



Metropolitan Transportation Authority

Safety Committee Meeting July 2019

Committee Members

P. Foye, Chair

S. Feinberg, Vice Chair

A. Albert

N. Brown

S. Metzger

J. Samuelsen

V. Tessitore

N. Zuckerman

Safety Committee Meeting

2 Broadway, 20th Floor

New York, NY 10004

Wednesday, 7/24/2019

8:00 - 8:45 AM ET

1. Public Comments

2. Approval of Minutes - April 17, 2019

Safety Committee Minutes - Page 3

3. Safety Committee Work Plan

2019 Safety Cmte Work Plan - Page 7

4. Homeless Outreach Program Update

Homeless Outreach Report - Page 10

5. Emergency Notification System & Emergency Exercise

6. Safety Metrics

May

MNR Safety Report - Page 15

LIRR Safety Report - Page 16

NYCT Safety Report - Page 17

B & T Safety Report - Page 18

April

MNR Safety Report - Page 19

LIRR Safety Report - Page 20

NYCT Safety Report - Page 21

B & T Safety Report - Page 22

7. Cameras - Safety Enforcement

Next Meeting: September 2019

**Metropolitan Transportation Authority
Minutes of
Safety Committee Meeting
2 Broadway, 20th Floor
New York, NY 10004**

**Wednesday, April 17, 2019
8:00 AM**

The following members were present:

**Hon. Patrick Foye, Chair
Hon. Sarah Feinberg
Hon. Andrew Albert
Hon. Norman Brown
Hon. Vincent Tessitore
Hon. Michael Lynton
Hon. Susan Metzger
Hon. David Mack**

The following agency safety officers were present:

Patrick Warren, Metropolitan Transportation Authority, Headquarters (“MTAHQ”)
Anne Kirsch, Metropolitan Transportation Authority, Headquarters (“MTAHQ”)
Robert Diehl, MTA New York City Transit, (“NYCT”)
Carl Hamann, MTA New York City Transit, (“NYCT”)
Loretta Ebbighausen, MTA Long Island Rail Road (“LIRR”)
Justin Vonashek, Metro-North Railroad (“MNR”)
Eric Osnes, MTA Bridges and Tunnels (“B&T”)
Peter Kohner, MTA Capital Construction (“CC”)

Ronnie Hakim, Managing Director, Metropolitan Transportation Authority (“MTA”); Janno Lieber, Chief Development Officer Metropolitan Transportation Authority (“MTA”); and Daniel DeCrescenzo, Acting President, Bridges and Tunnels (“B&T”) were also in attendance.

Chairman Foye chaired the April meeting, and called the meeting to order.

Ms. Kirsch provided a safety briefing.

PUBLIC SPEAKERS

There was one public speaker, Jason Pinero.

APPROVAL OF MINUTES

Upon motion duly made and seconded, the minutes of the January 2019 Safety Committee were approved.

SAFETY COMMITTEE WORK PLAN

Chairman Foye asked if there any changes to the work plan. Mr. Warren said that were two changes to the plan. The first stating that today's meeting was originally scheduled for May and the second change is that Homeless Outreach will be discussed at the July Safety Committee meeting.

Mr. Foye asked Mr. Warren what the theme was regarding Safety trends across the agencies. Mr. Warren stated that the overall trend is positive. Mr. Warren stated that the group's focus right now is on grade crossings and trespassing, as well as contractor compliance.

SAFETY ASSURANCE: GRADE CROSSINGS PROGRAM

Mr. Warren opened with remarks covering the agenda. He explained that, nationally, highway-rail grade crossing incidents are largely flat. Mr. Warren outlined Federal requirements regarding railroad crossings.

Commissioner Albert asked about Federal requirements for decibel level of the bells at grade crossings.

Mr. Warren stated there is a requirement and he will get back to Mr. Albert.

Mr. Warren discussed passive and active grade crossing engineering techniques. He also discussed proposed legislation for the use of cameras for enforcement (punitive) at grade crossings, and how the municipalities do not have this enforcement tool.

Commissioner Brown asked about the status of legislation disciplining drivers.

Commissioner Feinberg noted that camera enforcement at grade crossings is an issue that has been presented to State legislatures across the country, however, legislatures have demonstrated that they are reticent to fine drivers. She suggested the MTA demonstrate support for such legislation.

Chairman Foye agreed with Ms. Feinberg that it would be valuable to draft a letter to send to the New York State legislature advocating for camera enforcement.

Commissioner Tessitore commented that no camera system would prevent an accident.

Commissioner Feinberg offered that fines have the potential to drive changes in driver behavior.

Chairman Foye requested a plan to advance legislation on this in this legislative session.

Commissioner Brown suggested legislation should include that drivers bear some of the responsibility when there are incidents at grade crossings.

Chairman Foye requested follow up with legal to see if there is current law on this and if not consider putting legislature in place.

Commissioner Albert asked is if MTA railroads used raised surfaces or tactile strips at grade crossings.

Mr. Vonashek stated Metro-North Railroad does not have any tactile strips on their territory. Ms. Ebbighausen addressed the question in her presentation.

Ms. Ebbighausen delivered a presentation regarding LIRR grade crossings safety. Please refer to the video recording of the meeting produced by the MTA and maintained in MTA records for the content of the speaker's presentation.

Commissioner Albert asked if signage is part of community education of grade crossings. Ms. Ebbighausen stated it is, especially in driver education classes.

Ms. Ebbighausen continued with her presentation discussing the use of delineators, striping, WAZE, cameras and elimination of crossings. Please refer to the video recording of the meeting produced by the MTA and maintained in MTA records for the content of the speaker's presentation.

