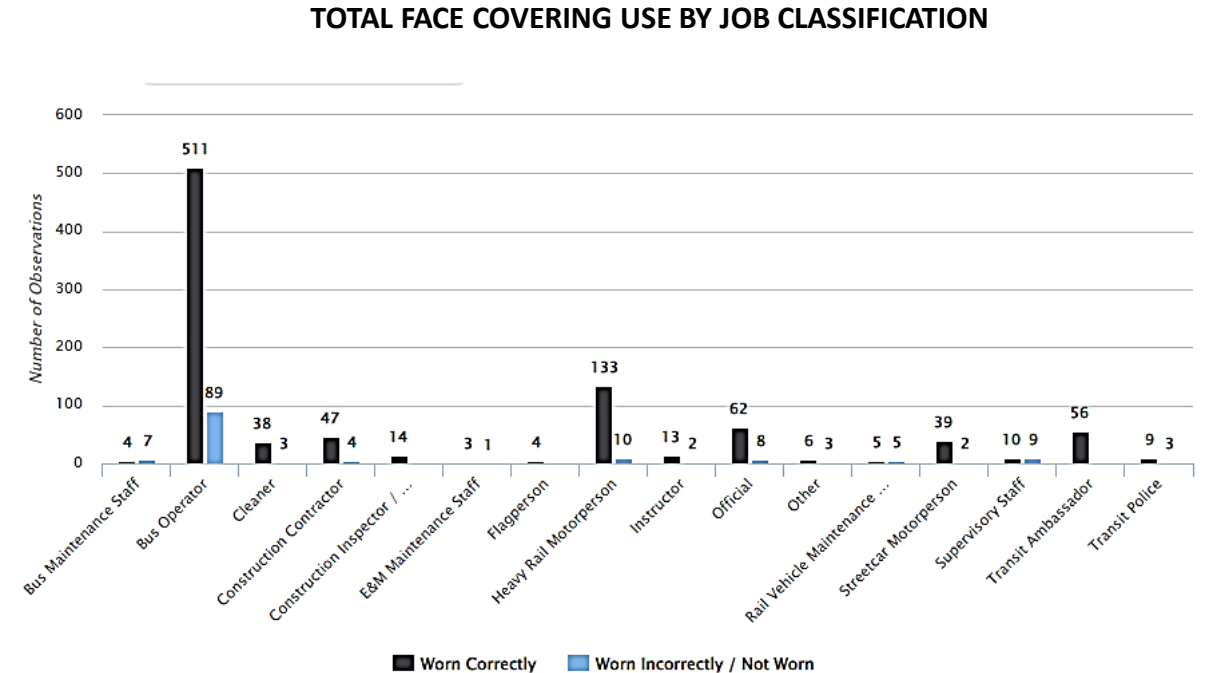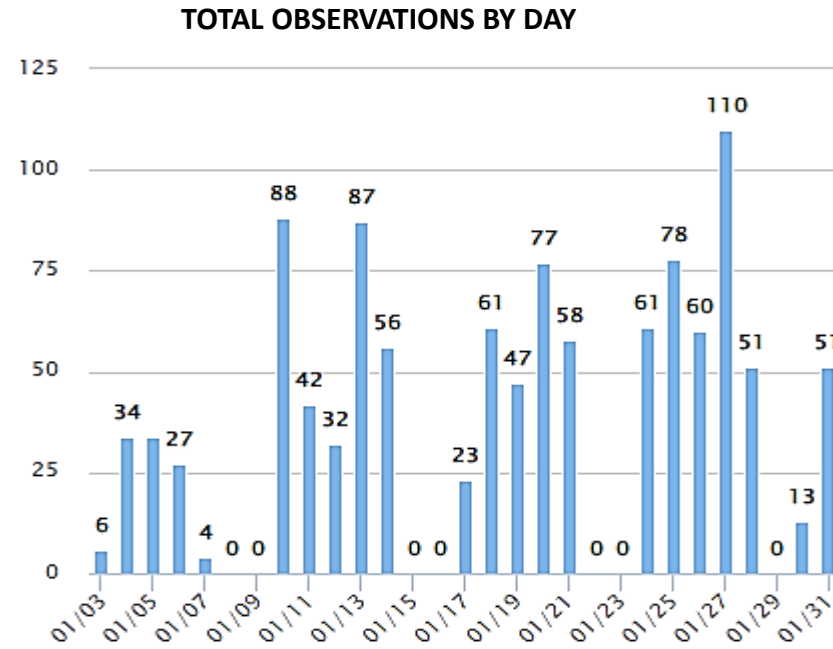# Massachusetts Bay Transportation Authority

Safety Data Report

March 24, 2022

COVID-19

Face Covering Observations

In January, there were 1,100 observations with approximately 86.73% compliant, 11.73% not in compliance, and 1.55% in possession of a face covering but not wearing it appropriately or in accordance with the policy.

