

Quarterly Performance Report

2022 4th Quarter Report (Oct., Nov., Dec.)



Quarterly Performance Report

High Quality Service through Continuous Improvement 2022 4th Quarter (Oct., Nov., Dec.) Performance Report TriMet Board Meeting, April 2023

Quality is a never-ending quest and continuous improvement is a never-ending way to discover and eliminate the root causes of problems. It accomplishes this by using sustainable, incremental improvements rather than implementing one large change. It is a way of looking at how we can do our work better.

Key performance indicators are performance measurements that identify the level of progress toward attaining stated objectives and are defined for fixed-route service (Bus, MAX, and WES) as well as for LIFT paratransit service.

APPROACH

Focus on TriMet's three primary areas for improvement:

1. Vehicle and System Reliability

Goal: Reduce service disruptions through effective preventive maintenance and asset management. **Key Performance Indicators:**

Fixed Route - Preventive maintenance schedule compliance, mean distance traveled between mechanical failures, and maintenance employee attendance.

LIFT - Miles between road calls.

2. Service Delivery

Goal: Ensure efficient service delivery by creating staffing levels and reporting structures that increase the ability to respond quickly to service and customer needs. Improve route design and service delivery through ongoing line reviews.

Key Performance Indicators:

Fixed Route - On time performance (OTP), operator attendance, and boarding rides per revenue hour. *LIFT* - On time performance (OTP) and boarding rides per revenue hour.

3. Operator Support

Goal: Improve safety and customer service through customized training programs for operators and supervisors.

Key Performance Indicators:

Fixed Route - Collisions, commendations, complaints, and rail rule violations.

LIFT - Collisions, commendations, complaints, and call center hold times.

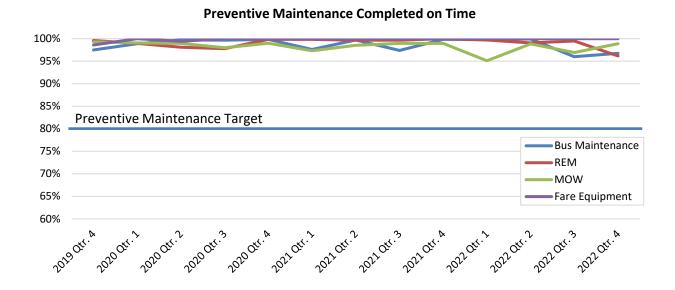


Vehicle and System Reliability

Preventive Maintenance Completed on Time

Preventive maintenance (PM) compliance for all disciplines was 97% or higher, exceeding TriMet's preventive maintenance target of 80%.

				2022 - 2021
	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	Change
Bus Maintenance	96.8%	96.0%	99.8%	-3.1
REM	96.2%	99.5%	100.0%	-3.8
MOW	98.9%	96.9%	99.0%	-0.1
Fare Equipment	100.0%	100.0%	100.0%	0.0



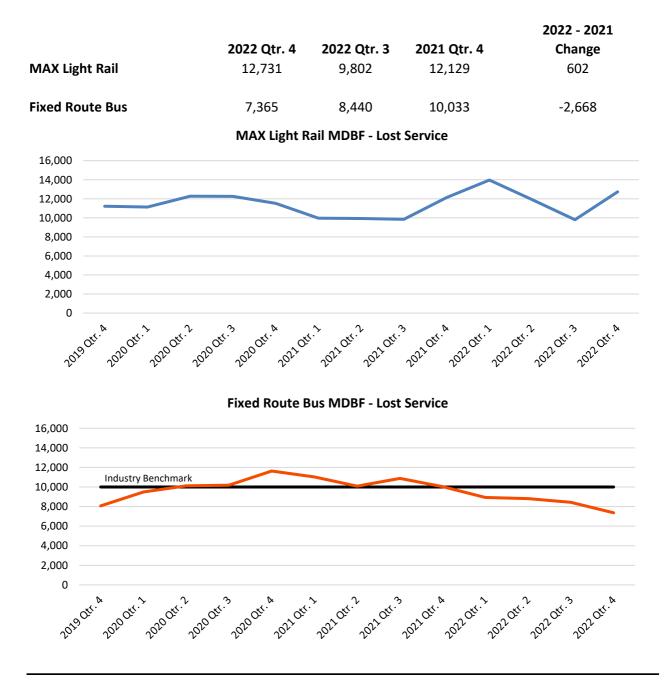


Vehicle and System Reliability

Mean Distance Between Failures (MDBF)

