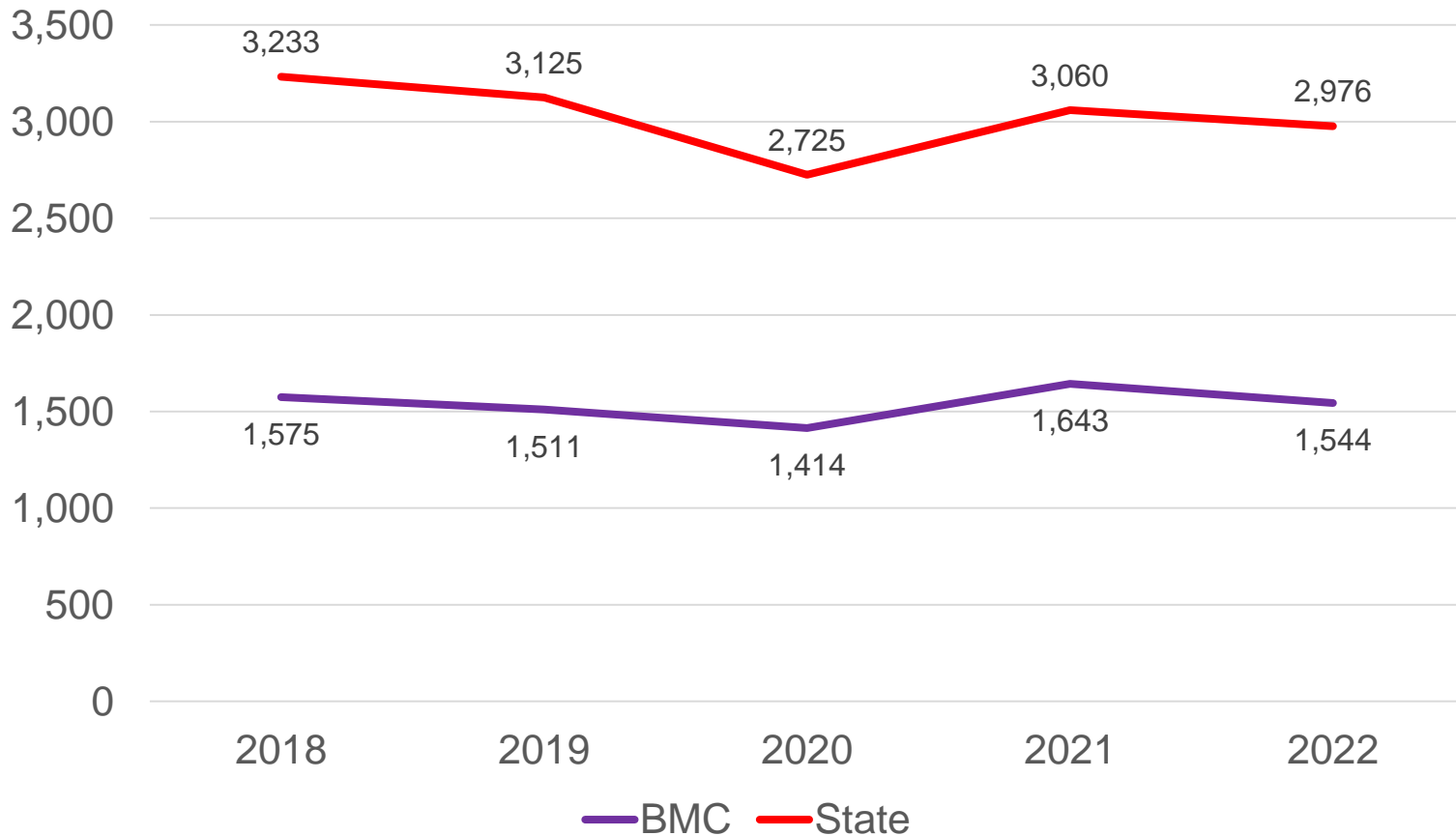
Safety in the Baltimore Region

BMC	2018	2019	2020	2021	2022
Fatalities	222	208	248	227	223
Serious Injuries	1,575	1,511	1,414	1,643	1,544
Total Injuries	26,022	25,294	19,610	21,816	21,576
Vehicle Miles Traveled (millions)	27,688	27,844	23,318	26,014	26,157
State	2018	2019	2020	2021	2022
Fatalities	512	535	573	563	566
Serious Injuries	3,233	3,125	2,725	3,060	2,976
Total Injuries	50,017	48,682	36,790	40,842	40,707
Vehicle Miles Traveled (millions)	59,629	60,136	50,592	56,616	56,784

