Los Angeles County Metropolitan Transportation Authority California

# OPERATIONS MONTHLY RAIL PERFORMANCE REPORT

EPTEMBER 2019



# METRO RAIL PERFORMANCE – SEPTEMBER 2019

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#### **Metro Rail Scorecard Overview**

Metro operates heavy rail, the Red and Purple Lines, from Union Station to North Hollywood and Union Station to Wilshire/Western. Data for Red and Purple lines are reported under Metro Red line in this report. Metro also operates four light rail lines: Blue Line from Downtown to Long Beach, Green Line along the 105 freeway, Gold Line from Azusa to East Los Angeles,

and Expo Line from Los Angeles to Santa Monica.

Metro Rail is responsible for the operation of approximately 104 heavy rail cars and 203 light rail cars carrying nearly 110 million passengers each year. Also included in this report are Key Performance Indicators for Wayside, which is in the process of being developed.

Measurement	FY 2017	FY 2018	FY 2019	FY 2020 Target	FY 2020 YTD	FYTD Status	Jul Month	Aug Month	Sep Month
Systemwide	-								
On-Time Pullouts	99.61%	99.68%	99.72%	99.80%	99.69%	$\bigcirc$	99.56%	99.72%	99.79%
Mean Miles Between Chargeable Mechanical Failures	29,711	31,146	39,034	44,540	39,859	0	36,692	39,287	44,583
In-Service On-time Performance	98.24%	98.48%	98.81%	99.10%	98.90%	$\bigcirc$	98.91%	98.77%	99.02%
Service Delivery Ratio	99.23%	99.22%	99.56%	99.70%	99.72%		99.82%	99.60%	99.73%
Traffic Accidents Per 100,000 Train Miles	1.01	0.96	0.68	0.85	0.64		0.63	0.94	0.33
CPUC Reportable Accidents per 100,000 Train Miles	0.36	0.54	0.29	0.37	0.32		0.31	0.47	0.16
Passenger Accidents per 100,000 Boardings	0.023	0.022	0.014	0.010	0.009		0.027	0.000	0.000
Complaints per 100,000 Boardings	1.98	1.81	1.83	1.10	1.59		1.63	1.32	1.84
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours <sup>1, 2</sup>	12.27	11.17	11.43	10.05	11.59		4.72	18.43	11.47
Lost Work Days per 200,000 Exposure Hours <sup>1, 2</sup>	733	886	800	821.44	836		833	839	-
OSHA Injuries per 200,000 Exposure Hours <sup>1, 2</sup>	8.53	7.61	7.23	6.43	7.46		4.72	10.14	-
Wayside Maintenance & Engineering									
Past-Due Preventive Maintenance - Aging of Outstanding Work Orders	1	3	55	N/A	209	N/A	31	34	144
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	5.35	5.02	5.31	5.40	15.63		3.55	16.99	10.75
Lost Work Days per 200,000 Exposure Hours <sup>1</sup>	194	312	218	296	108		114	102	0
OSHA Injuries per 200,000 Exposure Hours <sup>1</sup>	4.01	4.01	3.84	4.13	6.95		3.55	10.19	0
Blue Line		-							
On-Time Pullouts	99.60%	99.39%	99.46%	99.50%	99.46%		98.92%	100.00%	99.44%
Mean Miles Between Chargeable Mechanical Failures <sup>3</sup>	15,405	13,772	22,391	22,391	83,825		177,184	173,761	30,401
In-Service On-time Performance	96.44%	97.11%	98.13%	98.80%	99.65%		99.72%	99.35%	99.88%
Service Delivery Ratio	98.54%	98.42%	99.31%	99.40%	99.74%		99.80%	99.52%	99.92%
Traffic Accidents Per 100,000 Train Miles	2.18	1.63	1.05	1.84	1.69		3.32	1.67	0.00
CPUC Reportable Accidents per 100,000 Train Miles	0.71	1.03	0.38	0.40	1.13		1.66	1.67	0.00
Passenger Accidents per 100,000 Boardings	0.046	0.033	0.013	0.010	0.000		0.000	0.000	0.000
Complaints per 100,000 Boardings	1.67	2.22	1.73	1.40	2.68		3.01	1.17	3.89
New Workers' Compensation Indemnity Claims per	16.74	13.95	14.22	11.90	14.41		18.42	18.42	6.24
Lost Work Days per 200,000 Exposure Hours <sup>1</sup>	836	1,016	695	953	1,113		751	1,476	-
OSHA Injuries per 200,000 Exposure Hours <sup>1</sup>	10.40	8.10	5.96	5.93	9.21		6.14	12.28	-

<sup>1</sup> There is a One Month lag in reporting this data

<sup>2</sup> Includes Operations, RFS and Wayside

<sup>3</sup> MMBMF for each line is based on Actual Vehicle Revenue Miles since hub miles are not available by the line operated.

Vehicles from Division 11 may operate on the Expo or Blue Line.

• Green - High probability of achieving the target (on track). Meets Target at 100% or better.

O Yellow - Uncertain if the target will be achieved -- slight problems, delays or management issues. Falls below Target 70 - 99%.

Red - High probability that the target will not be achieved -- significant problems and/or delays. Falls below Target >70%.

