

2025 HIGHWAY AND TRANSIT SAFETY TARGETS – NOVEMBER DRAFT

Performance-Based Planning and Programming

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Highway Safety Targets



Highway Safety Presentation Items

- Highway Safety Requirements
- Highway Safety Measures
- Highway Safety Target-Setting Methodology
- Highway Safety Trends 2020 through 2024
- 2020-2024 Highway Safety Targets and Performance
- Draft 2022-2026 Regional Roadway Safety Targets



Federal Requirements – Highway Safety Plans

- Federal PBPP regulations require State DOTs and MPOs to:
 - Adopt annual safety performance targets for five (5) safety performance measures
 - Measure and report progress towards those targets each year
 - State DOTs are required to report their safety targets annually through their HSIP report by August 31, and MPOs are required to report their safety targets within 180 days thereafter
- Requirement supports implementation of the Highway Safety Improvement Program (HSIP), which requires States to improve highway safety on public roads using a data-drive, strategic approach



Highway Safety Performance Measures

Performance Measure	Description
Number of Fatalities (5 year rolling average)	Total number of fatalities during a calendar year
Rate of Fatalities per 100 million VMT (5 year rolling average)	Ratio of total fatalities to VMT
Number of Serious Injuries (5 year rolling average)	Total number of serious injuries during a calendar year
Rate of Serious Injuries per 100 million VMT (5 year rolling average)	Ratio of total serious injuries to VMT
Number of Non-Motorized Fatalities and Serious Injuries (5 year rolling average)	Total number of fatalities and serious injuries during a calendar year



Highway Safety – Target Setting Methodology

- TPB targets for each performance measure is a composite of sub-targets developed for each State
- Combine the three sub-targets into a regional target for the NCR
 - *If a calculated target is higher than the previous target, set the target equal to the previous target, i.e., target is “capped”*



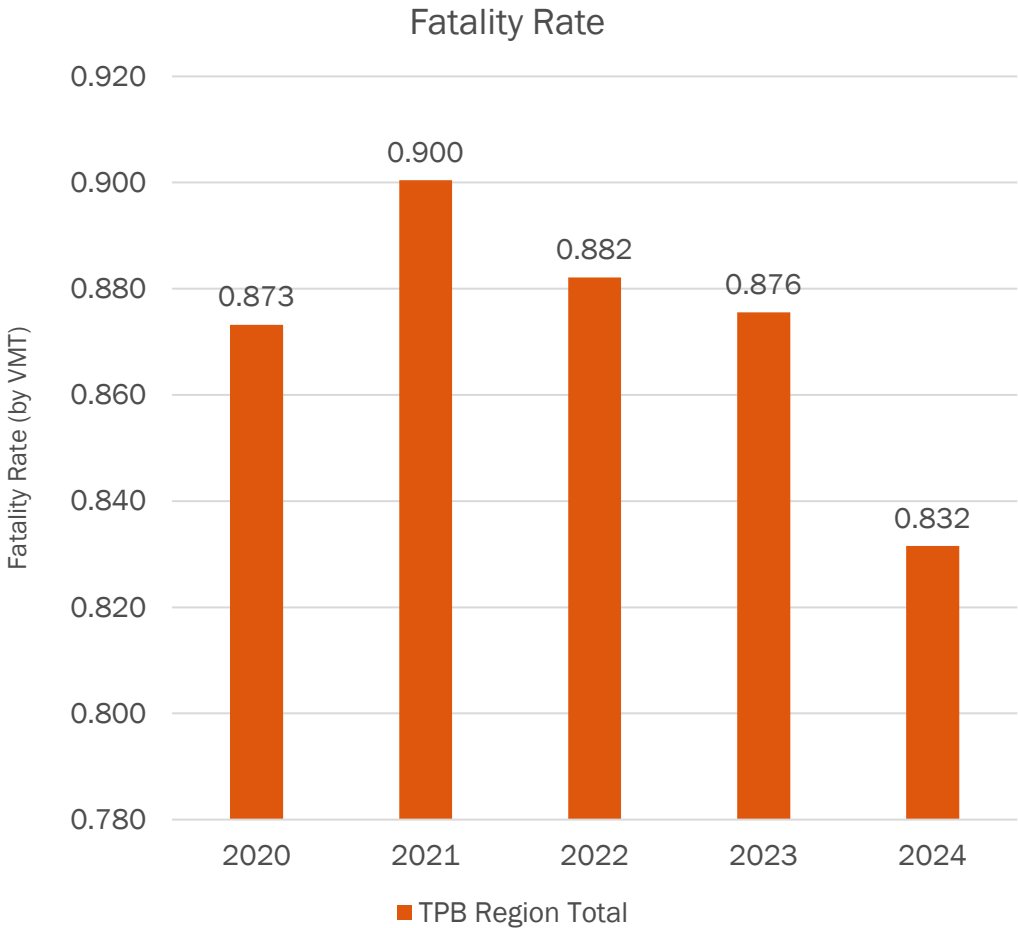
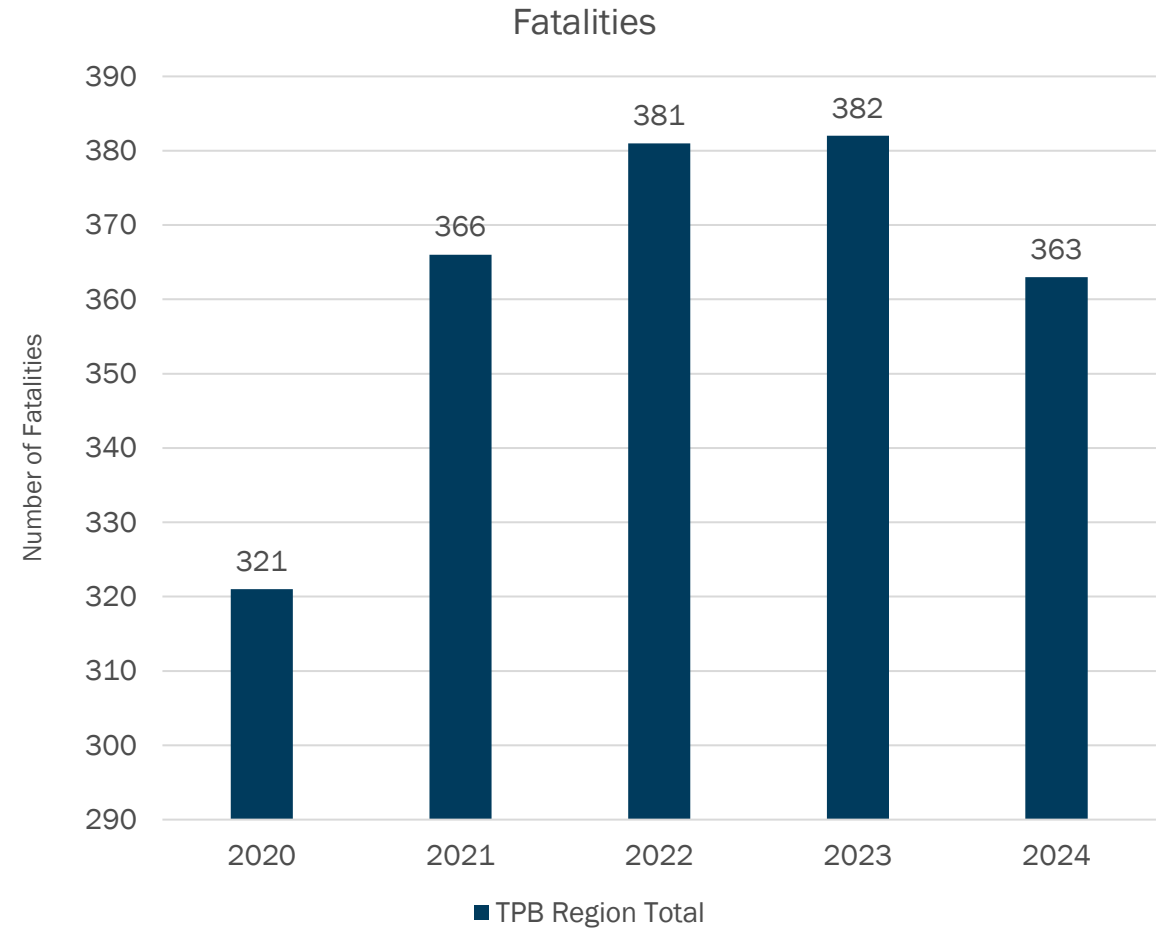
NCR Annual Highway Safety Data: 2020 through 2024