Mr. Lieber mentioned there will be an 8th crossing eliminated, one more than stated by Ms. Ebbighausen.

Commissioner Mack stated there is nothing more useful than working with local law enforcement on these crossings safety enforcement matters.

Commissioner Brown asked if MTA could develop an accounting expense for grade crossing incidents? Railroads will provide an accounting of costs associated with grade crossing incidents. Mr. Vonashek presented on Metro-North grade crossings. Please refer to the video recording of the meeting produced by the MTA and maintained in MTA records for the content of the speaker's presentation.

Commissioner Albert asked if Metro-North has signage well in advance of a driver reaching the grade crossings. The Safety Officers stated that this signage does exist.

Commissioner Metzger asked about status of work at certain crossings at Metro-North and asked Mr. Vonashek to provide an update at the next Metro-North Committee meeting.

Chairman Foye asked Mr. Warren to look into who is best in class regarding Grade Crossing Safety.

Chairman Foye confirmed that the Governor's office is looking for legislative sponsors to try and move the legislation forward on grade crossing safety and asked that he and the commissioners talk about that offline.

BRIDGE CLOSURE PLANNING AND PROCEDURES

Mr. Warren asked Mr. Osnes to discuss Bridges and Tunnels. Please refer to the video recording of the meeting produced by the MTA and maintained in MTA records for the content of the speaker's presentation.

Mr. DeCrescenzo stated B&T is taking a proactive approach with messaging and partnering with Transcom, WAZE, NYCDOT, NYSDOT and Port Authority to plan and coordinate in advance of weather events.

Chairman Foye commented on how WAZE works and in the event of a facility closing how does it work to redirect traffic.

Commissioner Lynton commented on how WAZE worked. Commissioner Lynton asked if we have an alert system to notify the trucking industry. Mr. Osnes stated that the truckers have their own logistics system. Commissioner Lynton asked if it would be difficult to set-up a messaging system for the truckers. Mr. DeCrescenzo stated that Transcom is instrumental in coordinating messaging and that we notify the trucking industry of any upcoming restrictions.

CANARSIE TUNNEL REHABILITATION SAFETY UPDATES

Mr. Warren introduced Mr. Diehl to brief on the safety of the Canarsie Tunnel project. Please refer to the video recording of the meeting produced by the MTA and maintained in MTA records for the content of the speaker's presentation.

Commissioner Tessitore asked that the Committee take a better look at on the job trauma injuries and post-traumatic stress. Commissioner Feinberg asked if the MTA has a mental health program for its employees. Mr. Warren responded that MTA does have a mental health program and can provide further information about the program to Commissioners Feinberg and Tessitore.

Ms. Ebbighausen added that a mental health program is Federally mandated through the Federal Railroad Administration (FRA) for railroads. Commissioner Brown asked if the Federal Transit Administration requirements are the same as the FRA's. Mr. Warren stated he would get back to him but what our intent is to have the same standard across all the agencies. Chairman Foye stated we should look at our programs at LIRR, MNR and Subways.

ADJOURNMENT

Chairman Foye asked for a motion to adjourn the meeting. A motion was made and seconded and the meeting was adjourned.

2019 Safety Committee Work Plan

I. RECURRING AGENDA ITEMS

<u>Topic</u>	<u>Responsibility</u>
Public Comments	Committee Chair & Members
Approval of Minutes	Committee Chair & Members
Committee Work Plan	Committee Chair & Members

II. SPECIFIC AGENDA ITEMS

January 2019

<u>Topic</u>	<u>Responsibility</u>
Safety Policy	
- Approval of 2019 Work Plan	MTA Chief Safety Officer
- FTA new SMS Safety Plan requirements	NYCT Safety & Security Review
Safety Risk Management	
- 2018 Safety Statistics	Agency Safety Leads
- Trespassing/Suicide Prevention coordination	Agency Safety Leads & MTA Safety & Emergency Management

April 2019

<u>Topic</u>	<u>Responsibility</u>
Safety Assurance	
- Grade Crossing Improvements	Safety & Emergency Management

July 2019

<u>Topic</u>	<u>Responsibility</u>
Safety Promotion	
- Mass notification implementation	Safety & Emergency Management
- Preparedness drills	
- Homeless outreach update	

September 2019

<u>Topic</u>	<u>Responsibility</u>
Safety Risk Management	
- Fatigue	MTA Chief Safety Officer
- Soft tissue injuries (Musculoskeletal)	Agency Safety Leads

December 2019

<u>Topic</u>	<u>Responsibility</u>
Safety Policy	
- Approval of 2020 Work Plan	MTA Chief Safety Officer
- Family Assistance Center Plan	Safety & Emergency Management
Safety Risk Management	
- QA-QC Safety Inspection Program	Safety & Emergency Management Agency Safety Leads & MTA Safety & Emergency Management

Detailed Summary

I. RECURRING AGENDA ITEMS

Approval of Minutes

The Committee Chair will request a motion to approve the minutes of the prior meeting of the Safety Committee.

Committee Work Plan

The Work Plan will list, by meeting, the topics scheduled for review. The Committee will be advised if any changes have been made to the plan.

II. SPECIFIC AGENDA ITEMS

Note: The SMS framework has four pillars: Safety Policy, Safety Risk Management, Safety Assurance, and Safety Promotion. To facilitate general oversight of SMS activities at the MTA and its agencies, each agenda items will generally pertain to one of these pillars.

January 2019

Safety Policy – Approval of the 2019 workplan

The committee will receive a discussion on the 2019 workplan and asked to approve.

