



# Quarterly Service Performance Review 1st Quarter, FY24 (July- September 2023)

Engineering & Operations Committee  
November 16, 2023





## Service Performance

### Service Delivery

#### Capacity

- Weekday - Average Ridership
- Dispatches Operated
- Passenger Loading

#### Punctuality

- On-time – Customer
  - Daily / Peak
- On-time – Train
  - Daily / Peak
  - Timed Train Meets - K-Line

### Railway Asset Availability

#### Wayside

- Wayside - Train Control Systems
  - Wayside Train Control System
  - Control System
- Wayside - Railway Systems
  - Track
  - Traction Power

#### Revenue Fleet

- Revenue Fleet - Fleet Reliability
  - 4 AM - Car Availability
  - Vehicle MTBSD - (Hours)

#### Operations

- Transportation Staffing

#### Stations

- Availability – Elevators
- Availability – Escalators
- Availability – Fare Collection

### Customer Experience

#### Customer Service

- Customer Service
  - Overall Customer Satisfaction
  - Station Agent Customer Service
  - Complaints

#### Environment

- Environment – Stations
  - Outside
  - Inside
- Environment – Trains
  - Cleanliness
  - Temperature
- Environment – Code of Conduct
  - Gender Based Harassment
  - Fare Evasion

### Safety and Security

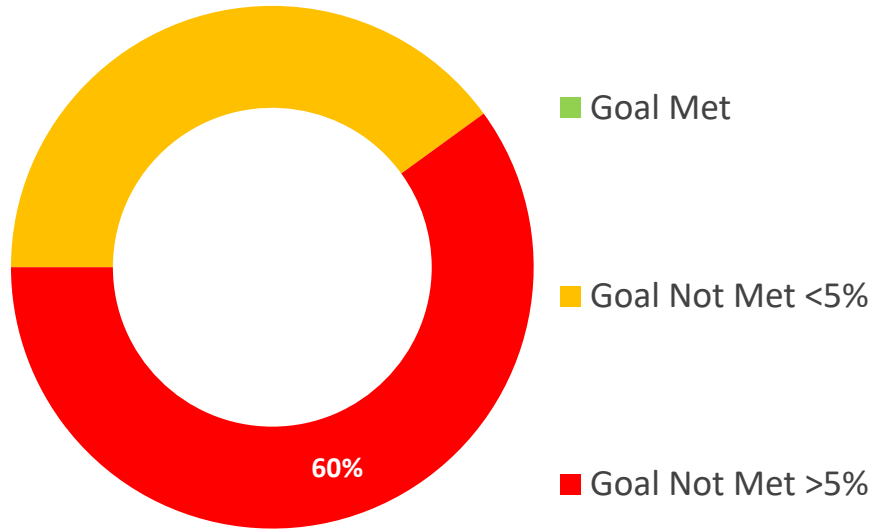
#### Safety

- Safety – Passenger
  - Station Incidents
  - Vehicle Incidents
- Safety – Employee
  - Lost Time Injuries
  - OSHA Recordable Injuries
- Safety – Violations
  - Unscheduled Door Openings
  - OSHA Recordable Injuries

#### Security

- Police Coverage
  - BPD Presence
  - BPD Response Time
- Crime – Against Person
- Crime – Burglary
  - Bike Thefts
  - Auto Burglaries
  - Auto Thefts
- Progressive Policing

# Summary – Service Delivery

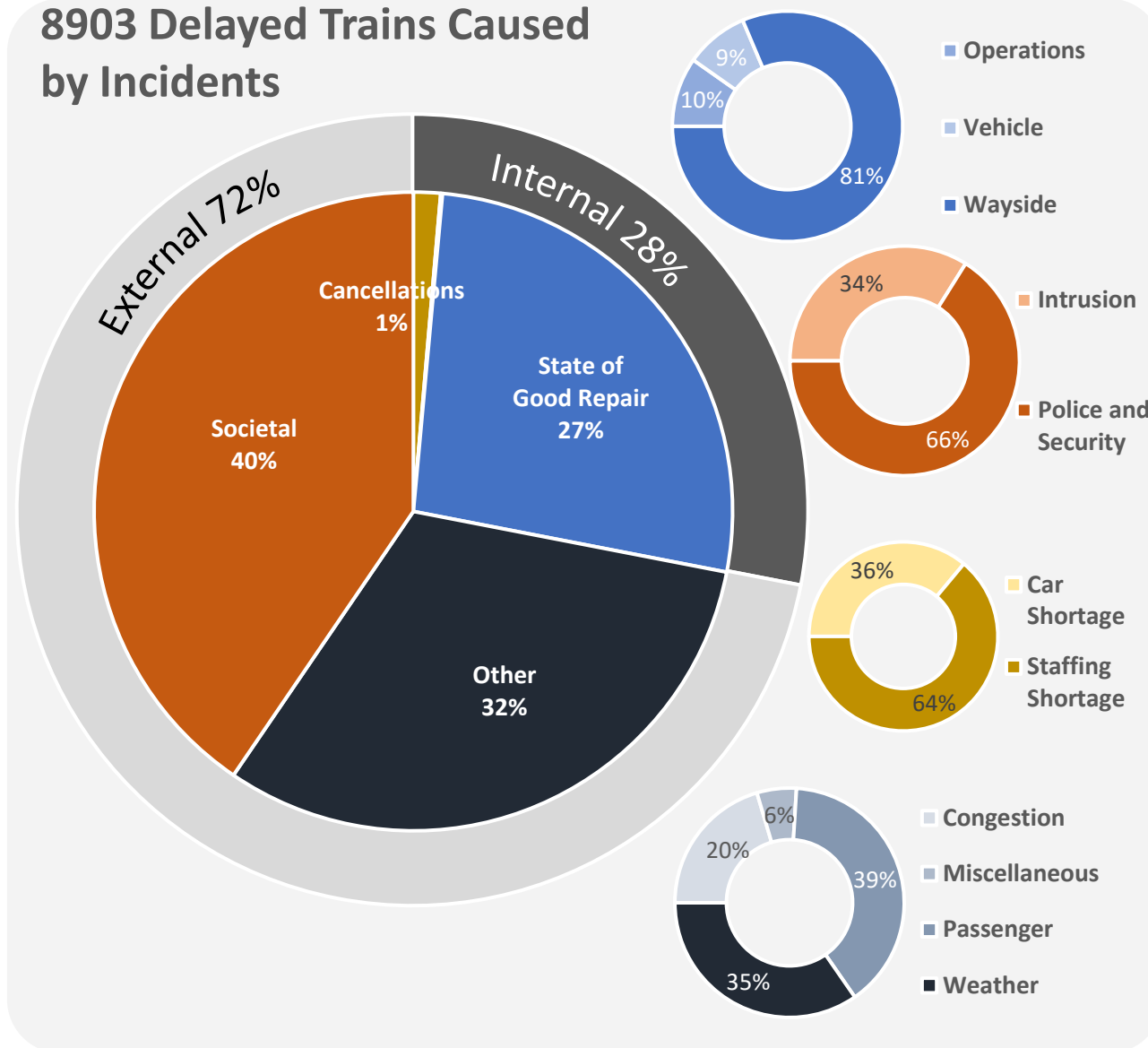


Metric	FY24 Q1	Goal	Change from FY23 Q4
<i>All-Day</i>			
Weekday - Average Ridership	164606	166062	3.32% ▲
Trains On-Time - Daily	83.8%	91.0%	5.38% ▲
Customers On-Time - Daily	92.1%	94.0%	1.12% ▲
<i>Peak</i>			
Trains On-Time - Peak	83.5%		8.09% ▲
Customers On-Time - Peak	92.0%		1.08% ▲

▼ Gray arrows represent change from the previous quarter for metrics which do not have an established goal

# Service Delivery – Delay Incident Detail

## 8903 Delayed Trains Caused by Incidents

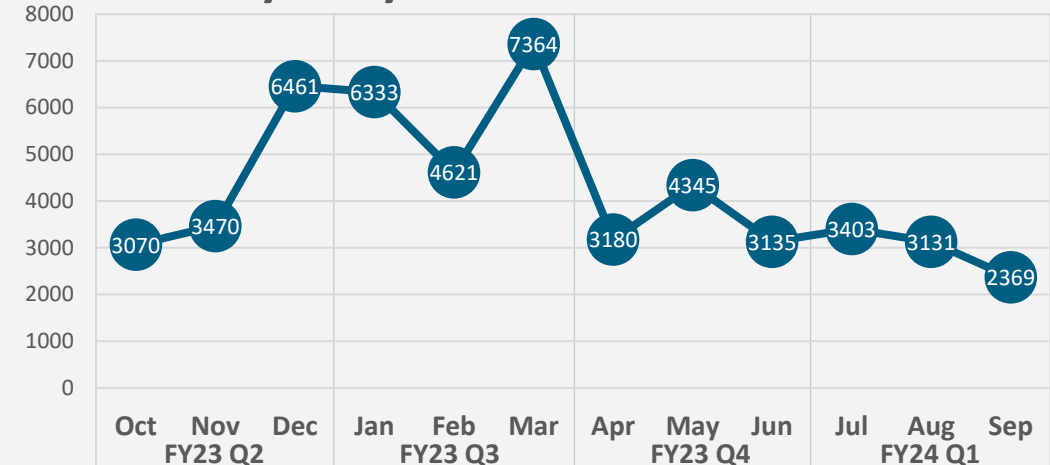


## Trains Delayed - Top Ten Single Incidents

7/21/2023, Weather (Heat), 342
8/21/2023, Weather (Rain), 196
7/10/2023, Third Rail, 186
9/26/2023, Weather (Rain), 180
7/8/2023, Data Comm, 158
8/2/2023, Track, 155
7/10/2023, Object On Track/Train Struck Object, 107
9/13/2023, Vandalism, 87
9/24/2023, F.O., 80
7/11/2023, Vandalism, 77

*Top ten incidents =  
17.6% of delayed trains*

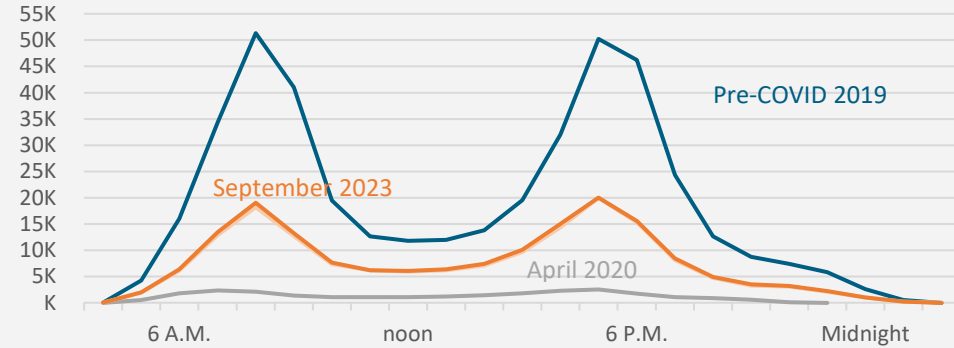
## Trains Delayed by Month



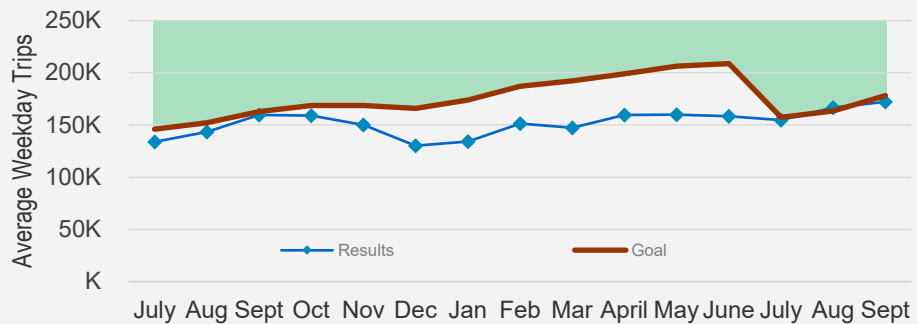
# Capacity – Ridership

- Total Ridership up 10.7% over last year.
- Average weekday ridership up 12.2% over last year.
- Saturday ridership up 5.5% over last year.
- Sunday ridership up 10.1% over last year.

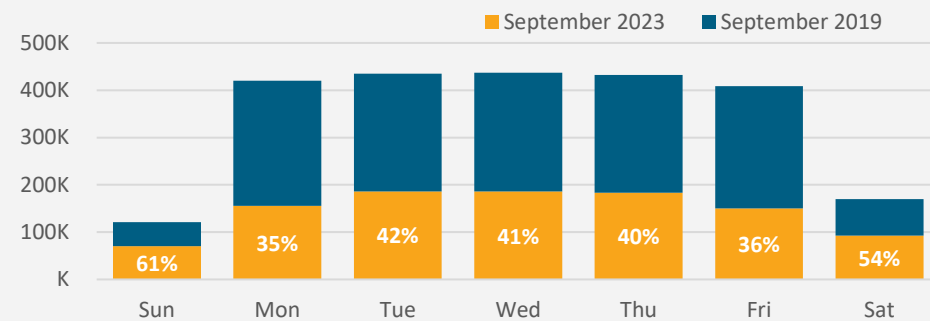
## Weekday Hourly System Activity



## ● Average Ridership - Weekday



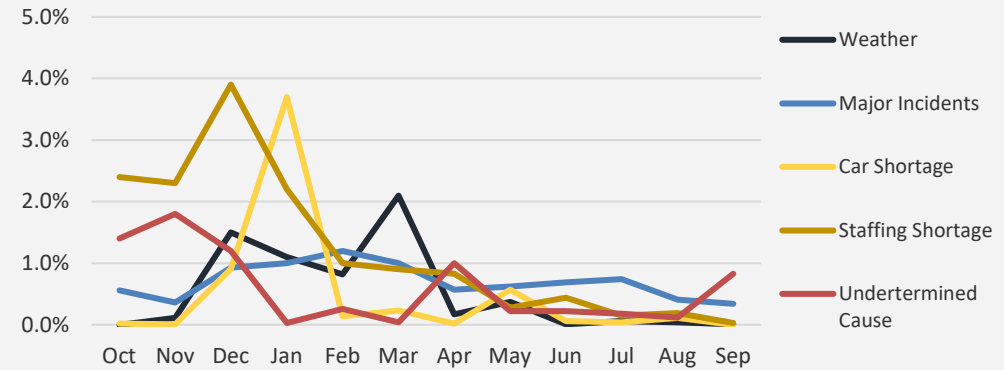
## Comparison of September Ridership by Day of Week



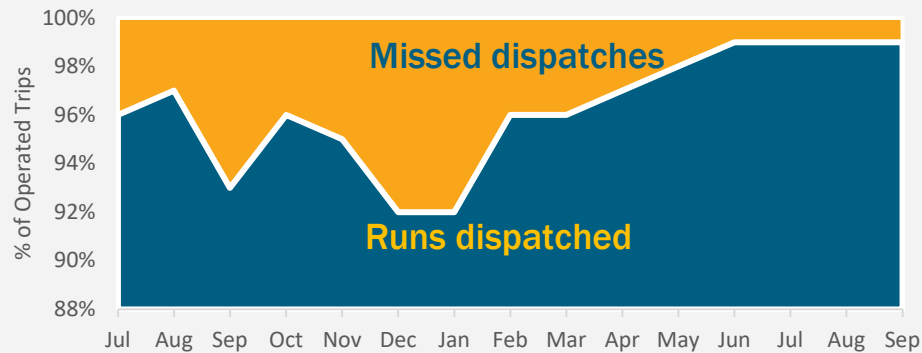
# Capacity – Dispatches Operated

- Missed Dispatches are scheduled trains that did not run OR partial runs that were not able to dispatch from origin
- Missed dispatches due to staffing shortage continue to decrease
- Cancellations improved to just over 1%.
- Cause categories reduced to less than 1%.

