Baltimore Regional Transportation Board

Safety Performance Target Setting

BRTB Technical Committee Meeting

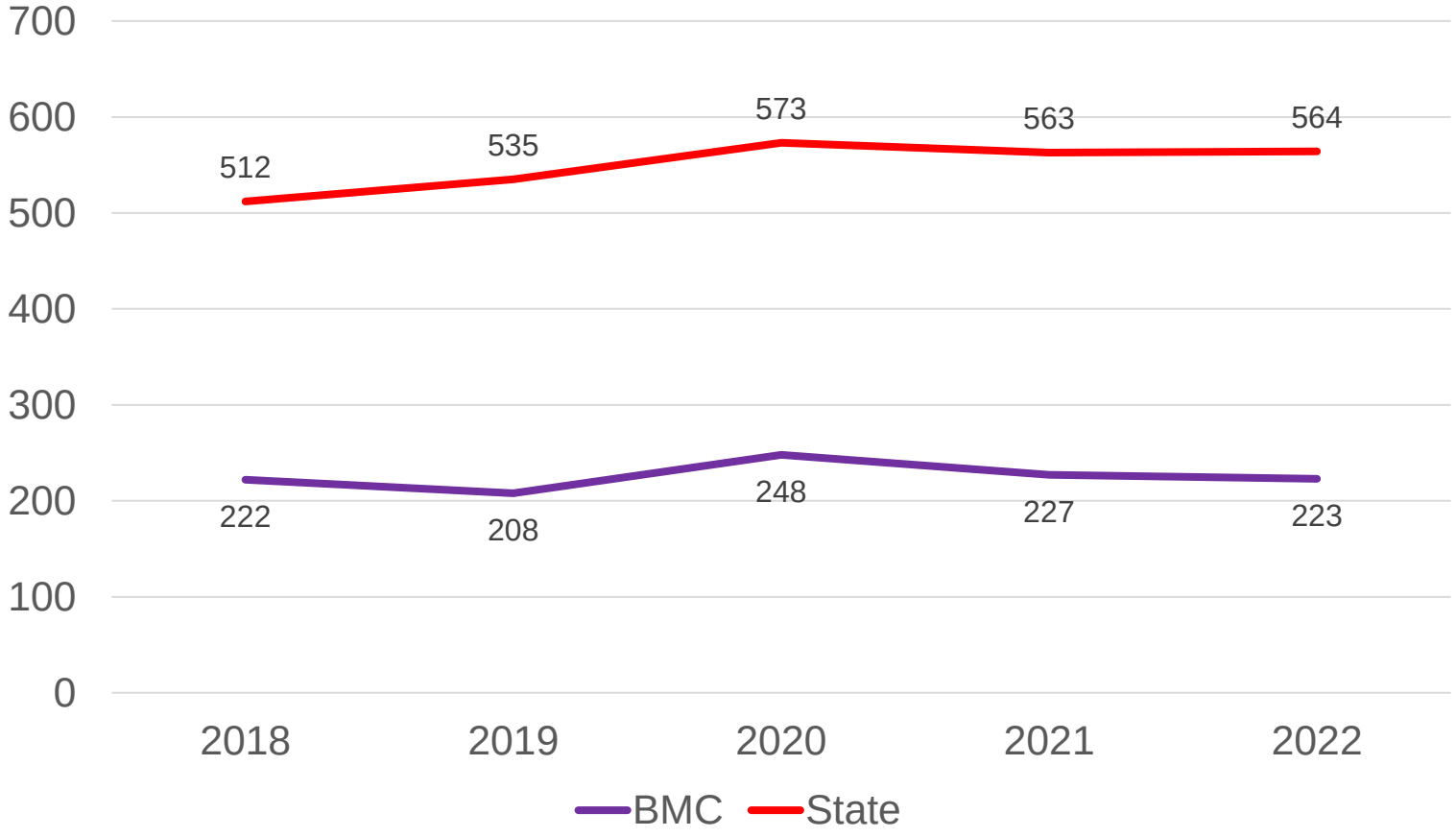
December 5, 2023

BMC

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	564