N/A = Not Available

						EVED	ll	A	0
Measurement	FY 2017	FY 2018	FY 2019	FY 2020 Target	FY 2020 YTD	FYTD Status	Jul Month	Aug Month	Sep Month
Red Line			00			Claide			
On-Time Pullouts	99.95%	99.88%	99.85%	100.00%	99.87%		99.61%	100.00%	100.00%
Mean Miles Between Chargeable Mechanical Failures	104,637	68,407	58,255	94,165	51,630		41,176	50,065	72,273
In-Service On-time Performance	99.39%	99.33%	99.41%	99.70%	99.52%	0	99.46%	99.47%	99.64%
Service Delivery Ratio	99.72%	99.65%	99.73%	100.00%	99.77%	0	99.72%	99.79%	99.79%
Traffic Accidents Per 100,000 Train Miles	0.57	0.64	0.57	0.57	0.28		0.00	0.00	0.86
CPUC Reportable Accidents per 100,000 Train Miles	0.14	0.21	0.28	0.21	0.00		0.00	0.00	0.00
Passenger Accidents per 100,000 Boardings	0.004	0.000	0.002	0.000	0.010		0.029	0.000	0.000
Complaints per 100,000 Boardings	1.19	1.16	1.35	0.55	0.69		0.66	0.70	0.73
New Workers' Compensation Indemnity Claims per	12.68	11.80	14.74	10.80	5.79		5.70	5.65	6.05
*Lost Work Days per 200,000 Exposure Hours	992	827	755	809	700		706	694	-
*OSHA Injuries per 200,000 Exposure Hours	7.52	4.99	9.67	3.89	2.84		5.70	0.00	-
Green Line									
On-Time Pullouts	99.69%	99.59%	99.85%	99.70%	99.61%		99.08%	99.76%	100.00%
Mean Miles Between Chargeable Mechanical Failures	16,375	21,614	22,144	22,651	21,396	0	24,773	20,446	19,532
In-Service On-time Performance	98.69%	98.72%	98.76%	99.00%	98.45%		98.01%	98.80%	98.54%
Service Delivery Ratio	99.61%	99.38%	99.70%	100.00%	99.81%		99.86%	99.75%	99.80%
Traffic Accidents Per 100,000 Train Miles	0.48	0.34	0.25	0.35	0.26		0.00	0.78	0.00
CPUC Reportable Accidents per 100,000 Train Miles	0.07	0.00	0.06	0.40	0.00		0.00	0.00	0.00
Passenger Accidents per 100,000 Boardings	0.048	0.010	0.021	0.010	0.000		0.000	0.000	0.000
Complaints per 100,000 Boardings	2.08	1.69	2.08	1.20	2.44		2.64	2.68	1.98
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	9.14	12.87	6.82	11.52	14.97	0	0.00	26.43	17.99
*Lost Work Days per 200,000 Exposure Hours	712	984	1,321	930	1,009		1,106	916	-
*OSHA Injuries per 200,000 Exposure Hours	6.65	9.84	5.31	8.70	8.97		0.00	17.62	-
Gold Line									
On-Time Pullouts	99.82%	99.84%	99.58%	100.00%	99.68%		99.87%	99.46%	99.70%
Mean Miles Between Chargeable Mechanical Failures	38,427	43,588	40,584	49,281	37,284	0	24,637	38,533	74,537
In-Service On-time Performance	97.61%	98.19%	98.50%	98.80%	97.15%	$\bigcirc$	97.40%	96.78%	97.27%
Service Delivery Ratio	98.88%	99.07%	99.39%	99.50%	99.51%		99.84%	99.22%	99.47%
Traffic Accidents Per 100,000 Train Miles	0.61	0.55	0.55	0.51	0.62	0	0.91	0.91	0.00
CPUC Reportable Accidents per 100,000 Train Miles	0.25	0.26	0.25	0.40	0.31		0.46	0.46	0.00
Passenger Accidents per 100,000 Boardings	0.030	0.086	0.044	0.010	0.028		0.082	0.000	0.000
Complaints per 100,000 Boardings	2.77	2.65	2.71	1.80	2.86		3.26	2.01	3.34
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	14.31	14.24	14.15	11.67	15.59		0.00	25.75	21.07
*Lost Work Days per 200,000 Exposure Hours	1,055	1,146	1,391	993	1,738		1,899	1,578	-
*OSHA Injuries per 200,000 Exposure Hours	9.69	11.87	10.61	8.94	10.32		5.17	15.45	-
Expo Line									
On-Time Pullouts	98.76%	99.71%	99.87%	99.70%	99.69%		99.68%	99.69%	99.69%
Mean Miles Between Chargeable Mechanical Failures	33,402	57,013	93,728	93,278	43,243	•	81,986	32,641	37,125
In-Service On-time Performance	98.48%	98.72%	98.93%	98.90%	99.30%		99.52%	99.02%	99.34%
Service Delivery Ratio	99.46%	99.54%	99.67%	99.80%	99.83%		99.92%	99.76%	99.82%
Traffic Accidents Per 100,000 Train Miles	1.26	1.78	1.19	1.26	0.91		0.00	1.79	0.95
CPUC Reportable Accidents per 100,000 Train Miles	0.63	1.30	0.56	0.40	0.61	•	0.00	0.89	0.95
Passenger Accidents per 100,000 Boardings	0.018	0.010	0.010	0.010	0.000		0.000	0.000	0.000
Complaints per 100,000 Boardings	3.68	2.20	2.11	1.40	1.97	Ó	1.72	1.51	2.74
New Workers' Compensation Indemnity Claims per	19.26	12.57	16.21	11.84	9.61	Ó	0.00	20.93	7.37
*Lost Work Days per 200,000 Exposure Hours	887	1,470	980	1,343	796		845	749	-
*OSHA Injuries per 200,000 Exposure Hours	16.60		9.73	9.92	7.13		7.28	6.98	-

\* There is One Month lag in reporting this data

 $^3$  MMBMF for each line is based on Actual Vehicle Revenue Miles since hub miles are not available by the line operated.

Vehicles from Division 11 may operate on the Expo or Blue Line.

 $\blacksquare$  Green - High probability of achieving the target (on track). Meets Target at 100% or better.

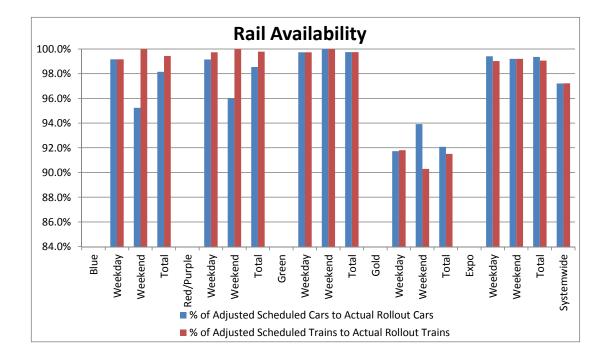
O Yellow - Uncertain if the target will be achieved -- slight problems, delays or management issues. Falls below Target 70 - 99%.

Red - High probability that the target will not be achieved -- significant problems and/or delays. Falls below Target >70%.

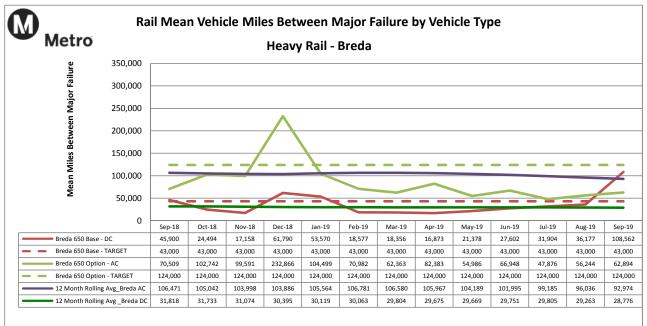
N/A = Not Available

# Vehicle Availability Sep 2019

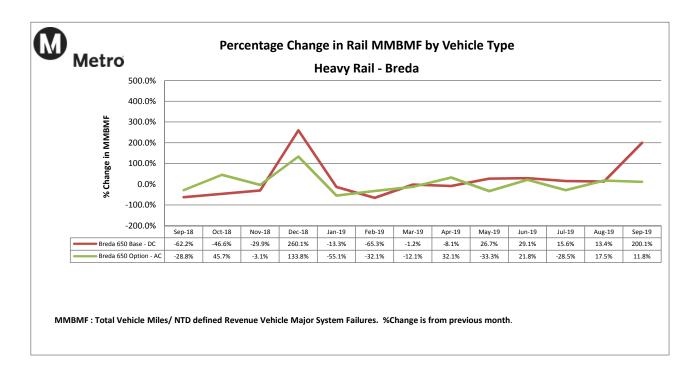
	% of Adjusted Scheduled Cars	% of Adjusted
	to Actual Rollout	-
Day Type	Cars	<b>Actual Rollout Trains</b>
Blue		
Weekday	99.17%	99.17%
Weekend	95.24%	100.00%
Total	98.15%	99.44%
Red/Purple		
Weekday	99.15%	99.74%
Weekend	96.02%	100.00%
Total	98.55%	99.79%
Green		
Weekday	99.74%	99.74%
Weekend	100.00%	100.00%
Total	99.75%	99.75%
Gold		
Weekday	91.74%	91.81%
Weekend	93.92%	90.30%
Total	92.08%	91.51%
Ехро		
Weekday	99.41%	99.02%
Weekend	99.21%	99.21%
Total	99.36%	99.06%
Systemwide	97.21%	97.22%