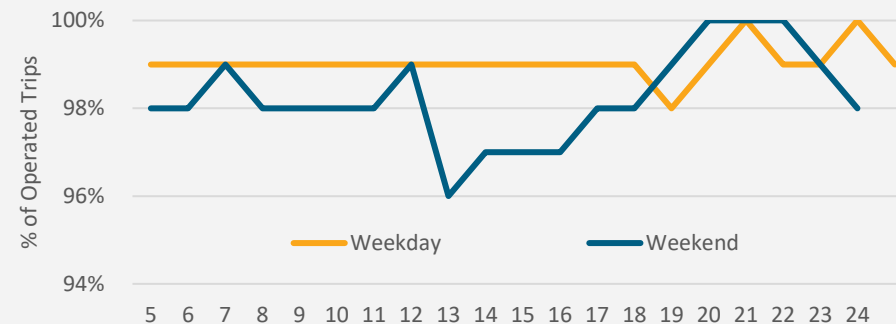
## % of Scheduled Dispatches Missed by Cause



## Scheduled Runs Dispatched from Origin



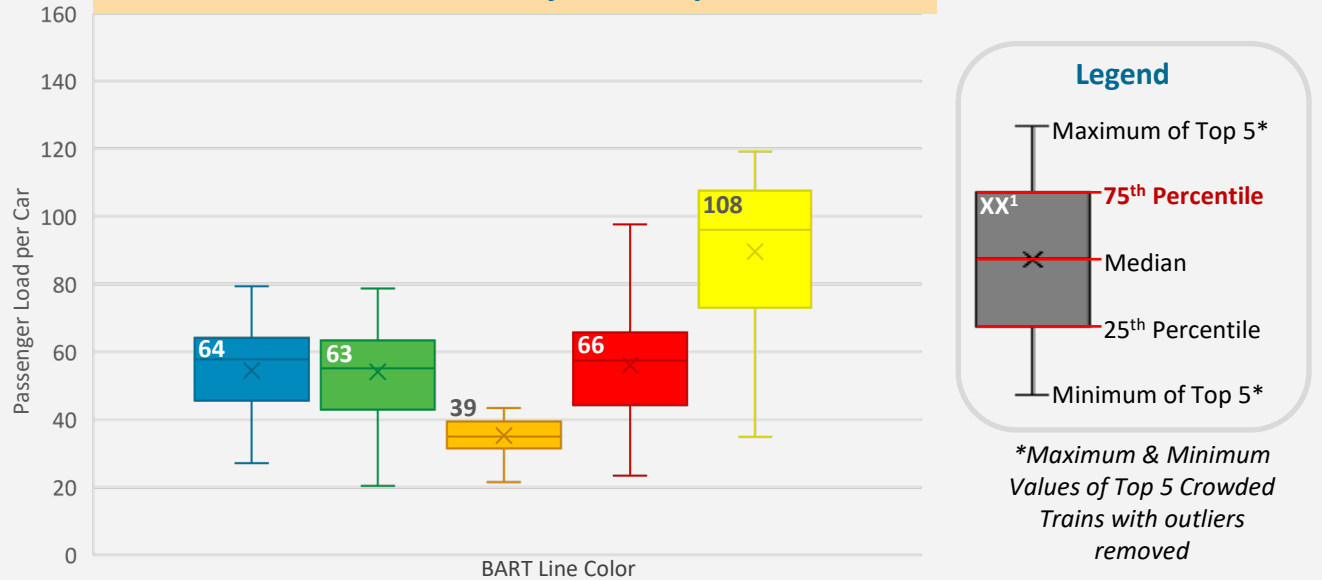
## Hourly Scheduled Runs Dispatched from Origin



# Capacity – Passenger Loading

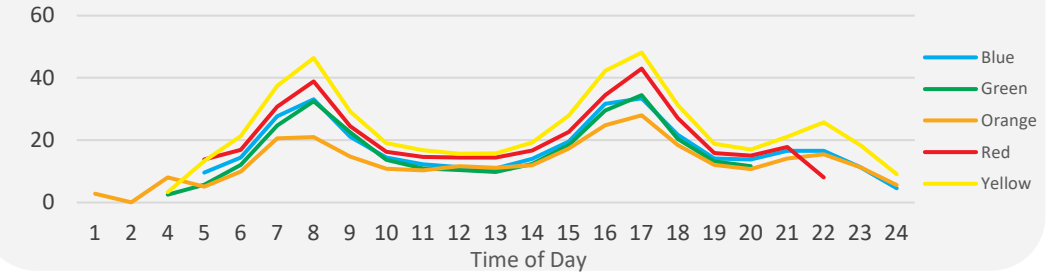
## Passenger Load per Car for Top 5 Crowded Weekday Trains

Prior Schedule - July 1<sup>st</sup> to Sep 10<sup>th</sup>



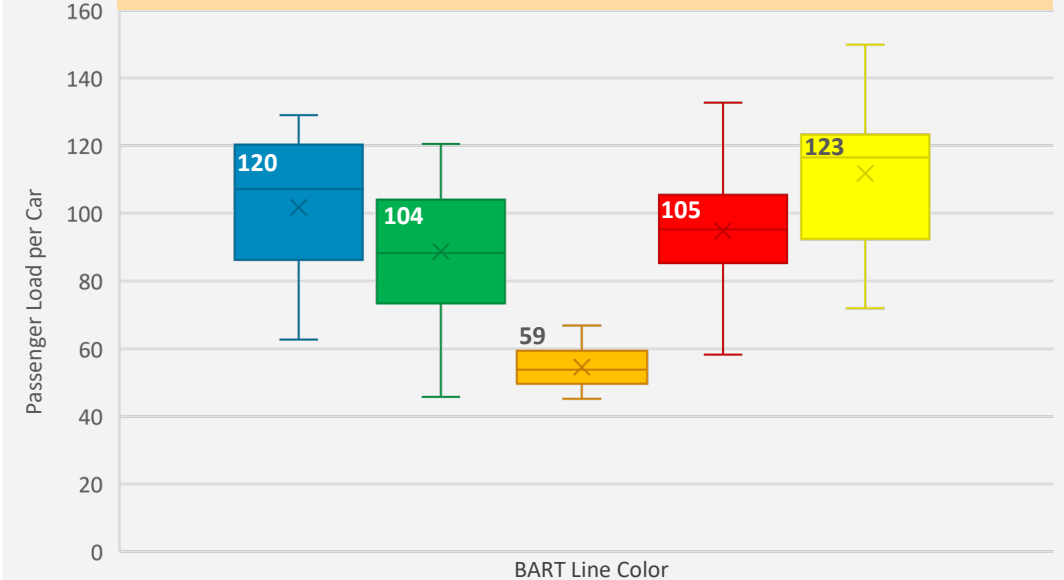
<sup>1</sup>Typical Busiest Trains by Route

## Average Hourly Weekday Passenger Load per Car by Line



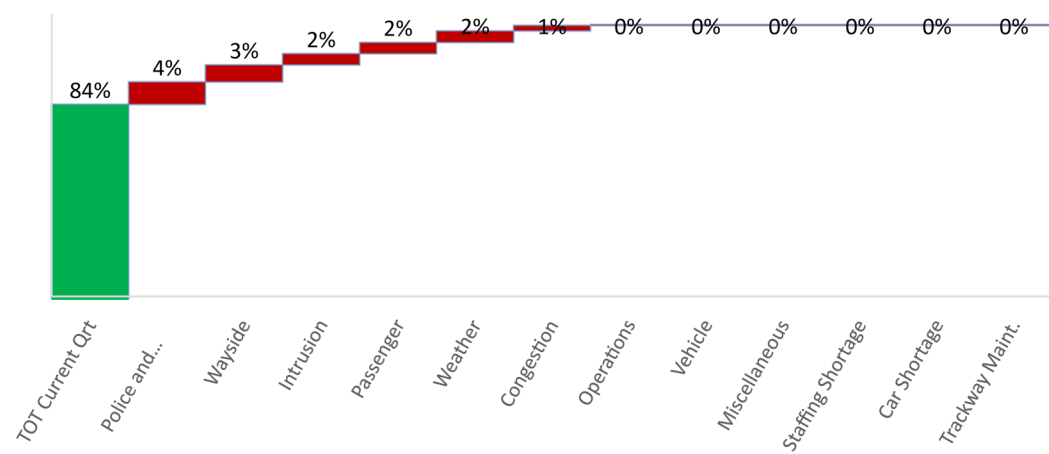
## Passenger Load per Car for Top 5 Crowded Weekday Trains

New Schedule - Sep 11<sup>th</sup> to Sep 30<sup>th</sup>

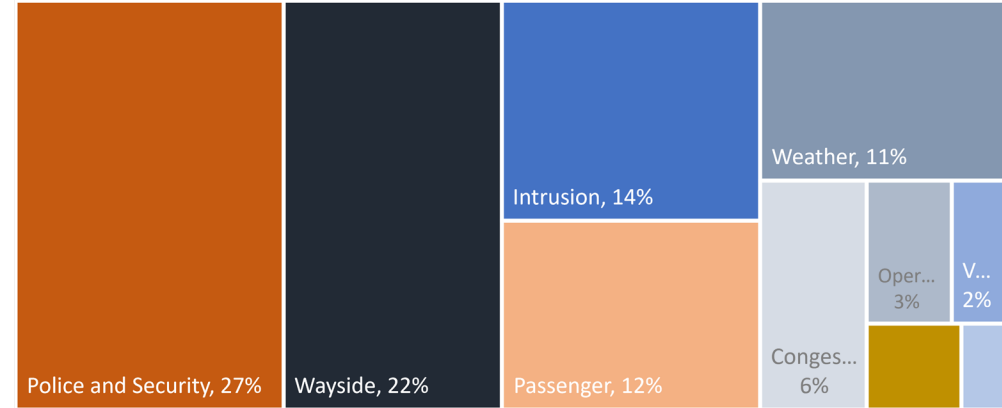


# Punctuality – Trains On-Time

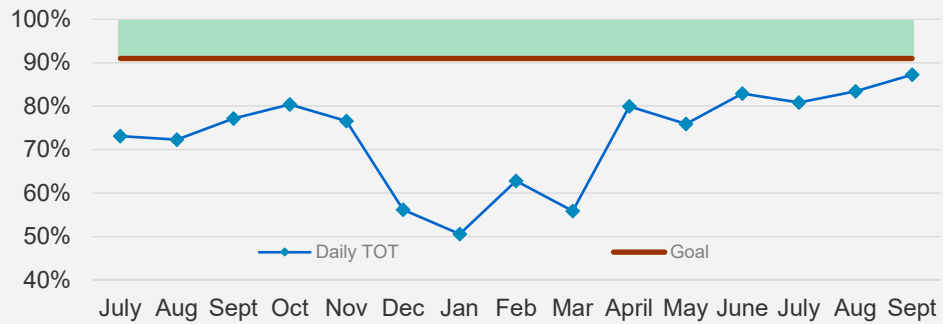
TOT - Daily



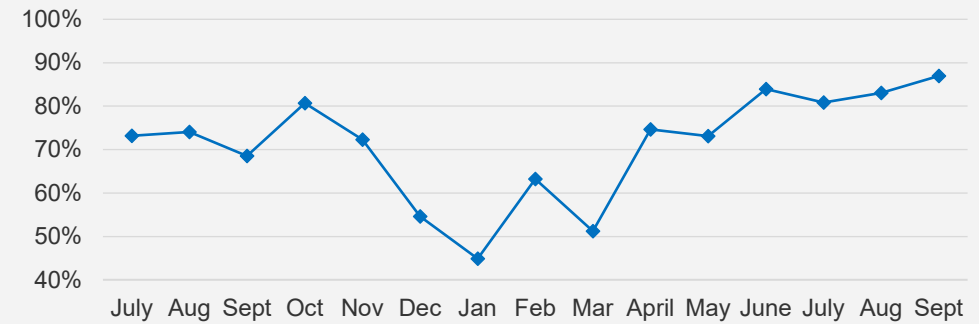
Estimate of Late Trains by Incident Cause (EOL)



● Trains On-Time - Daily



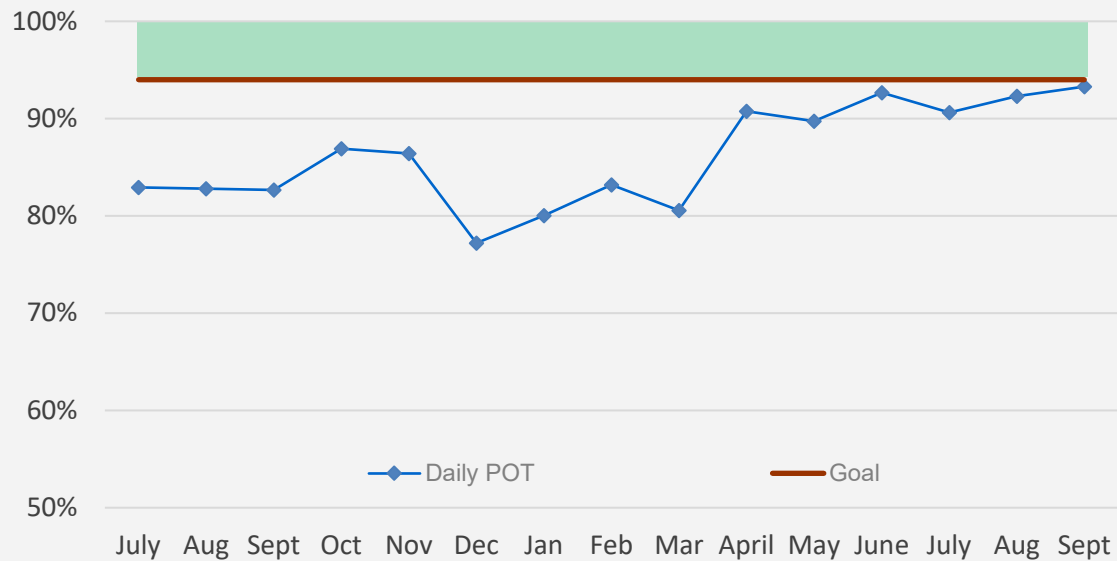
Trains On-Time - Peak



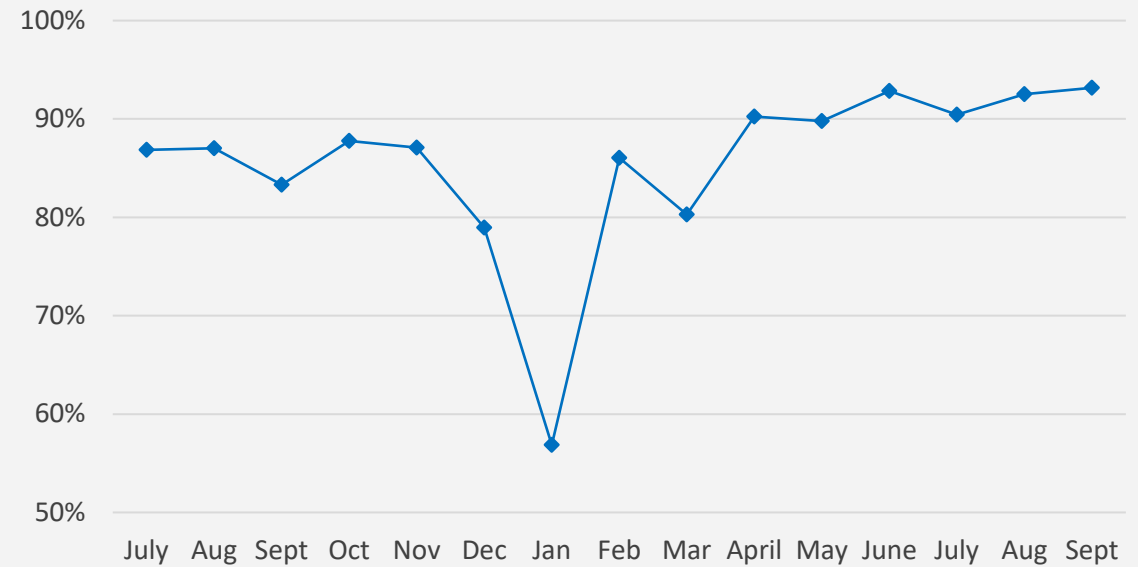
# Punctuality – Customer On-Time

- Customer On-Time was 92.1% for the quarter.
- September was the highest performing month in last five quarters.