• MAX light rail mean distance between failures (MDBF) at 12,731 miles represents an increase of 602 miles compared to this period last year. Propulsion failures continue to be a common failure followed by door and bridge plate failures. Wet weather in the fall contributed to the increased in bridge plate and door failures during 2022 Q4.

• Fixed route bus MBDF decreased 2,668 miles on the prior year to 7,365. Engine failures account for the largest number of failures. Cooling systems failures had the largest decrease due lessons learned from hot weather in 2021.



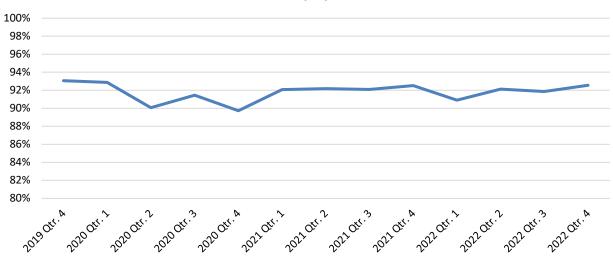


Vehicle and System Reliability

Maintenance Employee Attendance

Maintenance attendance remained the same compared to the preceding year at 92.5%.

				2022 - 2021	
	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	Change	
Maintenance	92.5%	91.9%	92.5%	0.0	



Maintenance Employee Attendance

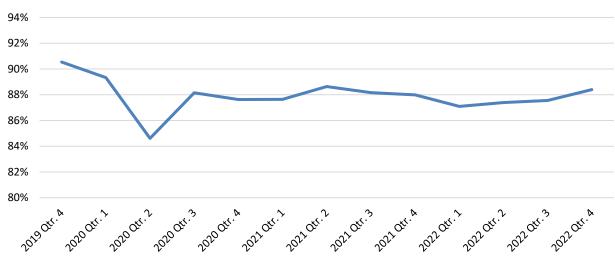


Service Delivery

Transportation Operations Employee Attendance

Transportation employee attendance increased slightly to 88.4%, a change of 0.4 percentage points from the prior year.

				2022 - 2021
	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	Change
Transportation Operations	88.4%	87.6%	88.0%	0.4



Transportation Operations Attendance



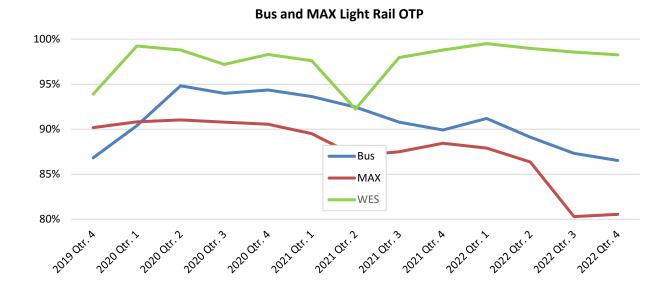
On Time Performance (OTP)

• Bus in-service OTP declined to 86.5% compared to the previous year; this is slightly below the target of 87.0% on time.

• MAX OTP declined to 80.6% this quarter compared to a year ago; this is below the target of 89.0% on time.

• WES OTP decreased to 98.3% this quarter compared to a year ago.

