



**Massachusetts Bay  
Transportation Authority**

# Safety Data Report

Ronald Ester, Chief Safety Officer  
June 23, 2022

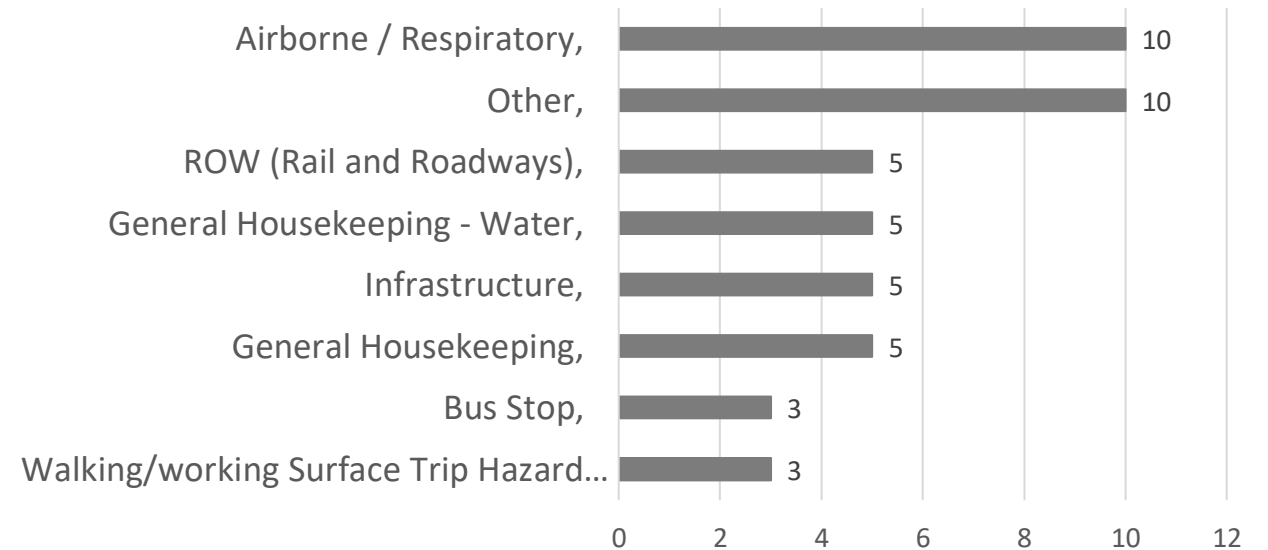
# SAFETY HOTLINE REPORTING SYSTEM

## Safety Hotline Reporting Options

- Safety Hotline: (617) 222-SAFE/7233
- Safety Notification email: [SafetyNotification@mbta.com](mailto:SafetyNotification@mbta.com)
- Direct reporting to an MBTA Safety official
- Submitting Form B by email, to an MBTA Safety official, or by fax: (617) 222-5127

Month	Total Reports	Closed
Feb 2022	24	18
Mar 2022	23	15
April 2022	24	12
<b>Total</b>	<b>71</b>	<b>45</b>