	2020	2021	2022	2023	2024	Change from 2023-2024
# of Fatalities	321	366	381	382	363 ¹	↓4.97%
Fatality Rate (per 100 MVMT)	0.873	0.900	0.882	0.876	0.832 ¹	↓5.02%
# of Serious Injuries	1,839	2,221	2,178	2,284	2,397	↑ 4.95%
Serious Injury Rate (per 100 MVMT)	5.003	5.464	5.043	5.235	5.491	↑ 4.71%
# Nonmotorist Fatalities & Serious Injuries	443	520	636	579	522 ¹	↓9.84%
Annual Vehicle Miles Traveled (100 M)	367.61	406.47	431.91	436.31	436.55	0.00%

¹ Fatality figures for 2024 are from preliminary state data pending release of 2024 FARS data.

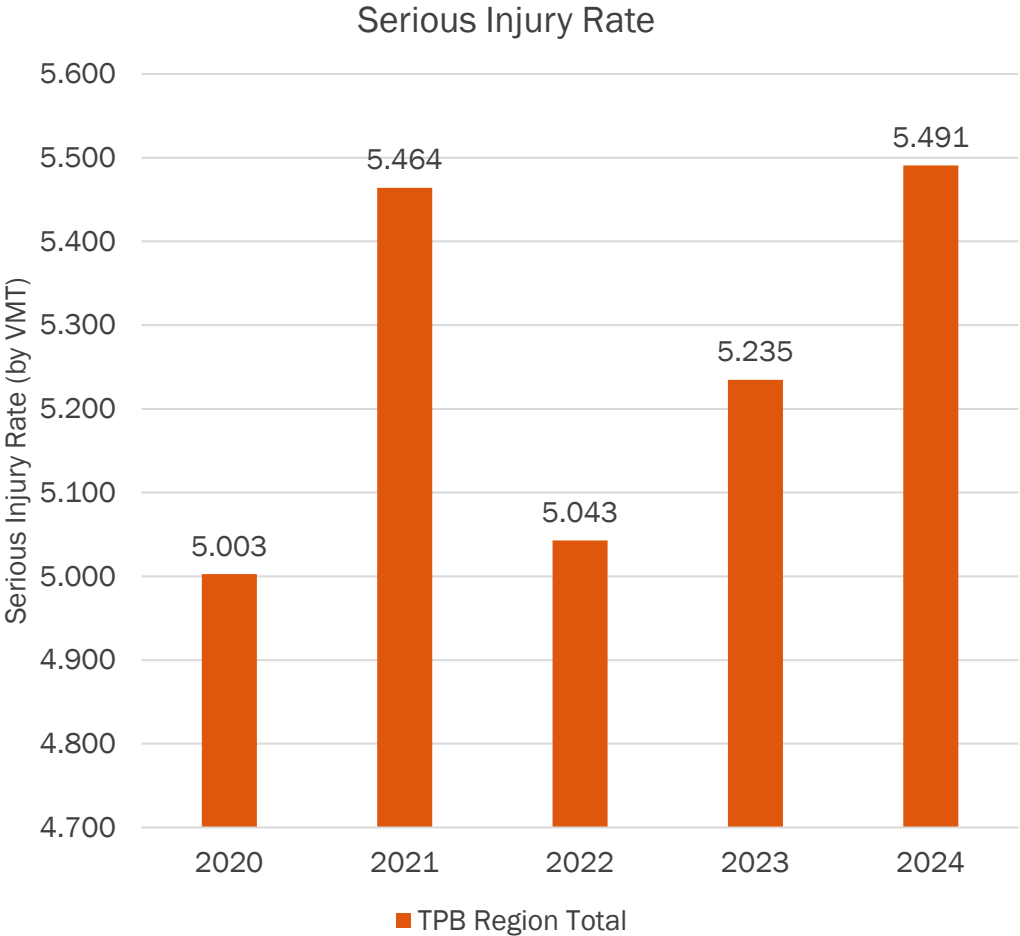
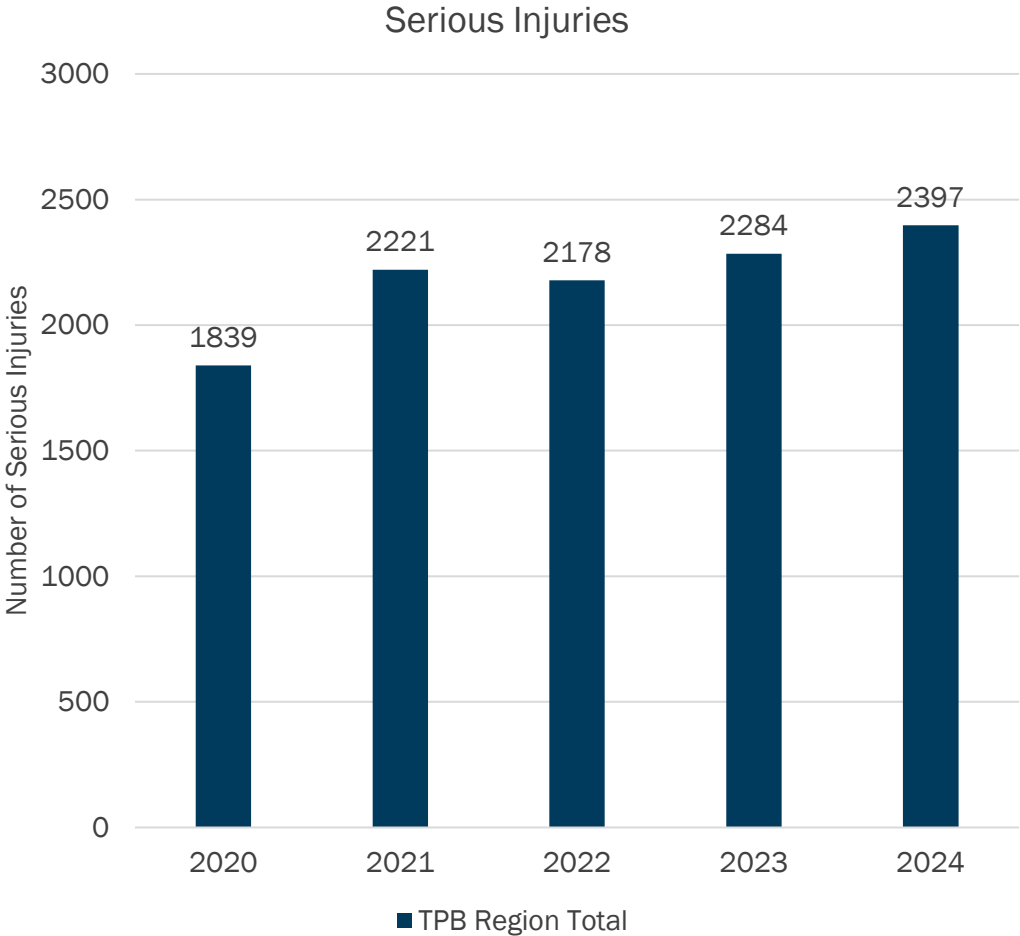