				2022 - 2021
	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	Change
Fixed Route Bus	86.5%	87.3%	89.9%	-3.4
MAX Light Rail	80.6%	80.3%	88.4%	-7.9
WES Commuter Rail	98.3%	98.6%	98.8%	-0.5



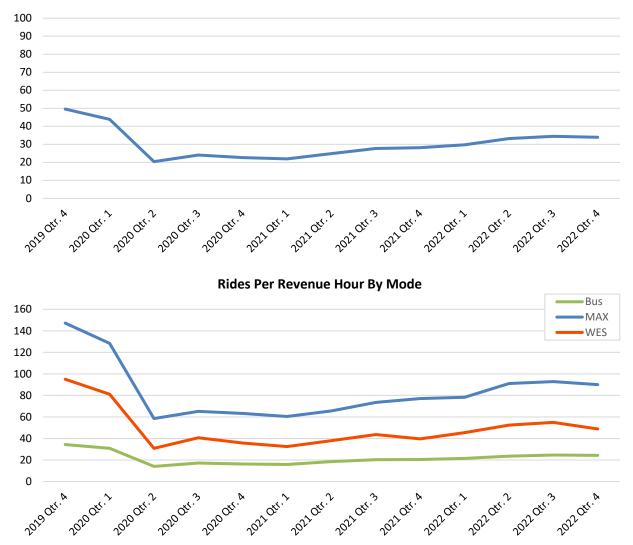


Boarding Rides Per Revenue Hour

Total fixed route boarding rides per revenue hour inceased by 5.8 compared to the same period last year.

- Fixed route bus boardings per revenue hour were up by 3.8 compared to the previous year.
- MAX boardings per revenue hour were up by 12.9 compared to the previous year.
- WES boardings per revenue hour were up by 9.3 compared to the previous year.

				2022 - 2021
	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	Change
Total	33.9	34.5	28.2	5.8
Fixed Route Bus	24.4	24.6	20.6	3.8
MAX Light Rail	90.0	92.9	77.2	12.9
WES Commuter Rail	48.9	54.9	39.6	9.3



Total Fixed Route Rides Per Revenue Hour



Fixed Route Bus Collisions per 100,000 Miles

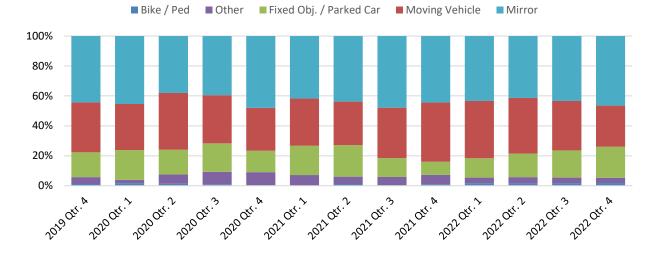
Total bus collisions per 100,000 miles increased by 0.4 compared to last year. Mirror strikes (46%) and collisions with other vehicles (27%) accounted for just over 73% of all collisions.

	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	2022 - 2021 Change
Total	5.0	4.5	4.6	0.4
Moving Vehicle	1.4	1.5	1.8	-0.4
Fixed Object/Parked Car	1.0	0.8	0.4	0.6
Bike/Pedestrian	0.1	0.1	0.0	0.0
Other	0.2	0.2	0.3	-0.1
Mirror	2.3	2.0	2.1	0.3

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Total Bus Collisions per 100,000 Miles

Bus Collision Type by Share of Total

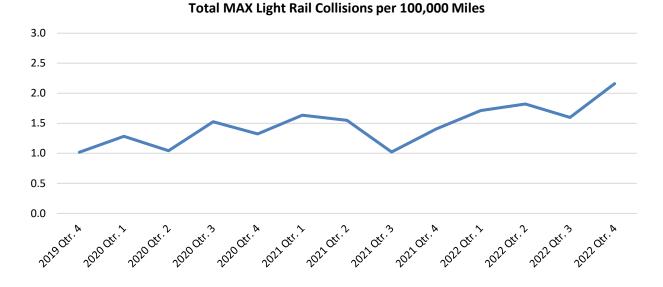




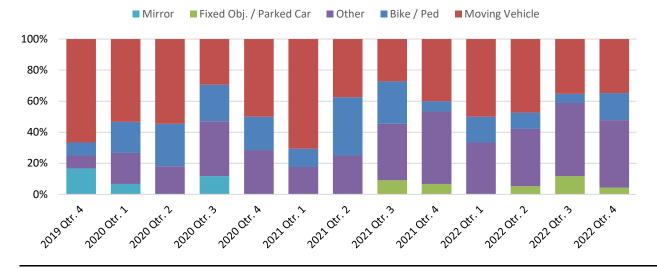
MAX Light Rail Collisions per 100,000 Miles