● Customer On-Time - Daily



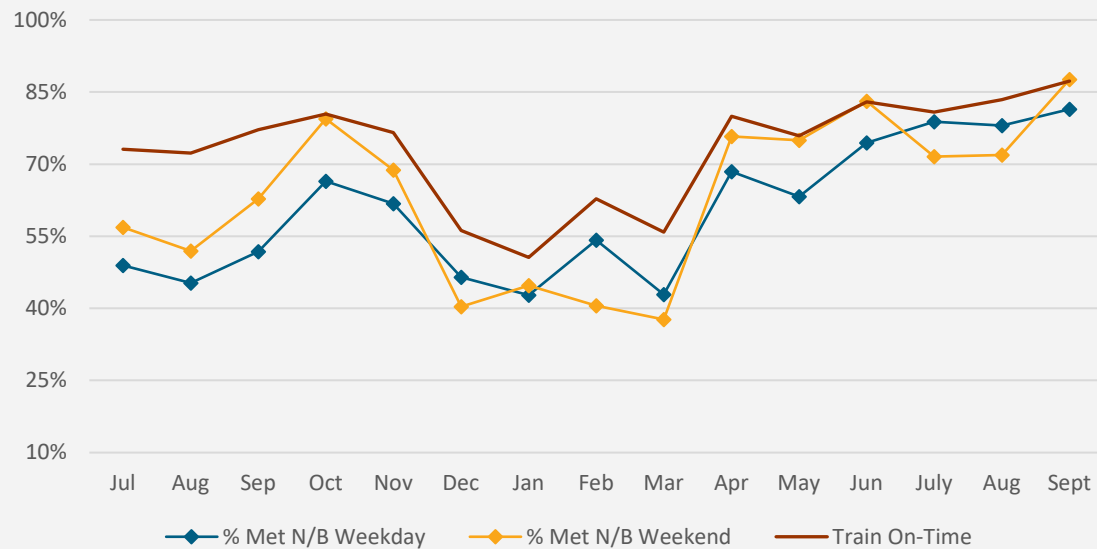
Customer On-Time - Peak



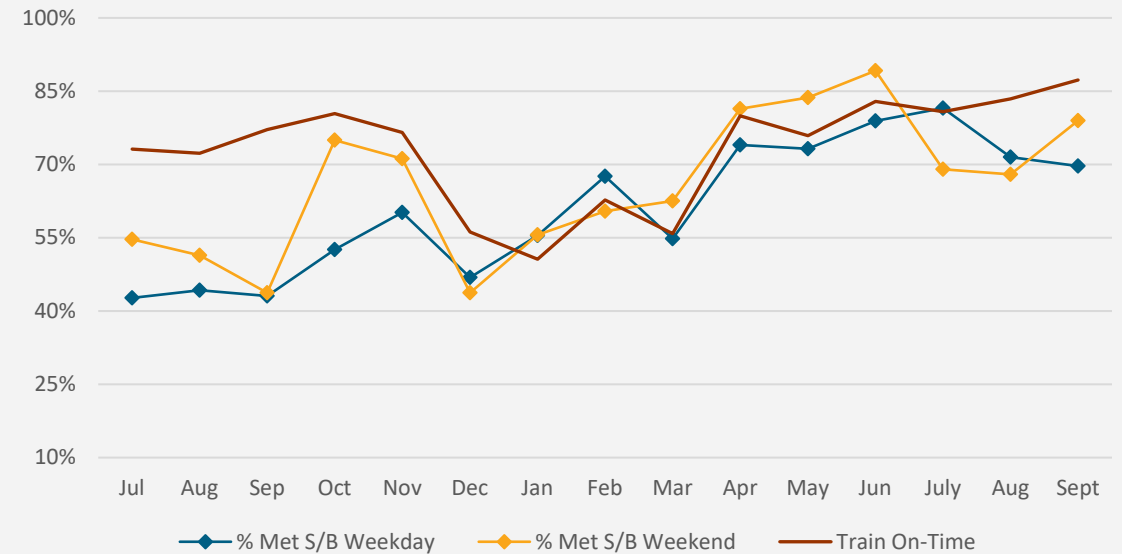
# Punctuality – Timed Train Meets

- A meet is considered successful when there is at least 20 seconds of overlap time for both trains at the timed transfer point
- Timed Train Meets on the K-Line between the Yellow and Orange lines occur as follows
  - Northbound trains meet at 19<sup>th</sup> Street
  - Southbound trains meet at MacArthur

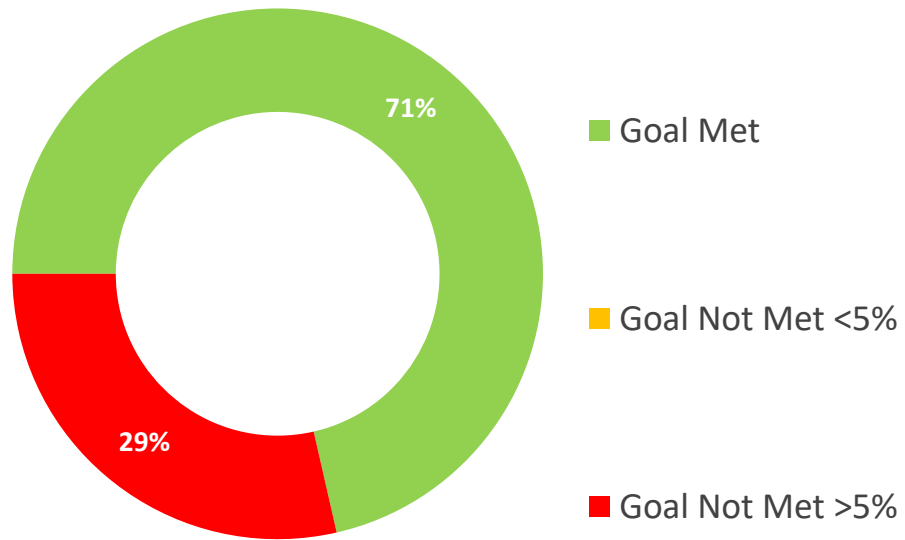
## Northbound Meets at 19<sup>th</sup> Street



## Southbound Meets at MacArthur



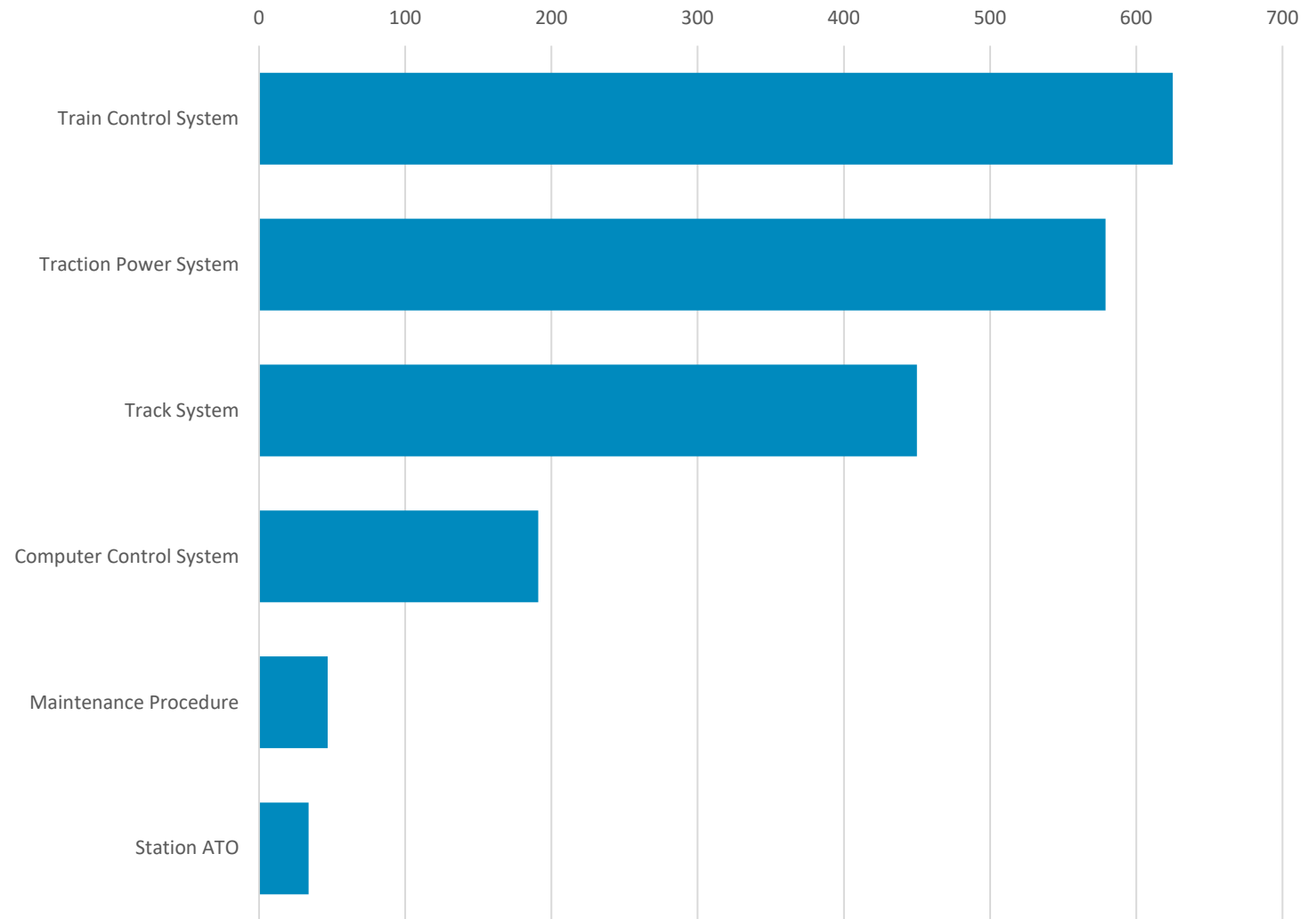
# Summary – Railway Asset Availability



Metric	FY24 Q1	Goal	Change from FY23 Q4	
<i>Wayside Equipment</i>				
Track	0.87	0.30	(694.17%)	▼
Traction Power	1.13	1.00	(81.28%)	▼
Wayside Train Control System	1.21	1.30	(27.01%)	▼
Computer Control System	0.32	0.30	(8.98%)	▼
Transportation	0.57	0.50	43.79%	▲
<i>Revenue Vehicle</i>				
Vehicle MTBSD - (Hours)	12755	9600	44.22%	▲
4 AM - Car Availability	637	581	(8.47%)	▼
DMU - MDBF (Miles)	39420	28000	(57.79%)	▼
<i>Station Equipment</i>				
Elevators in Service - Station	98.7%	98.0%	0.05%	▲
Elevators in Service - Garage	99.7%	97.0%	(0.14%)	▼
Escalators in Service - Street	97.5%	93.0%	1.91%	▲
Escalators in Service - Platform	98.7%	96.0%	1.52%	▲
Automatic Fare Collection - Gates	99.3%	98.0%	(0.10%)	▼
Automatic Fare Collection - Vendors	99.0%	95.0%	(0.18%)	▼

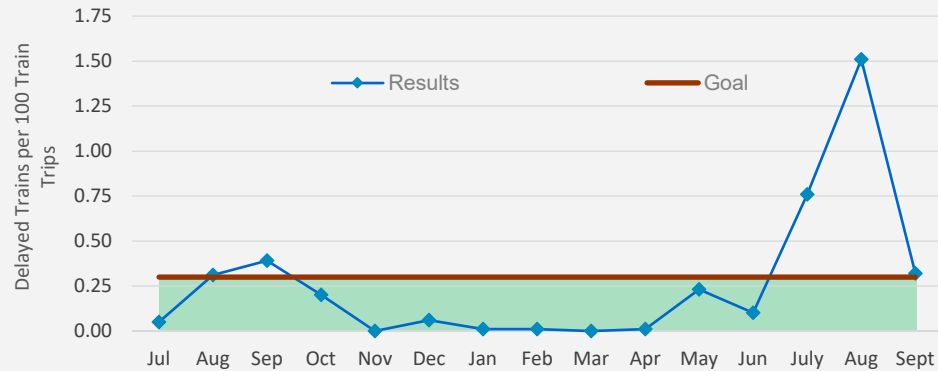
# Railway Asset Availability – Detail

- 1214 Train delays for the quarter
- Rail Inspection Vehicle identified defects that required slow orders.
- Rail Detector found rail defects that required slow orders.
- Train Control experienced two switch failures and a false occupancy.
- Communication ICS to FIP failure on July 8th.
- Traction Power lost 3rd rail power on July 10th.

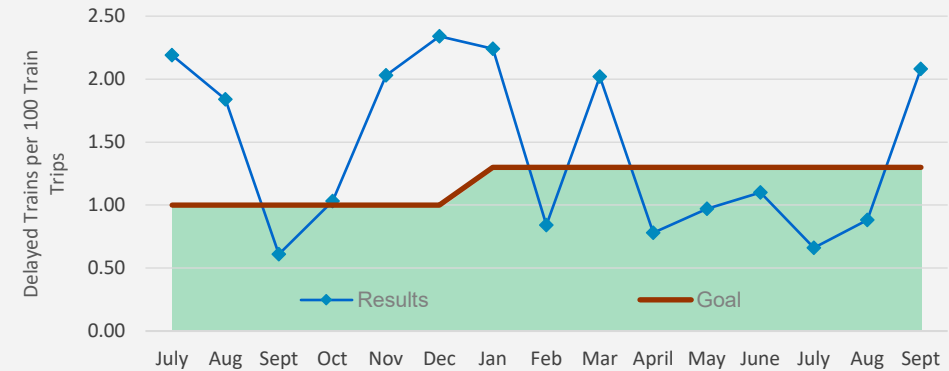


# Wayside Equipment – Delayed Trains by System

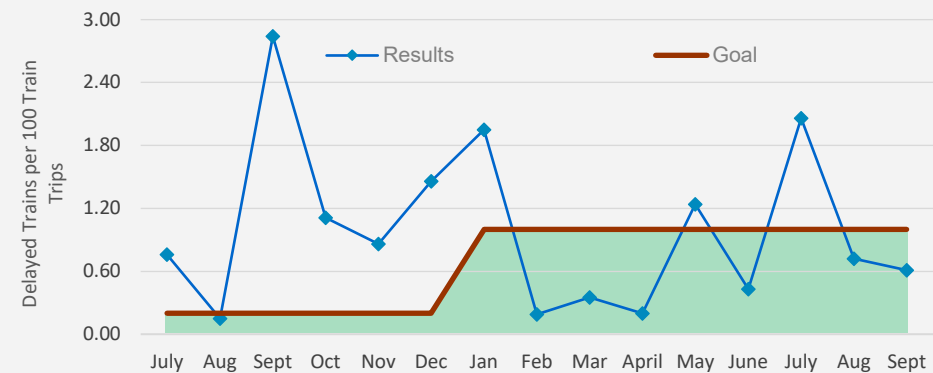
## ● Track System



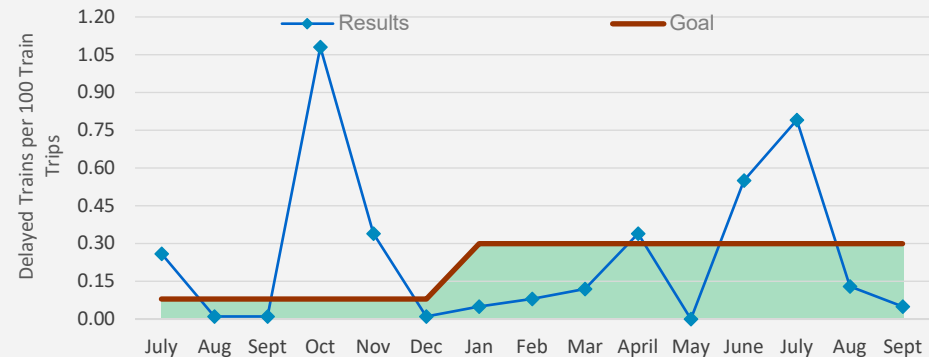
## ● Wayside Train Control System



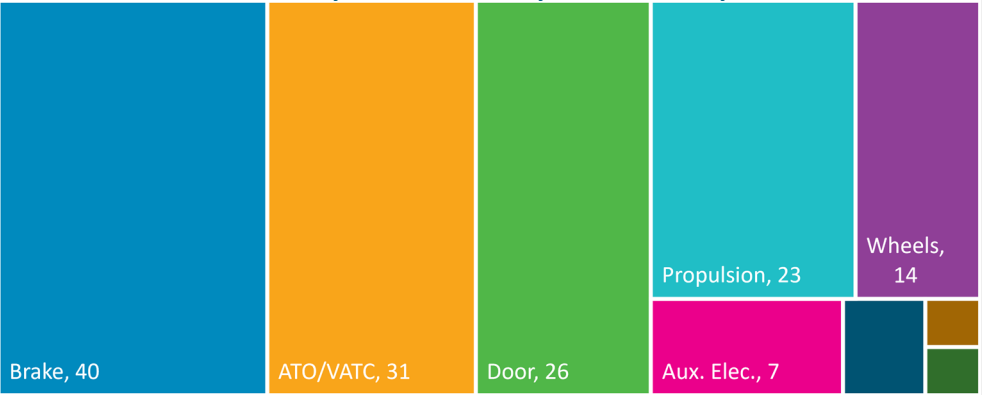
## ● Traction Power System



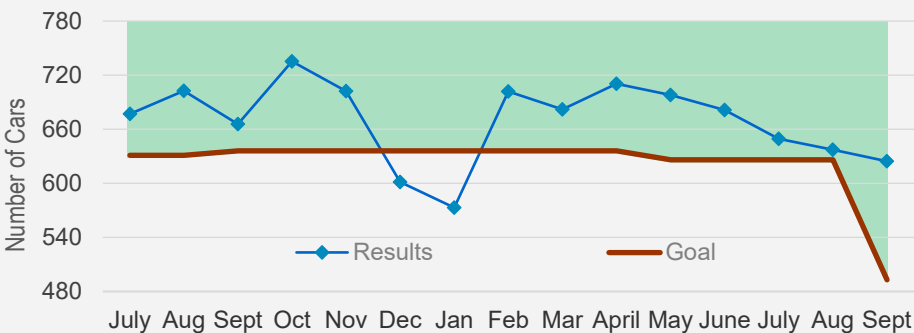
## ● Wayside Computer Control System



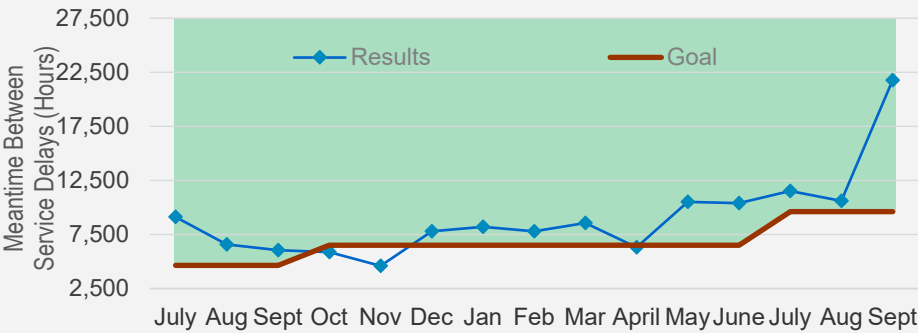
Breakdown of Delayed Trains by Vehicle System