Safety Hotline Reports by Hazard Types (3 or more):  
Last 3 months



# BUS

## SAFETY PERFORMANCE INDICATORS

Bus - Safety Performance Indicators																			
Bus	2021 Monthly Target	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	2021 Target	2021 Total	2022 Monthly Target	Jan-22	Feb-22	Mar-22	Apr-22	2022 Target	2022 YTD
Fatalities - Total <sup>1</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NTD Reportable Safety Events - Rate per million revenue miles	6.00	6.04	4.25	2.56	2.00	4.29	5.33	3.46	1.02	6.65	6.00	3.71	5.21	4.26	2.37	3.63	3.83	5.21	3.55
NTD Reportable Injuries - Rate per million revenue miles	15.50	9.29	8.50	11.24	11.53	11.93	13.86	9.90	10.22	17.90	15.50	11.01	14.00	9.59	12.42	9.86	11.50	14.00	10.79
Customer Injuries - Rate per million passenger trips	2.95	3.56	2.14	3.44	2.51	2.40	3.31	2.62	2.23	4.71	2.95	2.99	2.93	2.18	3.30	2.74	2.57	2.93	2.70
Collisions - Rate per million revenue miles	85.63	54.78	61.90	64.39	57.64	59.18	73.02	60.37	58.27	64.44	85.63	58.60	57.42	74.58	79.83	77.88	63.50	57.42	73.89
with Vehicle - Rate per million revenue miles	N/A	44.10	47.72	49.06	43.60	46.29	59.16	48.00	47.53	48.59	N/A	45.08	44.18	59.66	61.50	60.75	53.10	44.18	58.73
with Object - Rate per million revenue miles	N/A	6.50	10.39	10.73	11.53	8.59	9.59	9.40	9.71	11.25	N/A	9.93	9.73	11.72	14.78	13.50	7.66	9.73	11.88
with Person - Rate per million revenue miles	N/A	1.39	2.83	1.53	0.50	3.34	1.07	2.47	1.02	1.53	N/A	1.54	1.51	0.53	1.77	2.08	1.09	1.51	1.37
with T Vehicle - Rate per million revenue miles	N/A	2.79	0.94	3.07	2.00	0.95	3.20	0.49	0.00	3.07	N/A	2.04	2.00	2.66	1.77	1.56	1.64	2.00	1.91
Reportable Smoke/Fire Incidents	1	0	3	0	3	2	1	1	3	2	15	16	1	1	0	0	1	15	2
Mean Miles between Mechanical Failures	18,000	29,916	34,707	32,075	32,018	23,284	29,301	26,073	22,281	31,775	18,000	28,638	25,000	18,531	22,047	26,099	25,623	25,000	22,813

In March 2022, bus ridership was at approximately 68% of the 2019 ridership.



# RAIL

## SAFETY PERFORMANCE INDICATORS - Heavy Rail

Heavy Rail - Safety Performance Indicators																				
Heavy Rail	2021 Monthly Target	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	2021 Target	2021 Total	2022 Monthly Target	Jan-22	Feb-22	Mar-22	Apr-22	2022 Target	2022 YTD	
Fatalities - Total <sup>1</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
NTD Reportable Safety Events - Rate per million revenue miles	1.00	0.00	1.74	1.76	0.51	1.00	1.62	0.52	1.63	1.04	1.00	1.09	1.00	0.00	1.78	0.52	1.09	1.00	0.82	
NTD Reportable Injuries - Rate per million revenue miles	9.45	8.06	5.81	8.78	6.67	6.02	7.02	13.12	10.34	8.87	9.45	8.39	8.46	12.54	10.66	9.32	12.56	8.46	11.26	
Mainline Revenue Train Derailments	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	
Mainline Non-Revenue Train Derailments	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	
Mean Miles between Mechanical Failures	47,000	55,634	41,955	47,064	48,344	51,118	40,399	29,975	39,987	42,484	47,000	44,617	47,500	26,193	33,891	43,898	51,900	47,500	36,574	

Orange Line	2021 Monthly Target	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	2021 Target	2021 Total	2022 Monthly Target	Jan-22	Feb-22	Mar-22	Apr-22	2022 Target	2022 YTD
Customer Injuries - Rate per million passenger trips	2.99	2.61	2.26	3.53	2.78	2.20	1.52	4.95	3.09	2.53	2.99	3.12	3.06	1.57	3.25	3.02	3.48	3.06	2.90
Collisions - Rate per million revenue miles	0.77	5.32	4.28	2.25	0.00	3.54	2.01	2.12	0.00	2.13	0.77	2.32	2.27	0.00	0.00	0.00	0.00	2.27	0.00
Reportable Smoke/Fire Incidents	5	4	6	2	3	1	2	0	3	2	56	29	2	1	5	2	7	28	15