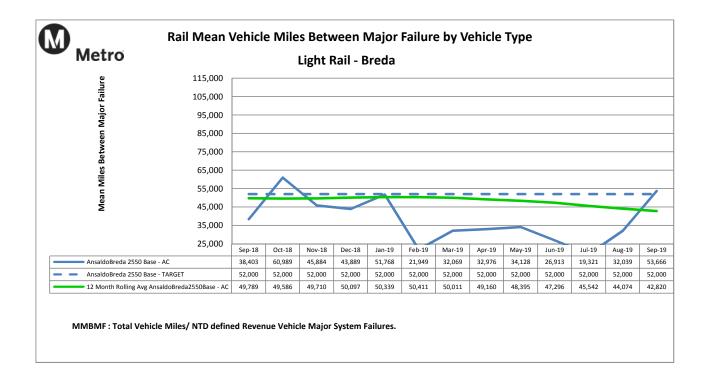


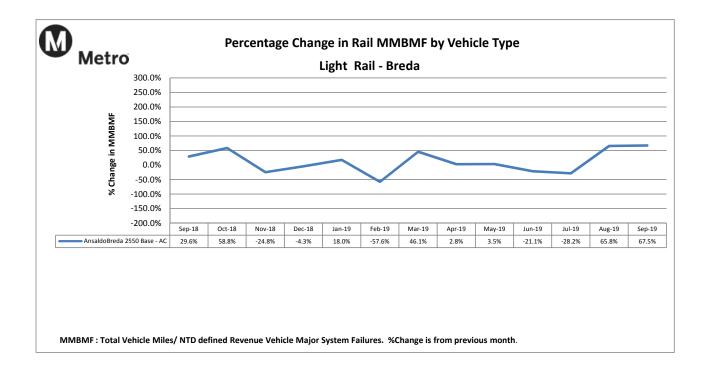
# **METRO RAIL PERFORMANCE – SEPTEMBER 2019**

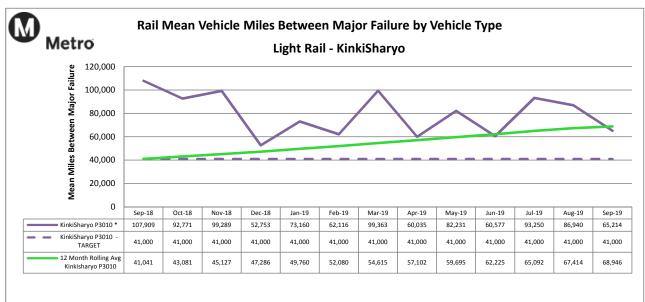


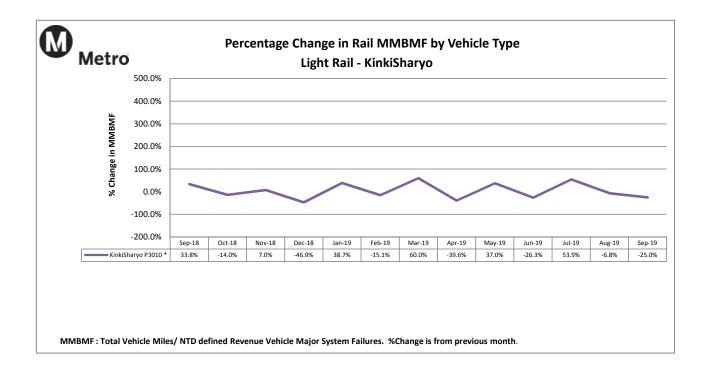
## Rail Performance by Vehicle Type

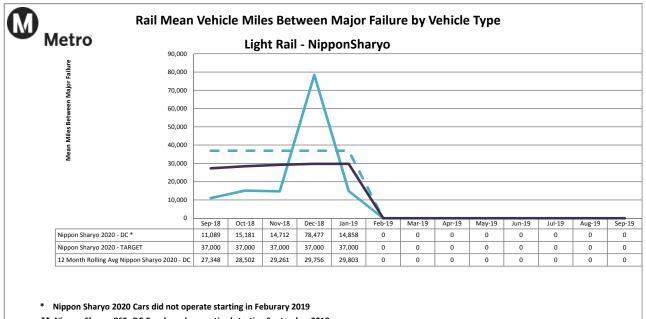




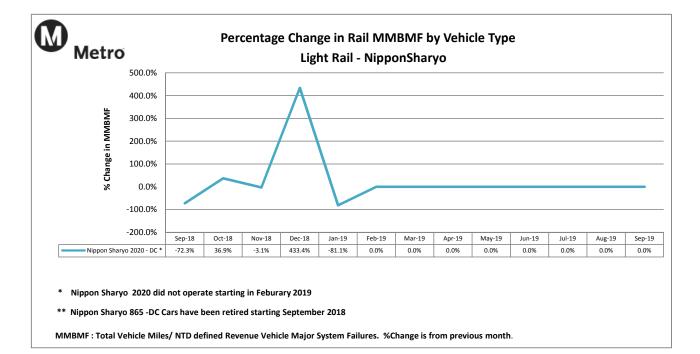


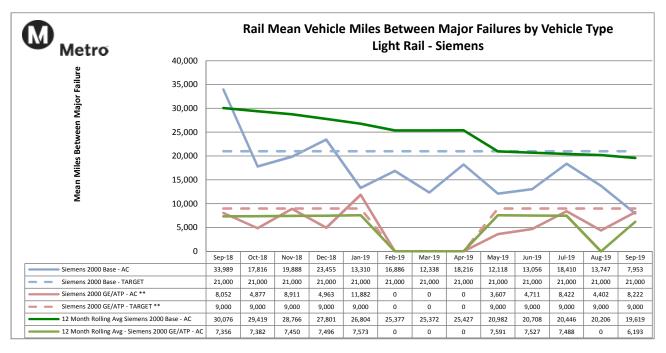




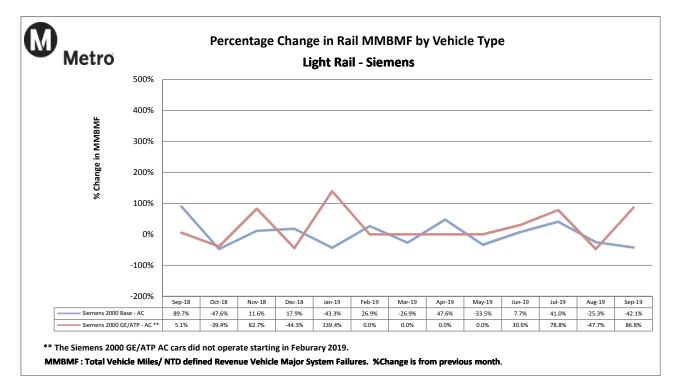


\*\* Nippon Sharyo 865 -DC Cars have been retired starting September 2018





\*\* The Siemens 2000 GE/ATP AC cars did not operate starting in Feburary 2019 and resumed in May 2019.