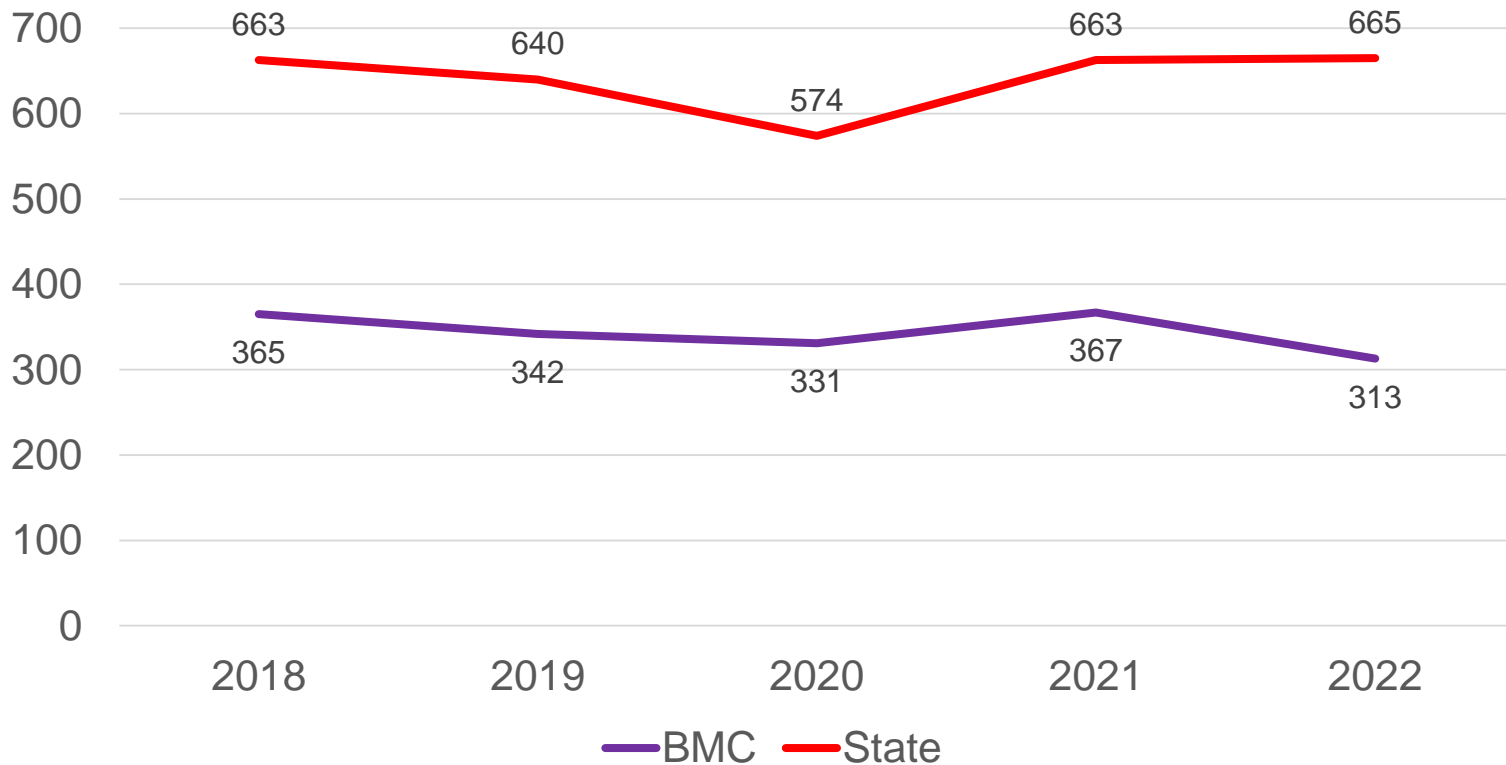
Fatalities



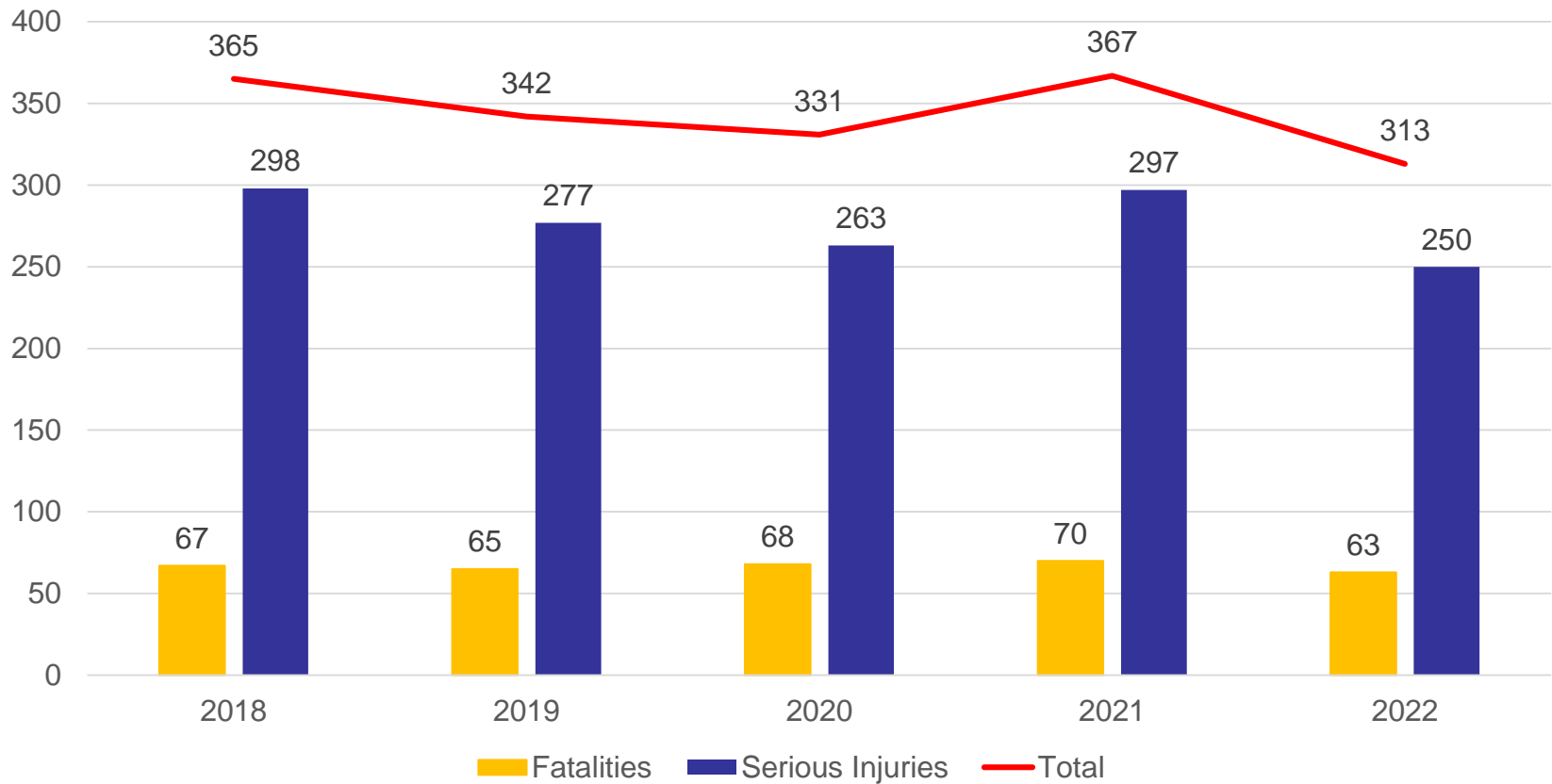
Serious Injuries



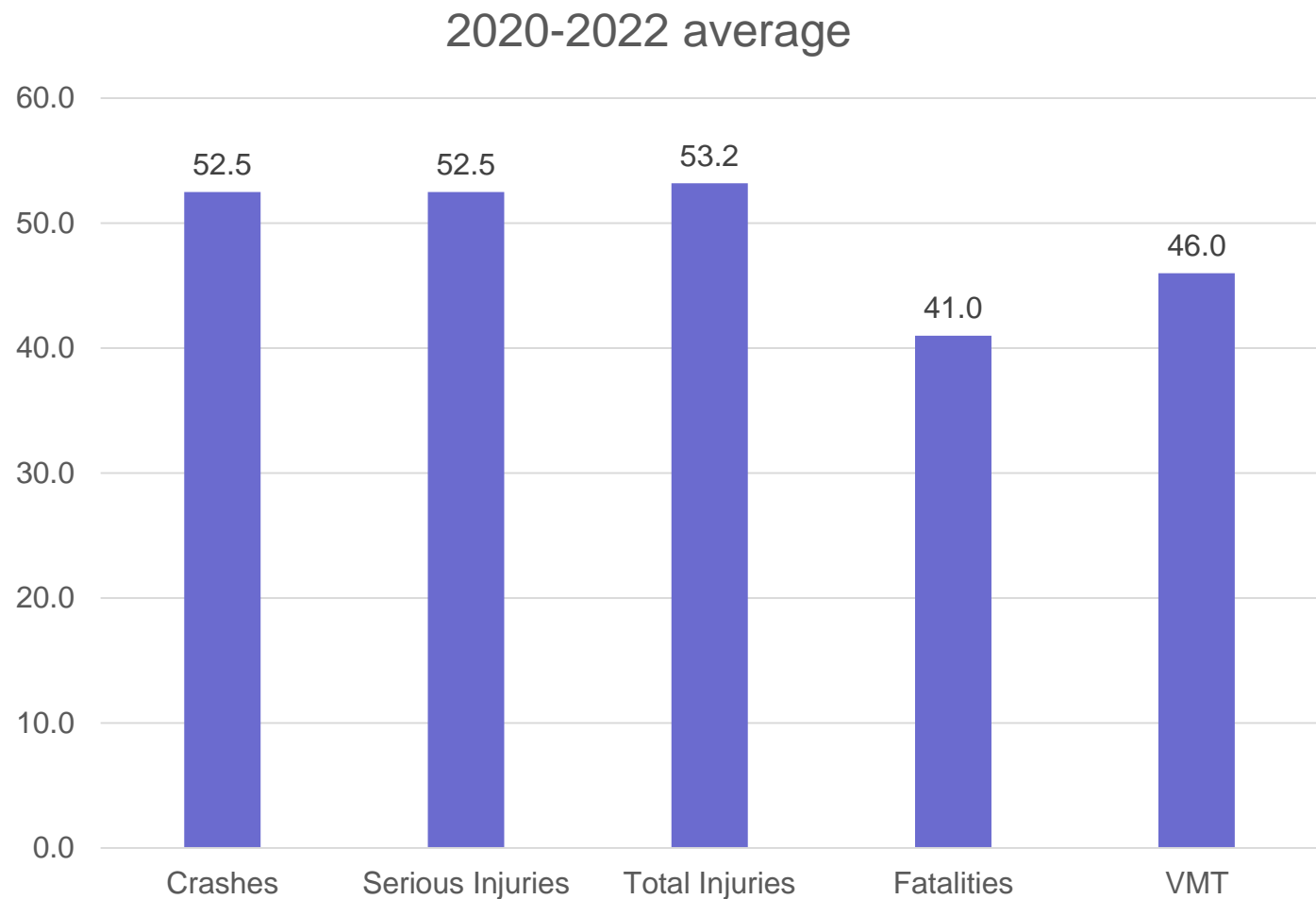
Non-motorist Fatalities and Serious Injuries



Non-motorized Serious Injuries and Fatalities (BRTB region)



BRTB Percent of State



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 were set in January 2018 and updated each January since then.

BRTB Target-Setting Process



- **Follow Maryland methodology**
 - Exponential forecast from 2005-2009 average
 - Annual 2% reduction in cases of increasing trends
 - Single year target is midpoint of five-year average (e.g. 2020 target = 2018-2022 average)
- **Set five targets specific to the BRTB region**
- **Updated targets to be approved no later than February 29, 2024**
 - Incorporate new year of data into five-year rolling averages

For Resolution #24-10





Baltimore Region Yearly Highway Safety Targets

Performance Measure	2005-2009 Baseline	2021 Actual	2022 Actual	Change 2021-2022	2020-2024 Target	2030 Goal
Number of Fatalities	244	227	223	↓ 1.76%	216	211
Number of Serious Injuries	2,094	1,638	1,544	↓ 5.74%	1,315	1,167
Fatality Rate per 100 Million VMT	0.94	0.87	0.85	↓ 2.30%	0.81	0.78
Serious Injury Rate per 100 Million VMT	8.06	6.30	5.90	↓ 6.35%	4.86	4.21
*Number of Non-motorized Fatalities & Serious Injuries	290	367	313	↓ 14.71%	329	280