National Capital Region Roadway Fatalities



NOTE: Figures listed for 2024 are from preliminary state fatality data; 2024 FARS data not yet published.

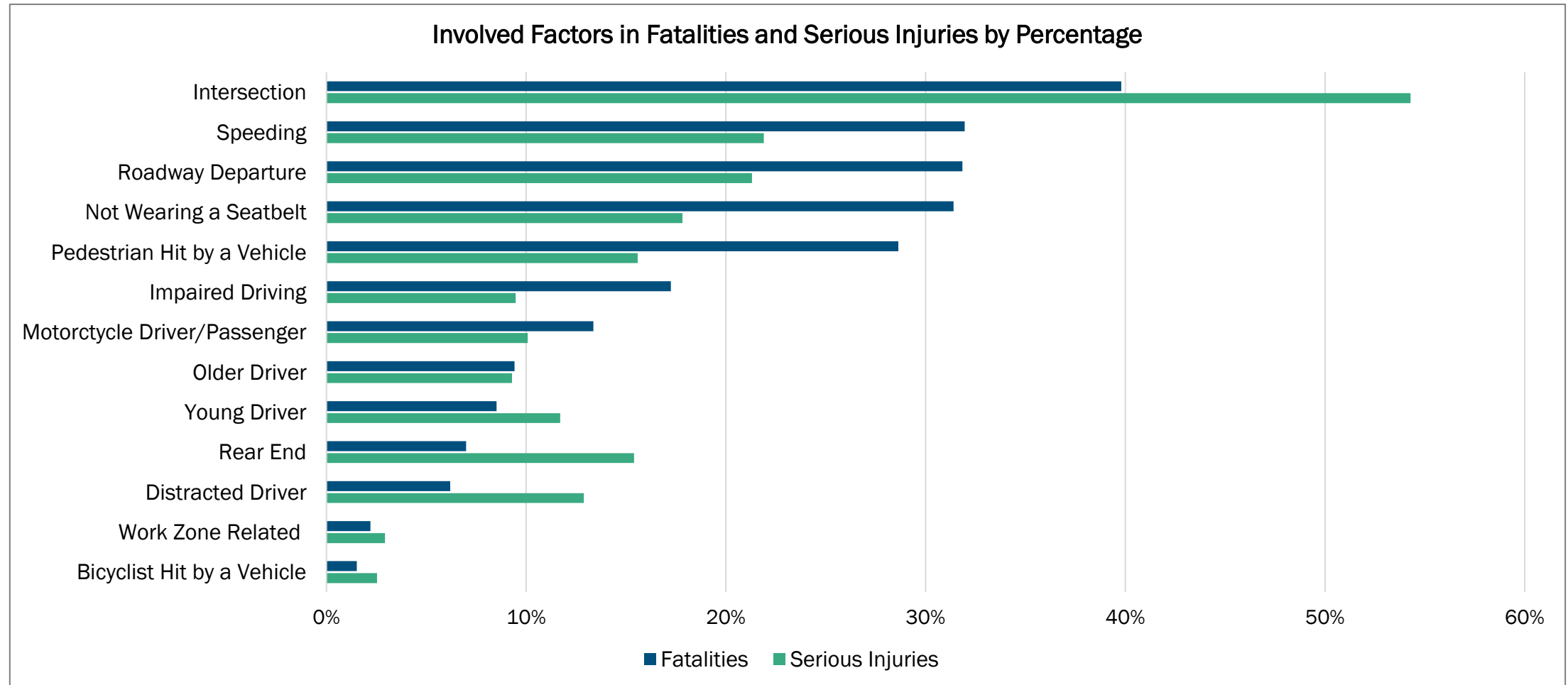
National Capital Region Roadway Serious Injuries



NOTE: Figures listed for 2024 are from preliminary state fatality data; 2024 FARS data not yet published.



Involved Factors for Fatalities and Serious Injuries



Highway Safety – Staff Observations

- Roadway fatalities began to trend in the right direction following three consecutive years of increases but remain elevated compared to the pre-pandemic period (2015-2019). In 2024, traffic fatalities decreased 5% from 2023
 - The fatality rate continued to decline for the third straight year
- Serious injuries saw a modest increase (by 5%) from 2023, contributing to a gradual increase since 2021, but remain below pre-pandemic levels (2015-2019)
- Nonmotorist fatalities and serious injuries experienced a second consecutive year of decline (by 10% since 2023)
 - The total for 2024 (522) was the lowest since 2013, excluding 2020-2021



2020-2024 NCR Actual Performance vs. Targets

Performance Measure (5-year rolling average)	Adopted 2020- 2024 Targets (Dec 2023)	Actual 2020-2024 Performance	Status
# of Fatalities	253.0	362.6 ¹	Not met
Fatality Rate (per 100 MVMT)	0.588	0.872 ¹	Not met
# of Serious Injuries	1,675.7	2,183.8	Not met
Serious Injury Rate (per 100 MVMT)	3.222	5.247	Not met
# Nonmotorist Fatalities & Serious Injuries	473.5	540 ¹	Not met

¹ Fatality figures for 2024 are from preliminary state data pending release of 2024 FARS data.



