



# New York City Transit Safety Highlights

Initiatives to Reduce Subway  
Fire Incidents

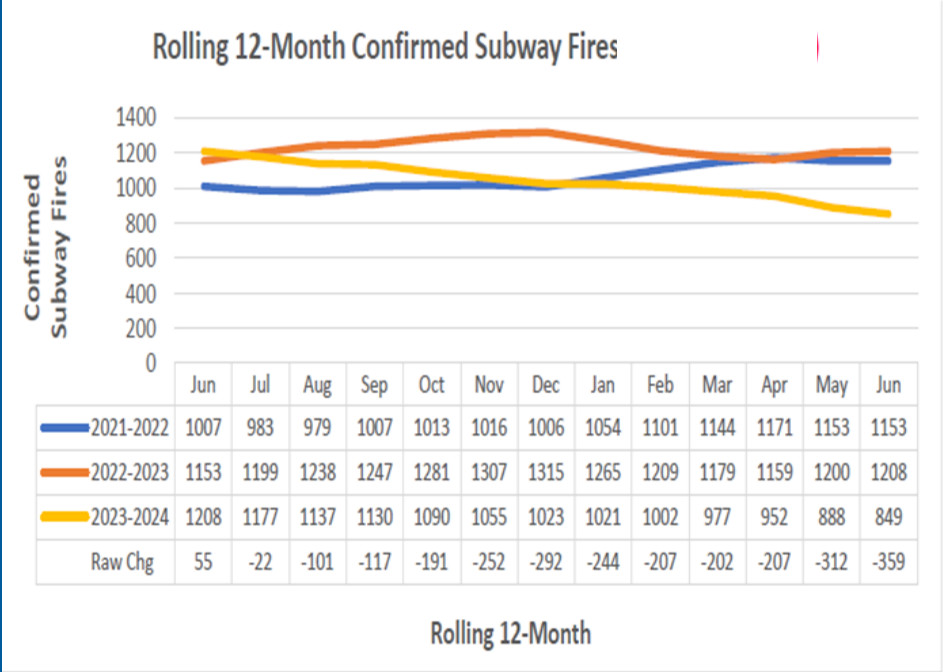
July 29, 2024





# Coordinated Risk-Based Approach to Fire Mitigation

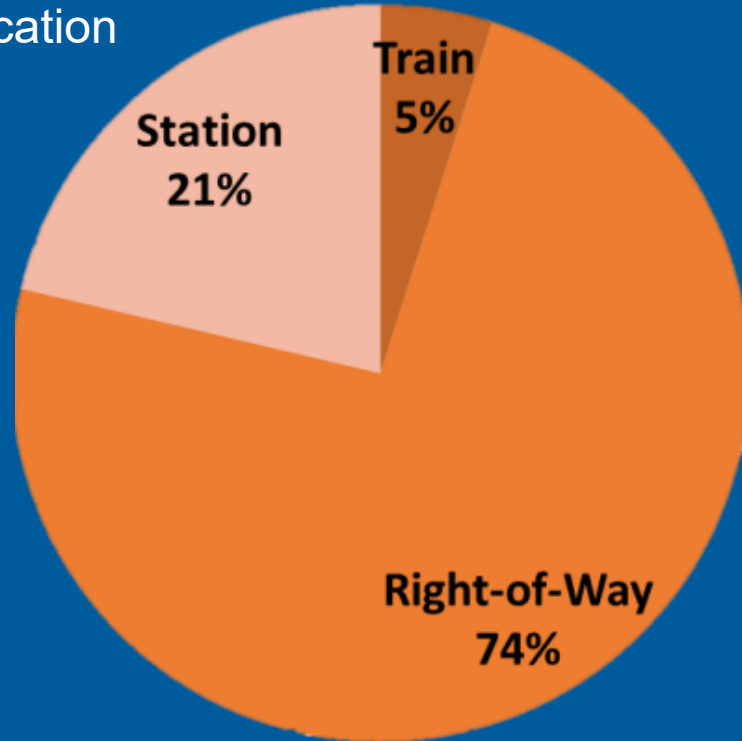
Demonstrated Effective Mitigations





# Coordinated Risk-Based Approach to Fire Mitigation

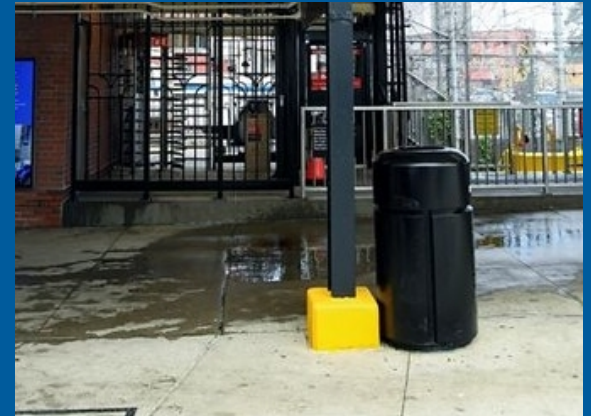
Proportion of Fires by Location  
June 2024





# Executive Committee on Track Fires

- Multi-Departmental Coordination of Analyzing and Mitigating Fire Incidents
  - Lead by the Assistant Chief Track Officer