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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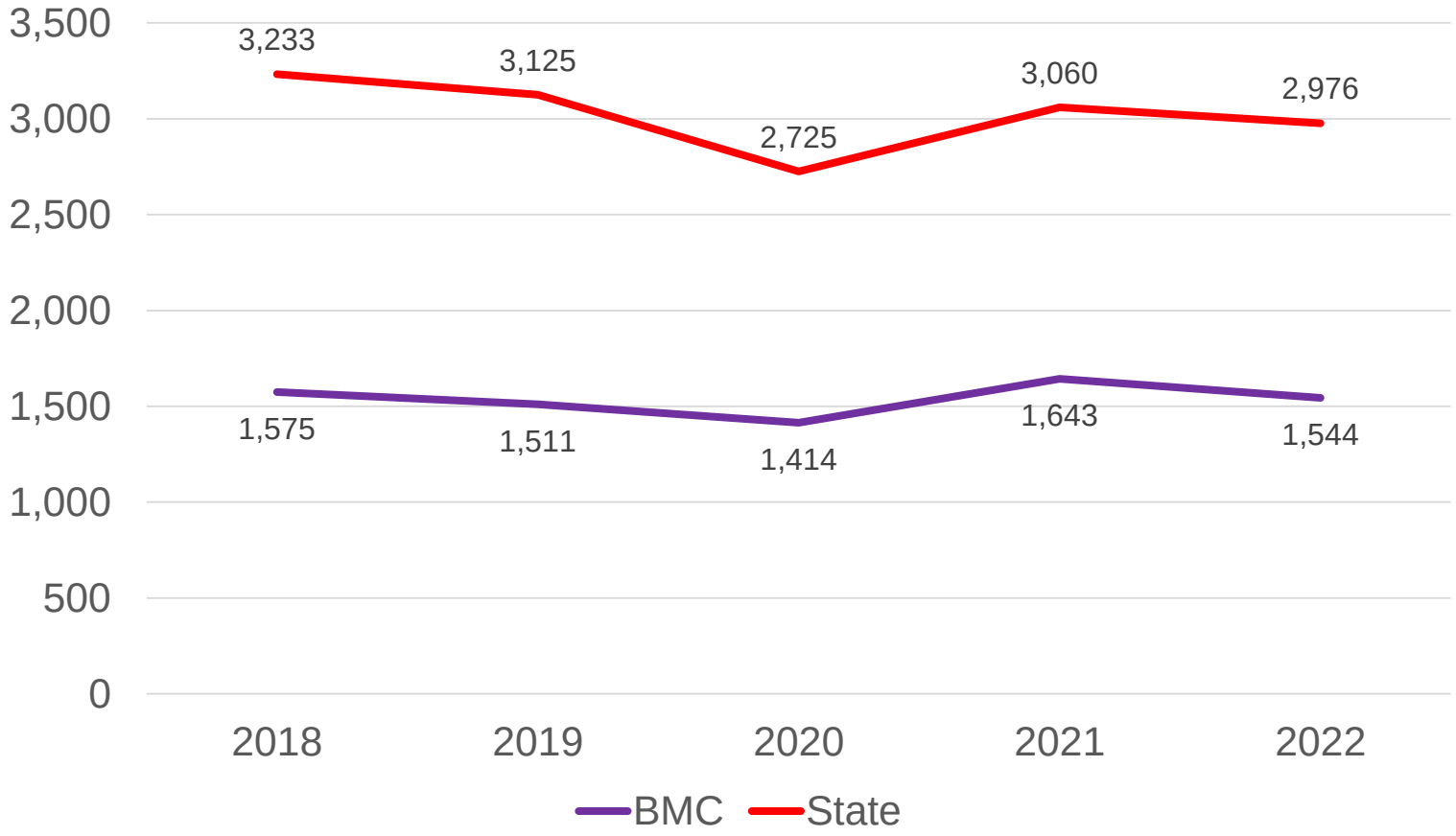