Summary: NCR Highway Safety Targets (Uncapped)

DRAFT

Performance Measure (5-year rolling average)	Adopted 2021-2025 Targets	DRAFT 2022-2026 Targets	Difference	Percent Difference
# of Fatalities	253.0	<u>327.4¹</u>	74.4	29.4%
Fatality Rate (per 100 MVMT)	0.588	<u>0.801¹</u>	0.213	36.2%
# of Serious Injuries	1,661.9	<u>1,592.4</u>	-69.5	-4.2%
Serious Injury Rate (per 100 MVMT)	3.222	<u>4.167</u>	0.945	29.33%
# Nonmotorist Fatalities & Serious Injuries	473.5	<u>399.9¹</u>	-73.6	-15.5%

¹ 2024 fatality figures from preliminary state data were used pending release of 2024 FARS data.



Summary: NCR Highway Safety Targets (Capped)

DRAFT

Performance Measure (5-year rolling average)	Adopted 2021-2025 Targets	DRAFT 2022-2026 Targets	Difference	Percent Difference
# of Fatalities	253.0	<u>253.0*</u>	0.0	0.0%
Fatality Rate (per 100 MVMT)	0.588	<u>0.588*</u>	0.0	0.0%
# of Serious Injuries	1,661.9	<u>1,592.4</u>	-69.5	-4.2%
Serious Injury Rate (per 100 MVMT)	3.222	<u>3.222*</u>	0.0	0.0%
# Nonmotorist Fatalities & Serious Injuries	473.5	<u>399.9</u>	-73.6	-15.5%

* Capped



Transit Safety Targets



Transit Safety Presentation Items

- Transit Agency Safety Plans Rule
- Transit Safety Performance Measures
- Applicability
- 2024 (FY) Regional Transit Safety Performance
- 2024 Regional Transit Safety Targets - **Adopted**
- 2025 Regional Transit Safety Targets - **Draft**
- Next Steps



Federal Requirement – Transit Agency Safety Plans

- Federal Performance Based Planning and Programming (PBPP) regulations requires applicable providers of public transportation to develop and certify an agency safety plan
- As of May 2024, applicable transit providers are required to annually set targets for fourteen (14) Transit Safety performance measures
- MPOs set annual regional targets for the metropolitan planning area following state/agency adoption of its Transit Safety targets



Transit Safety Performance Measures

General Safety Performance Measures	
1a: Major Events	2.1: Transit Worker Fatality Rate (NEW)
1b: Major Event Rate	3a: Injuries
1.1: Collision Rate (NEW)	3b: Injury Rate
1.1.1: Pedestrian Collision Rate (NEW)	3.1: Transit Worker Injury Rate (NEW)
1.1.1: Vehicular Collision Rate (NEW)	4a: Assaults on Transit Workers (NEW)
2a: Fatalities	4b: Rate of Assaults on Transit Workers (NEW)
2b: Fatality Rate	5: System Reliability

Source: FTA PTASP National Safety Plan Webinar (August 2024)



Calculation of Regional Safety Targets

- Targets for the region are based on those adopted or identified by each provider of public transportation
- Measures are calculated for each mode:
 - Number of Fatalities/Injuries/Safety Events– total number for all providers of that mode
 - Rate of Fatalities/Injuries/Safety Events– total number for all providers of the mode divided by the total number of Vehicle Revenue Miles (VRM) for that mode (reported in rate per 100,000 VRM, except for HR which is 10M VRM)
 - Mean Distance Between Failure (MDBF) – the total number of VRM for that mode divided by the total number of failures for all providers of the mode



Applicable Regional Agencies

- Transit safety requirements apply to providers of public transportation that are recipients and sub-recipients of federal Section 5307 funding:
 - **WMATA:** Metrorail, Metrobus, MetroAccess
 - **DDOT:** DC Streetcar
 - **MDOT-MTA:** MTA Commuter Bus
 - **PRTC:** OmniRide and OmniRide Access/Connect
 - and local systems (fixed-route and demand response) in Maryland:
 - **VanGo** (Charles Co.)
 - **Transit** (Frederick Co.)
 - **Ride On** (Montgomery Co.)
 - **The Bus** (Prince George's Co.)



2024 Regional Transit Safety Performance

- Based on data reported by transit agencies to the NTD in FY 2024

2024														
	Fatalities			Injuries			Safety Events		Assaults on Transit Workers		Collisions			
	Number	Rate	Transit Worker Rate	Number	Rate	Transit Worker Rate	Number	Rate	Number	Rate	Rate	Pedestrian Collision Rate	Vehicular Collision Rate	VRM (NTD)
Heavy Rail (HR)	4	0.42	0	284	29.71	5.96	51	5.34	19	1.99	0.73	0.52	0.00	95,590,159
Streetcar Rail (SR)	0	0.00	0	1	0.80	0.00	5	3.98	0	0.00	2.39	0.00	2.39	125,701
Urban Bus (MB)	3	0.004	0	611	0.78	0.13	293	0.37	14	0.02	0.37	0.03	0.32	78,568,870
Commuter Bus (CB)	0	0.00	0	3	0.04	0.01	6	0.09	0	0.00	0.06	0.00	0.06	7,029,009
Demand Response	0	0.00	0	39	0.20	0.05	34	0.17	1	0.01	0.17	0.01	0.15	19,952,978
Vanpools (VP)	0	0.00	0	0	0.00	0.00	0	0	0	0.00	0.00	0.00	0.00	6,539,084

- Rate = Per 100,000 Vehicle Revenue Miles, except HR (per 10M VRM)
- “Safety Events” totals do not include events categorized as Security Events or Not Otherwise Classified (NOC) in the NTD
- Reliability data (MDBF) is not included