The most commonly observed groups during this period were Bus Operators (54.55%), Heavy Rail Motorperson (13.00%), and Officials (6.36%).
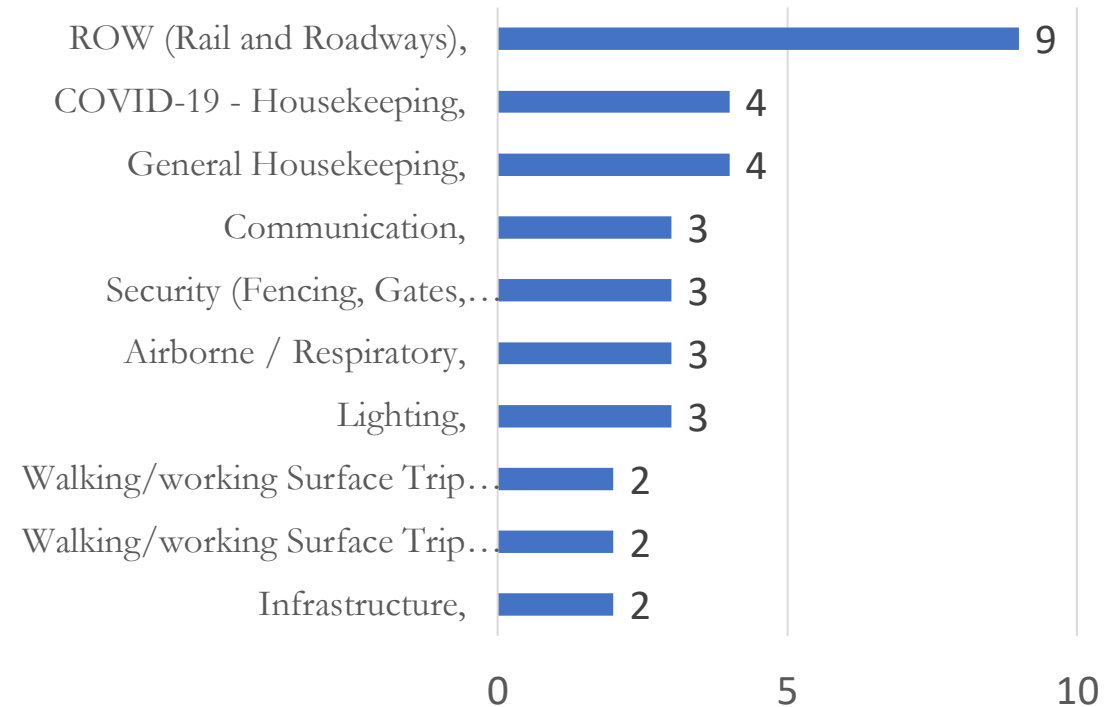
SAFETY HOTLINE
REPORTING SYSTEM

Safety Hotline Reporting Options
- Safety Hotline: (617) 222-SAFE/7233
- Safety Notification email:
  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
Nov 2021	21	13
Dec 2021	14	9
Jan 2022	15	7
Total	**50**	**29**

Safety Hotline Reports by Hazard Types (2 or more): Last 3 months

Hazard Type	Count
ROW (Rail and Roadways),	9
COVID-19 - Housekeeping,	4
General Housekeeping,	4
Communication,	3
Security (Fencing, Gates,…	3
Airborne / Respiratory,	3
Lighting,	3
Walking/working Surface Trip…	2
Walking/working Surface Trip…	2
Infrastructure,	2