Mean Miles Beween	Major Failures
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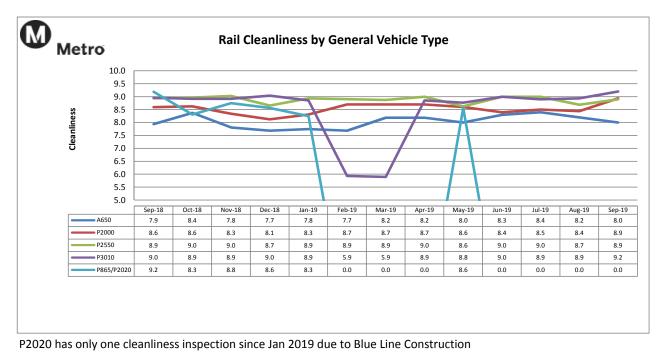
	FY 2019	FY2020	FY2020
		Goal	YTD
AnsaldoBreda2550Base - AC	37,825	52,000	29,284
Breda 650 Base - DC	27,616	43,000	49,244
Breda 650 Option - AC	85,062	124,000	55,115
Kinkisharyo P3010	70,566	41,000	80,419
Nippon Sharyo 2020 - DC	21,405	37,000	0
Nippon Sharyo 865 - DC			0**
Siemens 2000 Base - AC	17,841	21,000	12,803
Siemens 2000 GE/ATP - AC	6,920	9,000	6,193

\*\* retired in September 2018

# Rail Fleet Distribution – September 2019

Number of Rail Vehicle Type by		Red /				
Division	Blue	Purple	Green	Gold	Ехро	Total
AnsaldoBreda 2550 Base - AC				50		50
Breda 650 Base - DC		28				28
Breda 650 Option - AC		68				68
KinkiSharyo P3010	54		25	47	56	182
Nippon Sharyo 2020 - DC	15					15
0						0
Siemens 2000 Base - AC	7				15	22
Siemens 2000 GE/ATP - AC			16			16
TOTALS	76	96	41	97	71	381

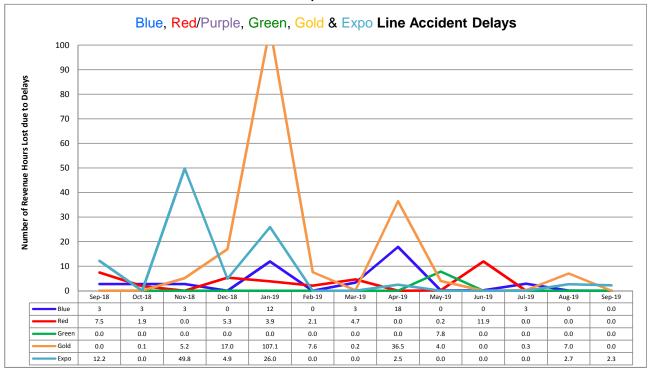
# Cleanliness by Vehicle Type Sep 2019



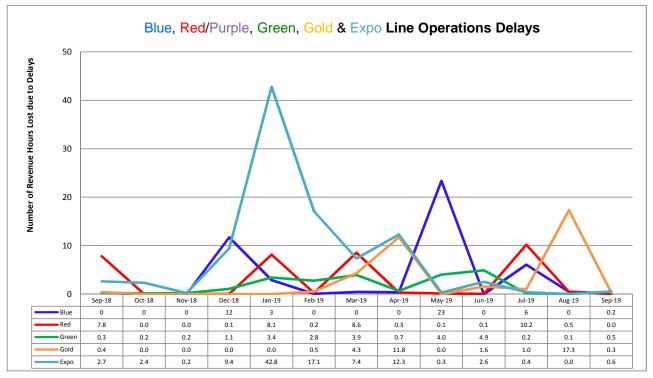
# **RAIL DELAYS BY CATEGORY - SYSTEMWIDE**

**Revenue Hours Lost Related to - ACCIDENTS** 

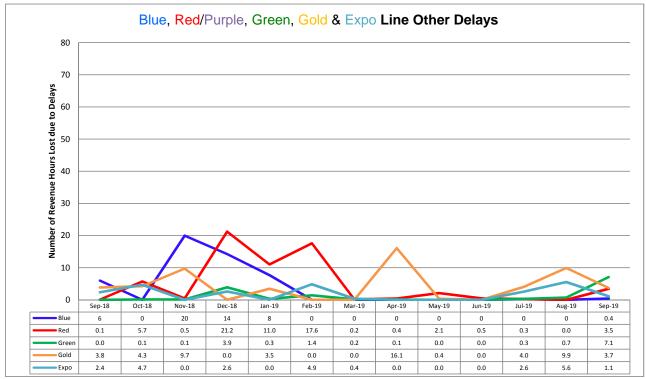
Sep 2019



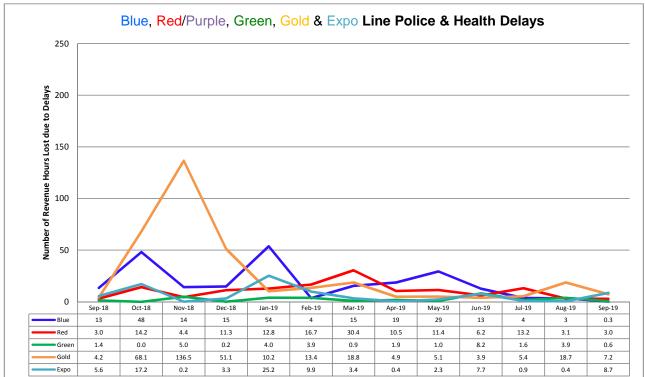
**Revenue Hours Lost Related to - OPERATIONS** 