2024 Regional Transit Safety Targets

- Final targets for the region adopted by the TPB on December 18, 2024

	Fatalities			Injuries			Safety Events		Assaults on Transit Workers		Collisions			Reliability
	Number	Rate	Transit Worker Rate	Number	Rate	Transit Worker Rate	Number	Rate	Number	Rate	Rate	Pedestrian Collision Rate	Vehicular Collision Rate	MDBF
Heavy Rail (HR)	0	0	0	256	24.20	9.50	127	12.80	586	59.1	2	0.00	2	29,000
Streetcar Rail (SR)	0	0	0	6	6.69	n/a	6	6.69	n/a	n/a	n/a	n/a	n/a	1,000
Urban Bus (MB)	0	0	0	403	0.69	0.19	357	0.61	207	0.37	1.43	0.05	1.12	8,964
Commuter Bus (CB)	0	0	0	6	0.07	0.10	3	0.04	0	0	2	0	2	25,000
Demand Response (DR)	0	0	0	42	0.21	0.07	54	0.27	9	0.04	0.25	0.00	0.25	24,913
Vanpools (VP)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

- Rate = Per 100,000 Vehicle Revenue Miles, except HR (per 10M VRM)
- MDBF = Mean Distance Between Failures



2025 Regional Transit Safety Targets - Draft

- Under Development – Pending count data for collisions and transit worker injury rate calculations, plus other information for three agencies

	Fatalities			Injuries			Safety Events		Assaults on Transit Workers		Collisions			Reliability
	Number	Rate	Transit Worker Rate	Number	Rate	Transit Worker Rate	Number	Rate	Number	Rate	Rate	Pedestrian Collision Rate	Vehicular Collision Rate	MDBF
Heavy Rail (HR)	0	0	0	288	24.60	8.70	124	10.60	545	46.5	2	0.89	0.49	32,000
Streetcar Rail (SR)	0	0	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Urban Bus (MB)	0	0	0	316	0.74	n/a	400	0.94	230	0.54	n/a	n/a	n/a	8,964
Commuter Bus (CB)	0	0	0	0	0.00	0.00	124	0.29	0	0	n/a	n/a	n/a	15,782
Demand Response (DR)	0	0	0	32	0.17	n/a	72	0.39	3	0.02	n/a	n/a	n/a	24,913
Vanpools (VP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0

- Rate = Per 100,000 Vehicle Revenue Miles, except HR (per 10M VRM)
- MDBF = Mean Distance Between Failures



Part III – Next Steps

- Finalize regional transit and highway safety targets and analysis, incorporating any final information and board feedback
- December 17: Request board approval of final regional targets
- TPB staff will subsequently transmit the adopted targets to the State DOTs in accordance with established written agreements for performance planning reporting



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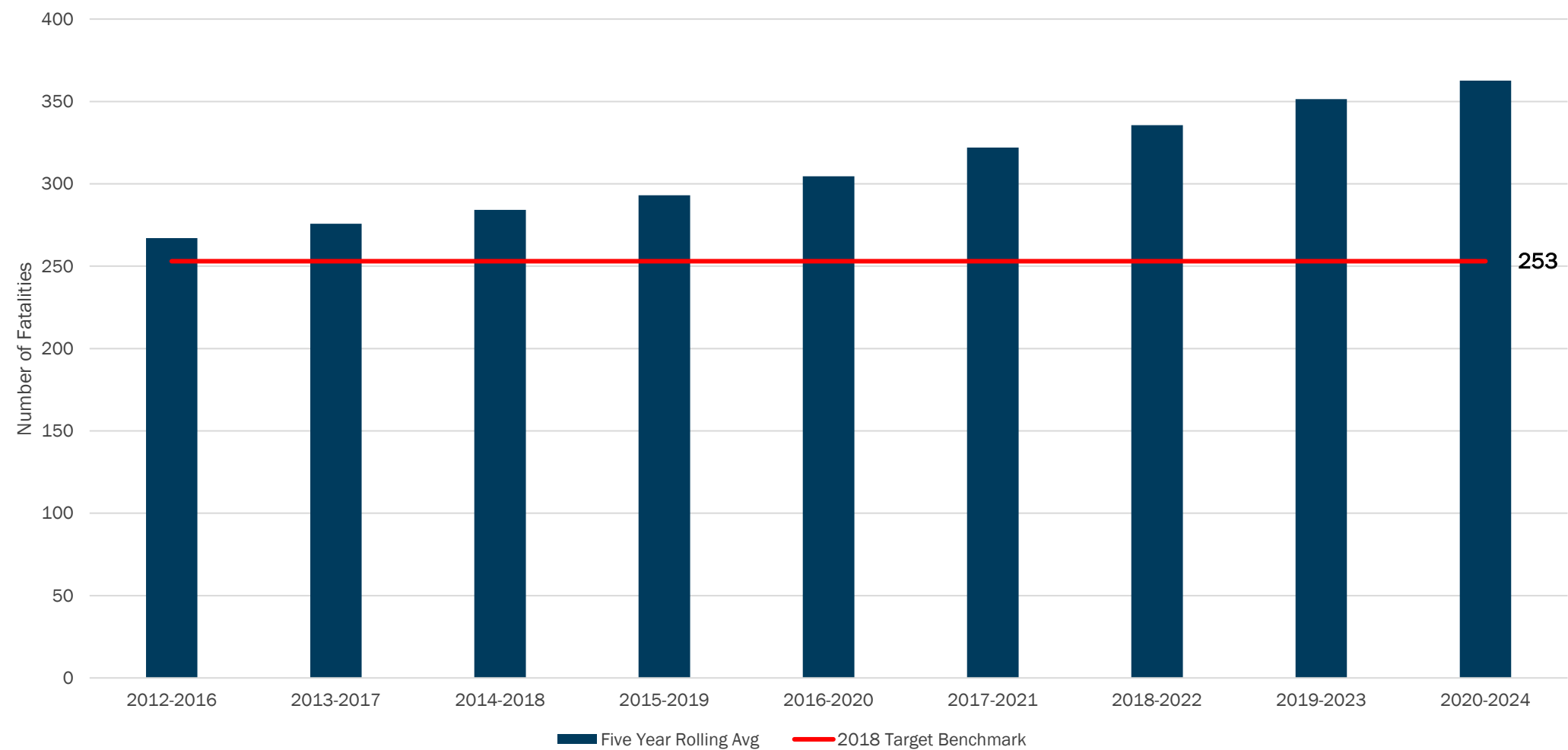
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Appendix