● Car Availability at 4 AM

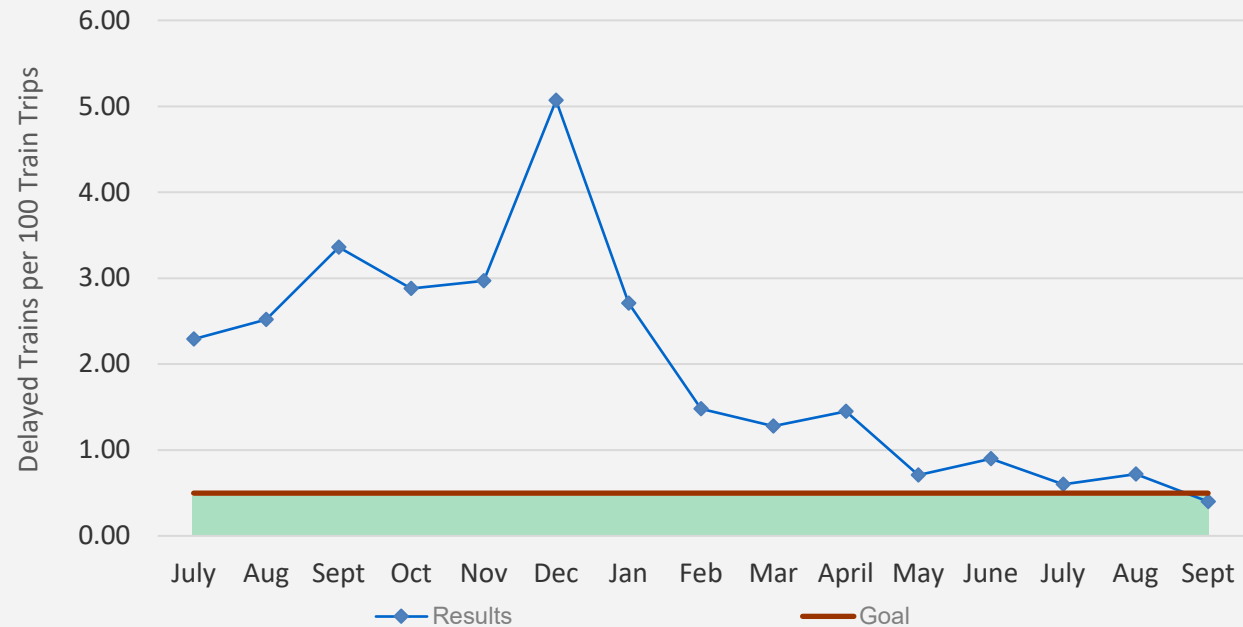


● Mean Time Between Service Delays



197  
LEGACY  
FOTF  
596  
Car count as of 09/30/2023

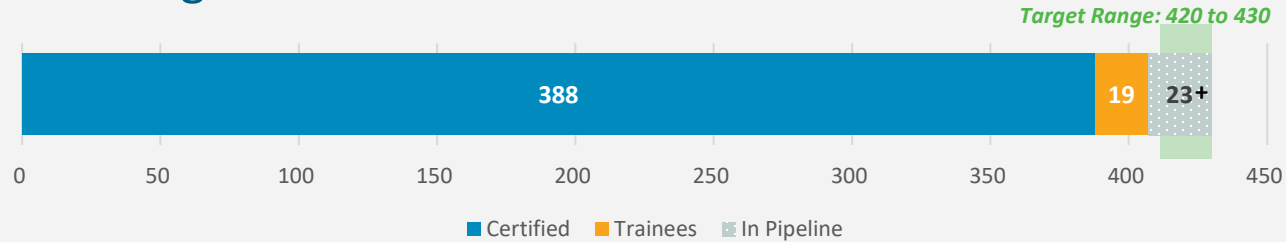
## ● Operations



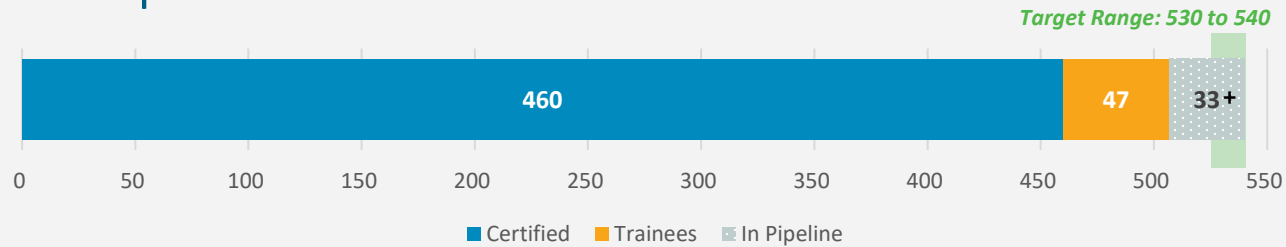
- Train delays due to staff shortages were nearly eliminated this quarter.
- Continued hiring of Train Operators is driving delays down.
- 78 train delays due to staffing shortage for the quarter.

# Hiring Metrics - Priority Positions

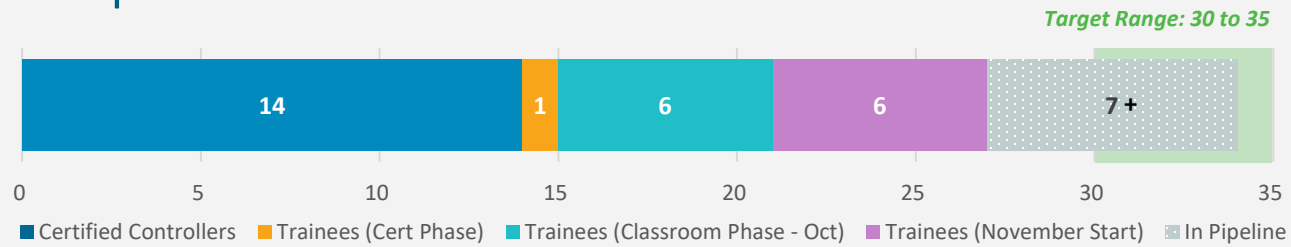
## Station Agent



## Train Operator



## Rail Operations Controller

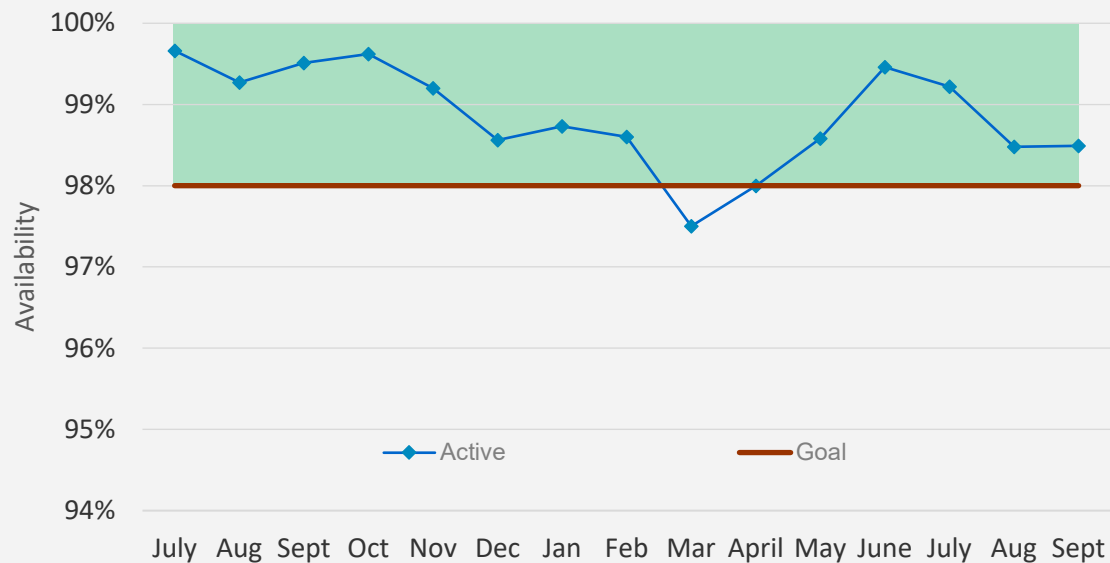


# Station Equipment – Elevator Availability

## Station Elevator

- Goal met

### Station Elevator



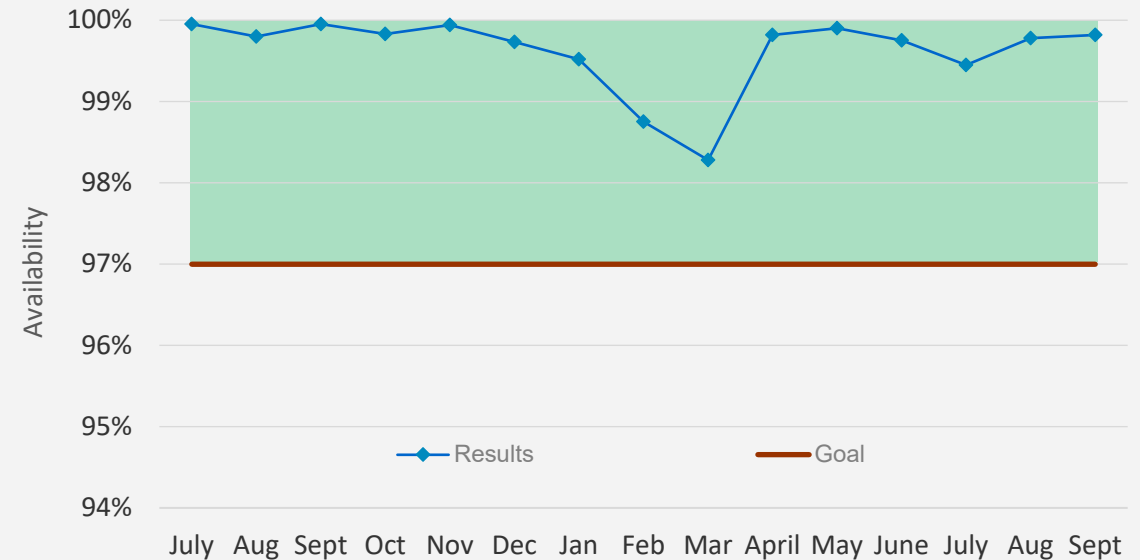
*\*E-line Elevator and Escalator are included*

