

PBPP: DRAFT 2019-2023 ROADWAY SAFETY TARGETS

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Presentation Items

- Part I: Review of Federal Requirements
- Part II: Progress Towards the 2017-2021 Safety Targets
- Part III: Staff Recommended 2019-2023 Regional Safety Targets
- Part IV: Next Steps



Part I

Review of Federal Requirements



Federal Requirements

- Federal Highway Administration (FHWA) issued the Safety Performance Management Measures (Safety PM) Final Rule in March 2016, which requires State DOTs and MPOs to:
 - Adopt annual safety performance targets in 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

¹ FARS: Fatality Analysis Reporting System

² HPMS: Highway Performance Monitoring System



Target Setting Methodology

- TPB targets for each of performance measure is a composite of sub-targets developed for each State
 - Apply Maryland’s approach to identify a “sub-target” for the Maryland portion of the NCR
 - Apply a modified version of Virginia’s suggested approach for its MPOs to identify a sub-target for the Virginia portion of the NCR
 - Incorporate the District of Columbia’s target as a sub-target for the DC portion of the NCR
 - 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



Part II

Progress Towards the 2017-2021 Roadway Safety Targets



2017-2021 NCR Actual vs. Targets

Performance Measure (5-year rolling average)	2017-2021 Target	2017-2021 Actual	Status
# of Fatalities	253.0	319.4 ¹	Not met
Fatality Rate (per 100 MVMT)	0.588	0.750 ¹	Not met
# of Serious Injuries	2,435.8	2,301.6	Met
Serious Injury Rate (per 100 MVMT)	5.539	5.393	Met
# Nonmotorist Fatalities & Serious Injuries	508.6	545.1	Not met

Note ¹: Figures listed are a combination of FARS and state fatality data; 2021 FARS data not yet published