**Increasing trend, so a two percent annual reduction applied.*

Exceeded 2020-2024 target in 2022

State Trends

Performance Measure	2021 Actual	2022 Actual	Change 2021-2022
Number of Fatalities	563	566	 0.53%
Number of Serious Injuries	3,042	2,967	 2.46%
Fatality Rate per 100 Million VMT	0.99	0.99	0.00%
Serious Injury Rate per 100 Million VMT	5.37	5.22	 2.79%
Number of Non-motorized Fatalities & Serious Injuries	663	665	 0.30%

Anne Arundel Co	2018	2019	2020	2021	2022	% change 2021-2022
Fatalities	55	42	49	39	48	23.1
Fatality Rate (per 100 MVMT)	0.89	0.67	0.93	0.66	0.81	22.6
Serious Injuries	297	228	244	262	242	-7.6
Serious Injury Rate (per 100 MVMT)	4.80	3.65	4.65	4.46	4.10	-8.0
Non-motorist Fatalities and Serious Injuries	63	37	49	38	43	13.2
VMT	6191	6248	5245	5874	5899	0.4

Baltimore City	2018	2019	2020	2021	2022	% change 2021-2022
Fatalities	34	49	68	48	46	-4.2
Fatality Rate (per 100 MVMT)	0.94	1.38	2.29	1.50	1.42	-5.4
Serious Injuries	439	473	444	547	469	-14.3
Serious Injury Rate (per 100 MVMT)	12.19	13.30	14.94	17.09	14.47	-15.4
Non-motorist Fatalities and Serious Injuries	163	161	143	172	141	-18.0
VMT	3,602	3,557	2,971	3,200	3,242	1.3

Baltimore Co	2018	2019	2020	2021	2022	% change 2021-2022
Fatalities	85	60	63	78	66	-15.4
Fatality Rate (per 100 MVMT)	0.98	0.69	0.87	0.96	0.81	-16.0
Serious Injuries	539	484	418	483	483	0.0
Serious Injury Rate (per 100 MVMT)	6.22	5.53	5.78	5.96	5.92	-0.7
Non-motorist Fatalities and Serious Injuries	98	99	80	100	84	-16.0
VMT	8,671	8,751	7,233	8,101	8,157	0.7
Carroll Co	2018	2019	2020	2021	2022	% change 2021- 2022
Fatalities	11	14	16	7	9	28.6
Fatality Rate (per 100 MVMT)	0.84	1.07	1.42	0.56	0.71	27.4
Serious Injuries	77	66	65	80	92	15.0
Serious Injury Rate (per 100 MVMT)	5.87	5.02	5.77	6.39	7.28	13.9
Non-motorist Fatalities and Serious Injuries	6	12	12	15	7	-53.3
VMT	1,312	1,314	1,126	1,252	1,264	1.0

Harford Co	2018	2019	2020	2021	2022	% change 2021-2022
Fatalities	12	17	17	18	21	16.7
Fatality Rate (per 100 MVMT)	0.47	0.65	0.76	0.71	0.83	17.2
Serious Injuries	96	108	119	106	111	4.7
Serious Injury Rate (per 100 MVMT)	3.72	4.13	5.32	4.19	4.41	5.2
Non-motorist Fatalities and Serious Injuries	15	13	20	14	14	0.0
VMT	2,580	2,614	2,238	2,528	2,517	-0.4

Howard Co	2018	2019	2020	2021	2022	% change 2021- 2022
Fatalities	20	23	29	33	29	-12.1
Fatality Rate (per 100 MVMT)	0.46	0.53	0.80	0.82	0.71	-13.0
Serious Injuries	97	130	98	134	125	-6.7
Serious Injury Rate (per 100 MVMT)	2.22	2.98	2.69	3.31	3.06	-7.6
Non-motorist Fatalities and Serious Injuries	20	19	22	27	25	-7.4
VMT	4,363	4,362	3,640	4,044	4,084	1.0