## Garage Elevator

- Goal met



### Garage Elevator

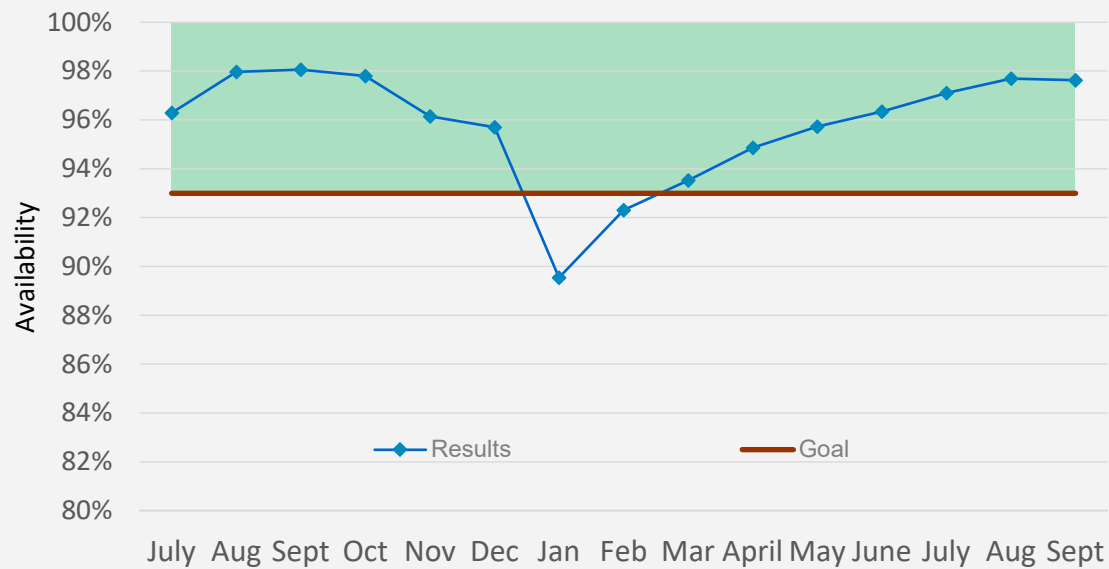


# Station Equipment – Escalator Availability

## Street Escalator

- Goal met

### Street Escalator

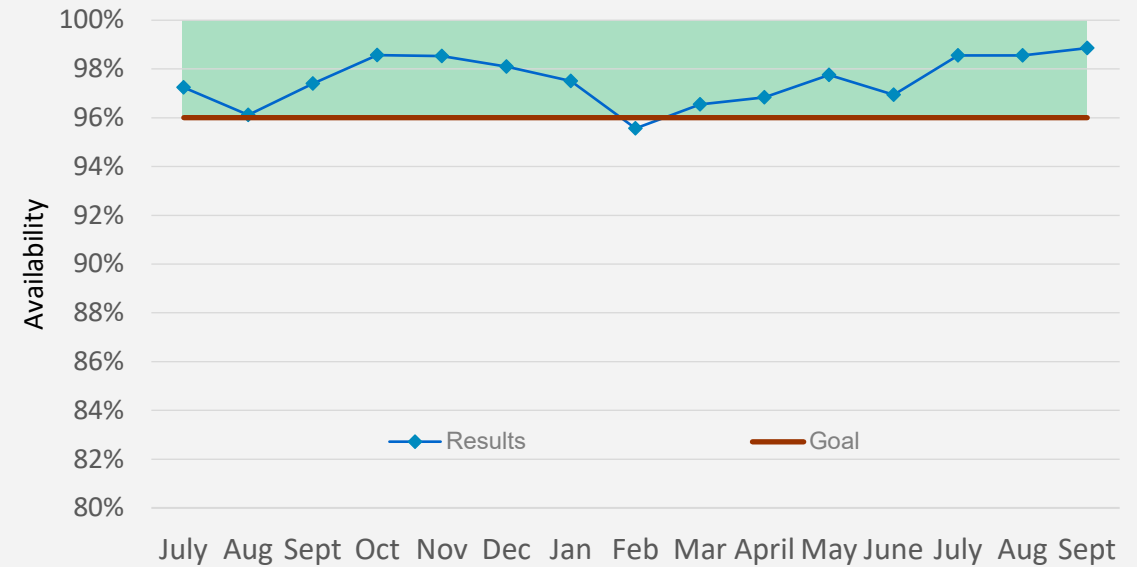


## Platform Escalator

- Goal met



### Platform Escalator

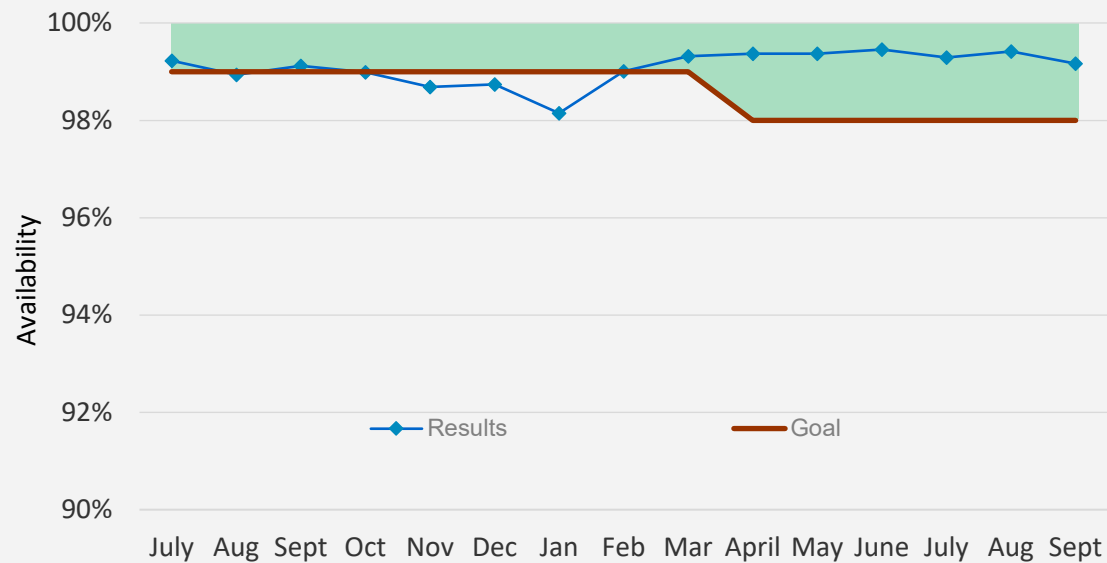


# Station Equipment – Automated Fare Collection

## Gate Availability

- Goal met

### Gate Availability

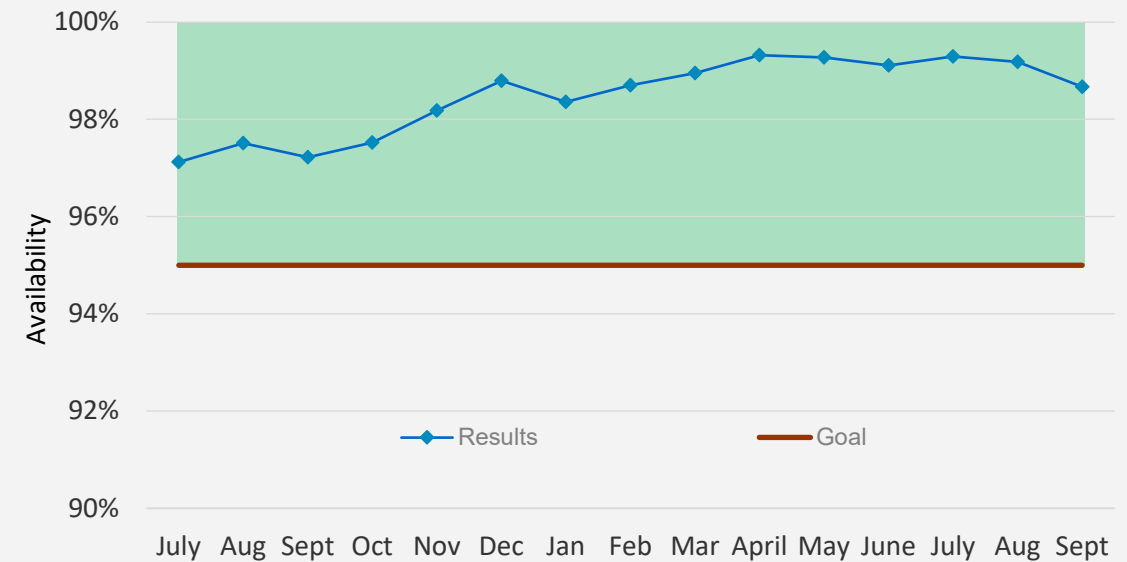


## Vendor Availability

- Goal met



### Vendor Availability



# Summary – Customer Experience

*As a reminder, goals for Customer Experience are not being reported because BART has redesigned the PES surveys and rating criteria. Goals will be re-established after one year of new data is available.*

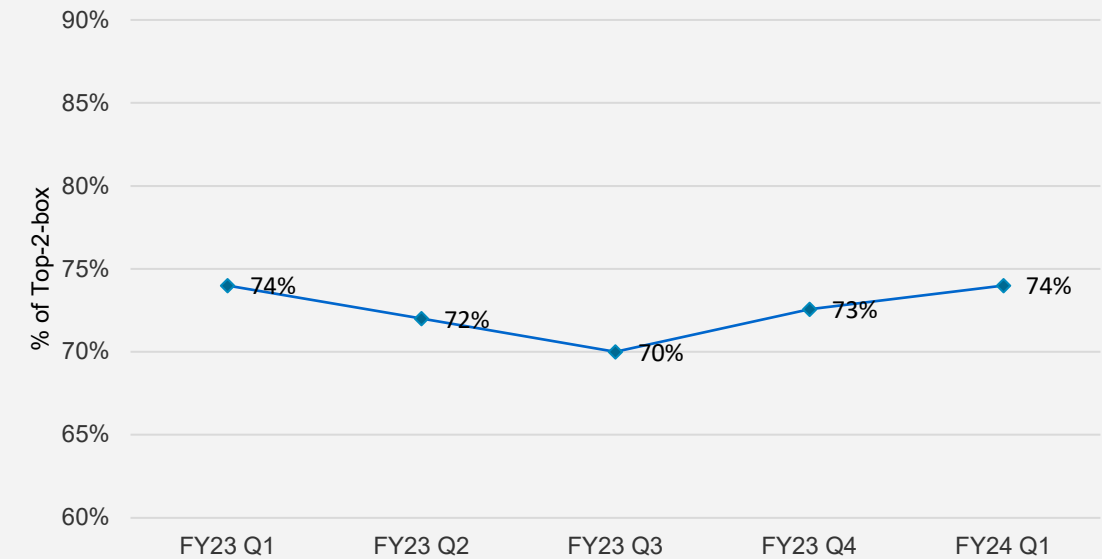
Metric	FY24 Q1	Goal	Change from FY23 Q4	
<i>Customer Experience</i>				
Overall Customer Satisfaction	75%		-	
Station Agent Customer Service	4.5		15%	
Complaints per 100,000 Passenger Trips	28.69	5.1	(34.06%)	▲
<i>Train Environment</i>				
Train Temperature	4.14		0.97%	
Train Interior Cleanliness	3.63		(2.94%)	
<i>Station Environment</i>				
Environment Outside Stations	3.50		0.98%	
Environment Inside Stations	3.50		(0.38%)	
<i>Code of Conduct</i>				
Gender Based Harassment	8%		(11.11%)	
Fare Evasion	24%		(4.31%)	

▲ Gray arrows represent change from the previous quarter for metrics which do not have an established goal

- Overall Customer Satisfaction 74%
- Up 1% from last quarter
- Station Agent Customer Service is 4.5
- Up 0.6 on the 5-point scale

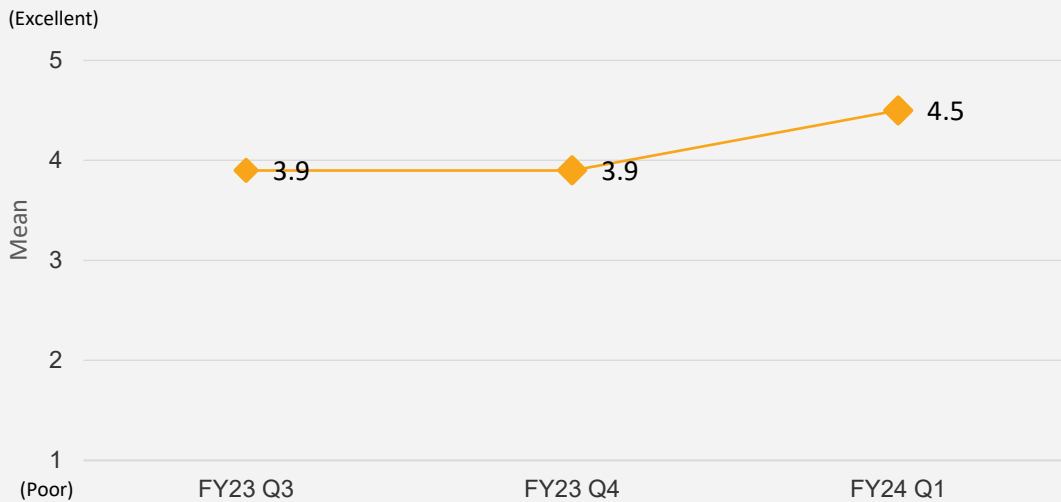
Overall, how satisfied are you with the services provided by BART?

## Overall Customer Satisfaction



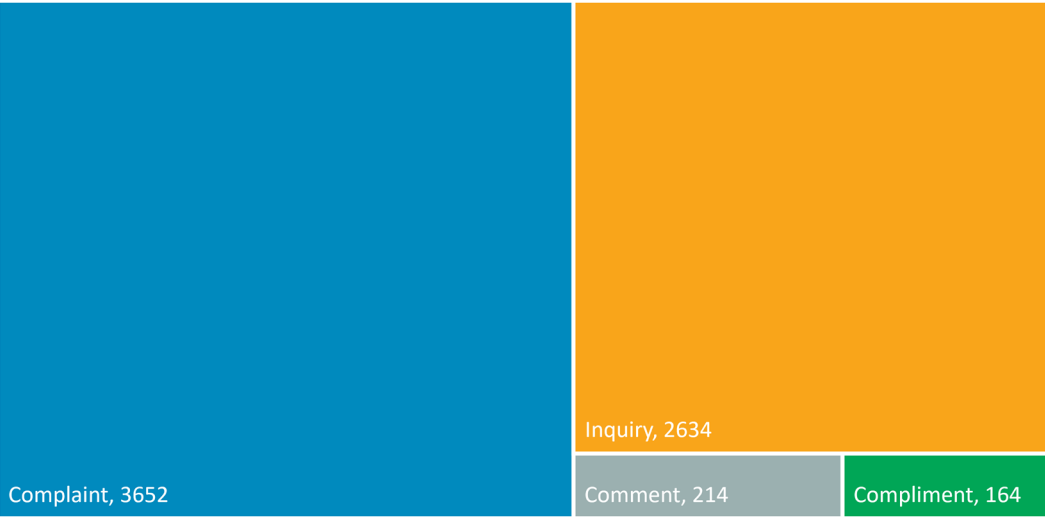
Customer service from Station Agent (if used today)

## Station Agent Customer Service

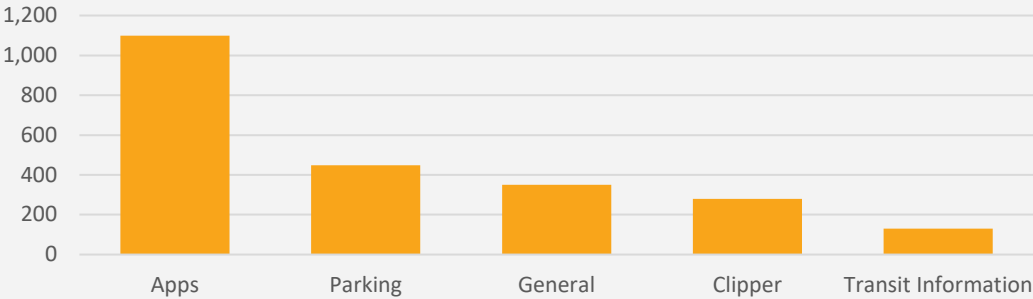


# Customer Service – Cases by Type

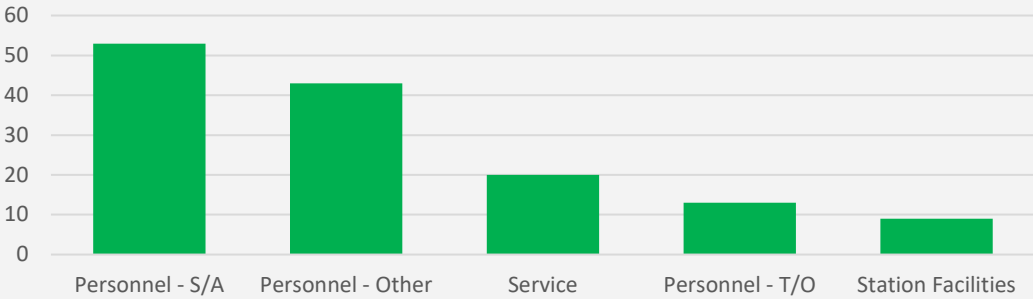
Breakdown of 6664 Inquiry Cases



Inquiry Cases – FY24 Q1

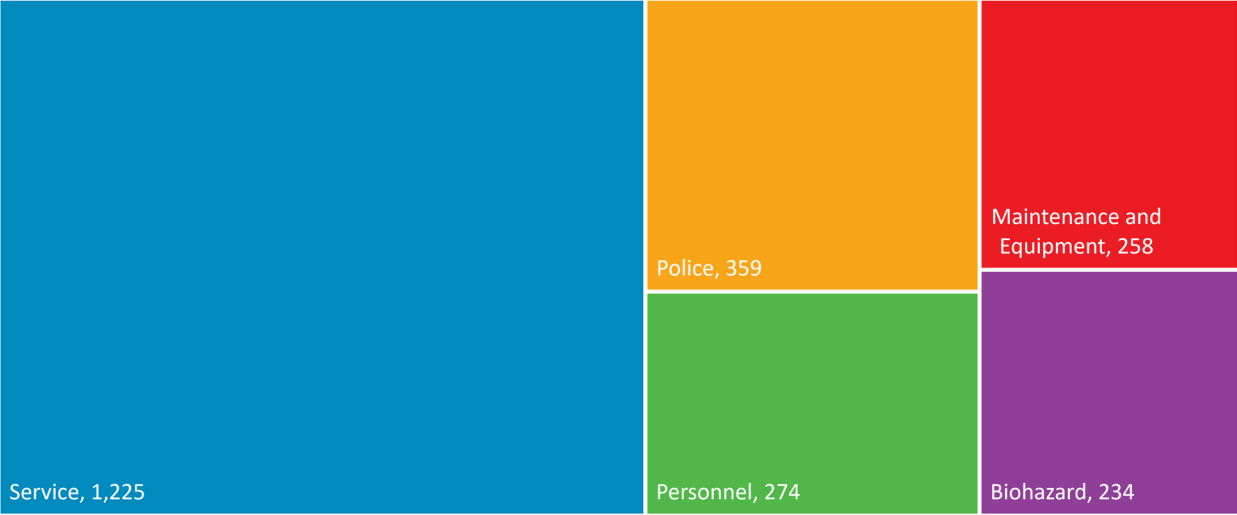


Compliment Cases – FY24 Q1

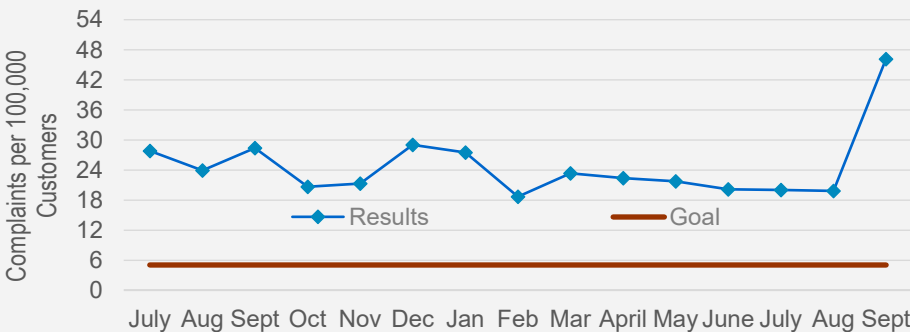


# Customer Service – Complaint Cases

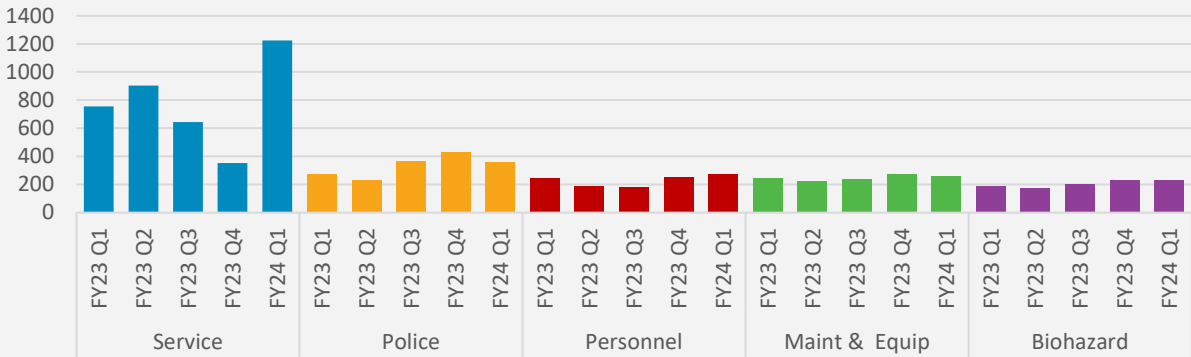
Breakdown of Top Five Complaint Categories of 3652 Complaints