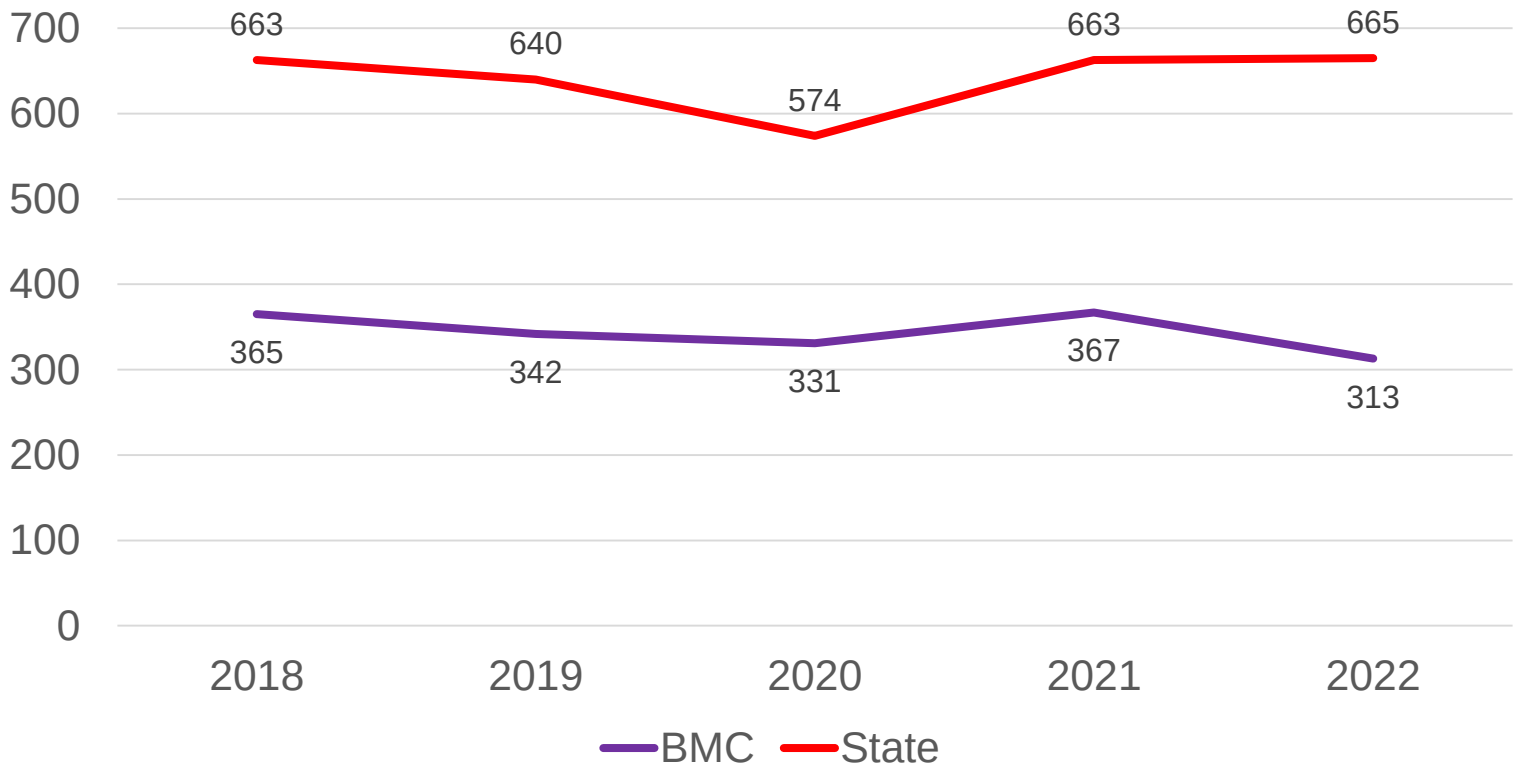
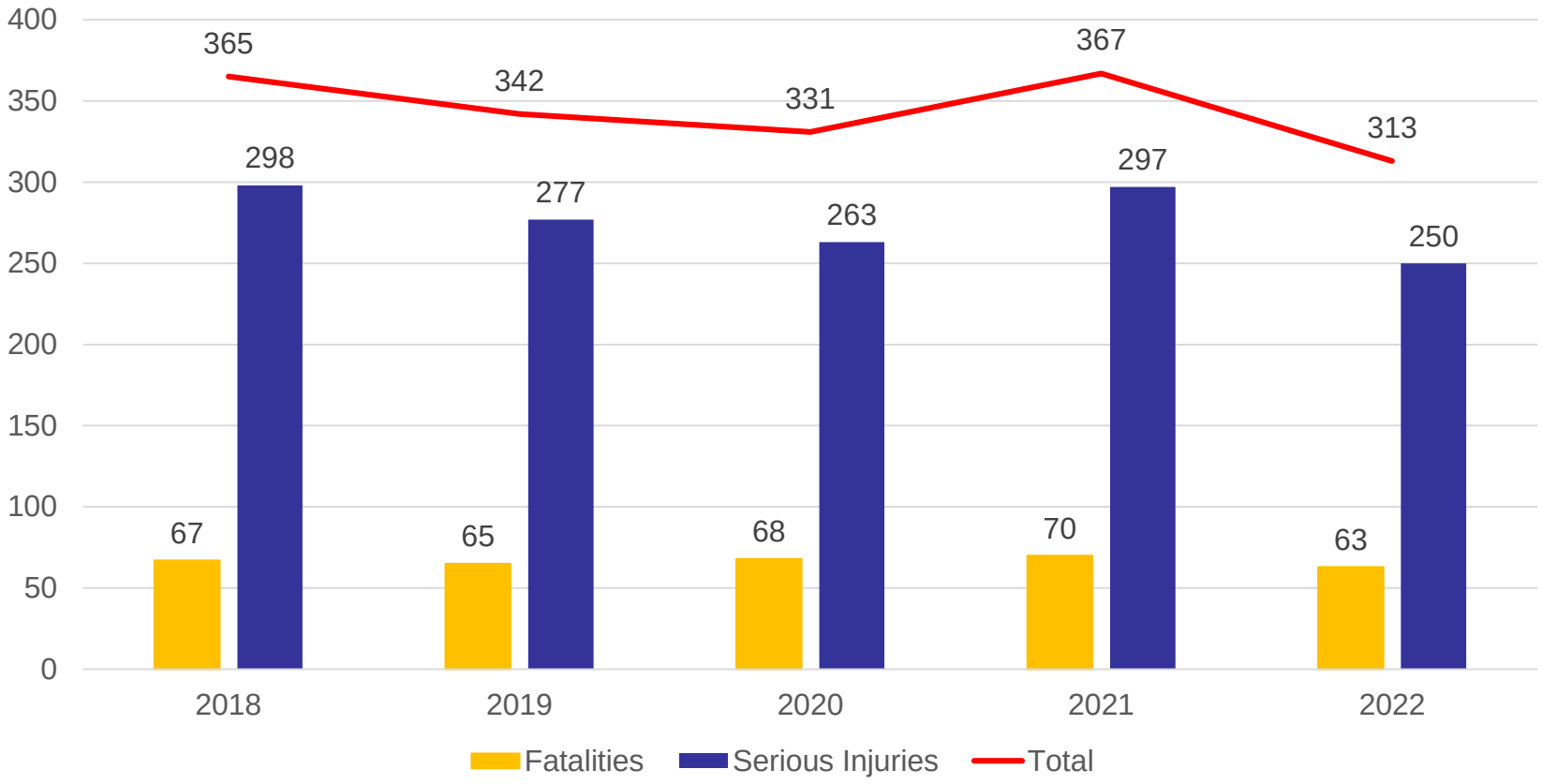
Serious Injuries



