PBPP HIGHWAY SAFETY TARGETS: NATIONAL CAPITAL REGION

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TPB Technical Committee November 2, 2018



Introduction

- Brief review of Highway Safety Performance Measures and Target Setting Requirements
- Introduction of member state speakers



Highway Safety Performance Measures

Performance Measure	Description	Data Source
Number of Fatalities (5 year rolling average)	Total number of fatalities during a calendar year	FARS ¹
Rate of Fatalities per 100 million VMT (5 year rolling average)	Ratio of total fatalities to VMT	FARS and HPMS ² (or MPO estimate)
Number of Serious Injuries (5 year rolling average)	Total number of serious injuries during a calendar year	State reported serious injury data ³
Rate of Serious Injuries per 100 million VMT (5 year rolling average)	Ratio of total serious injuries to VMT	State reported serious injury data ³ and HPMS
Number of Non-Motorized Fatalities and Serious Injuries (5 year rolling average)	Total number of fatalities and serious injuries during a calendar year	FARS and State serious injury data ³

¹ FARS: Fatality Analysis Reporting System



² HPMS: Highway Performance Monitoring System

³ for the first 36 months – after that States must adopt the Model Minimum Uniform Crash Criteria (MMUCC) definition of serious injury

Highway Safety Performance Measures: Annual Target Setting

MPOs

- For each performance measure (PM), the MPO will either:
 - 1) Agree to plan and program projects so they contribute toward accomplishing the state DOT safety target for that PM, or
 - 2) Commit to a quantifiable target for that PM for the metropolitan planning area
 - Each target shall represent anticipated performance outcome for all public roadways in the metropolitan planning area, regardless of ownership
 - MPOs shall coordinate with the state DOT(s) to ensure consistency
- Targets to be reported no more than 180 days after state DOTs have set their targets – (in this case by February 27, 2019)



Highway Safety Performance Measures: FHWA Determination of Significant Progress

State DOTs

- FHWA will only evaluate progress on the 5 statewide performance targets – <u>not</u> on any of the additional targets states might set for urbanized and non-urbanized areas
- A state is determined to have met or made significant progress toward meeting its targets when at least 4 of the targets are either:
 - Met; or
 - The outcome of a performance measure is less than the 5 year rolling average for that performance measure for the year prior to the establishment of the state target

MPOs – not applicable



Highway Safety Performance Measures: Consequences for Failing to Meet Targets or Making Significant Progress

State DOTs

- State DOTs that have not or made significant progress toward meeting safety performance targets must:
 - 1) Use a portion of their obligation only for HSIP projects, and;
 - Submit an annual implementation plan that describes actions the DOT will take to meet their targets

<u>MPOs</u> – Not applicable. However, FHWA will review how MPOs are incorporating and discussing safety performance measures and targets in their long-range plans and TIPs during MPO certification reviews



Member state safety target setting...

Virginia

Stephen Read, Highway Safety Planning Manager, VDOT

Maryland

Kelly L. Melhem, Deputy Chief, Maryland Highway Safety Office, MVA

District of Columbia

Leon Anderson, Transportation Safety Manager, DDOT



Presentation Items

- NCR Safety with final 2017 <u>annual</u> data included
- Review of progress towards the safety targets established last year
- Review of Approach for Setting National Capital Region Safety Targets
- Draft 2018 National Capital Region Safety Targets
- Next Steps



NCR Safety – With Final 2017¹ Annual Data

	2013	2014	2015	2016	2017	Change from 2016 to 2017
# of Fatalities	261	263	263	275	313	↑ 13.8 %
Fatality Rate (per 100 MVMT)	0.612	0.618	0.610	0.635	0.693	↑ 9.2 %
# of Serious Injuries	3,040	2,856	2,642	2,946	2,632	4 10.7 %
Serious Injury Rate (per 100 MVMT)	7.078	6.666	6.112	6.749	5.826	4 13.7 %
# Nonmotorist Fatalities & Serious Injuries	514	549	526	565	556	V 1.6 %