## Customer Complaints



## FY24 Q1 Trending Customer Complaints

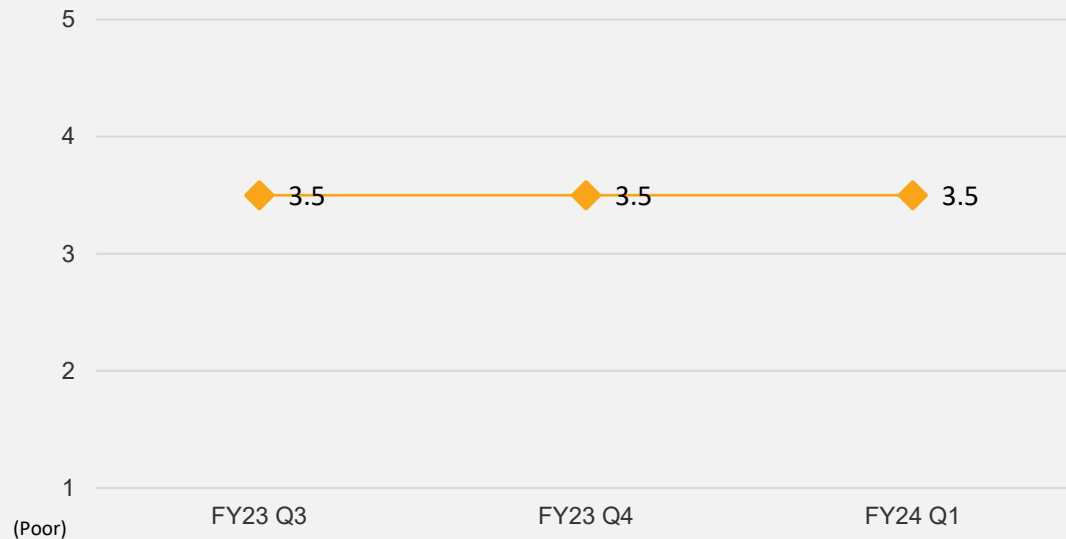


## Environment Outside Station

- This is a composite score which incorporates the appearance of BART landscaping, walkways, and entry plaza (67%), and the cleanliness of the parking lot (33%).

### Environment Outside Station

(Excellent)

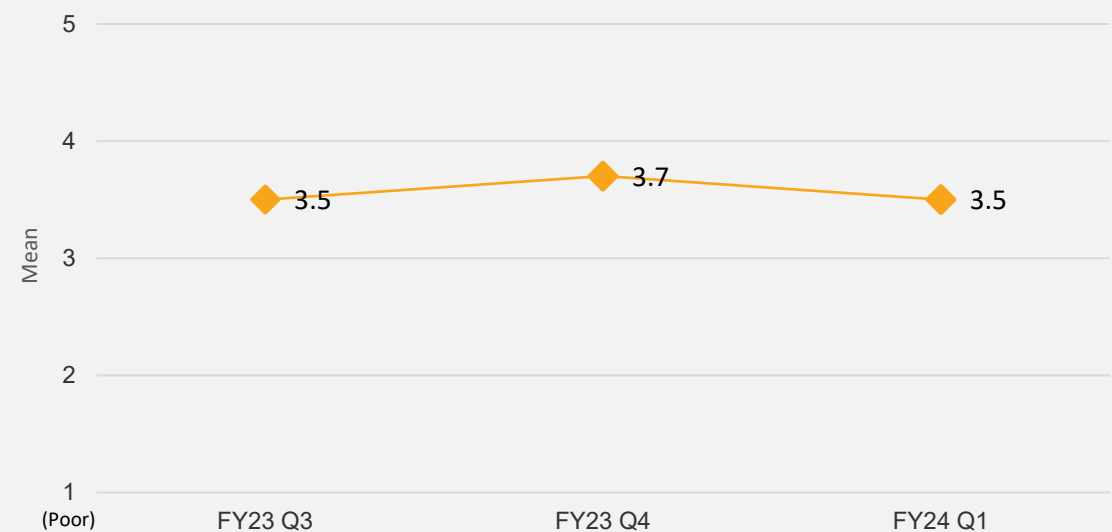


## Environment Inside Station

- This is a composite score which incorporates the appearance of the platform (40%), concourse (25%), escalator (10%), stairwells (7.5%), elevator (10%), and restroom (7.5%).

### Environment Inside Station

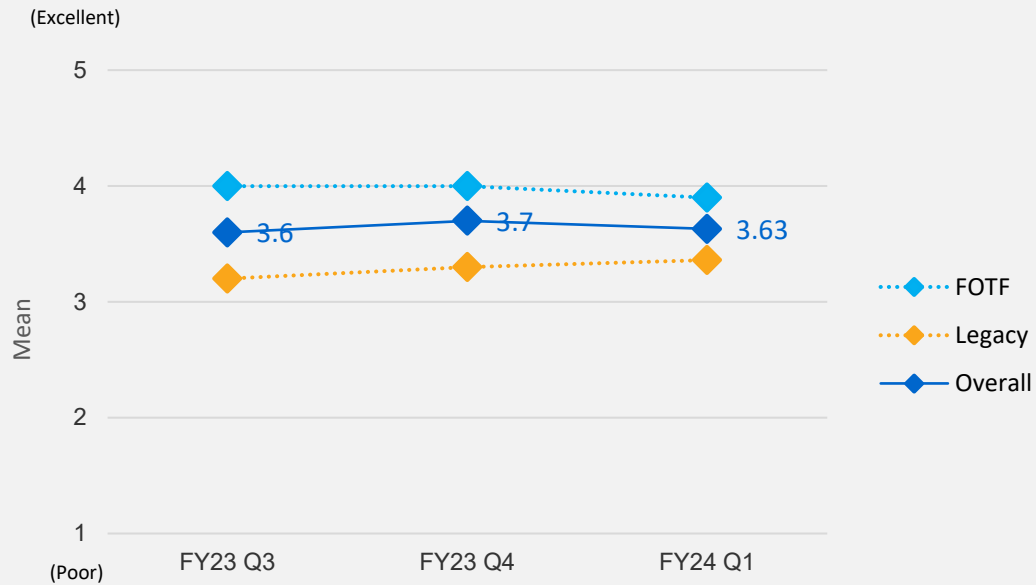
(Excellent)



## Customer Rating – Interior Cleanliness

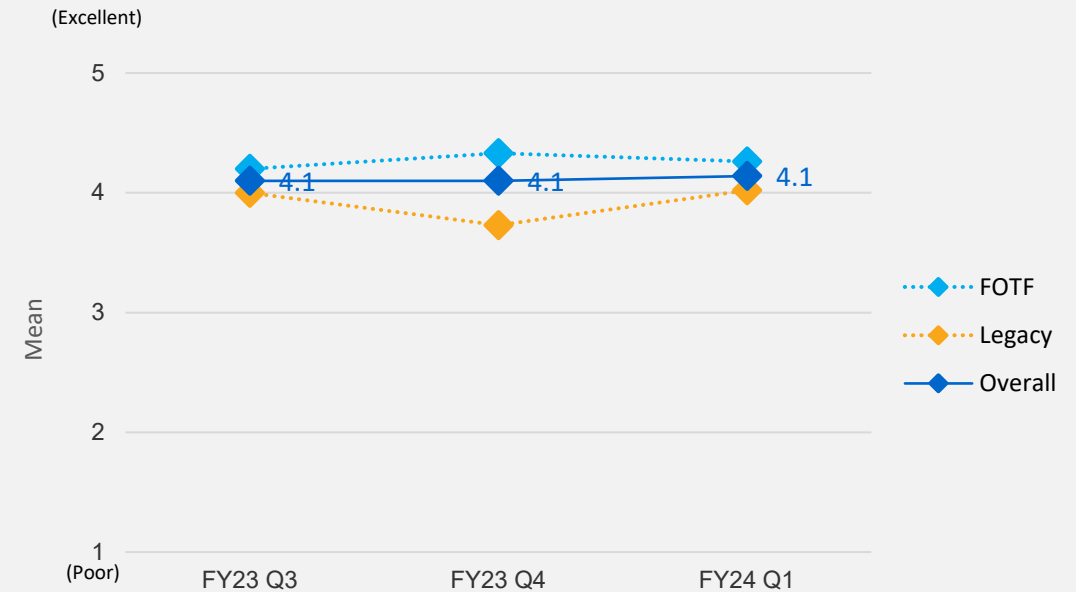
- This is a composite score which incorporates the appearance of the train interior (60%), and the appearance of any graffiti on the train (40%).

### Customer Rating – Interior Cleanliness



## Customer Rating - Temperature

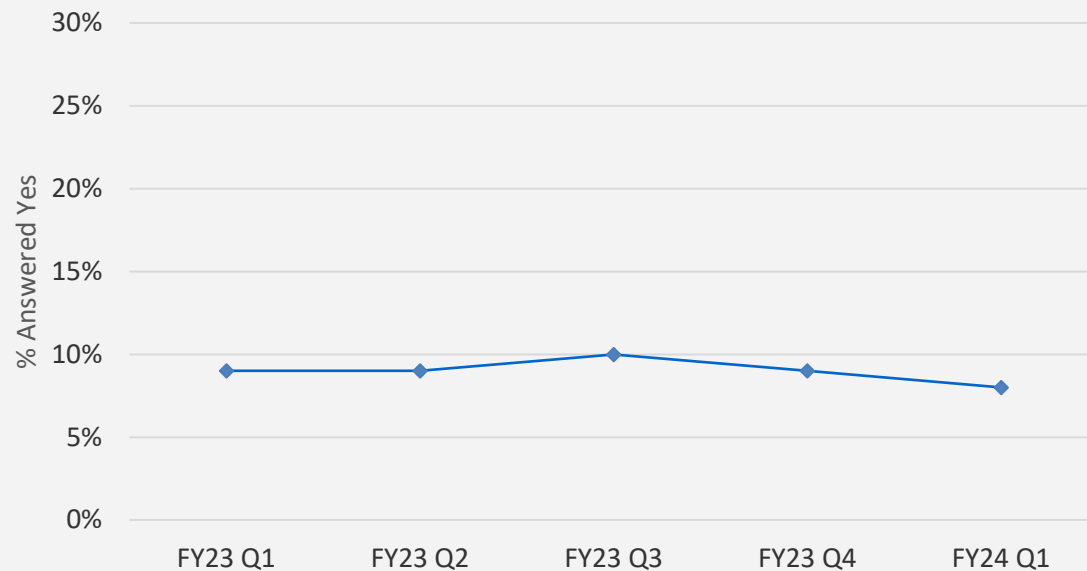
### Customer Rating - Temperature



## Gender Based Harassment

*Have you experienced gender-based sexual harassment at BART in the last six months?*

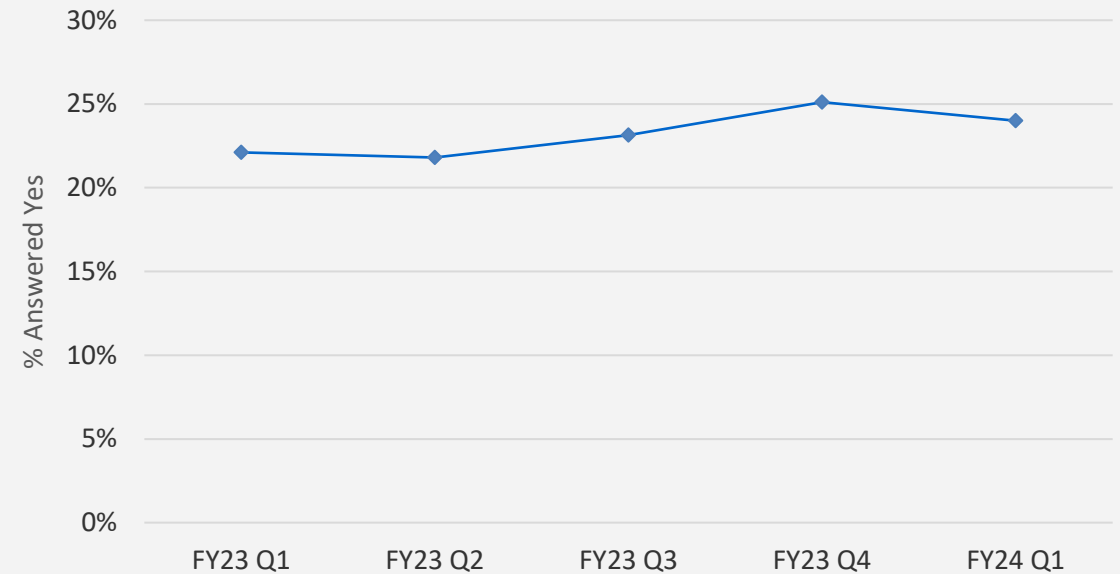
### Gender Based Harassment



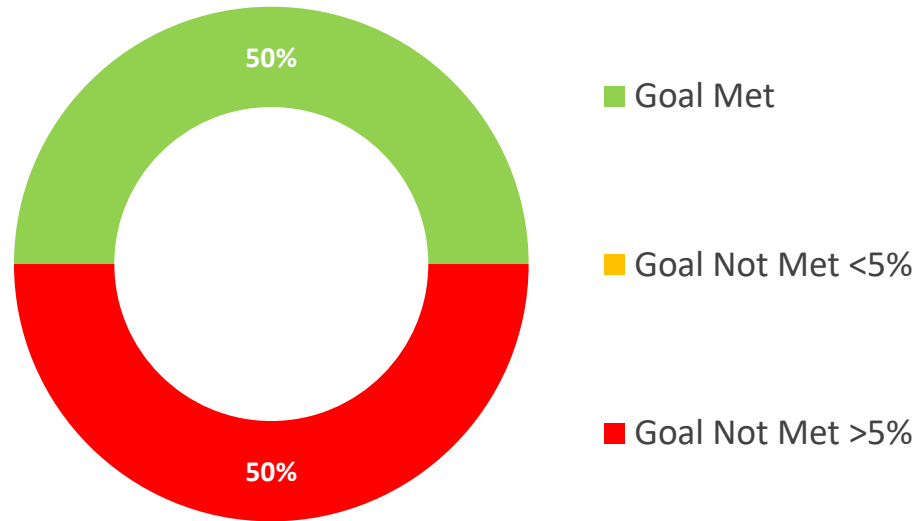
## Fare Evasion

*Did you see anyone enter or exit the Station without paying their fare today?*

### Fare Evasion



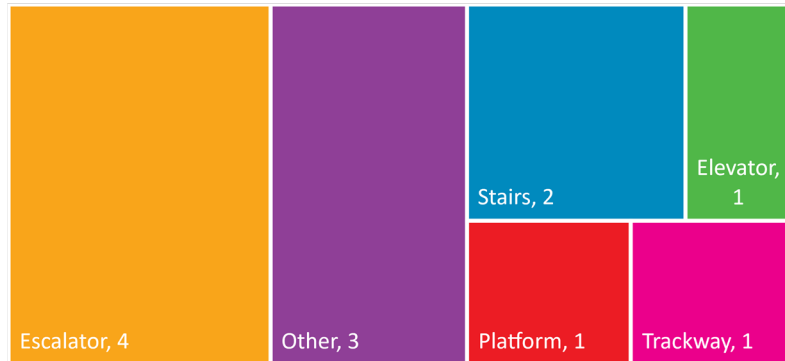
# Summary – Safety and Security



Metric	FY24 Q1	Goal	Change from FY23 Q4	
<i>Safety</i>				
Vehicle Incidents/Million Patrons	0.24	0.6	42.85%	▲
Unscheduled Door Openings/Million Car Miles	0.24	0.2	46.66%	▲
Rule Violations Summary/Million Car Miles	0.14	0.25	48.14%	▲
Station Incidents/Million Patrons	0.94	2	33.33%	▲
OSHA-Recordable Injuries/Illnesses/Per OSHA	14.69	12	(14.67%)	▼
Lost Time Injuries/Illnesses/Per OSHA	8.44	6.5	(8.06%)	▼
<i>Security</i>				
Police Response Time per Emergency Incident	4.39	5	(10.85%)	▼
Bike Thefts	50	50	(66.66%)	▼
Auto Thefts/1,000 Parking Spaces	4.24	2	(3.63%)	▼
Auto Burglaries/1,000 Parking Spaces	4.60	3.5	(6.48%)	▼
BART Police Presence	17.3%	12%	89.92%	▲
Crimes Against Persons/Million Riders	7.86	2	14.15%	▲