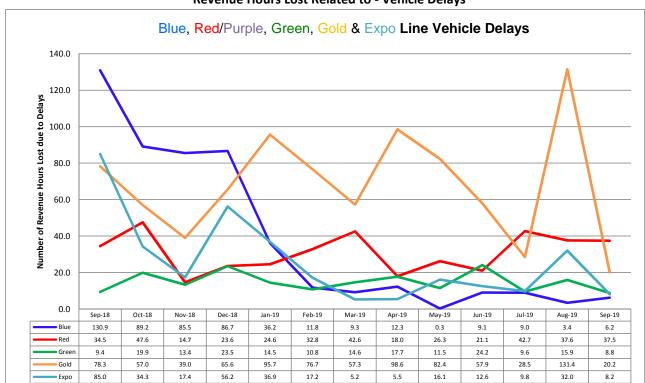






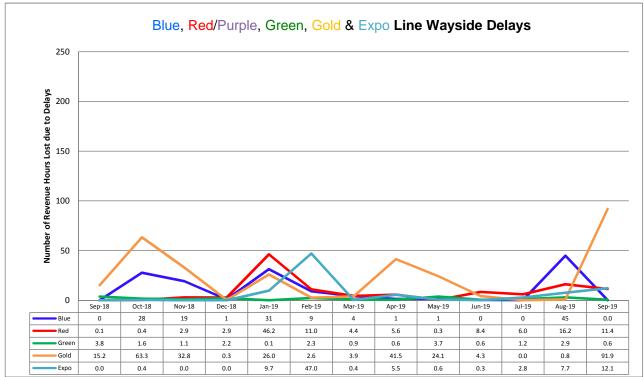






#### **Revenue Hours Lost Related to - Vehicle Delays**

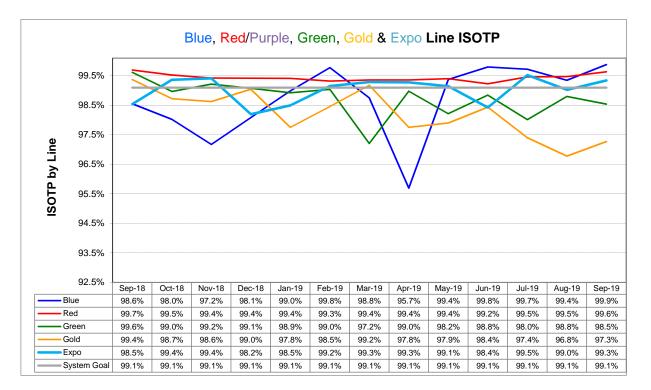
#### **Revenue Hours Lost Related to - WAYSIDE**



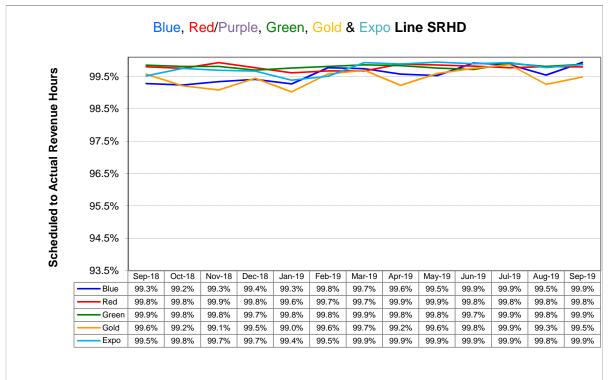
**Rail Service Performance** 

In Service On Time Performance by Line

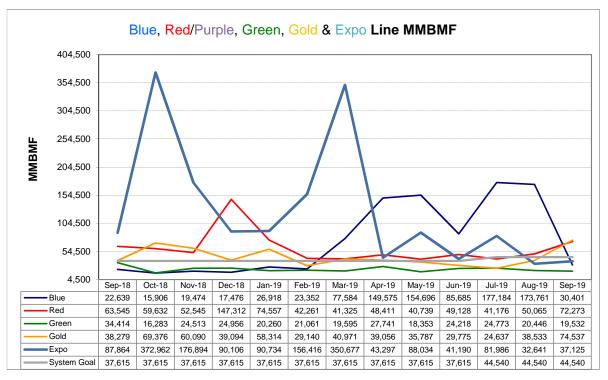
Sep 2019

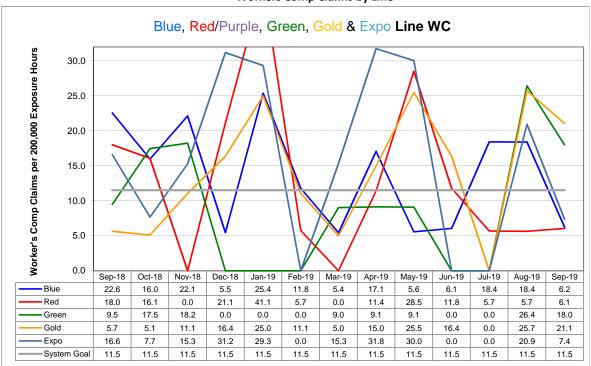


Ratio of Scheduled to Revenue Hours Delivered by Line



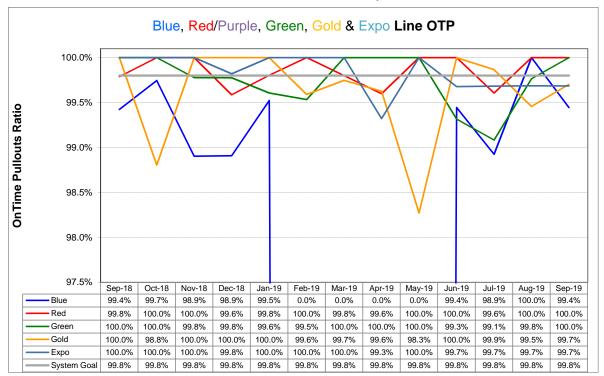






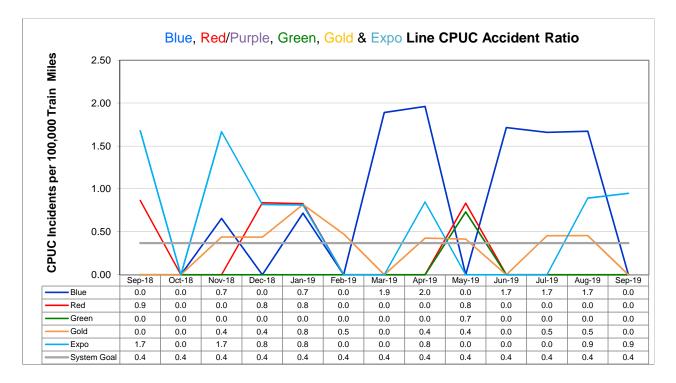
#### Workers Comp Claims by Line

On-Time Pullouts Ratio by Line

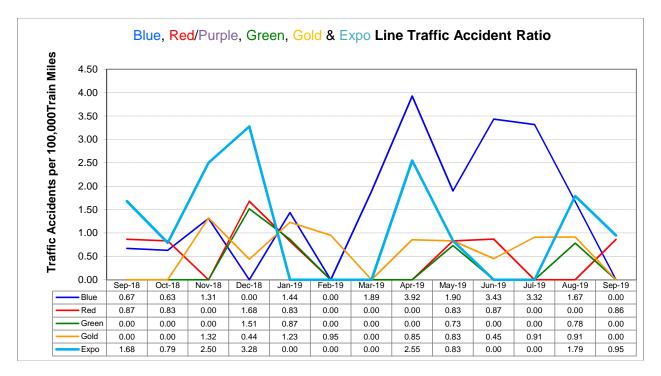


Due to Blue Line Construction, Blue pulled out of EXPO for Feb, Mar, Apr and May 2019.