Queen Anne's Co	2018	2019	2020	2021	2022	% change 2021-2022
Fatalities	5	3	6	4	4	0.0
Fatality Rate (per 100 MVMT)	0.52	0.30	0.69	0.39	0.40	2.1
Serious Injuries	30	22	26	31	22	-29.0
Serious Injury Rate (per 100 MVMT)	3.10	2.20	3.01	3.05	2.21	-27.5
Non-motorist Fatalities and Serious Injuries	0	1	5	1	2	100.0
VMT	969	998	865	1,015	994	-2.1

Preliminary 2023 Fatalities

Total Fatalities					
	2019	2020	2021	2022	2023
Anne Arundel Co	42	49	39	48	43
Baltimore City	49	68	48	46	41
Baltimore Co	60	63	78	66	86
Carroll Co	14	16	7	9	12
Harford Co	17	17	18	21	24
Howard Co	23	29	33	29	24
Queen Anne's Co	3	6	4	4	11
Whole Region	208	248	227	223	241
Maryland	535	573	563	566	597
as of 1/22/2024					

BRTB Strategies

- What have we done/are doing?
 - Incorporated measures and targets into the Transportation Improvement Program (TIP)
 - Enhanced safety project scoring for the LRTP
 - Complete Streets Policies/PSAP/VRU Assessment
 - Congestion Management Process
 - Local Strategic Highway Safety Plans
 - Six in place, one more to begin 2024
 - Safe Streets and Roads for All – in all jurisdictions
 - Pedestrian/Bicycle Coordinators
 - Look Alive campaign (new partners)
 - Safe System Approach project
 - Expanded public engagement
- New ideas?

Crash Dashboard

Maryland State Police Crash Database -
(1/1/2018 - 12/13/2023)
Dashboard Update (1/4/2024)
Full Database Download (12/14/2023)

Navigation Buttons

Crash Record Behavior Summary

Crash Record Behavior Analysis

Crash Record Map

Crash Record - Non-Motorized/American Community Survey

The data in this dashboard have been downloaded from the Traffic Crash Report Data Warehouse maintained by the Maryland Department of State Police (MDSP). The data are shown with no edits or corrections, source records may be found

at <https://mdsp.maryland.gov/Pages/Dashboards/CrashDataDownload.aspx>. Any updates performed by MDSP will be reflected in the Data Warehouse and publicly available files, this dashboard may not reflect the most recent updates to the data.

The Data Warehouse includes fatal crashes that have not been reviewed per federal Fatality Analysis Reporting System (FARS) criteria for inclusion, or exclusion, in traffic fatality statistical reporting. Reporting from MDOT and MDSP adheres to FARS criteria in releasing annual fatality numbers.

https://public.tableau.com/app/profile/charles.baber/viz/CrashDashboard_Yearly/Home

FY2023 SS4A Awards (BRTB)

Lead Applicant	Grant Type	Project Name	Project Description	Total Federal Funding	Total Project Cost	Applicant Type	Rural / Urban
Baltimore City Department of Transportation	Planning and Demonstration	Baltimore City Complete Streets Demonstration	This award will be used by the Baltimore City Department of Transportation (BCDOT) to pilot quick-build Complete Streets projects identified on the City's high-injury network; test a communications campaign to accompany the promotion and evaluation of Complete Streets demonstration activities; pilot temporary lane and street closures along the Baltimore Greenway Trails Network once per month for 6 months as part of the Baltimore Greenway Ciclovía program; and install sensors for one year that will be deployed at key intersections along the Greenway Ciclovías and Complete Streets pop-ups to provide modal counts, desire lines, and observed pathways at intersections.	\$9,920,000.00	\$12,400,000.00	City or Township Government	Urban
Baltimore County	Planning and Demonstration	Baltimore County Planning and Demonstration Activities	This award will be used by Baltimore County to conduct supplemental planning activities including road safety audits for 17 corridors throughout the county.	\$3,548,000.00	\$4,435,000.00	County Government	Urban
City of Annapolis	Planning and Demonstration	City of Annapolis, MD - Safe Streets and Roads for All Action Plan & Quick-Build Demonstration	This award will be used by the City of Annapolis to update its existing Vision Zero Plan and to pilot demonstration activities in the City's highest crash corridor - Forest Drive - such as high-visibility crosswalks.	\$683,200.00	\$854,000.00	City or Township Government	Urban