## Station Incidents

Breakdown of 12 Station Incidents

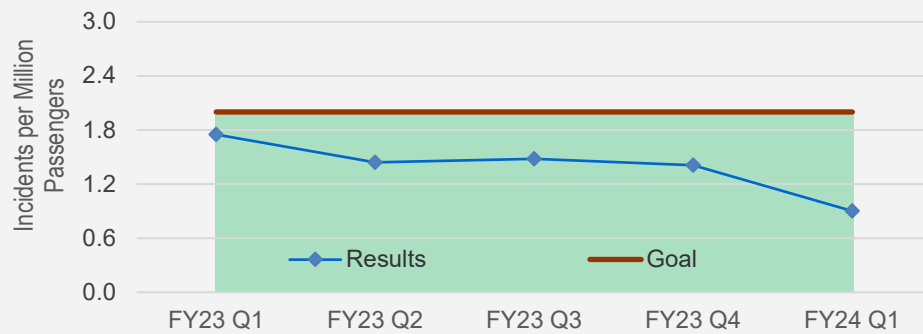


## Vehicle Incidents

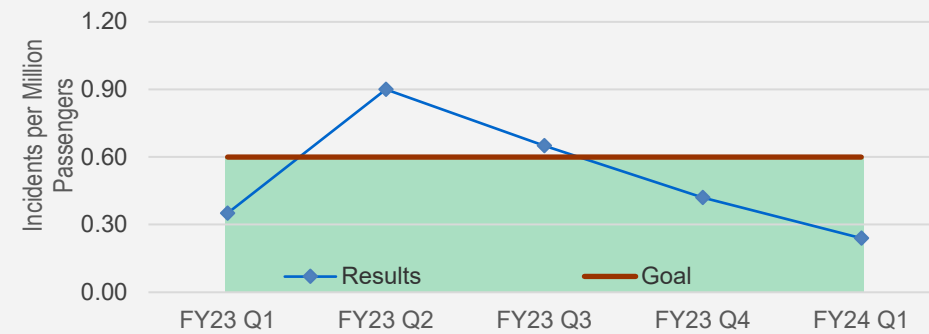
Breakdown of 3 Vehicle Incidents



### Station Incidents

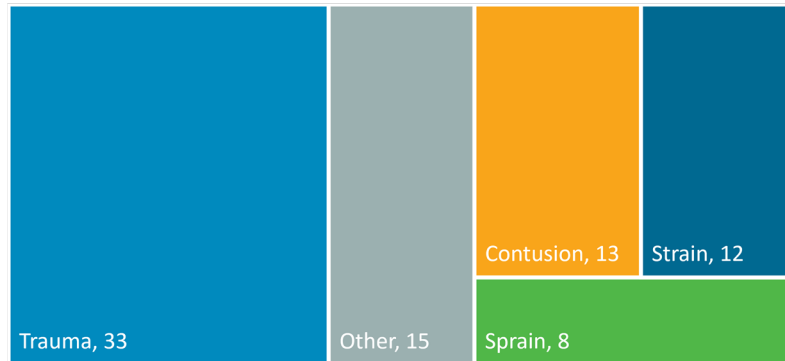


### Vehicle Incidents



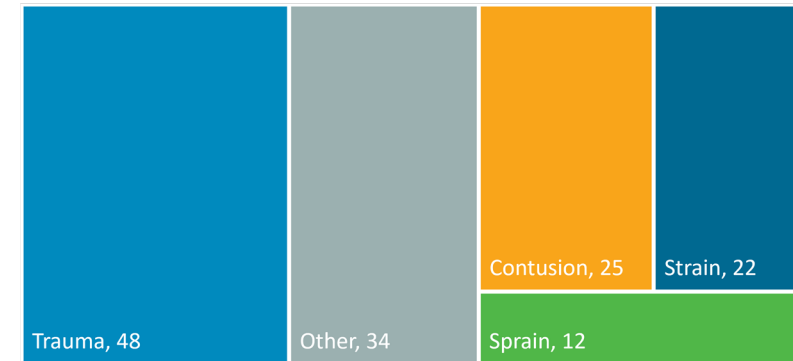
## Lost Time due to Injuries

Breakdown of 81 Lost Time Cases

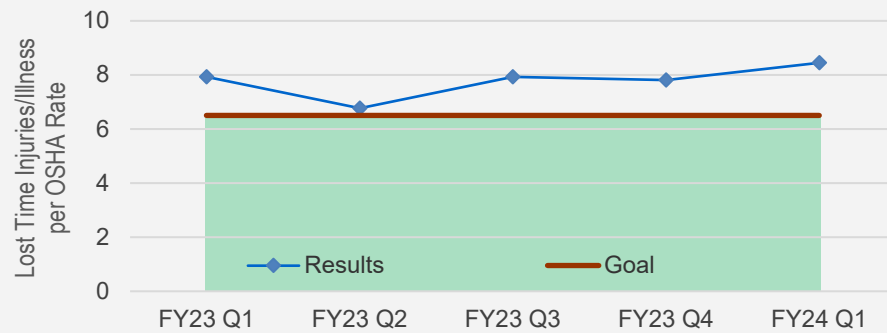


## OSHA Recordable Injuries

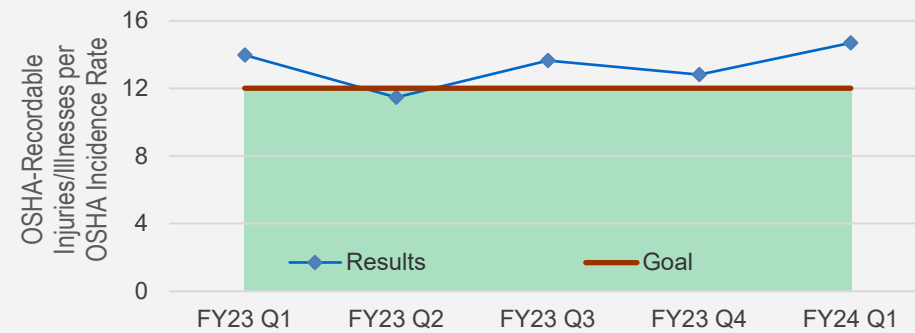
Breakdown of 141 Recordable Injuries



### ● Lost Time due to Injuries



### ● OSHA Recordable Injuries

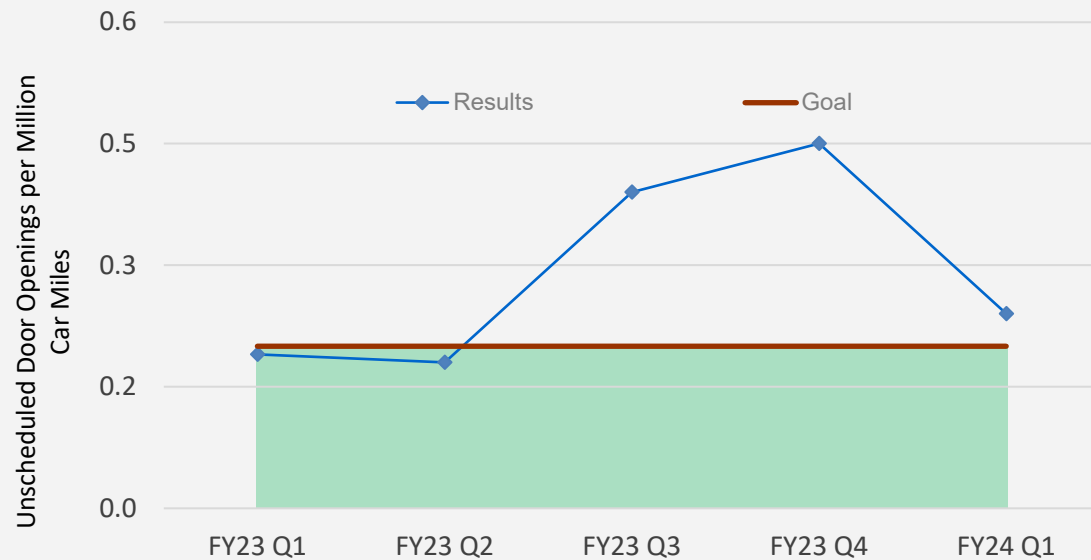


# Safety – Procedure Violations

## Unscheduled Door Openings

- 5 Unscheduled Door Openings in FY24 Q1
  - All 5 due to Passenger Action
  - 5 less than previous quarter

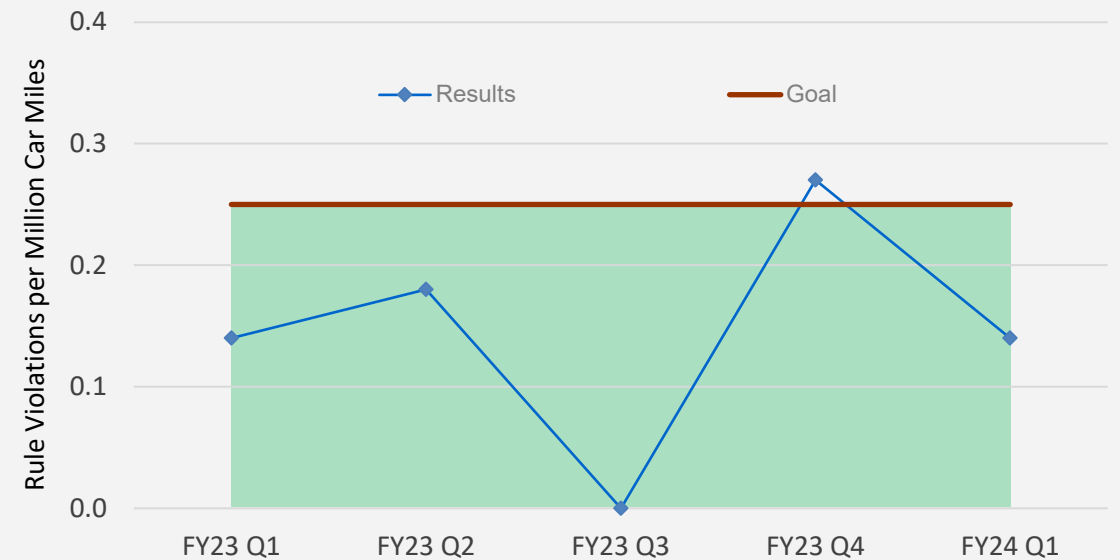
### Unscheduled Door Openings



## Rule Violations

- 3 Rule Violations in FY24 Q1
- Zero rule violations in July

### Rule Violations

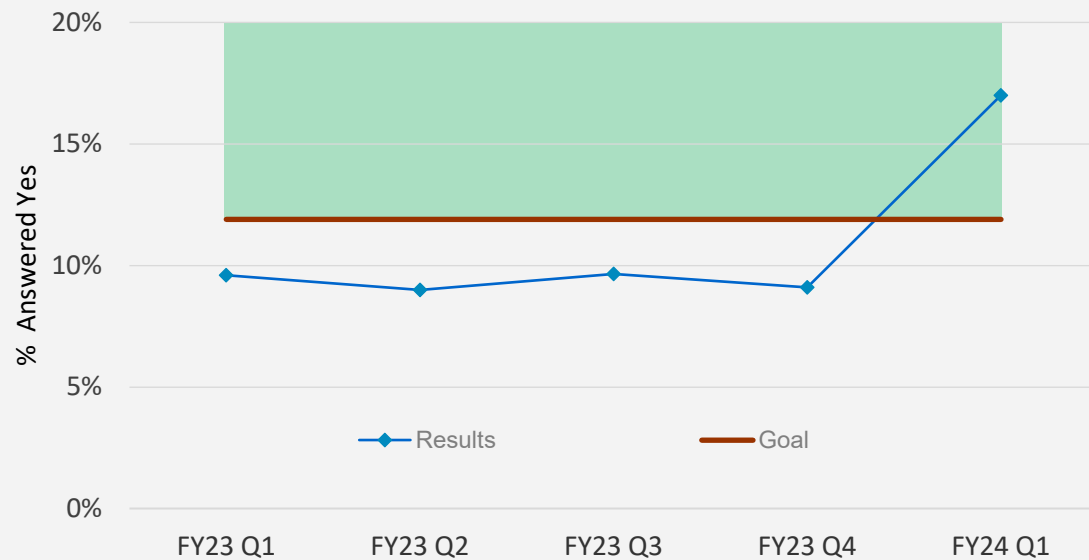


## Police Presence

- Continued uniformed visibility, daytime and nighttime staffing at Civic Center

### BART Police Presence

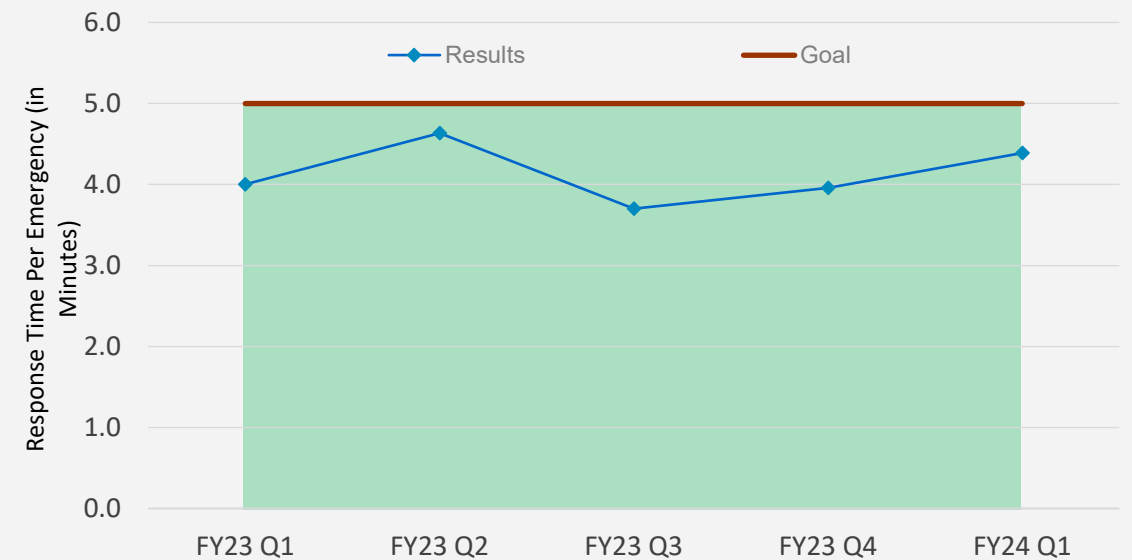
Did you see BART Police in the station today?  
Did you see BART Police outside the station today?  
Did you see BART Police on this train?