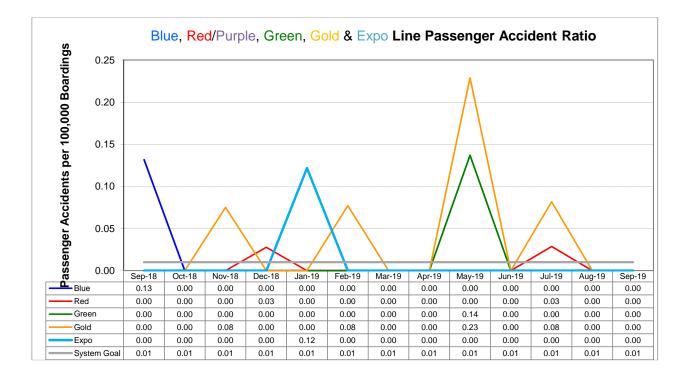
Rail Safety Performance CPUC REPORTABLE INCIDENTS PER 100,000 TRAIN MILES Sep 2019

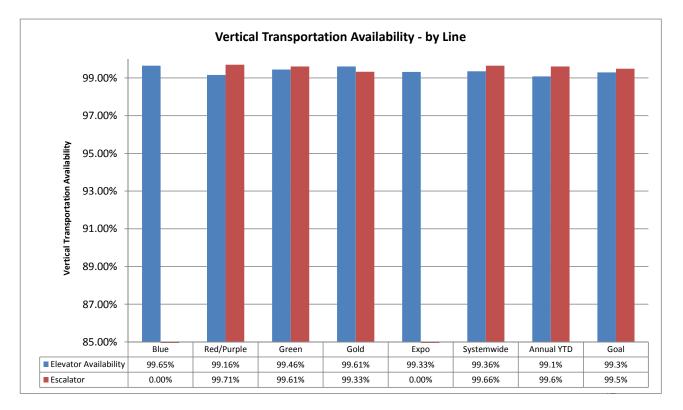


#### **TRAFFIC ACCIDENTS PER 100,000 TRAIN MILES**



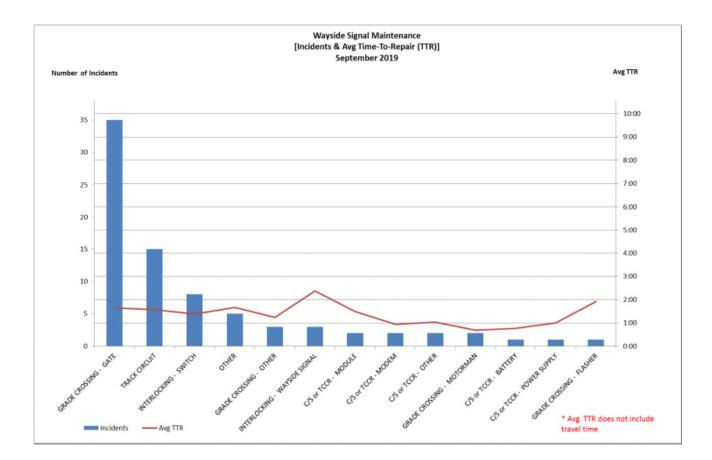
#### **PASSENGER ACCIDENTS PER 100,000 BOARDINGS**



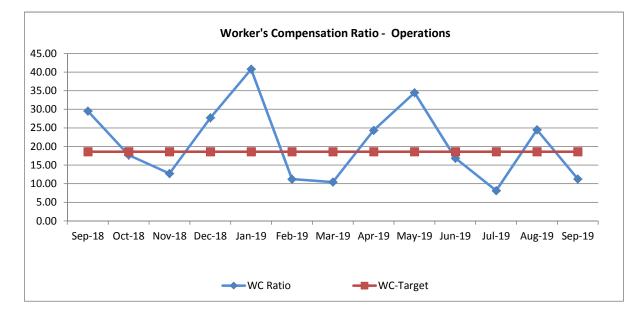


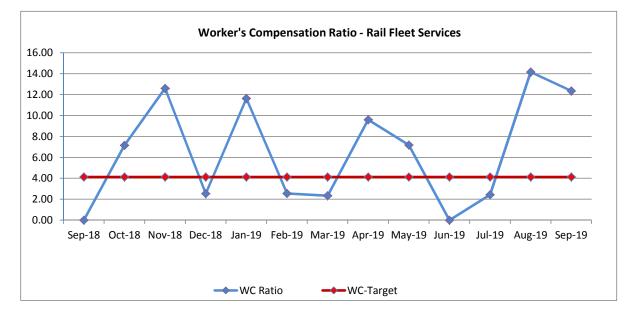
# Systemwide Vertical Transportation Availability by Line Sep 2019

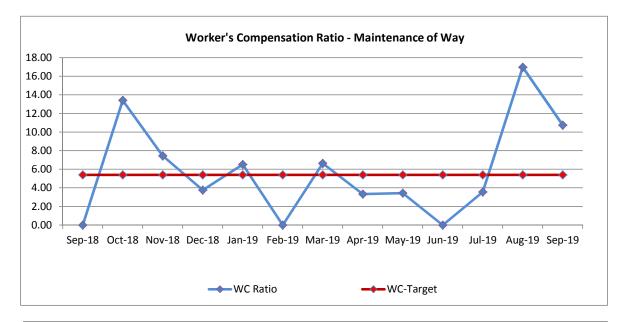
Note: No Escalators at Blue and Expo Lines

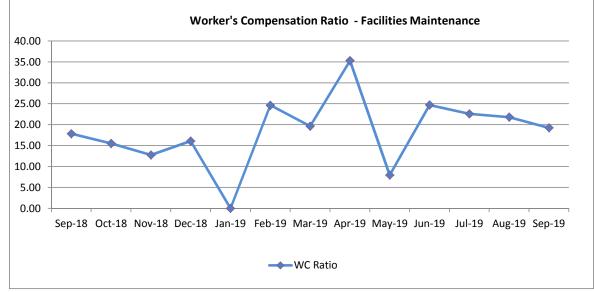


# Administrative Key Performance Indicators Worker's Compensation, Lost Work Days, OSHA Sep 2019

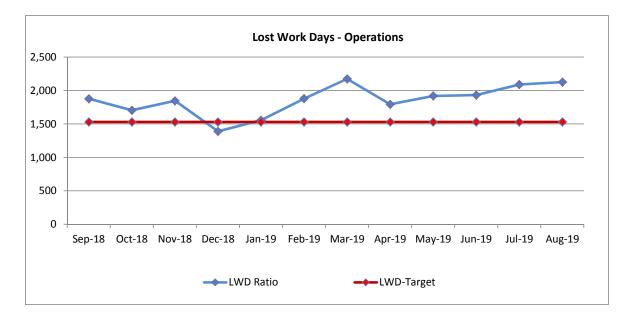


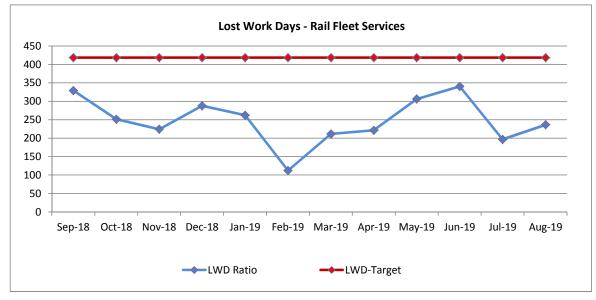




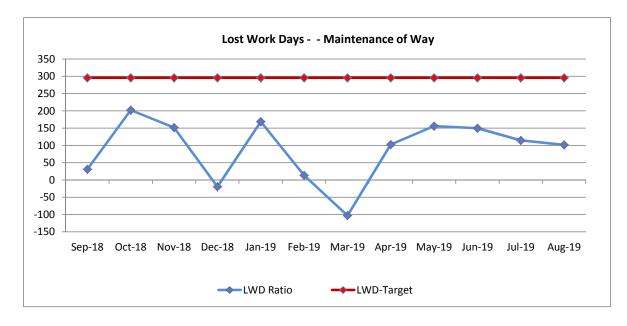


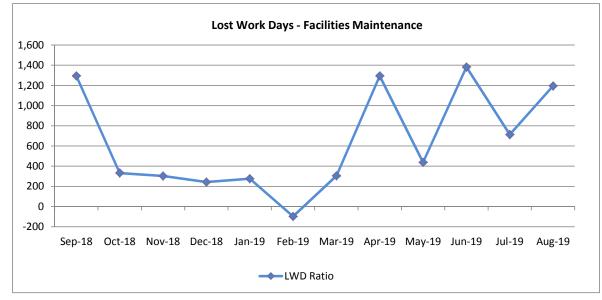
Facilities Maintenance goals to be established.