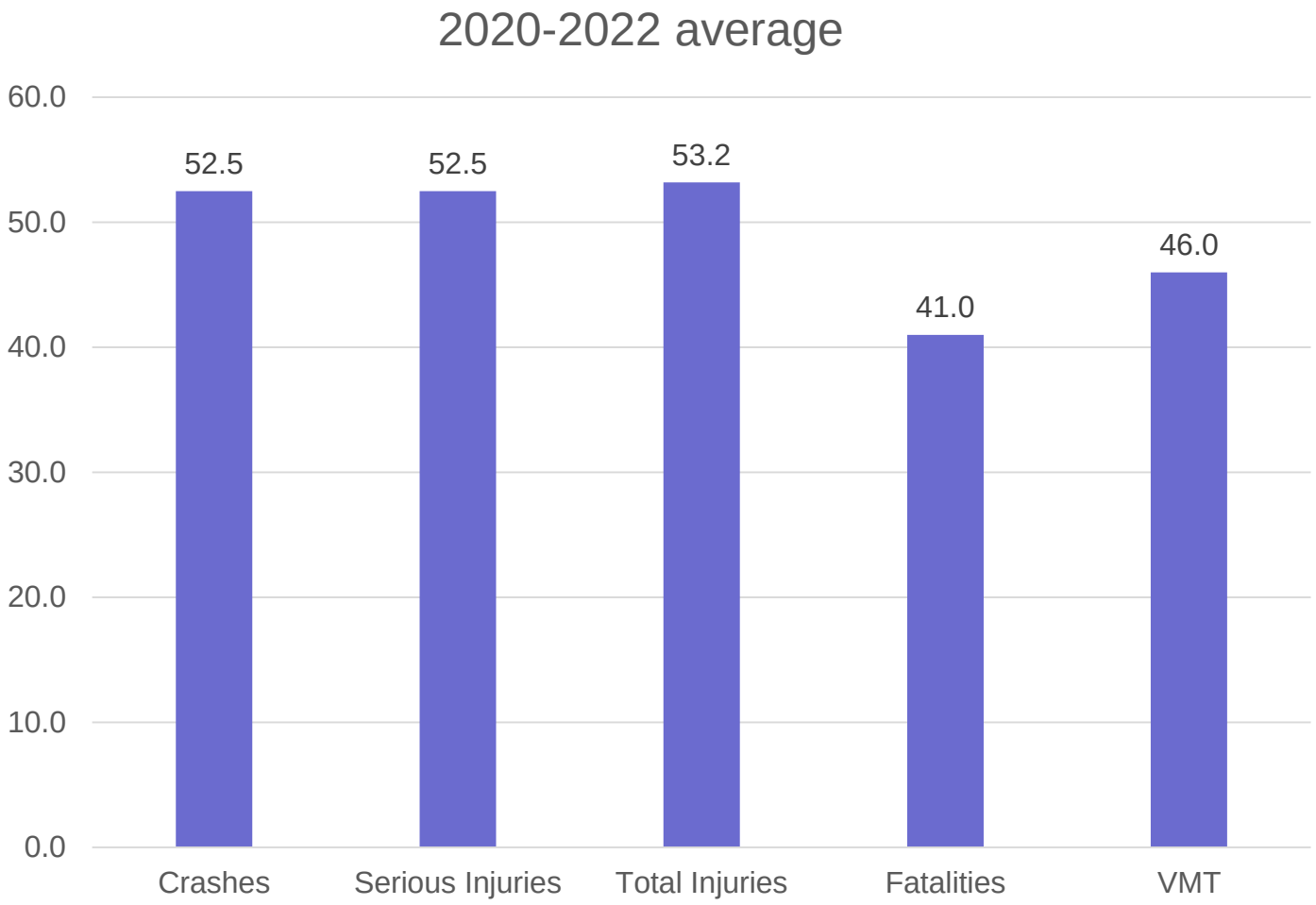
Non-motorist Fatalities and Serious Injuries



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	564	↑ 0.18%
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	45	41
Baltimore Ci	49	68	48	45	39
Baltimore Co	60	63	78	66	81
Carroll Co	14	16	7	9	12
Harford Co	17	17	18	21	22
Howard Co	23	29	33	29	21
Queen Anne's Co	3	6	4	4	10
Whole Region	208	248	227	223	226
Maryland	535	573	563	564	560
as of 12/5/23					

For More Information

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