FY2023 SS4A Awards (BRTB) cont'd

County Commissioners Of Queen Anne's County	Planning and Demonstration	Queen Anne's County SS4A Action Plan	This award will be used by County Commissioners Of Queen Anne's County to develop a comprehensive safety action plan.	\$280,000.00	\$350,000.00	County Government	Rural
Howard County	Planning and Demonstration	Safe Streets and Roads for All - Improving Pedestrian Safety in the US 1 Corridor, Howard County, MD	This award will be used by Howard County to conduct demonstration activities testing safety approaches on the US 1 corridor, a 12-mile stretch of roadway with safety challenges. Demonstration activities will test whether newly adopted Complete Streets design standards and strategies are practical at 40 locations on the corridor; locations will be evaluated for quick-build improvements such as temporary sidewalk designation in narrow rights of way, narrowing of turning radii, and additional pedestrian protections.	\$488,133.00	\$866,000.00	County Government	Urban
Town of Sykesville	Planning and Demonstration	Town of Sykesville Action Plan	This award will be used by Town of Sykesville to develop a comprehensive safety action plan.	\$160,000.00	\$200,000.00	City or Township Government	Rural

Total \$15,079,333

FY2023 SS4A Awards (MD – non-BRTB)

Lead Applicant	Grant Type	Project Name	Project Description	Total Federal Funding	Total Project Cost	Applicant Type	Rural / Urban
City of Mount Rainier	Implementation	Protecting Mount Rainier's Most Vulnerable	The City of Mount Rainier, Maryland (Greater Washington) is awarded funds for multiple citywide safety improvements to implement its Vision Zero Action Plan, which includes traffic	\$9,764,000.00	\$12,205,000.00	City or Township Government	Urban
Brunswick Maryland	Planning and Demonstration	Multimodal Network Connectivity Action Plan for Brunswick, Maryland	This award will be used by Brunswick Maryland to develop a comprehensive safety action plan.	\$240,000.00	\$300,000.00	City or Township Government	Rural
City of Cambridge	Planning and Demonstration	Action Plan and Demonstration Activities	This award will be used by the City of Cambridge (MD) to create a Vision Zero plan, and to pilot quick-build demonstration activities	\$320,000.00	\$400,000.00	City or Township Government	Rural
City of Gaithersburg	Planning and Demonstration	City of Gaithersburg Safety Action Plan	This award will be used by City of Gaithersburg to develop a comprehensive safety action plan.	\$360,000.00	\$450,000.00	City or Township Government	Urban
City of Rockville	Planning and Demonstration	Vision Zero Intersection Safety Audits	This award will be used by the City of Rockville to conduct supplemental planning activities including 30 road safety audits to	\$320,000.00	\$400,000.00	City or Township Government	Urban
Frederick County	Planning and Demonstration	Fast Forward Frederick: Safe Streets and Roads for All - Planning and Demonstration	This award will be used by Frederick County to 1) update the County's Bicycle and Pedestrian Master Plan, 2) pilot demonstration activities on three county roadways such as protected bike lanes and road diets, 3) develop feasibility analyses	\$1,050,000.00	\$1,314,000.00	County Government	Rural
Maryland-National Capital Park and Planning Commission	Planning and Demonstration	Multimodal Parking Lot Design Guidelines in Montgomery	This award will be used by Maryland-National Capital Park and Planning Commission to conduct supplemental planning such as a	\$120,000.00	\$150,000.00	Subdivision of a State (e.g.,	Urban
Montgomery County Maryland	Planning and Demonstration	Montgomery County Maryland Planning and Demonstration Activities	This award will be used by Montgomery County to conduct supplemental planning activities to review Vision Zero activities, evaluate progress, and make updates and recommendations to	\$160,000.00	\$200,000.00	County Government	Urban
Rising Sun	Planning and Demonstration	Town of Rising Sun Vision Zero Safety Action Plan	This award will be used by the Town of Rising Sun to develop a comprehensive safety action plan.	\$64,000.00	\$80,000.00	City or Township Government	Rural
Town of Brentwood	Planning and Demonstration	Vision Zero Action Plan	This award will be used by the Town of Brentwood to develop a comprehensive safety action plan and conduct quick-build	\$160,000.00	\$200,000.00	City or Township Government	Urban
Towns of Riverdale Park and Edmonston	Planning and Demonstration	Safe Streets for All in Riverdale Park & Edmonston	This award will be used by the Town of Riverdale Park and Edmonston to conduct supplemental planning and demonstration	\$768,000.00	\$960,000.00	City or Township Government	Urban

Total \$13,326,000

Cindy Burch | Transportation Planner - Safety



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