  - Participants: Office of System Safety, Various DOS Divisions<sup>1</sup>, Security, Marketing



<sup>1</sup>Executives, Maintenance of Way, Car Equipment, Service Delivery, Operations Support, Customer Environment & Facilities, Elevators & Escalators



# Elements the Committee Reviews

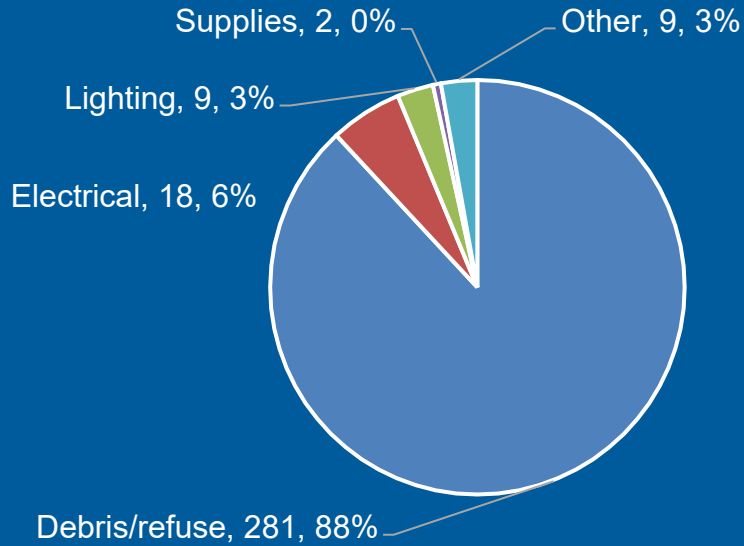
## Right of Way

- Top 5 Right of Way Fire/Smoke Incidents for the Month
- Top 25 Fires by Station and by Type/Location
- Tie, Debris, and Insulator Fire Trends
- Monthly Fires by Division
- Delays Caused
- Third Rail End Approach Defects Corrected and Insulators Cleaned and Replaced
- Security Emergency Response Team (SERT) Complaints Cleared

