







2022 TRANSIT AGENCY SAFETY TARGETS

Performance-Based Planning and Programming

Eric Randall
TPB Transportation Engineer

TPB Regional Public Transportation Subcommittee October 18, 2022



Presentation Items

- Transit Agency Safety Plans Rule
- Transit Safety Performance Measures
- Applicability
- Adopted 2021 Regional Targets
- 2021 Safety Performance
- Under Development 2022 Regional Targets
- 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
- Applicable transit providers are required to annually set targets for four (4) Transit Safety performance measures
- MPOs have 180 days following to adopt Transit Safety targets for the metropolitan planning area (i.e., regional targets)



Transit Safety Performance Measures

	Performance Measures
Fatalities	Total number of reportable fatalities and the rate per total vehicle revenue miles by mode
Injuries	Total number of reportable injuries and the rate per total vehicle revenue miles by mode
Safety Events*	Total number of reportable events and the rate per total vehicle revenue miles by mode
System Reliability	Mean distance between major mechanical failures by mode

*Collisions, derailments, fires, or life safety evacuations



Applicable Regional Agencies

- Transit safety requirements apply to providers of public transportation that are recipients and sub-recipients of federal Section 5307 funding under FTA regulation
 - WMATA: Metrorail, Metrobus, MetroAccess
 - DDOT: DC Circulator, DC Streetcar
 - MDOT-MTA: MTA Commuter Bus
 - PRTC: Bus and paratransit
 - and local systems in Suburban Maryland:
 - VanGo (Charles Co.)
 - TransIT (Frederick Co.)
 - Ride On (Montgomery Co.)
 - The Bus (Prince George's Co.)



2021 Regional Transit Safety Targets

Final targets for the region adopted by the TPB on November 17, 2021

	Fatalities		Serious Injuries		Safety Events		Reliability
	Number	Rate	Number	Rate	Number	Rate	MDBF
Heavy Rail (HR)	0	0	244	0.31	84	0.11	254,000
Streetcar Rail (SR)	0	0	0	0.00	4	0.27	672
Urban Bus (MB)	0	0	411	0.69	463	0.78	13,654
Commuter Bus (CB)	0	0	6	0.07	20	0.23	13,265
Demand Response (DR)	0	0	40	0.19	18	0.08	0
Vanpools (VP)	0	0	6	0.05	118	1.05	9,500

Rate - Per 100,000 Vehicle Revenue Miles MDBF = Mean Distance Between Failures



2021 Regional Transit Safety Data

From the FTA NTD Safety & Security time-series data

	Fatalities*		Serious Injuries		Safety Events	
	Number	Rate	Number	Rate	Number	Rate
Heavy Rail (HR)	2	0.002	13	0.016	97	0.12
Streetcar Rail (SR)	0	0	0	0	5	4.68
Urban Bus (MB)	6	0.011	0	0	217	0.43
Commuter Bus (CB)	0	0	0	0	1	0.015
Demand Response (DR)	0	0	0	0	30	0.16
Vanpools (VP)	0	0	0	0	0	0

Rate - Per 100,000 Vehicle Revenue Miles



^{*} Excludes suicides

2022 Regional Transit Safety Targets

Under Development - Need MD County info

	Fatalities		Serious Injuries		Safety Events		Reliability
	Number	Rate	Number	Rate	Number	Rate	MDBF
Heavy Rail (HR)	0	0	232	0.29	31	0.04	
Streetcar Rail							
(SR)	0	0	0	0.00	0	0.00	
Urban Bus (MB)	0	0	231	0.46	184	0.36	
Commuter Bus (CB)	0	0	4	0.06	2	0.03	
Demand							
Response (DR)	0	0	0	0.00	33	0.19	
Vanpools (VP)	0	0	4	0.04	0	0.00	53000

Rate - Per 100,000 Vehicle Revenue Miles MDBF = Mean Distance Between Failures



Schedule

- Now Collect 2022 targets, previous year's performance vs. target information from applicable Transit Agencies
- Today TPB Regional Public Transportation Subcommittee briefed on draft 2022 targets
- November Technical Committee briefed on requirements and draft 2022 regional safety targets
- November TPB briefed on requirements and draft 2022 regional safety targets
- December TPB will be asked to adopt resolution with final regional transit safety targets



Eric Randall

TPB Transportation Engineer (202) 962-3254 erandall@mwcog.org

MWCOG.ORG/TPB

777 North Capitol Street NE, Suite 300 Washington, DC 20002



Calculation of Regional Safety Targets

Targets for the region based on those adopted or identified by each provider of public transportation

Measures are calculated for each mode:

- Number of Fatalities/Serious Injuries/Incidents total number for all providers of that mode
- Rate of Fatalities/Serious Injuries/Incidents 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)
- 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