Note ¹: 2017 FARS data was published in October 2018

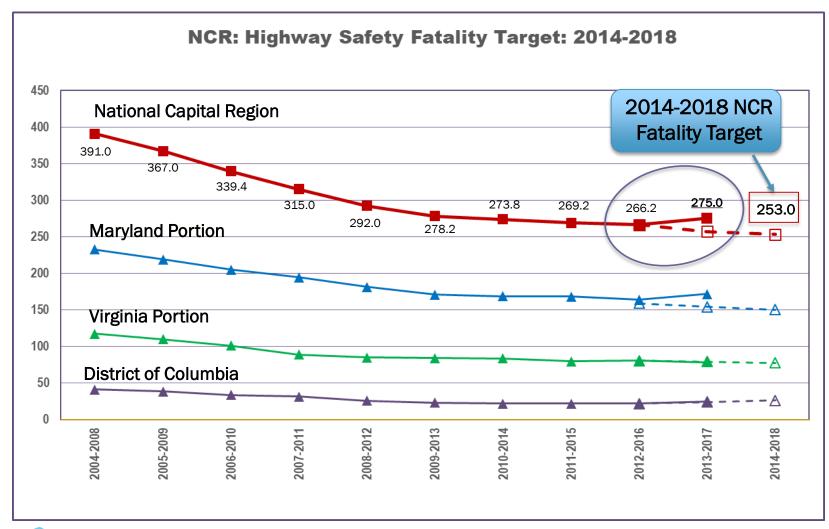


Comparison of NCR 2017 Data with 2014-2018 Targets

- Following six slides cover where we stand today with respect to the targets set last year
- Targets set last year were for the 5 year average of 2014 through 2018 data
- 5-year rolling averages! (not annual data)