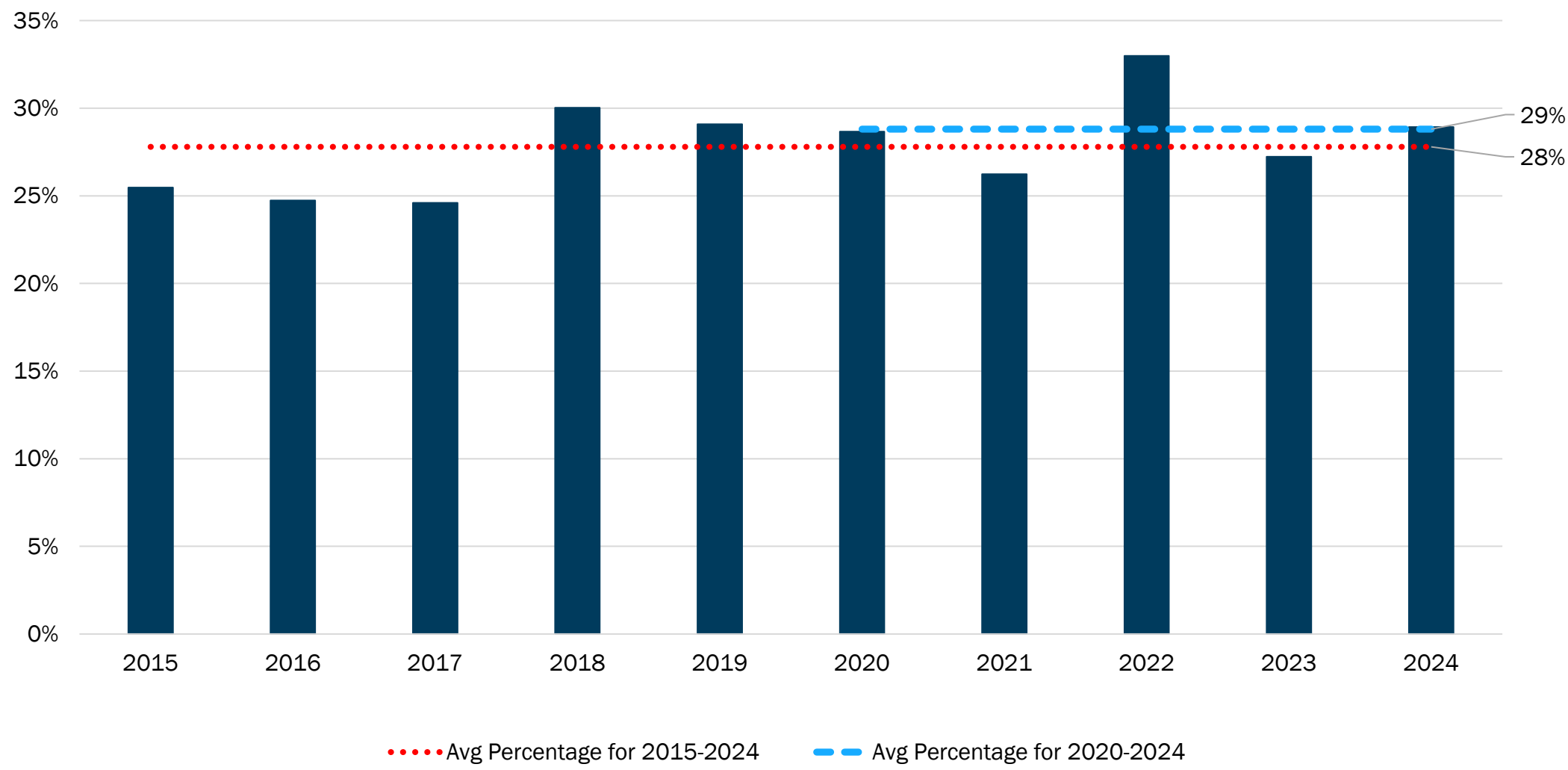


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Fatalities as Five-Year Rolling Average with Target Benchmarks



Pedestrian Fatalities as a Proportion of Total Fatalities



NCR Highway Safety Targets Comparison (Uncapped)

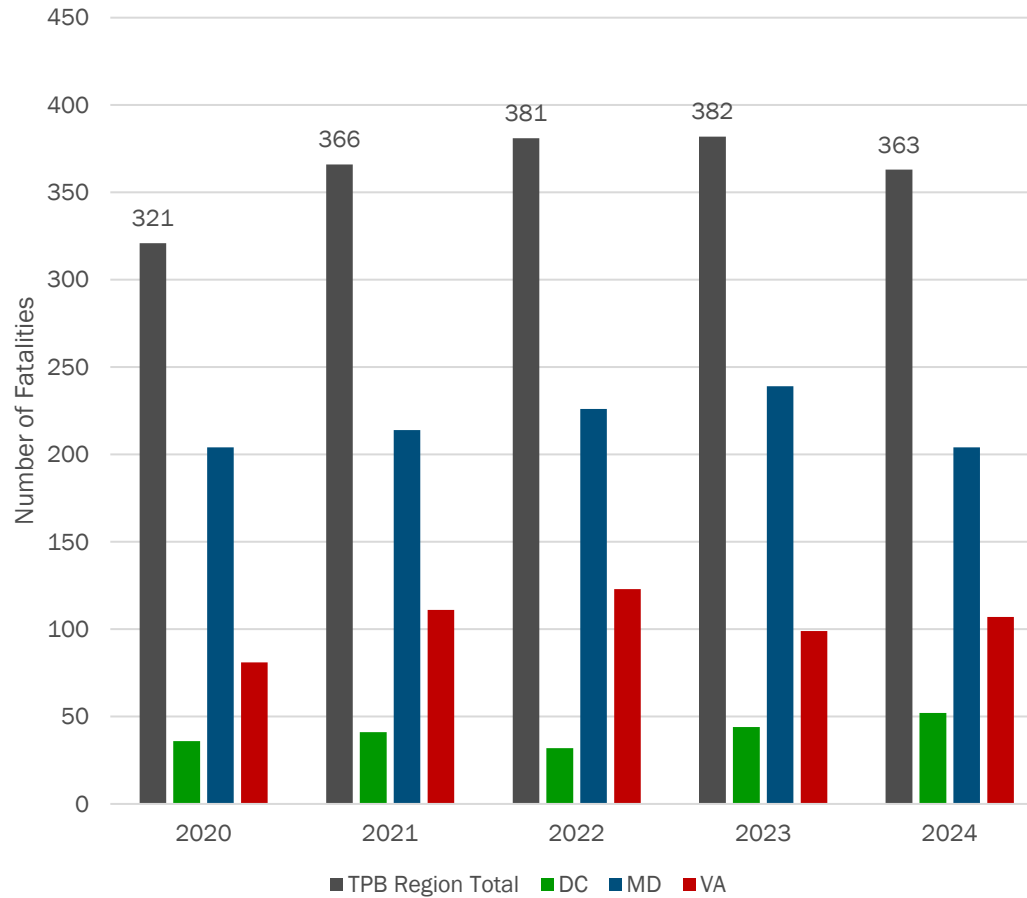
Performance Measure (5-year rolling average)	Uncapped 2021-2025 Targets	DRAFT 2022-2026 Targets	Difference	Percent Difference
# of Fatalities	312.2	<u>327.4</u>	15.2	4.87%
Fatality Rate (per 100 MVMT)	0.751	<u>0.801</u>	0.050	6.658%
# of Serious Injuries	1,661.9	<u>1,592.4</u>	-69.5	-4.2%
Serious Injury Rate (per 100 MVMT)	3.773	<u>4.167</u>	0.394	10.44%
# Nonmotorist Fatalities & Serious Injuries	474.1	<u>399.9</u>	-74.2	-15.65%

¹ 2024 fatality figures from preliminary state data were used pending release of 2024 FARS data.