MAX had an average of 2.2 collisions per 100,000 service miles, an increase of 0.8% from the prior year; the target rate is less than 1.0 per 100,000 service miles. "Other" collisions include those with objects that don't fit the other categories, such as shopping carts.

				2022 - 2021
	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	Change
Total	2.2	1.6	1.4	0.8
Moving Vehicle	0.8	0.6	0.6	0.2
Fixed Object/Parked Car	0.1	0.2	0.1	0.0
Bike/Pedestrian	0.4	0.1	0.1	0.3
Other	0.9	0.8	0.7	0.3
Mirror	0.0	0.0	0.0	0.0



MAX Collision Type by Share of Total



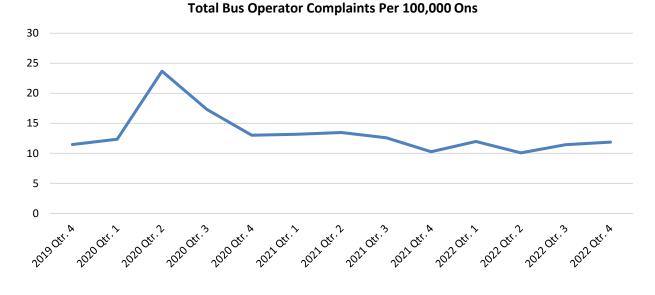
Chief Operating Officer Service Performance & Analysis

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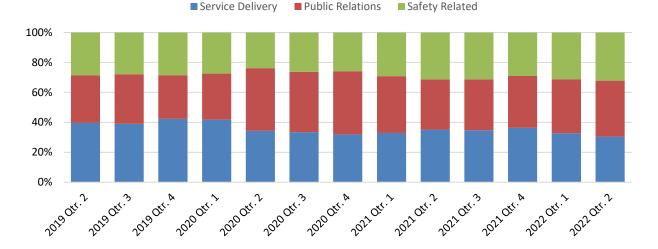
Fixed Route Bus Complaints Per 100,000 Boarding Rides

The number of bus operator complaints per 100,000 boarding rides increased 16% compared to the past year from 10.3 to 11.9 per 100,000 boarding rides. Service Delivery complaints decreased from 3.7 to 3.3; Public Relations complaints increased from 3.6 to 4.7; and, Safety Related complaints increased from 3.0 to 3.9 complaints per 100,000 boarding rides compared to the same quarter a year ago.

				2022 - 2021
	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	Change
Total	11.9	11.4	10.3	1.6
Service Delivery	3.3	3.5	3.7	-0.5
Public Relations	4.7	4.1	3.6	1.1
Safety Related	3.9	3.9	3.0	1.0



