

10. Safety Performance Measures

BACKGROUND

The Federal Highway Administration requires an annual submission of safety performance measures by state department of transportation and metropolitan planning organizations. The five federal safety performance measures are listed below.

1. Number of fatalities
2. Rate of fatalities (per 100 million vehicle miles traveled (VMT))
3. Number of serious injuries
4. Rate of serious injuries (per 100 million vehicle miles traveled)
5. Number of non-motorized fatalities and serious injuries (pedestrians and bicyclists).

The Houston-Galveston Area Council uses a methodology of a five-year rolling average to determine safety performance measures. The data used to determine the measurements are derived from the Fatality Analysis Reporting System (FARS) and the Texas Department of Transportation (TxDOT) Crash Record Information System (CRIS) data.

CURRENT SITUATION

The table below shows the H-GAC safety performance measures:

Year	2019	2020	2021	2022	2023	Five Year Average
Number of Fatalities	641	717	849	839	779	765
100 million VMT	619.37	563.35	586.2	594.6	692.2	
Rate of Fatalities	1.03	1.27	1.45	1.41	1.13	1.26
Number of Serious Injuries	3,260	3,416	4,377	4,264	4,239	3,911
Rate of Serious Injuries	5.26	6.06	7.47	7.17	6.13	6.42
Number of Non-motorized Fatalities and Non-motorized Serious Injuries	716	629	787	806	883	764

Data for 2023 was generated on 01/11/2024 from CRIS.

ACTION REQUESTED

For Discussion. [No Action Requested]

I Performance Measures and Targets

Total number of traffic fatalities

Decrease the expected rise of fatalities to no more than a five-year average of 765 fatalities in 2024. The 5-year average is as follows:

Year	Actual Data	Source
2019	641	FARS
2020	717	FARS
2021	849	CRIS
2022	839	CRIS
2023	779	CRIS
5-year average		765

Total number of serious injuries

Decrease the expected rise of serious injuries to no more than a five-year average of 3,911 serious injuries in 2024. The 5-year average is as follows:

Year	Actual Data	Source
2019	3,260	CRIS
2020	3,416	CRIS
2021	4,377	CRIS
2022	4,264	CRIS
2023	4,239	CRIS
5-year average		3,911

Fatalities per 100 million vehicle miles traveled

Decrease the expected rise of fatalities per 100 million VMT to no more than a five-year average of 1.26 fatalities per 100 million VMT in 2024. The 5-year average is as follows:

Year	Actual Data	Source
2019	1.03	FARS
2020	1.27	FARS
2021	1.45	CRIS
2022	1.41	CRIS
2023	1.13	CRIS
5-year average		1.26

Serious Injuries per 100 million vehicle miles traveled

Decrease the serious injuries per 100 million VMT to no more than a five-year average of 6.42 serious injuries per 100 million VMT in 2024. The 5-year average is as follows:

Year	Actual Data	Source
2019	5.26	CRIS
2020	6.06	CRIS
2021	7.47	CRIS
2022	7.17	CRIS
2023	6.13	CRIS
5-year average		6.42

Non-motorized fatalities and serious injuries

Decrease the expected rise of non-motorized fatalities and serious injuries (pedestrians and bicyclists) to not more than a five year average of 764. The 5-year average is as follows:

Year	Actual Data	Source
2019	716	FARS-CRIS
2020	629	FARS-CRIS
2021	787	CRIS
2022	806	CRIS
2023	883	CRIS
5-year average		764