The committee will also be briefed on the Federal Transit Administration's new Agency Safety Plan (aka Safety Management System – SMS) regulation, to include its application at the MTA and requirements for the MTA Board.

Safety Risk Management

The committee will receive be briefed on the 2018 safety metrics. The committee will also receive a briefing regarding customer initiated incidents, including trespassing and suicide prevention efforts from across the agencies.

April 2019

Safety Assurance

The committee will receive a briefing pertaining to the efforts of improving grade crossing safety and the development of standards for consistency.

July 2019

Safety Risk Management

The committee will receive a midyear report on the 2019 safety metrics.

Safety Promotion

The committee will receive a briefing and discussion will be invited pertaining to the implementation of an MTA employee mass notification system as well as emergency preparedness drills. The Committee will also receive a briefing on emergency preparedness programs and standards. The Committee will also receive an update on the Homeless Outreach Program.

September 2019**Safety Risk Management**

The committee will receive a briefing on the MTA's fatigue mitigation programs. The committee will also receive a briefing regarding soft tissue injuries and agency efforts to mitigate the risk posed by them.

December 2019**Safety Policy – Approval of 2020 Work Plan**

The committee will be presented with and discuss the 2020 work plan and asked to approve the same. As the work plan governs the activities of the committee, this pertains to the Safety Policy SMS pillar.

The committee will receive a briefing pertaining to the efforts of establishing a Family Assistance Center Plan.

Safety Risk Management

The committee will receive a briefing pertaining to the QA-QC Safety Inspection Program.

Semi-Annual MTA Homeless Outreach Update

- The following slides describe:
 - The organizations involved in addressing the challenge
 - Magnitude of the homeless outreach challenge within MTA
 - A measure of activity to move the homeless off MTA properties and into appropriate shelters



Homeless Outreach Program - Organizations

Service Area (MTA Authority)	Social Work Service Contract Authority	Social Service Provider (Unique Contracts)	Police Authority	Shelter Provider(s)
NYCT Subway System	NYC DHS	BRC (contract 1)	NYPD- Transit Bureau	NYC DHS
Penn, GCT & NYC Outlying Railroad Stations	MTA HQ	BRC (contract 2)	MTA PD	NYC DHS
MNR Northern County Stations	MNR	BRC (contract 3)	MTAPD and Local Municipal Police	NYC and Local Communities
LIRR Stations (Nassau & Suffolk Counties)	LIRR	S:US (contract 4)	MTAPD and Local Municipal Police	NYC and Local Communities