Bus Operator Complaint Type by Share of Total



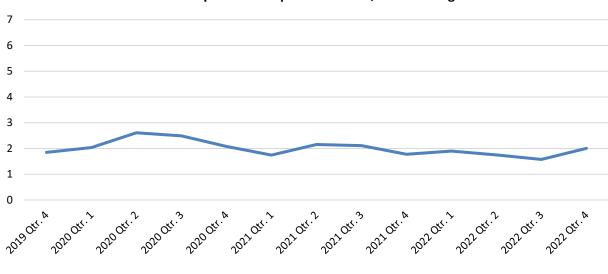
2022 2021

Operator Support

MAX Light Rail Complaints Per 100,000 Boarding Rides

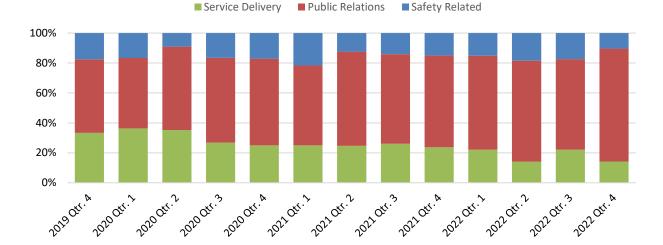
Total MAX operator complaints per 100,000 boarding rides increased 11% 1.8 to 2.0 complaints per 100,000 boarding rides compared to the same period last year. Service Delivery and Safety Related complaints each declined, while Public Relations increased from 1.1 to 1.5 complaints per 100,000 boarding rides. All categories remain relatively small overall.

				2022 - 2021
	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	Change
Total	2.0	1.6	1.8	0.2
Service Delivery	0.3	0.3	0.4	-0.1
Public Relations	1.5	1.0	1.1	0.4
Safety Related	0.2	0.3	0.3	-0.1



Total MAX Operator Complaints Per 100,000 Boarding Rides

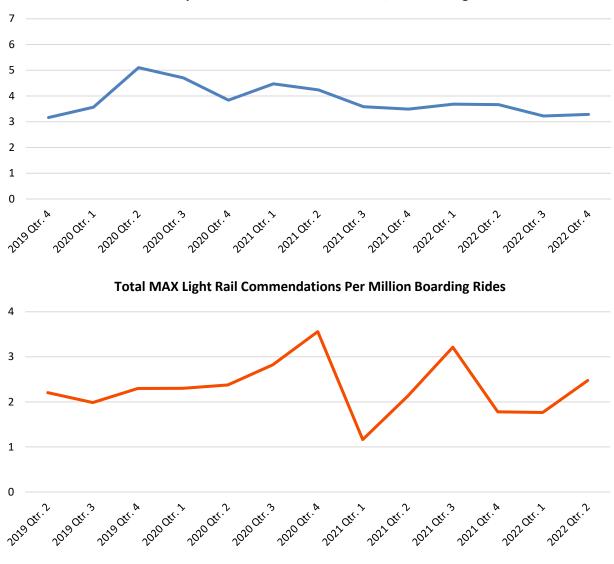
Type of Operator Complaints Per 100,000 Boarding Rides



Fixed Route Bus and MAX Light Rail Commendations

Commendation rates for Fixed Route Bus decreased by 0.2 per 100,000 boarding rides and increased by 1.2 per 100,000 boarding rides for MAX Light Rail.

				2022 - 2021
	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	Change
Fixed Route Bus Per 100,000 Boardings	3.3	3.2	3.5	-0.2
MAX Light Rail Per Million Boardings	3.0	2.4	1.8	1.2



Total Bus Operator Commendations Per 100,000 Boarding Rides

Chief Operating Officer Service Performance & Analysis

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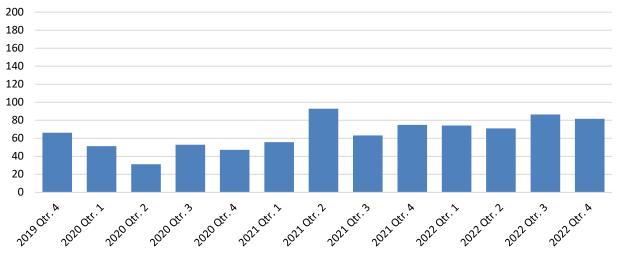
Rail Rule Violations per Million Miles

MAX rule violations per million miles increased by 6.7 per million miles compared to Q3 2021.

The majority of the rail rule violations are for Automatic Train Stop Signal Trips and Other violations.