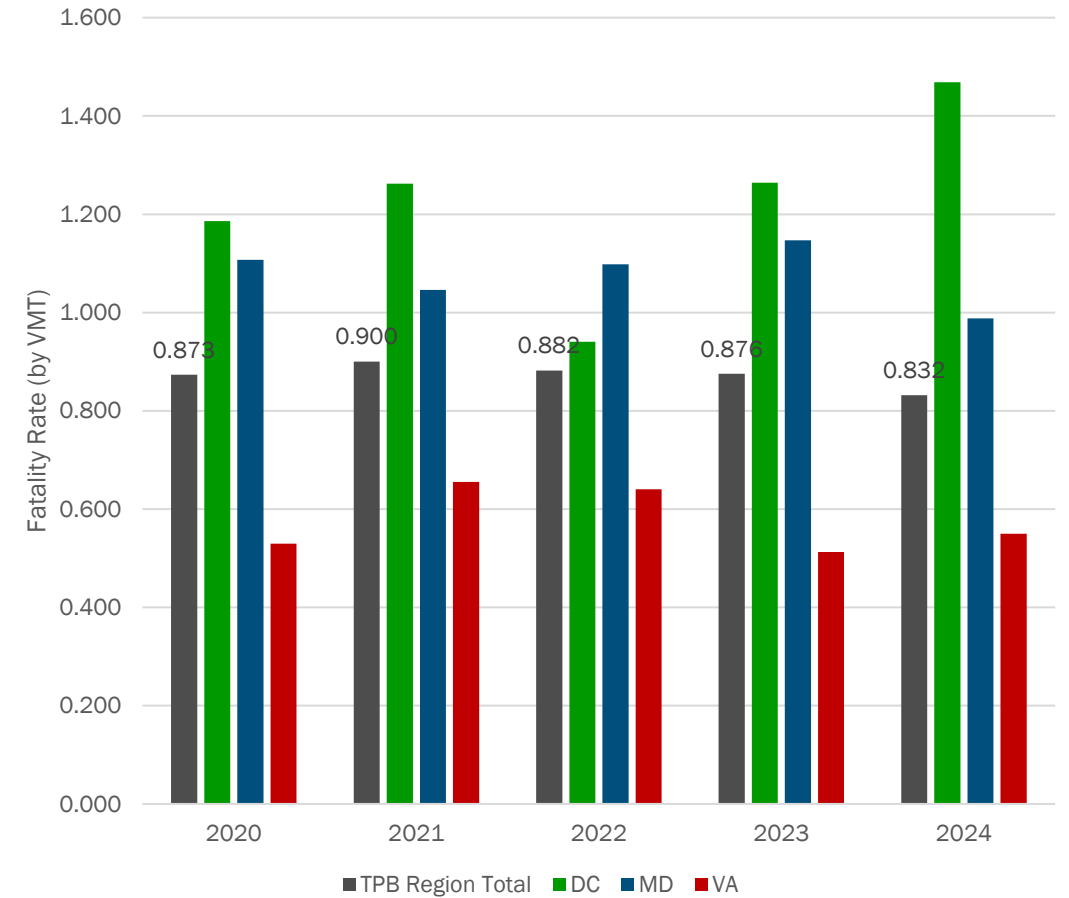


National Capital Region Roadway Fatalities

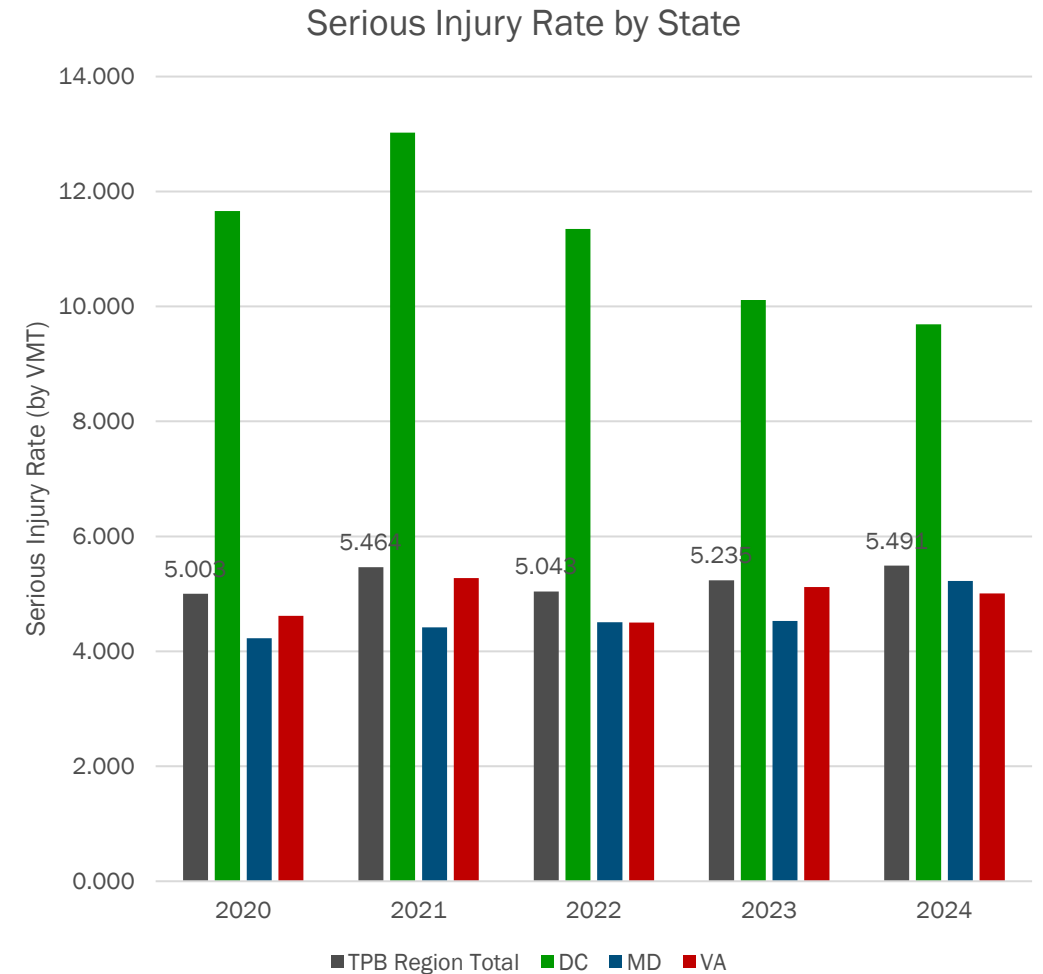
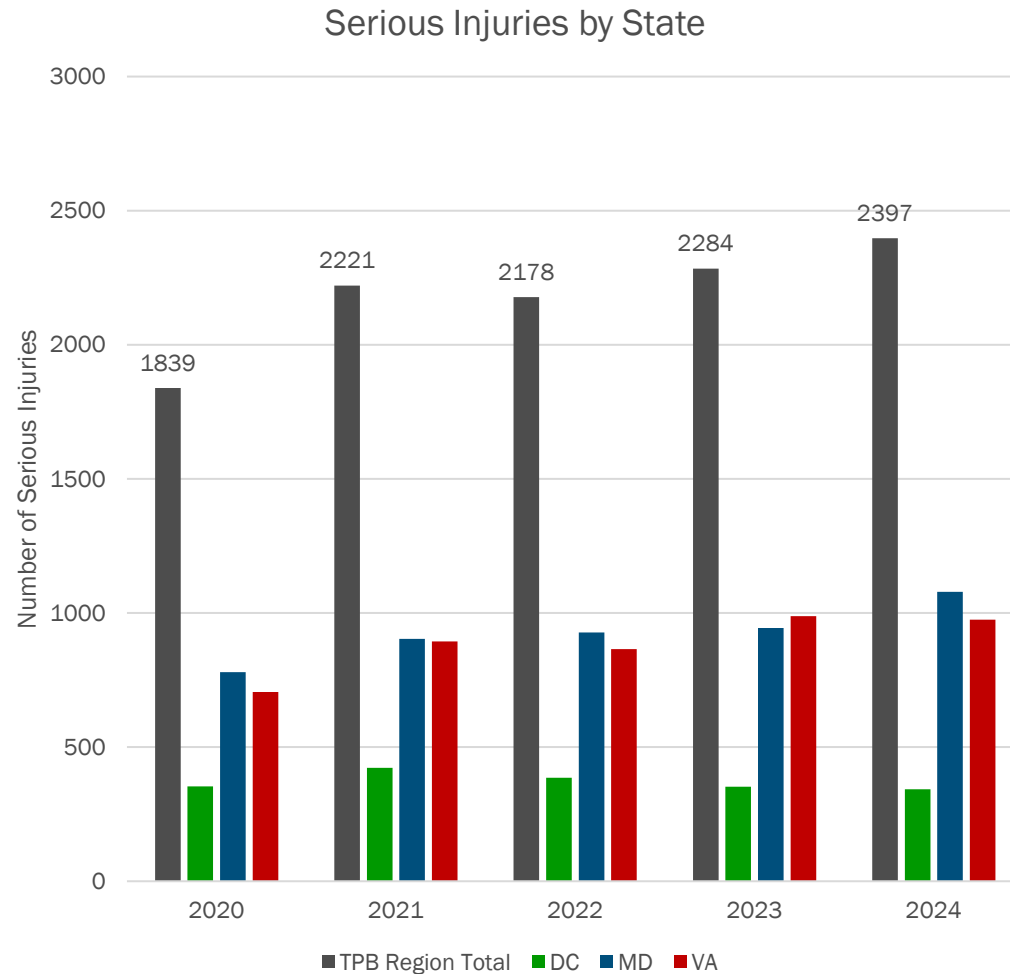
Fatalities by State



Fatality Rates by State