*DHS = NYC Department of Homeless
Services*

BRC = Bowery Residents' Committee

MTAPD = MTA Police Department

MNR = Metro North Railroad

LIRR = Long Island Rail Road

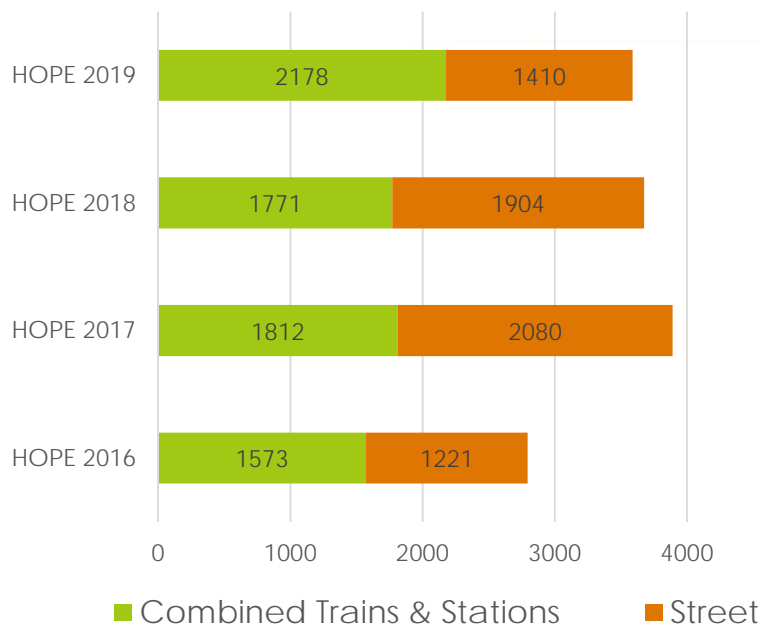
NYCT = New York City Transit

S:US = Services for the Underserved



Homeless Population Estimate - Subways

Jan City-Wide Hope Count



Total Placements in Shelters from Subways



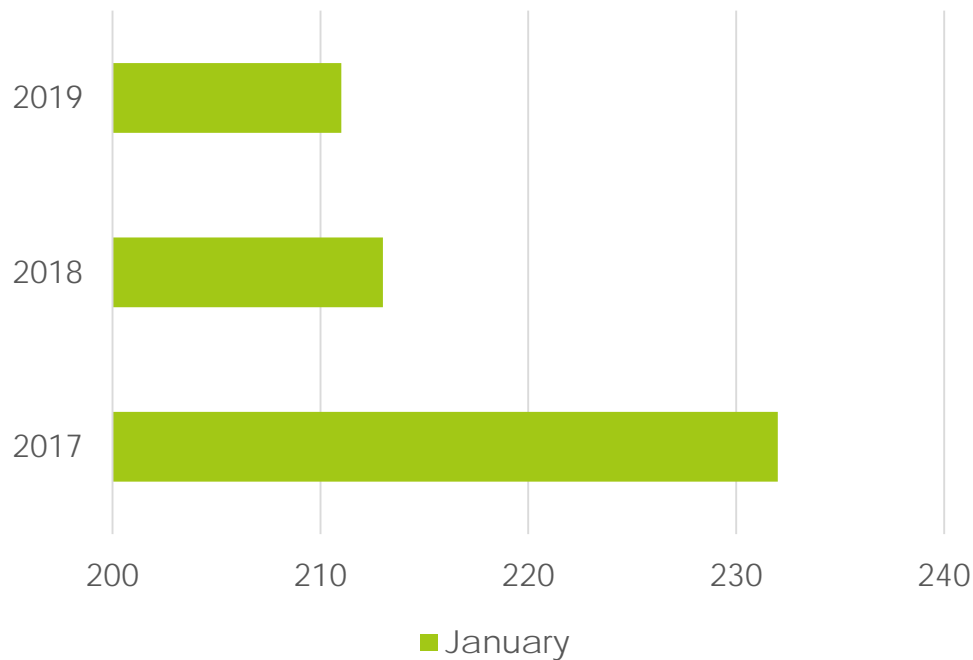
2178 (61% total count in subway)

†Data thru May 2019

Count & Placement data provided by NYC Dept. Homeless Services

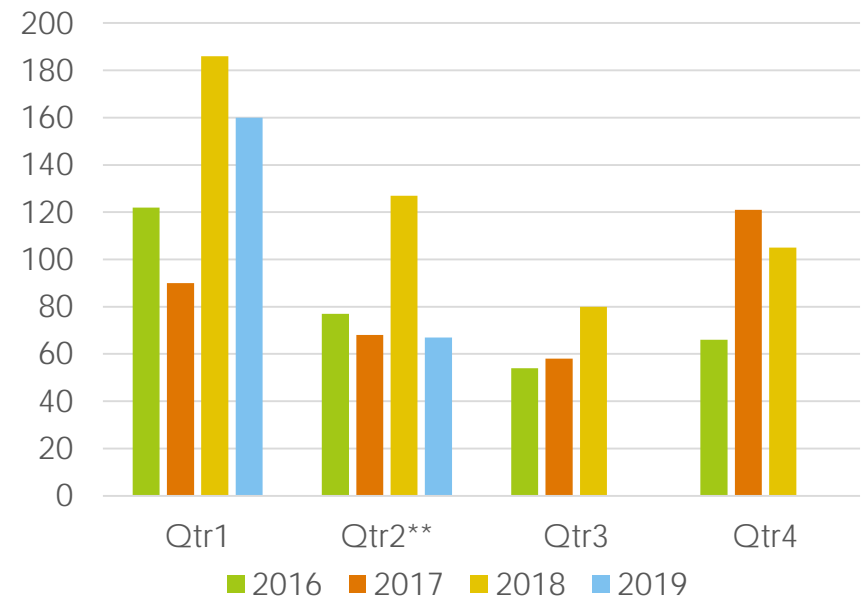
Homeless Population Estimate - GCT

GCT Unique Individuals



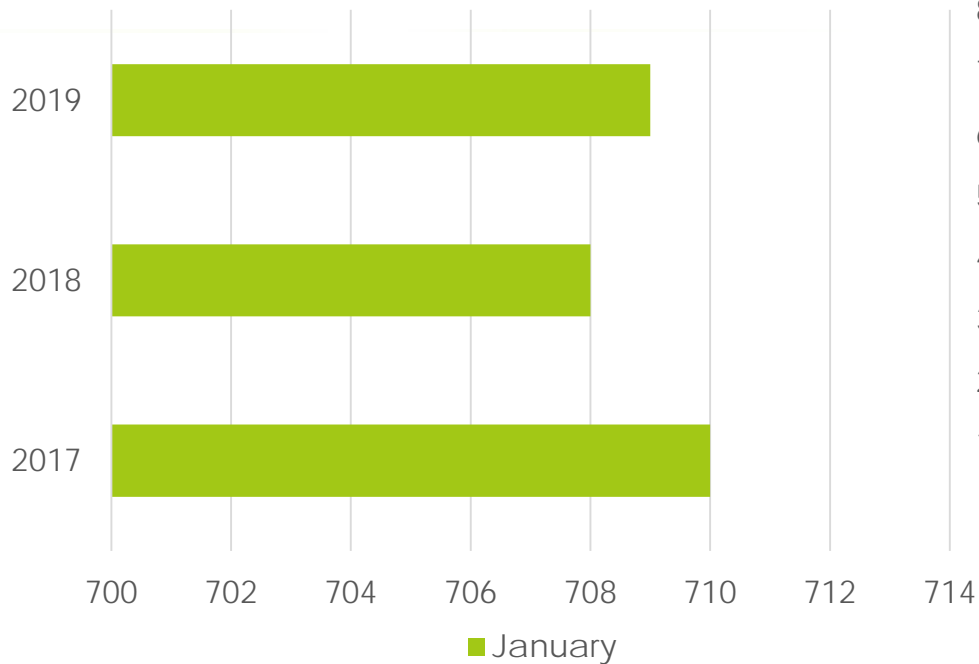
Data provided by BRC
**Data thru May 2019