BUS

SAFETY PERFORMANCE INDICATORS

Bus - Safety Performance Indicators																			
Bus	2021 Monthly Target	Jan-21	Feb-21	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	2022 Target	2022 YTD
Customer Injuries - Rate per milllion passenger trips	2.95	2.58	2.37	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	2.93	2.18
Collisions - Rate per million revenue miles	85.63	47.49	53.28	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	57.42	74.58
with Vehicle - Rate per million revenue miles	N/A	32.65	43.05	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	44.18	59.66
with Object - Rate per million revenue miles	N/A	11.38	5.92	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	9.73	11.72
with Person - Rate per million revenue miles	N/A	0.49	1.08	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	1.51	0.53
with T Vehicle - Rate per million revenue miles	N/A	2.97	3.23	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	2.00	2.66
Reportable Smoke/Fire Incidents	1	0	0	1	0	3	0	3	2	1	1	3	2	15	16	1	1	15	1
Mean Miles between Mechanical Failures	18,000	30,160	24,817	32,886	29,916	34,707	32,075	32,018	23,284	29,301	26,073	22,281	31,775	18,000	28,638	18,000	18,531	18,000	18,531

In January 2022, bus ridership was at approximately 56% of the 2019 ridership.

RAIL

SAFETY PERFORMANCE INDICATORS - Heavy Rail

Heavy Rail - Safety Performance Indicators

Heavy Rail	2021 Monthly Target	Jan-21	Feb-21	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	2022 Target	2022 YTD
Mainline Revenue Train Derailments	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0
Mainline Non-Revenue Train Derailments	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
Mean Miles between Mechanical Failures	47,000	40,324	51,666	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	47,500	26,193

Orange Line	2021 Monthly Target	Jan-21	Feb-21	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	2022 Target	2022 YTD
Customer Injuries - Rate per million passenger trips	2.99	3.97	5.75	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	1.58	3.06	1.58
Collisions - Rate per million revenue miles	0.77	1.92	2.09	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	2.27	0.00
Reportable Smoke/Fire Incidents	5	1	2	3	4	6	2	3	1	2	0	3	2	56	29	2	1	28	1

Red Line	2021 Monthly Target	Jan-21	Feb-21	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	2022 Target	2022 YTD
Customer Injuries - Rate per million passenger trips	4.36	5.33	7.78	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	6.22	3.01	6.22
Collisions - Rate per million revenue miles	0.48	0.00	2.08	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	0.88	1.88
Reportable Smoke/Fire Incidents	5	5	12	10	6	4	9	2	6	3	5	4	5	63	71	5	6	70	6

Blue Line	2021 Monthly Target	Jan-21	Feb-21	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	2022 Target	2022 YTD
Customer Injuries - Rate per million passenger trips	1.02	0.00	5.42	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	4.02	1.05	4.02
Collisions - Rate per million revenue miles	0.21	0.00	3.13	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	0.72	6.03
Reportable Smoke/Fire Incidents	1	3	2	2	0	1	1	1	0	0	0	0	1	6	11	1	0	11	0

In January 2022, heavy rail ridership was at approximately 37% of the ridership compared to 2019.

RAIL

SAFETY PERFORMANCE INDICATORS – Light Rail

Light Rail - Safety Performance Indicators

Light Rail	2021 Monthly Target	Jan-21	Feb-21	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	2022 Target	2022 YTD
Mainline Revenue Train Derailments	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0
Mainline Non-Revenue Train Derailments	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
Mean Miles between Mechanical Failures	7,000	9,719	7,830	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	7,500	7,329

Green Line	2021 Monthly Target	Jan-21	Feb-21	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	2022 Target	2022 YTD
Customer Injuries - Rate per million passenger trips	4.23	6.10	6.04	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	2.16	3.48	2.16
Collisions - Rate per million revenue miles	6.65	7.85	4.81	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	4.44	6.27
Reportable Smoke/Fire Incidents	4	5	5	3	1	2	3	0	2	1	0	7	5	45	34	3	3	33	3

In January 2022, light rail ridership was at approximately 33% of the ridership compared to 2019.

SAFETY INITIATIVES

OSHA 300A Logs for 2021

The OHS Team, in collaboration with Worker's Compensation, prepared the OSHA 300A injury summary logs for the Authority. These logs summarize all the OSHA recordable and reportable injuries that occurred by area for calendar year 2021. These logs have been disseminated to the areas and must be posted for review from February 1 through April 30.

Utilizing the data collected for the OSHA 300 Logs, the MBTA was able to calculate a 2021 Recordable Injury Incident Rate of 7.4. The Bureau of Labor Statistics average Recordable Injury 2020 Rate for urban transit was 6.1. The 2021 average rate is pending publication.