				2022 - 2021
	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	Change
Rail Rule Violation Rate	81.7	86.4	75.0	6.7







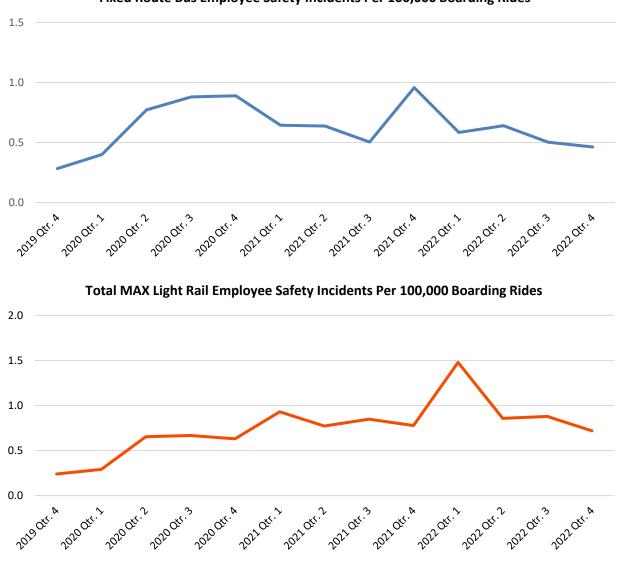
Operator Safety

Fixed Route Bus and MAX Light Rail Employee Safety Incidents

Employee Safety Incidents for Fixed Route Bus decreased by 0.5 per 100,000 boarding rides and decreased by 0.1 per 100,000 boarding rides for MAX Light Rail.

				2022 - 2021
	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	Change
Fixed Route Bus	0.5	3.2	1.0	-0.5
MAX Light Rail	0.7	0.9	0.8	-0.1

Per 100,000 Boardings

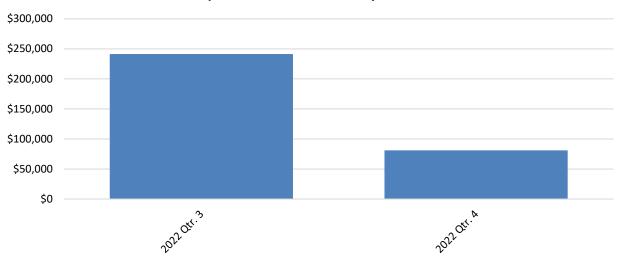


Fixed Route Bus Employee Safety Incidents Per 100,000 Boarding Rides

Operator Lost Time Claims

The amount spent on lost time claims decreased \$160,260 between 2022 Q3 and Q4.

					Q3-Q4
	202	22 Qtr. 4	20	22 Qtr. 3	Change
Total	\$	81,030	\$	241,290	-\$160,260



Operator Lost Time Claims by Quarter

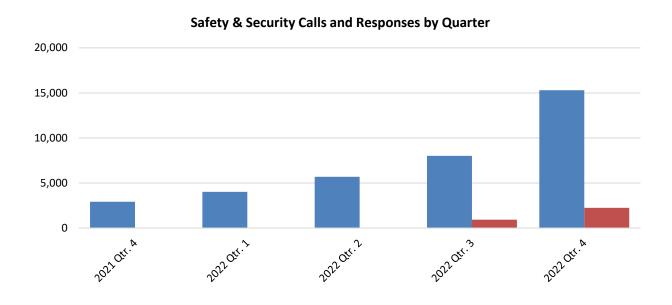


Safety and Security

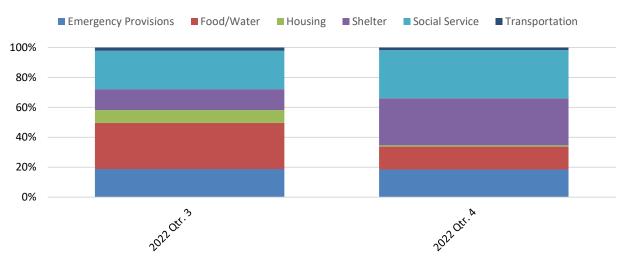
Systemwide Safety Response Team Activity

The number of calls received by Safety Response Team increased in 2022 Q4 compared to 2022 Q3. In Q3 of 2022, the Safety Response Team program began to refer to services based on request type.