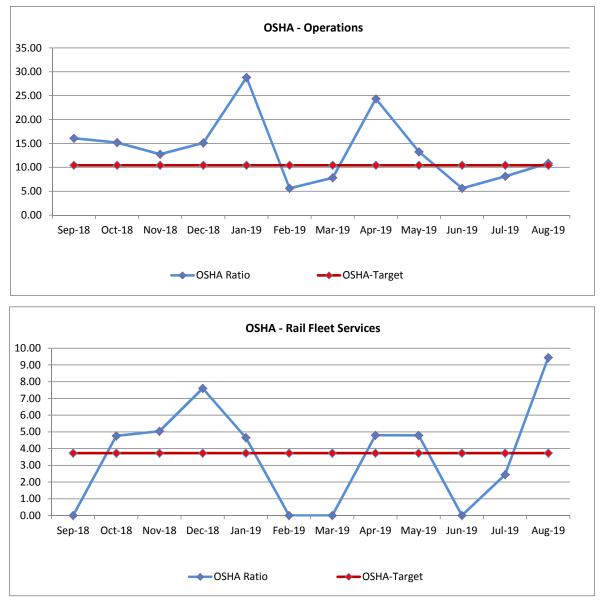
Note: There is a one month lag in Lost Work Days and OSHA data.



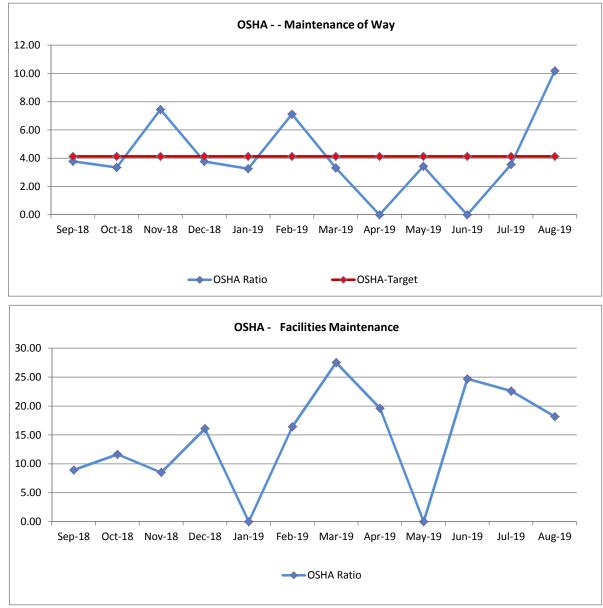


Facilities Maintenance goals to be established.

Note: There is a one month lag in Lost Work Days and OSHA data.



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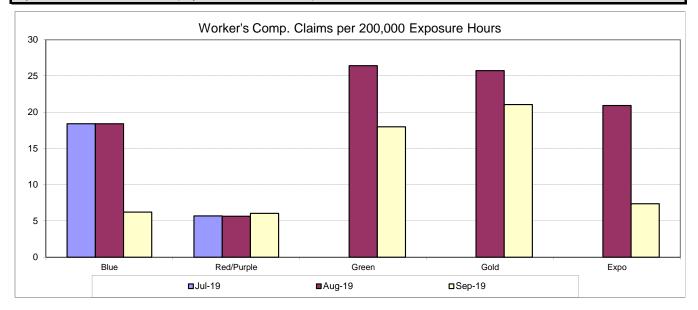


Facilities Maintenance goals to be established. Note: There is a one month lag in Lost Work Days and OSHA data.

### Worker's Comp. Claims Jul 2019 - Sep 2019 3 Month Comparison

Worker's Comp Definition: Number of new reported Workers Compensation Indemnity and Medical claims filed per 200,000 exposure hours. This indicator measures safety.

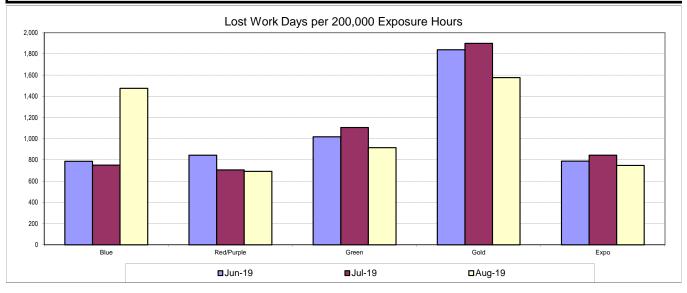
Calculation: New reported Workers' Compensation Indemnity and Medical claims filed per 200,000 Exposure Hours = New Claims/(Exposure Hours/200,000)



## Lost Work Days and OSHA Injuries Jun 2019 - Aug 2019 3 Month Comparison

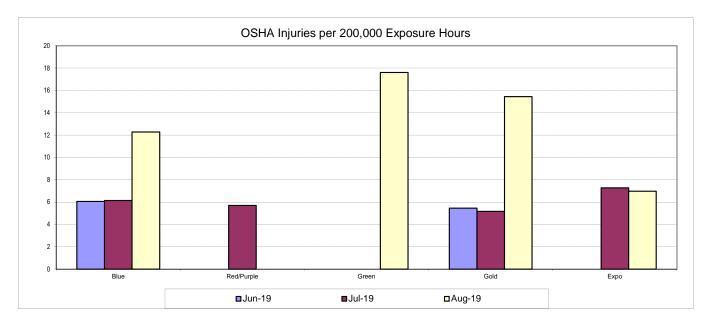
LWD Definition: Number of paid working days lost due to employees workers' compensation injuries each month per 200,000 exposure hours. This indicator measures use of Transitional Duty Program.

Calculation: : (Total Temporary Disability Benefit Payments / Estimated TD Benefit Rate) x (5/7) / (Number Exposure Hours / 200,000)"



OSHA Definition: Work-related injuries and illnesses that result in: death, loss of consciousness, days away from work, restricted work activity or job transfer, or medical treatment beyond first aid which are filed per 200,000 exposure hours.

Calculation: New OSHA Injuries filed per 200,000 Exposure Hours = New Injuries /(Exposure Hours/200,000)



Note: There is a one month lag in Lost Work Days and OSHA data.

# **BLUE LINE**

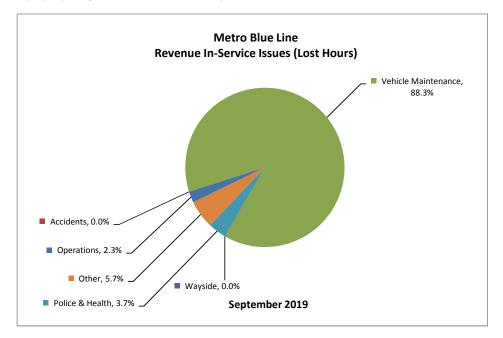
Out of a total of 9,408 hours operated, there were approximately 7 total hours of service delays.