GCT Shelter Placements

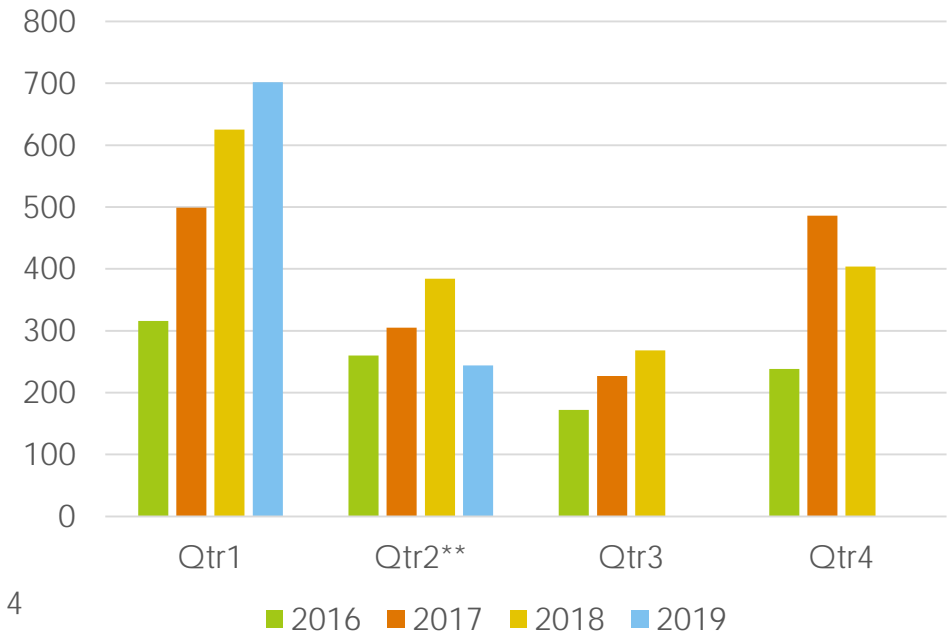


Homeless Population Estimate – PENN Station

PENN Unique Individuals



PENN Shelter Placements



Data provided by BRC
**Data thru May 2019

May 2019 Safety Report

Performance				
Performance Indicator	12-Month Average			
	June 2016 -May 2017	June 2017 -May 2018	June 2018 -May 2019	
FRA Reportable Customer Accident Rate per Million Customers	1.12	1.03	0.87	
FRA Reportable Employee Lost Time Injury Rate per 200,000 worker hours	3.08	2.79	2.21	
	2018		2019	
	May	Year to Date	May	Year to Date
Grade Crossing Incidents ¹	0	1	0	1
Mainline FRA Reportable Train Derailments	0	0	0	0
Mainline FRA Reportable Train Collisions	0	0	0	0

¹ Per FRA - Any impact between railroad on-track equipment and a highway user at a highway-rail grade crossing. The term "highway user" includes automobiles, buses, trucks, motorcycles, bicycles, farm vehicles, pedestrians, and all other modes of surface transportation motorized and un-motorized.

Leading Indicators				
Safety Training	2018		2019	
	May	Year to Date	May	Year to Date
First Responders Trained	230	894	365	994
Employee Safety Training Courses	138	280	122	257
Employees Trained	1,278	4,313	989	4,173
Employee Safety Training Hours	18,090	124,590	22,593	122,583
Customer and Community: Focus on Grade Crossings	2018		2019	
	May	Year to Date	May	Year to Date
Broken Gates	3	12	8	13
MTA Police Details	114	561	51	350
Summons	36	222	37	246
Warnings	6	20	13	51
Community Education and Outreach	29,345	58,445	17,195	47,435
Cars Equipped with Cameras	Fleet Size	Total Cars Equipped	% Complete	
Inward / Outward Facing Cab Cameras	956	955	99.90%	
Passenger Compartment Cameras	1,085	988	91.06%	

Definitions:

First Responders Trained - The number of first responders trained by MNR's Emergency Management to assist in crisis events, such as train evacuation.

Employee Safety Training Courses - The number of distinct safety-related courses offered, including technical courses that have a safety element. Repeats are excluded so that each course is counted only once.

Employees Trained - The number of unique employees that attended one or more of these safety-related courses.

Employee Safety Training Hours - The total hours of training completed by employees in all safety-related courses attended.

Broken Gates - The number of events at grade crossing locations where a vehicle struck a crossing gate.

MTA Police Detail - The number of details specifically for the purpose of monitoring behavior at Grade Crossings.

Summons - The number of violations issued to a motorist for going around a crossing gate or due to behavior that put the motorist at risk (i.e. cell phone use, etc.).

Warnings - The number of warnings issued to motorists due to behavior that put the motorist at risk (i.e. cell phone use, etc.).

Community Education and Outreach - The number of individuals reached at a TRACKS event.

Cars Equipped with Cameras - Number of complete inward/outward and passenger compartment camera installations on rolling stock.

May 2019 Safety Report

Statistical results for the 12-Month period are shown below.

Performance				
Performance Indicator	12-Month Average			
	June 2016-May 2017	June 2017 - May 2018	June 2018 - May 2019	
FRA Reportable Customer Accident Rate per Million Customers	4.61	2.46	1.79	
FRA Reportable Employee Lost Time Injury Rate per 200,000 worker hours	3.26	3.52	2.78	
		2018		2019
		May	Year to Date	May Year to Date
Grade Crossing Incidents ¹		1	3	2 5*
Mainline FRA Reportable Train Derailments		0	0	0 0
Mainline FRA Reportable Train Collisions		0	3	1** 1**

¹ Per FRA - Any impact between railroad on-track equipment and a highway user at a highway-rail grade crossing. The term "highway user" includes automobiles, buses, trucks, motorcycles, bicycles, farm vehicles, pedestrians, and all other modes of surface transportation motorized and un-motorized.