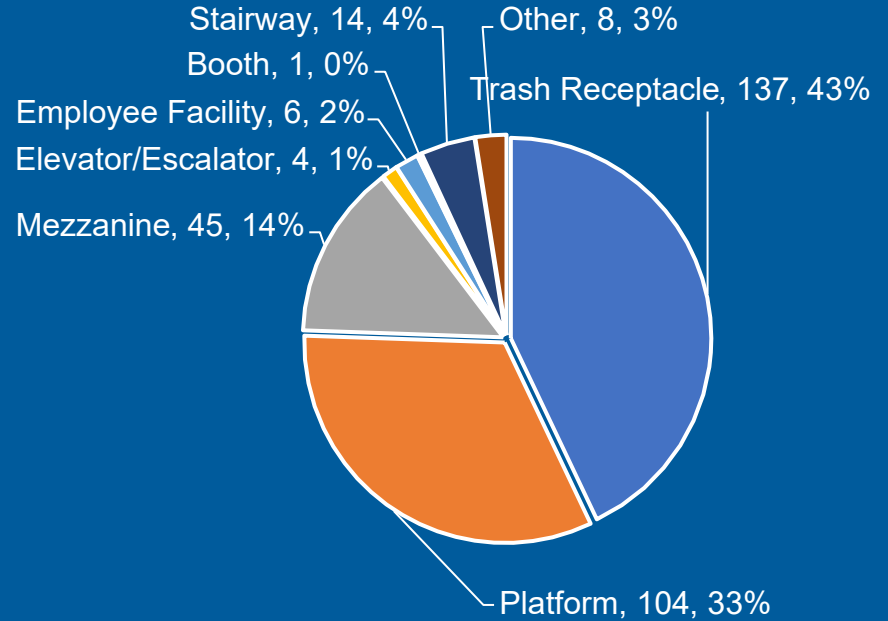
June 1, 2023 to May 31, 2024		June 1, 2019 through May 31, 2024	
Station	Qty	Station	Qty
14-Union Sq. (IRT 4 Av)	7	E 180 St	43
E 180 St	7	14-Union Sq. (IRT 4 Av)	33
Kings Hwy (E16 St)	6	Grand Central (Upper Level)	33
34 St-Penn Sta (IRT 7 Av)	5	125 St (IRT Lexington Av)	27
5 Av-Bryant Park	5	Broadway Jctn-(ENY IND)	26
80 St-Liberty av	5	Coney Is Yard	26
Central Park N. (IRT 110 St)	5	Pelham Bay Pk	26
Concourse Yard	5	W 4 St (IND Wash Sq)	26
Grand Central (Upper Level)	5	Coney Island-Stillwell Av	25
Pelham Pkwy (IRT White Plains)	5	Brooklyn Bridge-City Hall	24
West Farms Sq-E Tremont Av	5	111 St (IRT Roosevelt Av)	23
111 St (IRT Roosevelt Av)	4	Kings Hwy (E16 St)	23
125 St (IRT Lexington Av)	4	Concourse Yard	22
135 St (IRT Lenox Av)	4	Euclid Av	22
149 St-Grand Concourse	4	Jamaica Yard	21
183 St	4	West Farms Sq-E Tremont Av	21
238 St (Broadway)	4	96 St (Broadway)	20
36 St (4 Av)	4	Forest Hills-71 Av	20
96 St (Broadway)	4	Mets-Willets Point	20
Burnside Av	4	145 St (IND St. Nicholas Av)	19
Dekalb Av (Flatbush)	4	Burnside Av	19
Delancey St	4	135 St (IRT Lenox Av)	18
Mets-Willets Point	4	9 Av (39 St)	18
Rockaway Blvd	4	Jamaica-179 St	18
125 St (IRT Lenox Av)	3	Lexington Av / 59 St (BMT)	18
149 St-Grand Conc (Mott Haven)	3	Marcy Av	18



## Station Items Burned



## Station Fire Location

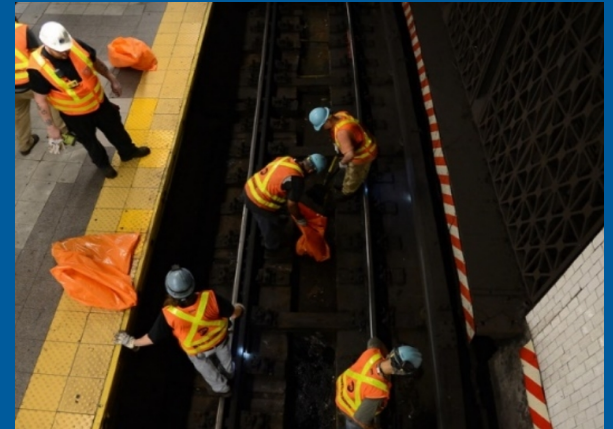




# Elements the Committee Reviews

## Debris Removal

- Vacuum Train Availability and Production
- Weekly Cleaning Initiative
- Paper Catcher Installations
- Debris Removed by Tons, Bags, and Miles of Track Cleaned





# Elements the Committee Reviews

## Car Equipment

### Fires by Component

- Equipment
- Brakes
- Debris
- Element
- High Voltage Wire
- Traction Motor
- Other

### High Voltage Fires

- Armature
- Circuit Breaker
- Contact Shoe
- Converter
- Current Collector
- High Voltage Wiring
- Knife Switch
- Shoebeam
- Traction motor
- Trolley Lead