## Police Response Time

- Goal met

### BART Police Response Time



# Crime – Theft and Burglary

## Bike Theft

- Goal met

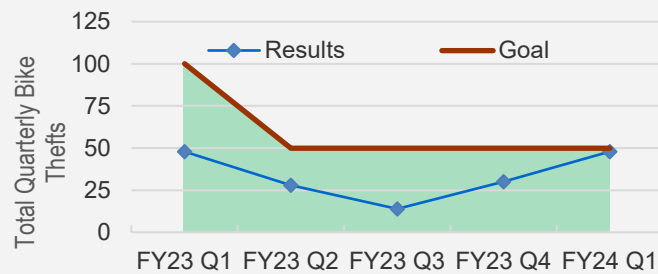
## Auto Theft

- Goal not met

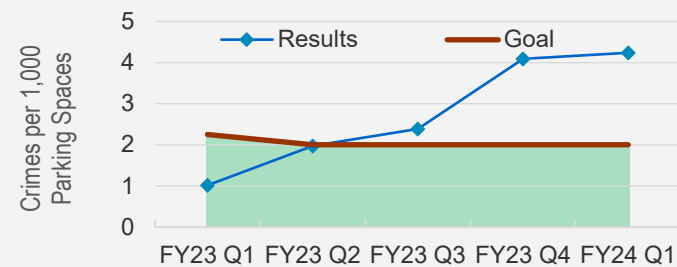
## Auto Burglary

- Goal not met

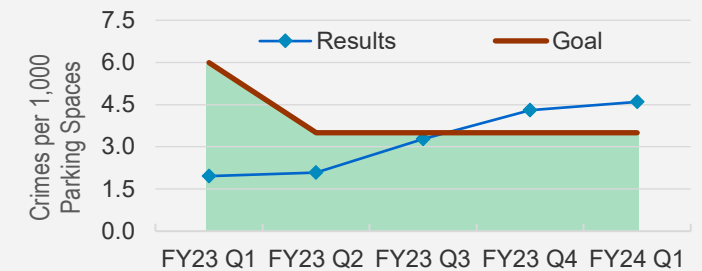
### Bike Theft



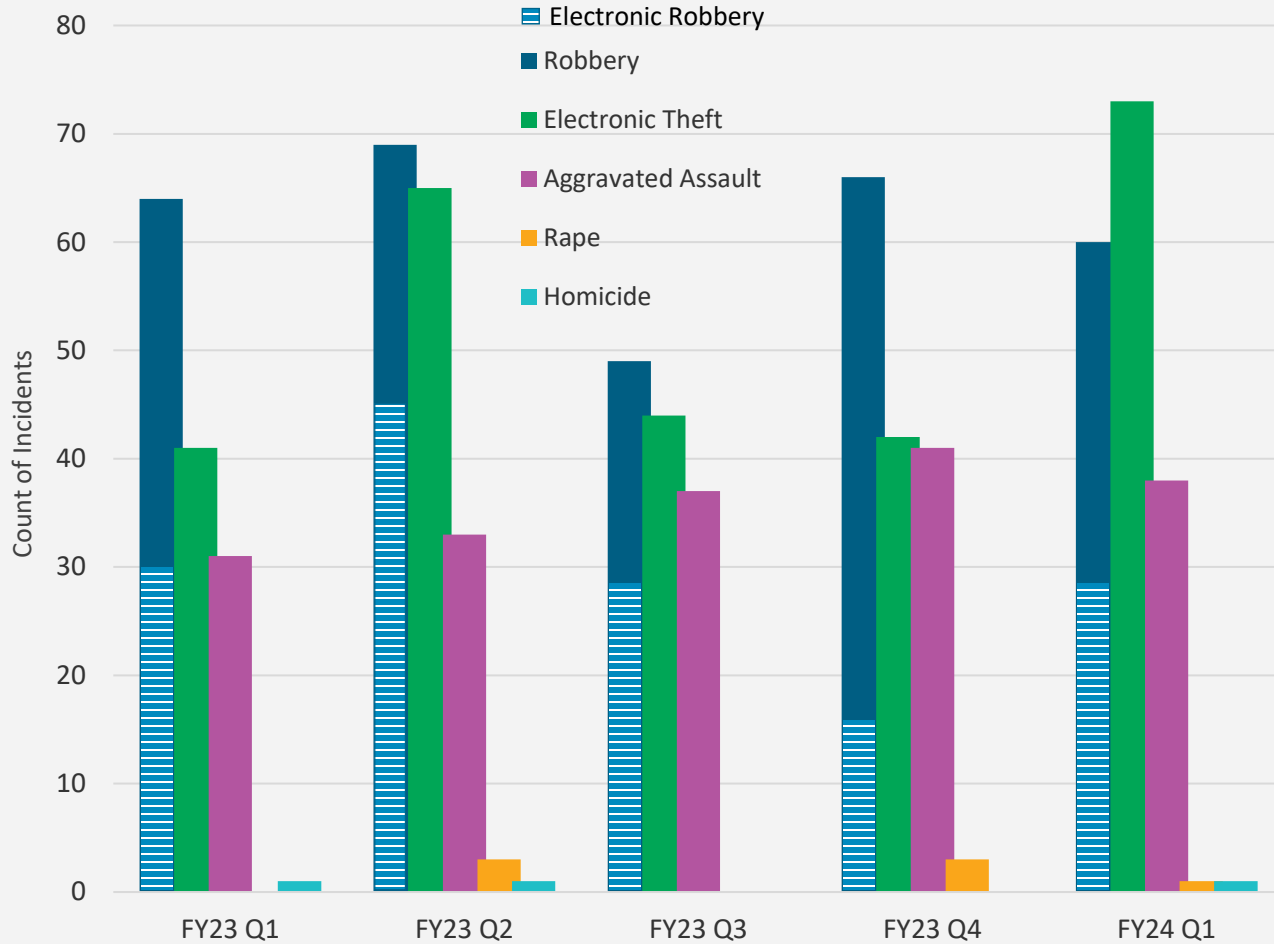
### Auto Theft



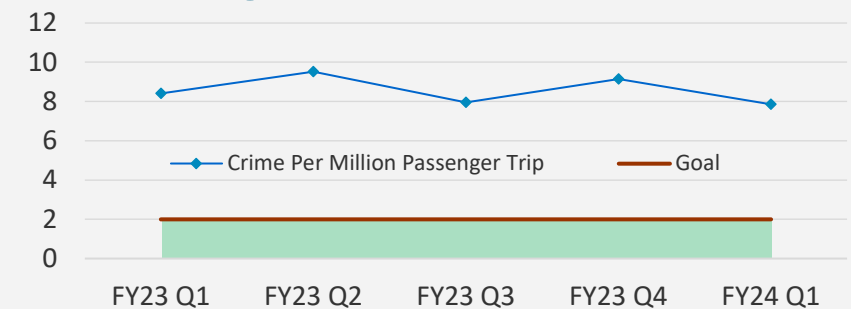
### Auto Burglary



# Crime – Against Persons



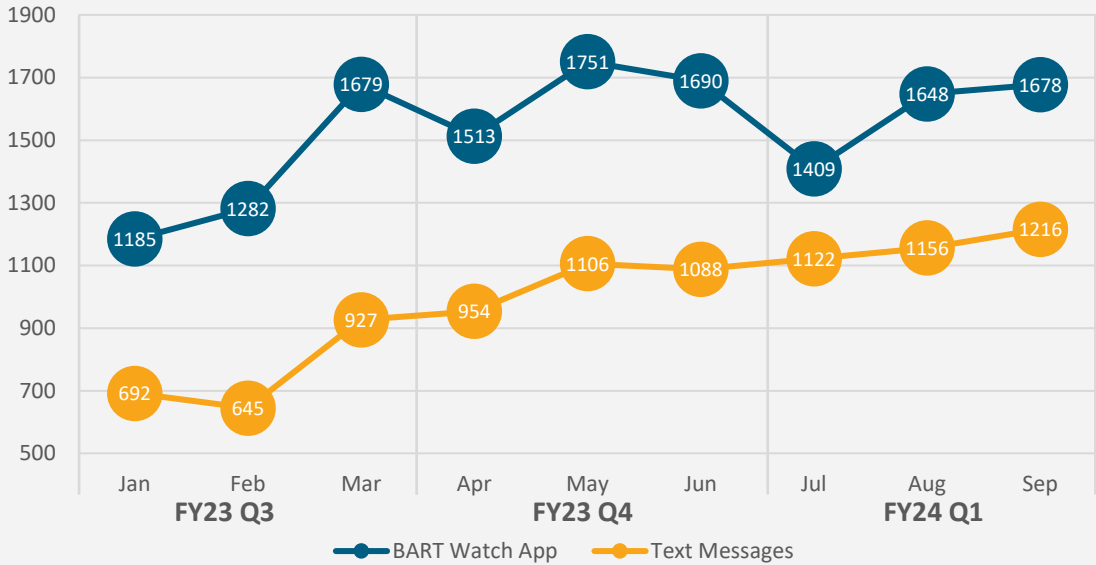
## Crime Against Persons



## Breakdown of 4458 BART Watch Reports



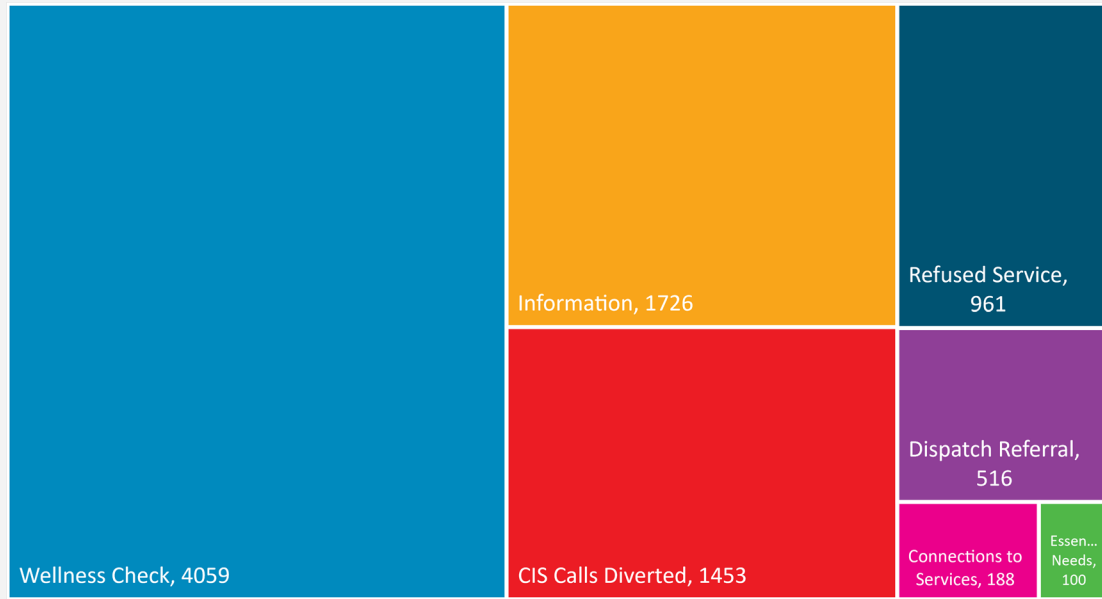
## Total BART Watch & Text Counts by Month



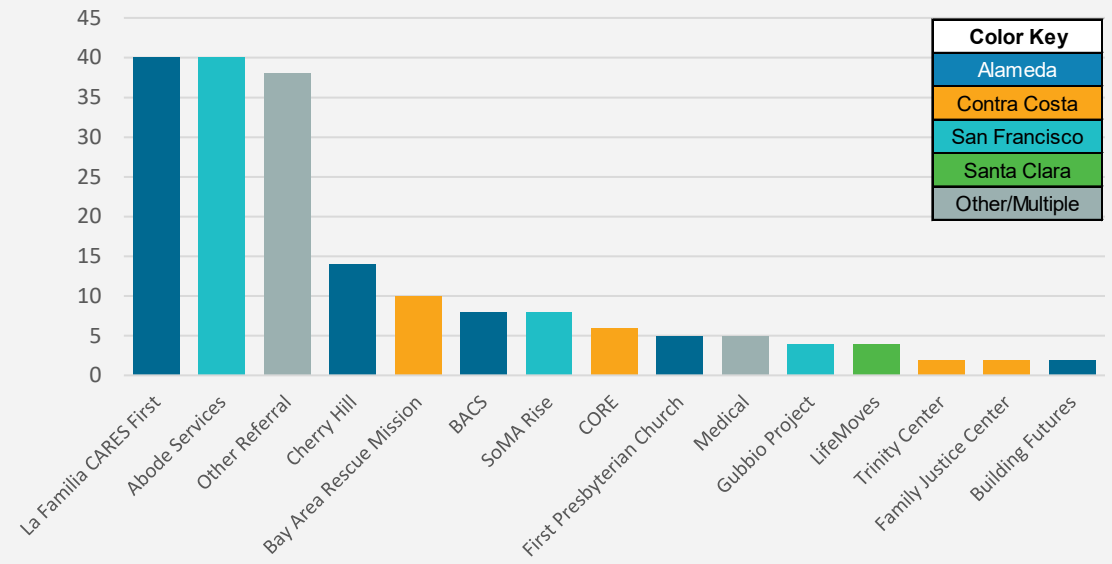
# Progressive Policing Contacts and Outcomes

- 50 Narcan incidents total; 5 of which were administered by CIS

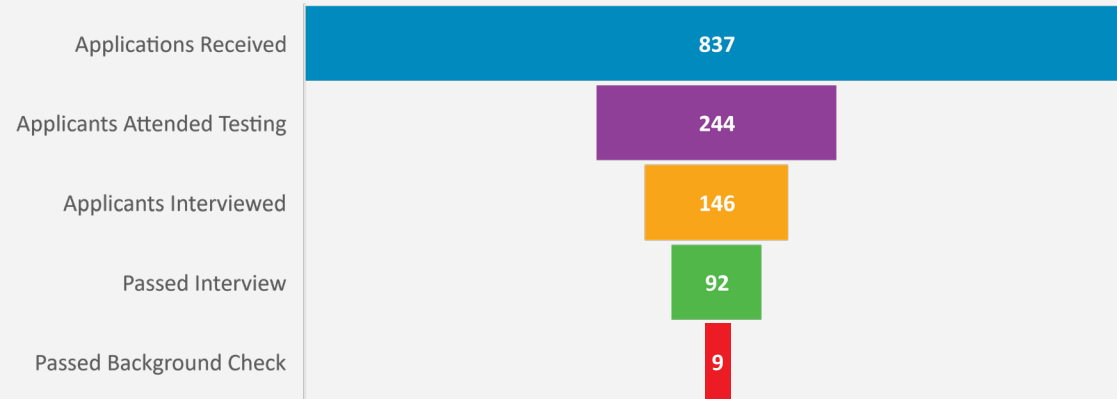
## Summary of Contacts (9,003)



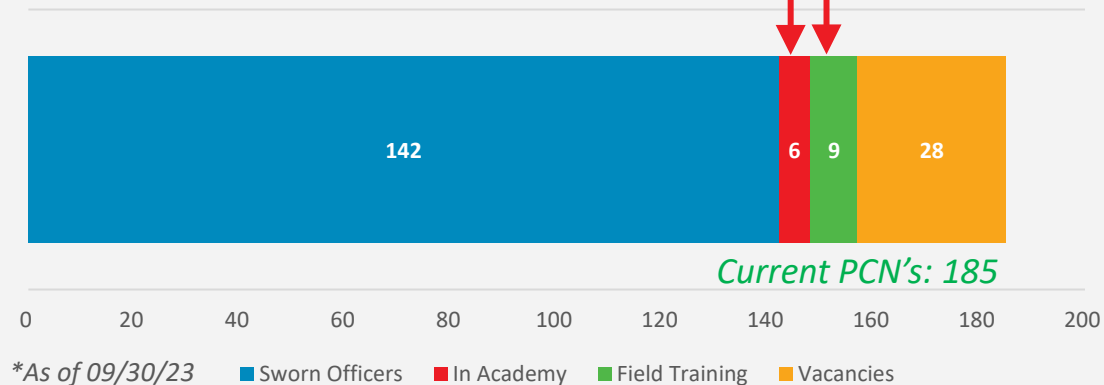
## Connections to Services by Partner (188)



## Police Hiring Pipeline – FY24 Q1



## Police Headcount Tracking



- Recruitment campaign launch from Aug – Oct highlighting 22% salary increase.
- Hosted two recruitment open houses
  - Next one scheduled on November 18<sup>th</sup>
- “Join BART PD” website launched in July
  - 80K views to date
- Increase in number of applicants interviewed
  - FY23 Q4: 57
  - FY24 Q1: 146

Questions?