* 02/26/2019 School Street is counted as one event, but was reported as two for FRA 49 225 reporting purposes

** 05/25/2019 Speonk Collision is counted as one event, but was reported as two for FRA 49 225 reporting purposes

Leading Indicators				
Focus on Safety Training	2018		2019	
	May	Year to Date	May	Year to Date
First Responders Trained	284	1,312	228	720
Employee Safety Training Courses	90	420	88	480
Employees Trained	1,274	5,370	1,144	5,645
Employee Safety Training Hours	22,739	121,712	18,696	114,245
Customer and Community Focus on Grade Crossings		May	Year to Date	May Year to Date
Broken Gates		16	40	5 43
MTA Police Details		120	586	128 655
Summons		141	603	99 836
Warnings		66	248	68 292
Arrests		0	1	0 4
Community Education and Outreach		9,159	40,448	9,015 43,433
		Completed		Total % Complete
Cameras on Rolling Stock		M7		530 63.4
		C3 Cab		23 100
		C3 Trailer		69 62.2
		DE/DM		12 26.7

Definitions:

First Responders Trained - The number of first responders trained to assist in crisis events.

Employee Safety Training Courses - The number of distinct safety-related courses offered, including technical courses that have a

Employees Trained - The number of unique employees that attended one or more of these safety-related courses.

Employee Safety Training Hours - The total hours of training completed by employees in all safety-related courses attended.

Broken Gates - The number of events at grade crossing locations where a vehicle broke a crossing gate.

MTA Police Detail - The number of details specifically for the purpose of monitoring behavior at Grade Crossings.

Summons for Grade Crossing Violation and other Infractions- The number of violations issued to a motorist for going around a

Warnings - The number of warnings issued to motorists due to behavior that put the motorist at risk (i.e. cell phone use, etc.).

Community Education and Outreach - The number of participants who attended a TRACKS, Operation LifeSaver, or Railroad Safety

Cameras on Rolling Stock - Number of complete inward/outward camera installations on rolling stock.

Monthly Operations Report May 2019

Statistical results for the 12-Month period are shown below

Safety Report

Performance Indicators	12-Month Average		
	Jun 16 - May 17	Jun 17 - May 18	Jun 18 - May 19
Subways			
Subway Customer Accidents per Million Customers ¹	2.69	2.96	2.94
Subway Collisions ²			
Total	0	3	0
Mainline	0	0	0
Yard	0	3	0
Subway Derailments ²			
Total	7	6	5
Mainline	3	4	0
Yard	4	2	5
Subway Fires ²	974	955	764
Buses			
Bus Collisions Per Million Miles Regional	55.52	54.60	54.02
Bus Collision Injuries Per Million Miles Regional	6.21	6.42	5.88
Bus Customer Accidents Per Million Customers ¹ Regional	1.29	1.23	1.42
Total NYCT and MTA Bus Lost Time Accidents per 100 Employees ¹	3.87	3.67	3.73

¹ 12-month Average data from May through April.

² 12-month figures shown are totals rather than averages.

Leading Indicators

Subways	May	YTD	Goal	YTD as % of Goal
Roadway Worker Protection				
Joint Track Safety Audits -- Actual Count	35	163	340	47.9%
Joint Track Safety Audits -- Compliance Rate	98.4%	98.5%	100.0%	98.5%
Mainline Collision/Derailment Prevention				
Continuous Welded Rail Initiative (# of Track Feet)	9,909	53,076	47,520	111.7%
Friction Pad Installation	8,576	45,948	33,500	137.2%
Buses	May	YTD	Goal	YTD as % of Goal
Collision Prevention				
Audible Pedestrian Turn Warning System	103	361	630	57.3%
Vision Zero Employee Training	660	2,966	6,200	47.8%

May 2019 Safety Report

Statistical results for the 12-Month period are shown below.

Performance Indicator				
Performance Indicator	12-Month Average			
	June 2016 - May 2017	June 2017 - May 2018	June 2018 - May 2019	
Customer Collisions Rate per Million Vehicles	8.08	7.11	6.42	
Customer Injury Collisions Rate per Million Vehicles	0.90	1.00	0.89	
Employee Accident Reports	293	215	264	
Employee Lost Time Injuries Rate per 200,000 Hours Worked	7.9	7.1	7.5	
Construction Injuries per 200,000 Hours Worked	1.68	1.47	1.40	

Leading Indicators				
Roadway Safety	2018		2019	
	May	Year End	May	Year to Date
Workforce Development (# of Participants)	8	385	7	253
Fleet Preventative Maintenance Insp.	141	1626	88	680
Safety Taskforce Inspections	2	13	0	2
Construction Safety	May	Year End	May	Year to Date
Construction Safety Inspections	183	2271	197	1146
Fire Safety	May	Year End	May	Year to Date
Fire Code Audits Completed	1	14	1	5
FDNY Liaison Visits	2	29	3	17

Definitions:

Workforce Development provides for focused safety and skills training to all operations, maintenance and staff personnel. Classes feature OSHA 10 and 30 Classes, operations mandatory safety and skills instruction and retraining and specialty training (TIMS, CDL, FDNY instruction, Wrecker Driver Instruction and Roadway Safety Rules).

Fleet Preventative Maintenance Inspections are conducted at each location to improve the customer and worker safety environment. Inspections identify potential hazardous roadway or facility conditions and prescribe corrective actions to eliminate hazards.

Safety Taskforce Inspections are conducted by the joint Labor and Management Committee at each facility throughout the year on a rotating basis. The inspections consist of reviewing past accident and incident experiences/reports and facility safety reports. The Taskforce meets with location management and union representatives and makes a complete tour of the facility. The Taskforce is comprised of representatives of the Safety and Operations groups and has representation from each of the represented unions.