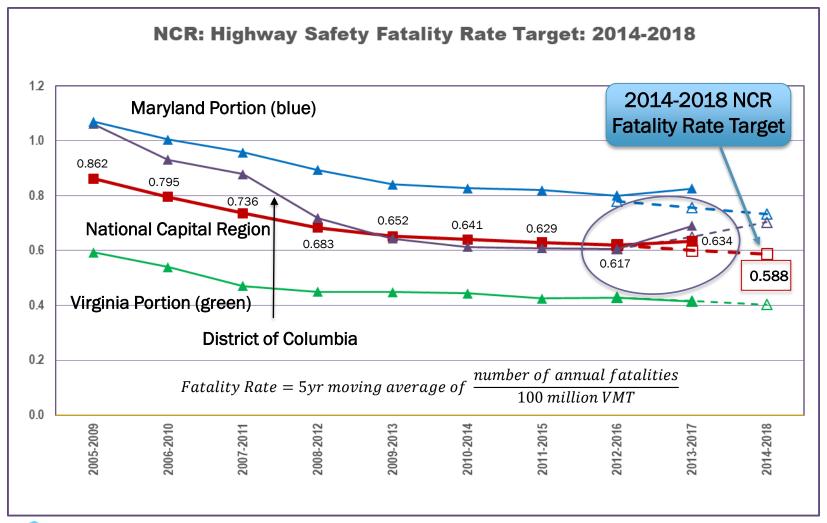


5-yr Average with "New" 2017 Fatality Data Included



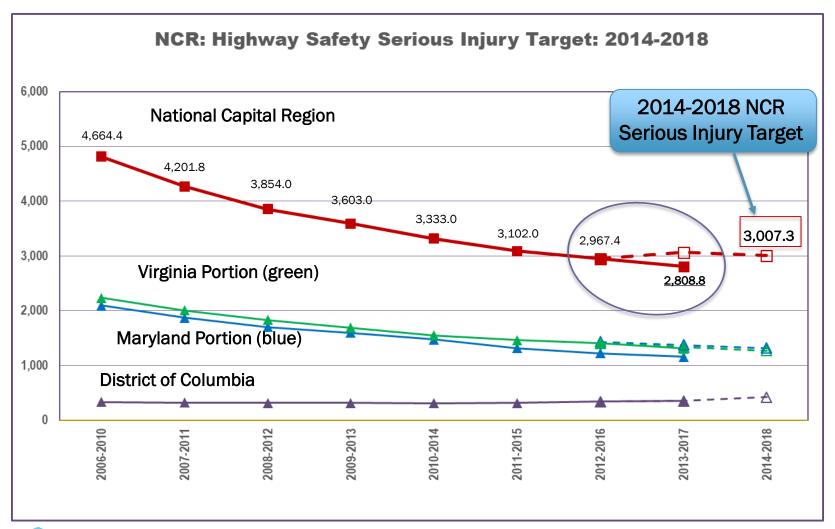


5-yr Average with "New" 2017 Fatality Rate Data Included



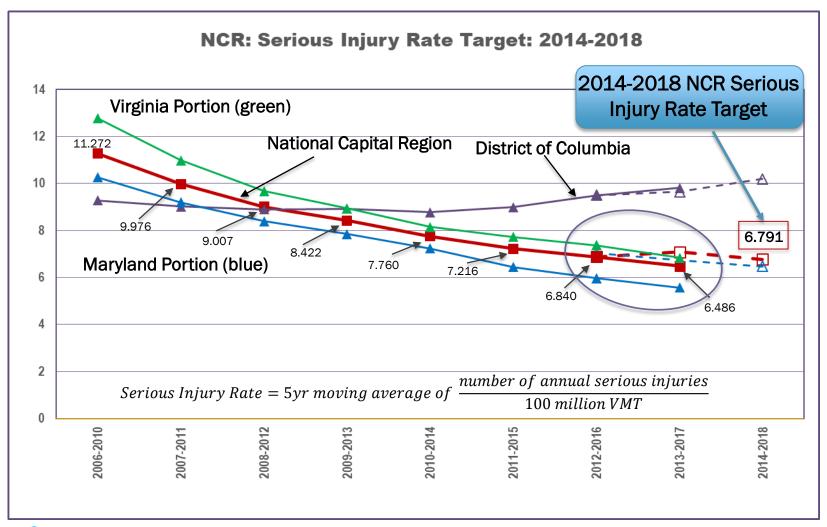


5-yr Average with "New" 2017 Serious Injury Data Included



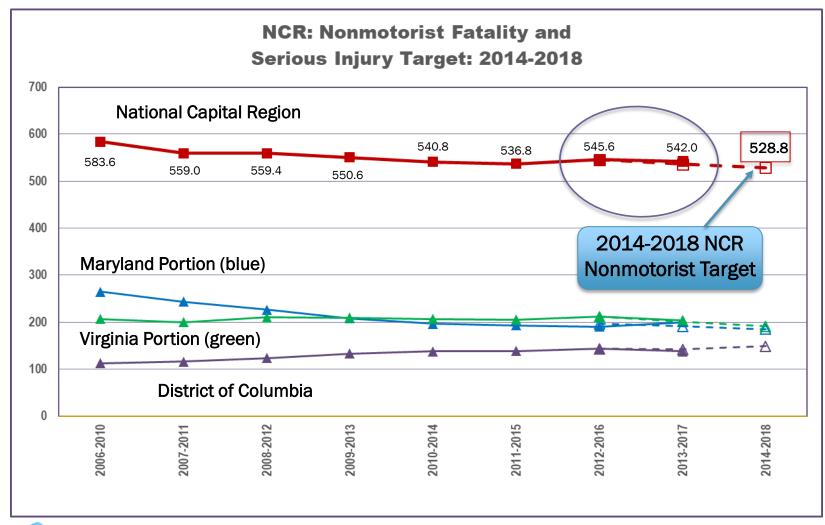


5-yr Average with "New" 2017 Serious Injury Rate Data Included





5-yr Average with "New" 2017 Nonmotorist Data Included



Summary of NCR 2013-2017 Data with 2014-2018 Targets

	2013-2017 Forecast	2013-2017 Actual	2014-2018 Target
# of Fatalities	257.0	275.0	253.0
Fatality Rate (per 100 MVMT)	0.600	0.632	0.588
# of Serious Injuries	3,064.6	2,822.8	3,007.3
Serious Injury Rate (per 100 MVMT)	7.093	6.499	6.791
# Nonmotorist Fatalities & Serious Injuries	536.1	541.8	528.8

Note: numbers shown are 5-year rolling averages



NCR Target Setting Methodology - Options

Option A

- Apply Maryland's approach to identify a "sub-target" for the Maryland portion of the NCR
- Apply Virginia's approach 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
- Same methodology as used for the 2014-2018 targets

Option B

 Same as above, except if a calculated target is higher than the previous target, set the target equal to the previous target



2015-2019 Regional Target Setting: Virginia

Comparison of Virginia targets – last year and this year

Virginia	2014-2018 Target	2015-2019 Target
# of Fatalities	709.0	0.808
Fatality Rate (per 100 MVMT)	0.830	0.944
# of Serious Injuries	7,570.0	7,808.0
Serious Injury Rate (per 100 MVMT)	8.720	9.160
# Nonmotorist Fatalities & Serious Injuries	681.0	720.0



