



**Massachusetts Bay
Transportation Authority**

Safety Data Report

May 26, 2022

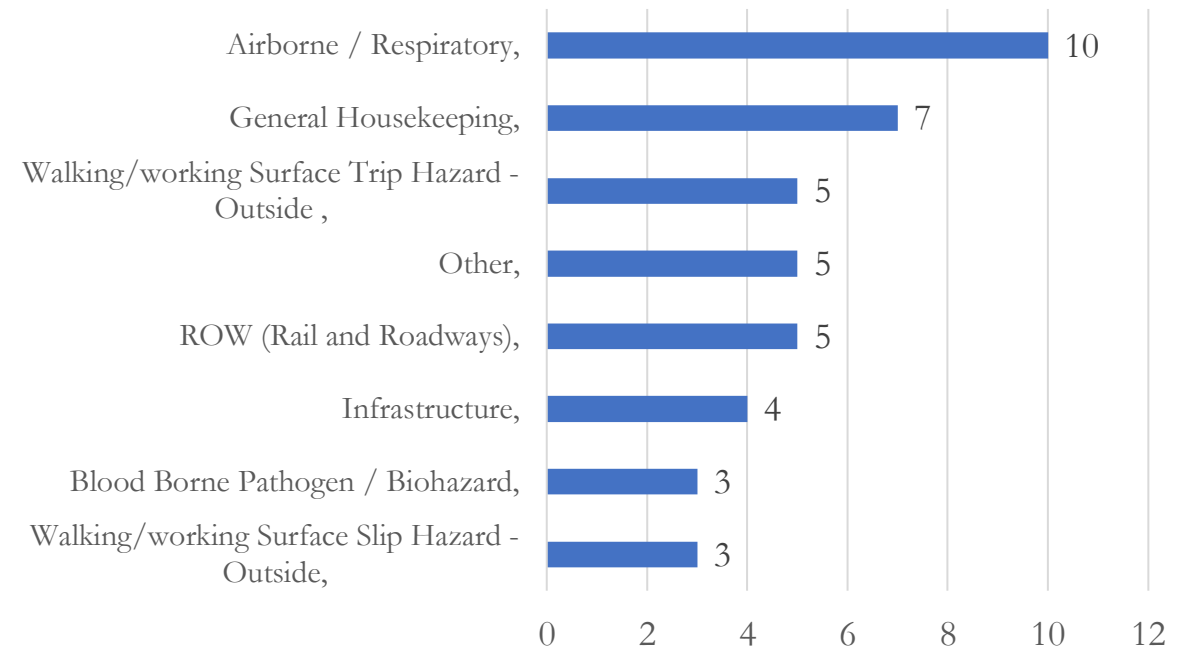
SAFETY HOTLINE

Safety Hotline Reporting Options

- Safety Hotline: (617) [REDACTED]
- Safety Notification email: [REDACTED]
- Direct reporting to an MBTA Safety official
- Submitting Form B by email, to an MBTA Safety official, or by fax: (617) [REDACTED]

Month	Total Reports	Closed
Jan 2022	15	11
Feb 2022	24	17
Mar 2022	23	11
Total	62	39

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



BUS

SAFETY PERFORMANCE INDICATORS

Bus - Safety Performance Indicators																			
Bus	2021 Monthly Target	Mar-21	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	2022 Target	2022 YTD
Fatalities - Total	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	3.55	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	5.21	3.46
NTD Reportable Injuries - Rate per million revenue miles	15.50	12.69	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	14.00	10.56
Customer Injuries - Rate per million passenger trips	2.95	3.83	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	2.93	2.75
Collisions - Rate per million revenue miles	85.63	49.22	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	57.42	77.35
with Vehicle - Rate per million revenue miles	N/A	31.97	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	44.18	60.61
with Object - Rate per million revenue miles	N/A	14.21	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	9.73	13.29
with Person - Rate per million revenue miles	N/A	1.01	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	1.51	1.46
with T Vehicle - Rate per million revenue miles	N/A	2.03	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	2.00	2.00
Reportable Smoke/Fire Incidents	1	1	0	3	0	3	2	1	1	3	2	15	16	1	1	0	0	15	1
Mean Miles between Mechanical Failures	18,000	32,886	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	25,000	21,977

RAIL

SAFETY PERFORMANCE INDICATORS - Heavy Rail

Heavy Rail - Safety Performance Indicators																				
Heavy Rail	2021 Monthly Target	Mar-21	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	2022 Target	2022 YTD	
Fatalities - Total	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	1.00	1.17	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	1.00	0.73	
NTD Reportable Injuries - Rate per million revenue miles	9.45	9.94	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	8.46	10.82	
Mainline Revenue Train Derailments	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	
Mainline Non-Revenue Train Derailments	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Mean Miles between Mechanical Failures	47,000	76,206	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	47,500	33,272	

Orange Line	2021 Monthly Target	Mar-21	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	2022 Target	2022 YTD
Customer Injuries - Rate per million passenger trips	2.99	3.44	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	3.20	3.09	3.06	2.69
Collisions - Rate per million revenue miles	0.77	3.07	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	2.27	0.00
Reportable Smoke/Fire Incidents	5	3	4	6	2	3	1	2	0	3	2	56	29	2	1	5	2	28	8

Red Line	2021 Monthly Target	Mar-21	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	2022 Target	2022 YTD
Customer Injuries - Rate per million passenger trips	4.36	5.62	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	3.93	2.59	3.01	3.88
Collisions - Rate per million revenue miles	0.48	0.00	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	0.88	0.91
Reportable Smoke/Fire Incidents	5	10	6	4	9	2	6	3	5	4	5	63	71	5	6	11	5	70	22

Blue Line	2021 Monthly Target	Mar-21	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	2022 Target	2022 YTD
Customer Injuries - Rate per million passenger trips	1.02	0.00	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	1.05	1.12
Collisions - Rate per million revenue miles	0.21	0.00	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	0.72	2.98
Reportable Smoke/Fire Incidents	1	2	0	1	1	1	0	0	0	0	1	6	11	1	0	0	0	11	0

In March 2022, heavy rail ridership was at approximately 53% of the ridership compared to 2019.



RAIL

SAFETY PERFORMANCE INDICATORS – Light Rail

Light Rail - Safety Performance Indicators																				
Light Rail	2021 Monthly Target	Mar-21	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	2022 Target	2022 YTD	
Fatalities - Total	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	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	5.58	7.06	
NTD Reportable Injuries - Rate per million revenue miles	17.25	18.27	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	14.70	15.53	
Mainline Revenue Train Derailments	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	
Mainline Non-Revenue Train Derailments	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	
Mean Miles between Mechanical Failures	7,000	9,511	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	7,500	6,612	
Green Line	2021 Monthly Target	Mar-21	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	2022 Target	2022 YTD	
Customer Injuries - Rate per million passenger trips	4.23	5.88	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	2.75	2.41	3.48	2.41	
Collisions - Rate per million revenue miles	6.65	2.28	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	4.44	7.76	
Reportable Smoke/Fire Incidents	4	3	1	2	3	0	2	1	0	7	5	45	34	3	3	8	4	33	15	

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