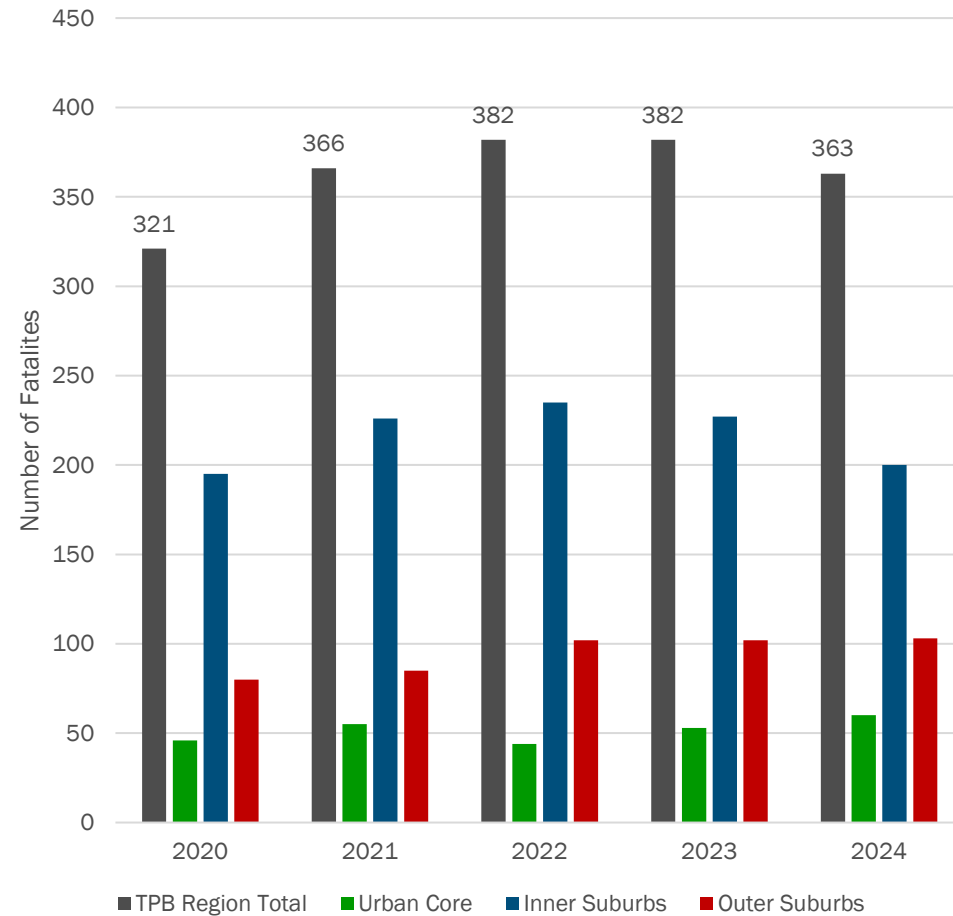


National Capital Region Roadway Serious Injuries



National Capital Region Roadway Fatalities and Serious Injuries

Fatalities by TPB Subregion



Serious Injuries by TPB Subregion