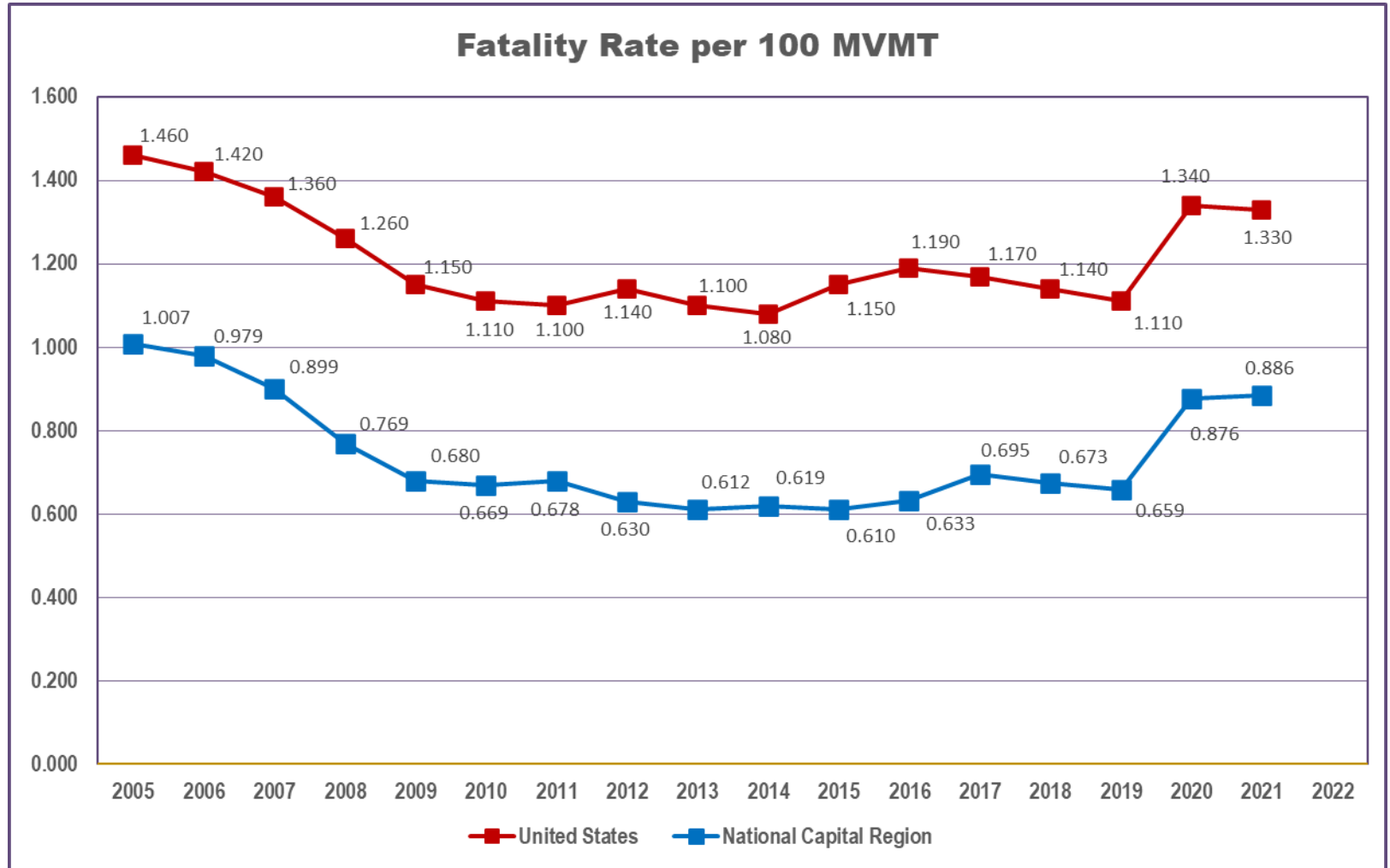


2017-2021 NCR Annual Highway Safety Data

	2017	2018	2019	2020	2021	Change from 2020 to 2021
# of Fatalities	313	303	300	321	360 ¹	↑ 12.1 %
Fatality Rate (per 100 MVMT)	0.695	0.673	0.659	0.876	0.886 ¹	↑ 1.1 %
# of Serious Injuries	2,613	2,464	2,371	1,839	2,221	↑ 20.8 %
Serious Injury Rate (per 100 MVMT)	5.755	5.473	5.211	5.026	5.277	↑ 5.0 %
# Nonmotorist Fatalities & Serious Injuries	586	552	595	440	518	↑ 17.8 %

Note ¹: Figures listed are from state fatality data; 2021 FARS data not yet published

Fatality Rates: USA and National Capital Region



Part III

Staff Recommended 2019-2023 Roadway Safety Targets



NCR Highway Safety Targets (*pre-cap*) - **DRAFT**

	2018-2022 Target	2019-2023 Target	Difference	Percent Difference
# of Fatalities	271.0	<u>282.7</u>	11.7	4.3%
Fatality Rate (per 100 MVMT)	0.632	<u>0.644</u>	0.012	1.9%
# of Serious Injuries	1,889.7	<u>1,757.4</u>	-132.3	-7.0%
Serious Injury Rate (per 100 MVMT)	3.867	<u>3.733</u>	-0.134	-3.5%
# Nonmotorist Fatalities & Serious Injuries	492.4	<u>486.9</u>	-5.5	-1.1%

NCR Highway Safety Targets (*with cap*) - **DRAFT**

	2018-2022 Target	2019-2023 Target	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>	0.000	0.0%
# of Serious Injuries	1,889.7	<u>1,757.4</u>	-132.3	-7.0%
Serious Injury Rate (per 100 MVMT)	3.867	<u>3.733</u>	-0.134	-3.5%
# Nonmotorist Fatalities & Serious Injuries	492.4	<u>486.9</u>	-5.5	-1.1%



Summary: NCR Highway Safety Targets

Performance Measure (5-year rolling average)	Adopted 2017- 2021 Targets	Adopted 2018- 2022 Targets	DRAFT 2019- 2023 Targets	Difference	Percent Difference
# of Fatalities	253.0	253.0	<u>253.0</u>	0.0	0.0%
Fatality Rate (per 100 MVMT)	0.588	0.588	<u>0.588</u>	0.0	0.0%
# of Serious Injuries	2,435.8	1,889.7	<u>1,757.4</u>	-132.3	-7.0%
Serious Injury Rate (per 100 MVMT)	5.539	3.867	<u>3.733</u>	-0.134	-3.5%
# Nonmotorist Fatalities & Serious Injuries	508.6	492.4	<u>486.9</u>	-5.5	-1.1%

Timeline

- November 16: TPB Safety Work Session
- November 16: Present staff-proposed regional safety targets to the TPB
- Finalize staff-proposed targets based on board feedback
- December 21: Request board approval of targets



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