Construction Safety Inspections are conducted by an independent safety monitor to ensure that the necessary components for a safe construction are present. Inspections include review of safety organization, job hazard analysis, safe work plans for specific high risk activities, personal protective equipment, fire protection, industrial hygiene, and training.

Fire Code Audits are required by the NYS Uniform Fire Prevention Code. They are conducted by the Safety and Health Department at each building and facility throughout the Agency. They feature a review of fire prevention activities and the condition of fire fighting and suppression equipment.

FDNY Liaison Visits are conducted on a regular basis (typically twice a year) whereby local fire companies visit and tour the facilities to become familiar with the structures and buildings and the fire equipment provided. This facilitates the development of strategies for fighting fires and responding to emergencies. Additionally, special drills and training exercises are conducted to drill on communications and special rescue operations should they be required.

April 2019 Safety Report

Performance				
Performance Indicator	12-Month Average			
	May 2016 -April 2017	May 2017 -April 2018	May 2018 -April 2019	
FRA Reportable Customer Accident Rate per Million Customers	1.08	0.79	0.77	
FRA Reportable Employee Lost Time Injury Rate per 200,000 worker hours	2.82	2.89	2.37	
	2018		2019	
	April	Year to Date	April	Year to Date
Grade Crossing Incidents ¹	0	1	0	1
Mainline FRA Reportable Train Derailments	0	0	0	0
Mainline FRA Reportable Train Collisions	0	0	0	0

¹ Per FRA - Any impact between railroad on-track equipment and a highway user at a highway-rail grade crossing. The term "highway user" includes automobiles, buses, trucks, motorcycles, bicycles, farm vehicles, pedestrians, and all other modes of surface transportation motorized and un-motorized.

Leading Indicators				
Safety Training	2018		2019	
	April	Year to Date	April	Year to Date
First Responders Trained	325	664	335	629
Employee Safety Training Courses	124	252	164	235
Employees Trained	1,241	3,791	1,178	3,690
Employee Safety Training Hours	26,040	103,074	16,855	95,496
Customer and Community: Focus on Grade Crossings	2018		2019	
	April	Year to Date	April	Year to Date
Broken Gates	3	9	2	5
MTA Police Details	111	447	86	299
Summons	52	186	44	209
Warnings	9	14	9	38
Community Education and Outreach	10,500	29,100	8,225	30,240
Cars Equipped with Cameras	Fleet Size	Total Cars Equipped	% Complete	
Inward / Outward Facing Cab Cameras	956	952	99.58%	
Passenger Compartment Cameras	1,085	968	89.22%	

Definitions:

First Responders Trained - The number of first responders trained by MNR's Emergency Management to assist in crisis events, such as train evacuation.

Employee Safety Training Courses - The number of distinct safety-related courses offered, including technical courses that have a safety element. Repeats are excluded so that each course is counted only once.

Employees Trained - The number of unique employees that attended one or more of these safety-related courses.

Employee Safety Training Hours - The total hours of training completed by employees in all safety-related courses attended.

Broken Gates - The number of events at grade crossing locations where a vehicle struck a crossing gate.

MTA Police Detail - The number of details specifically for the purpose of monitoring behavior at Grade Crossings.

Summons - The number of violations issued to a motorist for going around a crossing gate or due to behavior that put the motorist at risk (i.e. cell phone use, etc.).

Warnings - The number of warnings issued to motorists due to behavior that put the motorist at risk (i.e. cell phone use, etc.).

Community Education and Outreach - The number of individuals reached at a TRACKS event.

Cars Equipped with Cameras - Number of complete inward/outward and passenger compartment camera installations on rolling stock.

April 2019 Safety Report

Statistical results for the 12-Month period are shown below.

Performance				
Performance Indicator	12-Month Average			
	May 2016-April 2017	May 2017 - April 2018	May 2018 - April 2019	
FRA Reportable Customer Accident Rate per Million Customers	4.51	2.54	1.81	
FRA Reportable Employee Lost Time Injury Rate per 200,000 worker hours	3.37	3.44	2.85	
		2018		2019
		April	Year to Date	April
Grade Crossing Incidents ¹		0	2	0
Mainline FRA Reportable Train Derailments		0	0	0
Mainline FRA Reportable Train Collisions		0	2	0

¹ Per FRA - Any impact between railroad on-track equipment and a highway user at a highway-rail grade crossing. The term "highway user" includes automobiles, buses, trucks, motorcycles, bicycles, farm vehicles, pedestrians, and all other modes of surface transportation motorized and un-motorized.

* One event resulted in 2 FRA required reports.

Leading Indicators				
Focus on Safety Training	2018		2019	
	April	Year to Date	April	Year to Date
First Responders Trained	493	1,028	153	492
Employee Safety Training Courses	88	330	123	392
Employees Trained	1,160	4,096	950	4,501
Employee Safety Training Hours	29,851	98,973	22,492	95,549
Customer and Community: Focus on Grade Crossings	April	Year to Date	April	Year to Date
Broken Gates	6	24	11	38
MTA Police Details	130	466	160	527
Summons	147	462	178	737
Warnings	54	182	66	224
Arrests	1	1	2	4
Community Education and Outreach	6,287	31,289	9,211	34,418
		Completed	Total	% Complete
Cameras on Rolling Stock	M7	488	58	
	C3 Cab	23	100	
	C3 Trailer	57	51	
	DE/DM	8	14	

Definitions:

First Responders Trained - The number of first responders trained to assist in crisis events.

Employee Safety Training Courses - The number of distinct safety-related courses offered, including technical courses that have a safety element. Repeats are excluded so that each course is counted only once.