Red Line	2021 Monthly Target	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	2021 Target	2021 Total	2022 Monthly Target	Jan-22	Feb-22	Mar-22	Apr-22	2022 Target	2022 YTD
Customer Injuries - Rate per million passenger trips	4.36	4.67	2.08	2.26	2.45	2.33	1.98	1.79	3.55	1.89	4.36	3.05	3.01	5.75	3.99	2.51	3.27	3.01	3.69
Collisions - Rate per million revenue miles	0.48	1.10	0.00	2.14	1.89	0.00	0.00	0.00	2.85	0.91	0.48	0.90	0.88	1.88	0.00	0.84	0.00	0.88	0.68
Reportable Smoke/Fire Incidents	5	6	4	9	2	6	3	5	4	5	63	71	5	6	11	5	5	70	27

Blue Line	2021 Monthly Target	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	2021 Target	2021 Total	2022 Monthly Target	Jan-22	Feb-22	Mar-22	Apr-22	2022 Target	2022 YTD
Customer Injuries - Rate per million passenger trips	1.02	0.00	1.23	0.00	0.00	0.00	0.00	2.65	1.07	3.52	1.02	1.07	1.05	3.88	0.00	0.00	1.02	1.05	1.09
Collisions - Rate per million revenue miles	0.21	0.00	3.06	0.00	0.00	2.74	0.00	0.00	0.00	0.00	0.21	0.73	0.72	6.03	0.00	2.79	0.00	0.72	2.28
Reportable Smoke/Fire Incidents	1	0	1	1	1	0	0	0	0	1	6	11	1	0	0	0	1	11	1

In April 2022, heavy rail ridership was at approximately 49% of the ridership compared to 2019.



# RAIL

## SAFETY PERFORMANCE INDICATORS – Light Rail

Light Rail - Safety Performance Indicators																				
Light Rail	2021 Monthly Target	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	2021 Target	2021 Total	2022 Monthly Target	Jan-22	Feb-22	Mar-22	Apr-22	2022 Target	2022 YTD	
Fatalities - Total <sup>1</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NTD Reportable Safety Events - Rate per million revenue miles	5.83	0.00	2.65	2.48	4.72	11.67	0.00	2.10	2.07	3.99	5.83	3.21	5.58	6.27	6.79	8.05	4.16	5.58	6.32	
NTD Reportable Injuries - Rate per million revenue miles	17.25	5.13	21.20	9.93	68.38	9.33	10.94	10.52	8.29	9.97	17.25	16.60	14.70	10.45	22.64	14.09	10.40	14.70	14.23	
Mainline Revenue Train Derailments	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	
Mainline Non-Revenue Train Derailments	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	
Mean Miles between Mechanical Failures	7,000	12,202	7,814	7,280	5,721	6,077	7,308	7,516	8,393	7,817	7,000	7,780	7,500	7,329	5,311	7,558	9,806	7,500	7,277	
Green Line	2021 Monthly Target	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	2021 Target	2021 Total	2022 Monthly Target	Jan-22	Feb-22	Mar-22	Apr-22	2022 Target	2022 YTD	
Customer Injuries - Rate per million passenger trips	4.23	1.61	1.60	2.00	14.37	1.60	1.69	1.60	1.55	1.56	4.23	3.53	3.48	2.00	3.00	2.21	1.82	3.48	2.23	
Collisions - Rate per million revenue miles	6.65	0.00	5.30	2.48	9.43	4.67	2.19	2.10	4.14	7.98	6.65	4.53	4.44	6.27	11.32	6.04	6.24	4.44	7.38	
Reportable Smoke/Fire Incidents	4	1	2	3	0	2	1	0	7	5	45	34	3	3	8	4	2	33	17	

In April 2022, light rail ridership was at approximately 47% of the ridership compared to 2019.