				2022 - 2021
	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	Change
Total requests	15,290	8,010	2,920	12,370
Total referrals	2,250	920	0	



Type of Safety Response by Quarter

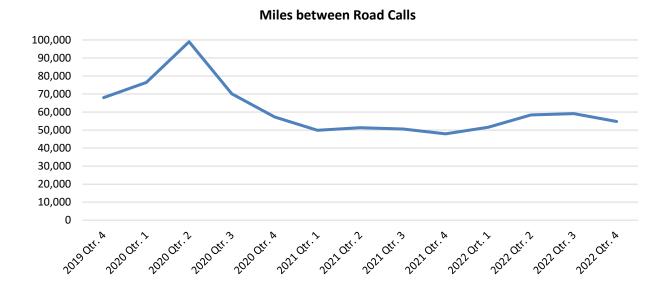


LIFT - Vehicle and System Reliability

Miles between Road Calls

LIFT miles between road calls increased by 6,831 miles from the previous year to 54,737. This increase can be attributed to the elimination of COVID-19 capacity restrictions, which previously required LIFT to use larger but older vehicles in order to maintain a safe distance between passengers and operators. With this requirement no longer in place, LIFT is able to use our newer Ford Transit Vans in service more frequently, which is leading to fewer mechanical problems. LIFT will begin replacing their oldest vans starting FY24.

				2022 - 2021
	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	Change
LIFT	54,737	59,136	47,906	6,831



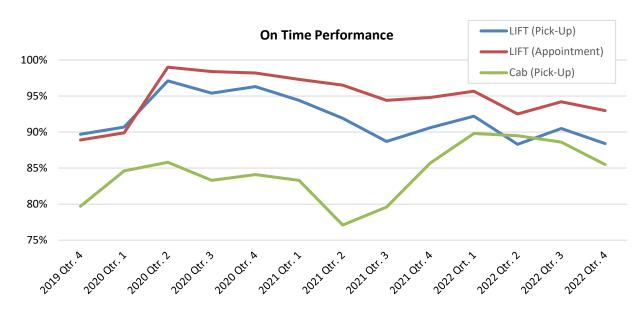


LIFT - Service Delivery

On Time Performance

LIFT OTP decreased from prior year for trips where riders elected to designate a pick-up window and for trips where riders specified an arrival time for appointments at 88.4% and 93.0% respectively. Taxicab pick-up OTP also decreased to 85.5%. LIFT has been working with Broadway Cab to return trips to TriMet that they cannot provide service for in a timely manner. This has led to Broadway Cab prioritizing TriMet trips to maximize revenue.

				2022 - 2021
	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	Change
LIFT (Pick-Up)	88.4%	90.5%	90.6%	-2.2
LIFT (Appointment)	93.0%	94.2%	94.8%	-1.8
Cab (Pick-Up)	85.5%	88.6%	85.7%	-0.2



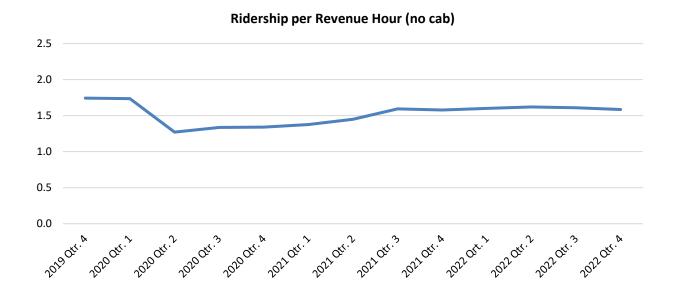


LIFT - Service Delivery

Ridership per Revenue Hour (no cab)

LIFT ridership per revenue hour (excluding riders served by cabs) remained the same compared to a year ago at 1.6 rides per revenue hour. Decline in demand due to COVID-19 pandemic has been balanced with levels of service.