# Elements the Committee Reviews

## Vacuum Train Production

One Night of Debris Collection

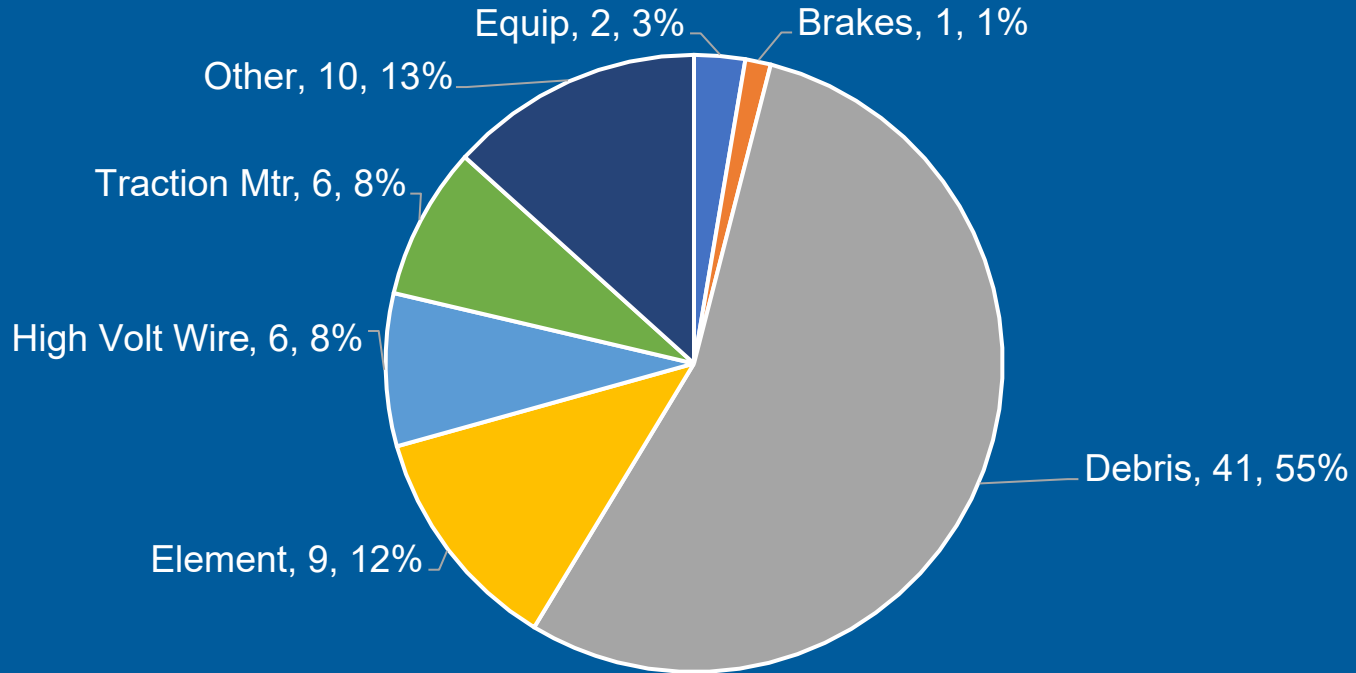


Leaf Collection in Fall Season





# Car Equipment Fires





# Elements the Committee Reviews

## Infrastructure

- Expediting Water Intrusion Management (Annual goal – 5000 locations)
- Clearing Drain Boxes and Pipes (miles)
- Vent Cleaning
- Defect Correction
- Security Emergency Response Team (SERT) Coordination





## Fire Mitigation Efforts

- Replacing fiberglass insulators with monocoated or thermoplastic (new standard)
- Improved tracking water intrusion to coordinate leak repairs
- Targeted cleaning and trash receptacle service such as during holiday events and high-volume stations
- **Train Fires**
  - Cable crimp manufacturing issue identified and addressed as scheduled maintenance is performed





# Fire Mitigation Efforts

- **Track Fires**
  - New switch lubrication fully adopted; less flammable
  - Coordination of Vac Train and Station Cleaning
  - Improved directing resources to address more areas
  - Infrastructure focused on repairing paper catchers
  - Application of fire-retardant coating to high incident tie fire locations