2015-2019 Regional Target Setting: Maryland

Comparison of Maryland targets – last year and this year

Maryland	2014-2018 Target	2015-2019 Target
# of Fatalities	415.6	435.0
Fatality Rate (per 100 MVMT)	0.680	0.771
# of Serious Injuries	3,171.3	3,211.1
Serious Injury Rate (per 100 MVMT)	5.637	5.702
# Nonmotorist Fatalities & Serious Injuries	459.2	473.9



2015-2019 Regional Target Setting: District of Columbia

Comparison of District of Columbia targets – last year and this year

District of Columbia	2014-2018 Forecast	2015-2019 Target
# of Fatalities	26.0	31.0
Fatality Rate (per 100 MVMT)	0.703	0.850
# of Serious Injuries	420.0	417.0
Serious Injury Rate (per 100 MVMT)	10.200	11.477
# Nonmotorist Fatalities & Serious Injuries	148.5	125.0



2015-2019 Regional Target Setting Options A & B

 The following slides show the results obtained from applying each target setting methodology



Summary: NCR Highway Safety Targets – Option A

	2014-2018 Target	2015-2019 Target	Difference	Percent Difference
# of Fatalities	253.0	<u>260.6</u>	7.6	3.0%
Fatality Rate (per 100 MVMT)	0.588	<u>0.611</u>	0.023	3.9%
# of Serious Injuries	3,007.3	<u>2,919.6</u>	-87.7	-2.9%
Serious Injury Rate (per 100 MVMT)	6.791	<u>6.564</u>	-0.217	-3.2%
# Nonmotorist Fatalities & Serious Injuries	528.8	<u>508.6</u>	-20.2	-3.8%

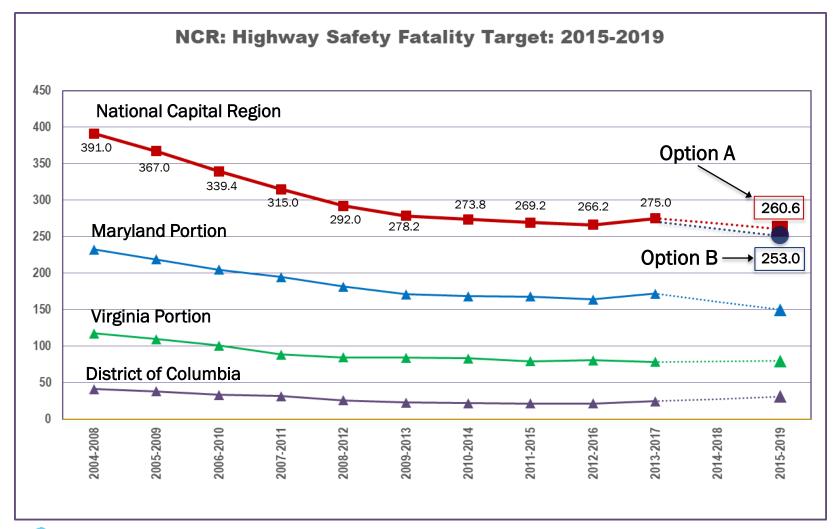


Summary: NCR Highway Safety Targets – Option B

	2014-2018 Target	2015-2019 Target	Difference	Percent Difference
# of Fatalities	253.0	<u>253.0</u> 1	0.0	0.0%
Fatality Rate (per 100 MVMT)	0.588	0.588	0.000	0.0%
# of Serious Injuries	3,007.3	2,919.6	-87.7	-2.9%
Serious Injury Rate (per 100 MVMT)	6.791	<u>6.564</u>	-0.217	-3.2%
# Nonmotorist Fatalities & Serious Injuries	528.8	508.6	-20.2	-3.8%



Option A 2015-2019 Fatality Target: <u>260.6</u>





Next Steps

- Develop NCR 2014-2019 safety target setting approach based on feedback from today's meeting
- Present draft targets to the Technical Committee meeting at the December meeting for further comment
- Present draft targets to the board at the December 2018 TPB meeting
- Finalize draft targets based on board feedback
- Request Board approval of targets at the January 2019 TPB meeting



Questions / Discussion



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