				2022 - 2021
	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	Change
LIFT	1.6	1.6	1.6	0.0

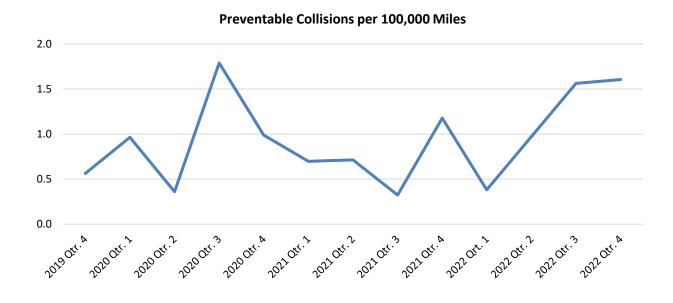




Preventable Collisions per 100,000 Miles

LIFT preventable collisions increased by 0.4 per 100,000 miles from the prior year.

				2022 - 2021
	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	Change
LIFT	1.6	1.6	1.2	0.4

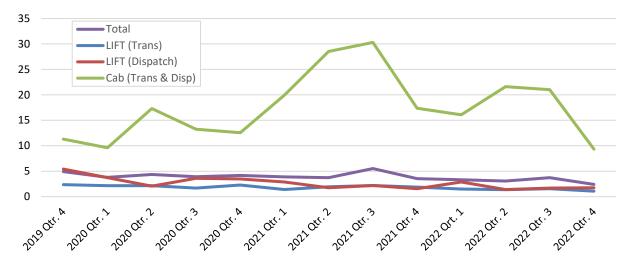




Total Complaints per 1,000 Rides

Total LIFT complaints per 1,000 rides decreased to 2.4 from 3.6 the prior year. The complaint rates decreased for Dispatch, Cab, and Transportation.

				2022 - 2021
	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	Change
Total	2.4	3.7	3.6	-1.2
LIFT (Trans)	1.1	1.6	1.9	-0.8
LIFT (Dispatch)	1.7	1.7	1.6	0.2
Cab (Trans & Disp)	9.3	21.0	17.4	-8.0



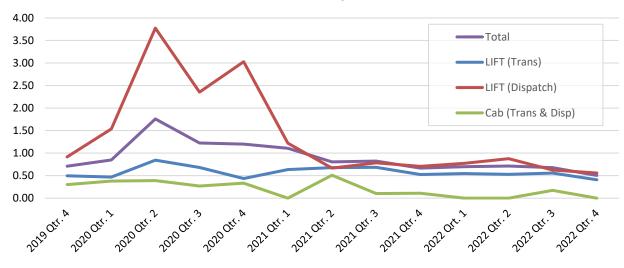
Total Complaints per 1,000 Rides



Total Commendations per 1,000 Rides

Total LIFT commendations per 1,000 rides decreased to 0.5 compared to 0.7 last year.

				2022 - 2021
	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	Change
Total	0.5	0.7	0.7	-0.2
LIFT (Trans)	0.4	0.6	0.5	-0.1
LIFT (Dispatch)	0.6	0.6	0.7	-0.1
Cab (Trans & Disp)	0.0	0.2	0.1	-0.1



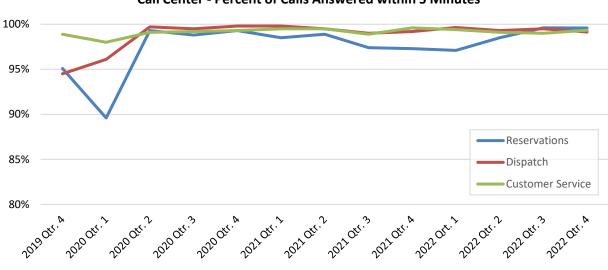
Total Commendations per 1,000 Rides



Call Center - Percent of Calls Answered within 5 Minutes

The percentage of Call Center calls that were answered within five minutes remains high, above 99% for Reservations, Dispatch, and Customer Service.

				2022 - 2021
	2022 Qtr. 4	2022 Qtr. 3	2021 Qtr. 4	Change
Reservations	99.6%	99.6%	97.3%	2.3
Dispatch	99.1%	99.5%	99.2%	-0.1
Customer Service	99.3%	99.0%	99.6%	-0.3



Call Center - Percent of Calls Answered within 5 Minutes