Employees Trained - The number of unique employees that attended one or more of these safety-related courses.

Employee Safety Training Hours - The total hours of training completed by employees in all safety-related courses attended.

Broken Gates - The number of events at grade crossing locations where a vehicle broke a crossing gate.

MTA Police Detail - The number of details specifically for the purpose of monitoring behavior at Grade Crossings.

Summons for Grade Crossing Violation and other Infractions - The number of violations issued to a motorist for going around a crossing gate or due to behavior that put the motorist at risk (i.e. cell phone use, etc.).

Warnings - The number of warnings issued to motorists due to behavior that put the motorist at risk (i.e. cell phone use, etc.).

Community Education and Outreach - The number of participants who attended a TRACKS, Operation LifeSaver, or Railroad Safety Awareness Event.

Cameras on Rolling Stock - Number of complete inward/outward camera installations on rolling stock.

Monthly Operations Report April 2019

Statistical results for the 12-Month period are shown below

Safety Report			
Performance Indicators	12-Month Average		
	May 16 - Apr 17	May 17 - Apr 18	May 18 - Apr 19
Subways			
Subway Customer Accidents per Million Customers ¹	2.68	2.95	2.94
Subway Collisions ²			
Total	0	2	1
Mainline	0	0	0
Yard	0	2	1
Subway Derailments ²			
Total	7	6	3
Mainline	3	4	0
Yard	4	2	3
Subway Fires ²	981	963	769
Buses			
Bus Collisions Per Million Miles Regional	56.00	54.50	53.82
Bus Collision Injuries Per Million Miles Regional	6.41	6.21	5.94
Bus Customer Accidents Per Million Customers ¹ Regional	1.28	1.25	1.38
Total NYCT and MTA Bus Lost Time Accidents per 100 Employees ¹	3.94	3.68	3.67

¹ 12-month Average data from April through March.

² 12-month figures shown are totals rather than averages.

Leading Indicators				
Subways	April	YTD	Goal	YTD as % of Goal
Roadway Worker Protection				
Joint Track Safety Audits -- Actual Count	26	128	340	37.6%
Joint Track Safety Audits -- Compliance Rate	97.9%	98.6%	100.0%	98.6%
Mainline Collision/Derailment Prevention				
Continuous Welded Rail Initiative (# of Track Feet)	12,553	43,167	47,520	90.8%
Friction Pad Installation	9,909	37,372	33,500	111.6%
Buses	April	YTD	Goal	YTD as % of Goal
Collision Prevention				
Audible Pedestrian Warning System	102	258	630	41.0%
Vision Zero Employee Training	585	2,305	6,200	37.2%

April 2019 Safety Report

Statistical results for the 12-Month period are shown below.

Performance Indicator				
Performance Indicator	12-Month Average			
	May 2016 - April 2017	May 2017 - April 2018	May 2018 - April 2019	
Customer Collisions Rate per Million Vehicles	7.91	7.38	6.43	
Customer Injury Collisions Rate per Million Vehicles	0.90	0.94	0.99	
Employee Accident Reports	291	214	262	
Employee Lost Time Injuries Rate per 200,000 Hours Worked	7.6	7.2	7.5	
Construction Injuries per 200,000 Hours Worked	1.66	1.49	1.71	
Leading Indicators				
Roadway Safety	2018		2019	
	April	Year End	April	Year to Date
Workforce Development (# of Participants)	7	385	21	246
Fleet Preventative Maintenance Insp.	160	1626	189	592
Safety Taskforce Inspections	1	13	1	2
Construction Safety	April	Year End	April	Year to Date
	April	Year End	April	Year to Date
Construction Safety Inspections	216	2271	259	949
Fire Safety	April	Year End	April	Year to Date
	April	Year End	April	Year to Date
Fire Code Audits Completed	1	14	1	4
FDNY Liaison Visits	9	29	9	10

Definitions:

Workforce Development provides for focused safety and skills training to all operations, maintenance and staff personnel. Classes feature OSHA 10 and 30 Classes, operations mandatory safety and skills instruction and retraining and specialty training (TIMS, CDL, FDNY instruction, Wrecker Driver Instruction and Roadway Safety Rules).

Fleet Preventative Maintenance Inspections are conducted at each location to improve the customer and worker safety environment. Inspections identify potential hazardous roadway or facility conditions and prescribe corrective actions to eliminate hazards.

Safety Taskforce Inspections are conducted by the joint Labor and Management Committee at each facility throughout the year on a rotating basis. The inspections consist of reviewing past accident and incident experiences/reports and facility safety reports. The Taskforce meets with location management and union representatives and makes a complete tour of the facility. The Taskforce is comprised of representatives of the Safety and Operations groups and has representation from each of the represented unions.

Construction Safety Inspections are conducted by an independent safety monitor to ensure that the necessary components for a safe construction are present. Inspections include review of safety organization, job hazard analysis, safe work plans for specific high risk activities, personal protective equipment, fire protection, industrial hygiene, and training.

Fire Code Audits are required by the NYS Uniform Fire Prevention Code. They are conducted by the Safety and Health Department at each building and facility throughout the Agency. They feature a review of fire prevention activities and the condition of fire fighting and suppression equipment.

FDNY Liaison Visits are conducted on a regular basis (typically twice a year) whereby local fire companies visit and tour the facilities to become familiar with the structures and buildings and the fire equipment provided. This facilitates the development of strategies for fighting fires and responding to emergencies. Additionally, special drills and training exercises are conducted to drill on communications and special rescue operations should they be required.