	Revenue		
September 2019 Service Hours *	Hours	Percent	
Revenue Hours without Delays	9,401	99.9%	
Cancelled + Delayed Hours	7	0.1%	
Total Revenue Hours	9,408	100.0%	

Summary of the incidents:	Count	Hours	Percent
Operations	1	0.2	2.3%
Accidents	0	0.0	0.0%
Vehicle Maintenance	5	6.2	88.3%
Wayside	0	0.0	0.0%
Police & Health	4	0.3	3.7%
Other	4	0.4	5.7%
Total	14	7.0	100.0%

\* Data from M3 used to report Service Delays is under review for accuracy

The number of incidents on the following page may differ from the summary count due to some incidents not properly designated as Cancelled or Delayed



September 2019 Blue Line incidents causing delay were as follows:

# **Operations Incidents:**

9/28/2019 1:54:00 PM - Incident# 3206569 (0 lost trips, 10 lost minutes) Approaching Compton Station, operator reports flats on car 1123-1100 Train 101 Track 1 Northbound T-308 1123-1190

# Vehicle Maintenance Incidents:

9/9/2019 4:30:00 AM - Incident# 3198141 (1 lost trip, 174 lost minutes) CHARGEABLE T-216 arriving late at the Willow Station due to problems with the train. T-216 Tr#104 Cars(1073A)-1112-1140 Southbound Trk#1 Sound wall

## 9/10/2019 5:55:00 AM - Incident# 3198660 (0 lost trips, 6 lost minutes) CHARGEABLE

Air Conditioning leaking, cars 1173-(1112)-1140 Train #103 T-541 Compton Station, track #2, Southbound.

## 9/11/2019 4:32:00 AM - Incident# 3199137 (0 lost trips, 5 lost minutes) CHARGEABLE

Roll-Out, cars #1116-1131-1123 Train #104 T-216 Blue line Yard

## 9/12/2019 9:48:00 AM - Incident# 3199816 (1 lost trip, 174 lost minutes) CHARGEABLE

Train 101 reports no movement at transit mall. Train 101 T-264 LRV'S (1087 ) 1118-1084 Transit Mall track 1 northbouind

## 9/19/2019 10:33:00 PM - Incident# 3203130 (0 lost trips, 18 lost minutes)

No Cab Signal also B/O speedometer Train 105 TK #2 SB Compton Station T-69 (1116B)-1083-1117

# Police & Health Incidents:

9/9/2019 4:59:00 AM - Incident# 3198205 (0 lost trips, 8 lost minutes) CHARGEABLE

T-256 reports that there was a patron with a weapon on his person in car #1092.

## 9/11/2019 6:48:00 PM - Incident# 3199569 (0 lost trips, 5 lost minutes) CHARGEABLE

Long Beach Police Department Officer Grajea Metro Unit #3 was on scene reporting 2 buses at 1st and Long Beach involved in a accident and blocking both tracks.

## 9/20/2019 9:50:00 AM - Incident# 3203341 (0 lost trips, lost minutes)

Late departure from Transit Mall Station due to blocked track, Track 1.

## 9/26/2019 6:28:00 PM - Incident# 3205959 (0 lost trips, 3 lost minutes)

Trespasser Train 105 T-244 1107-1090-1123 Northbound, Track 1 8Th and Long Beach TK 2.

# Other Incidents:

### 9/28/2019 6:19:00 PM - Incident# 3206612 (0 lost trips, lost minutes) CHARGEABLE

Train 102 (1084)-1118 T201 Track #2 Compton Station Operator reports someone spilled gas on the consist.

# **Unable to Duplicate:**

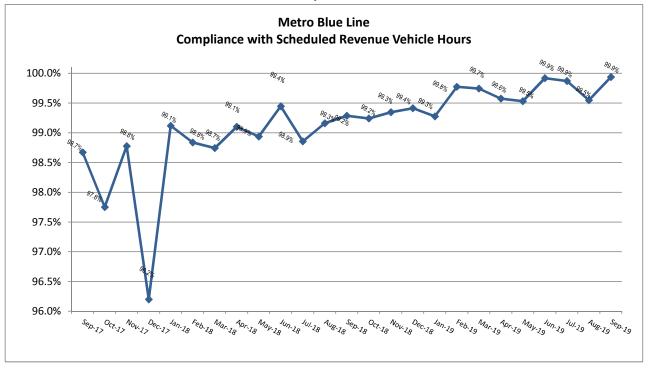
9/9/2019 5:19:00 AM - Incident# 3198180 (0 lost trips, 8 lost minutes) CHARGEABLE
T-216
T-216
Tr#104
Cars(1073A)-1112-1140
Southbound Trk#2
Willow Station
9/20/2019 11:55:00 AM - Incident# 3203393 (0 lost trips, 8 lost minutes) CHARGEABLE
Train 101
Southbound
Track #2
(1090B)-1076-1139
T-262
Operator reports propulsion problems with loss of power at 26th Street.

# Reset: 9/11/2019 9:31:00 AM - Incident# 3199312 (0 lost trips, 6 lost minutes) CHARGEABLE Auto Train Protection (Speed Limit) cars #(1140A)-1073-1093 Train #105 T-216

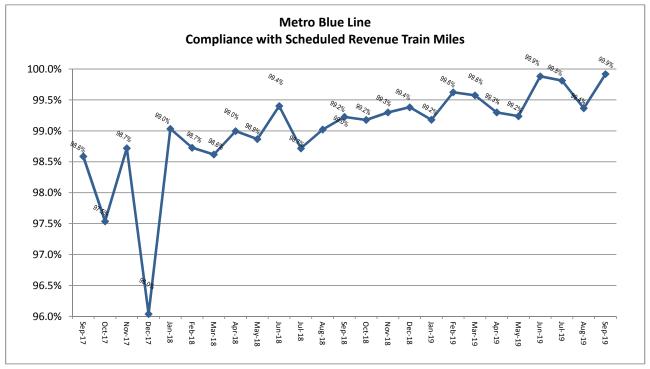
Wardlow Station, track #2, Southbound.

# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS COMPLIANCE WITH SCHEDULED VEHICLE HOURS

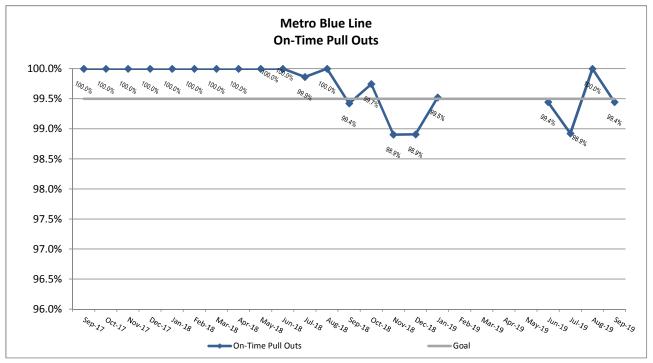




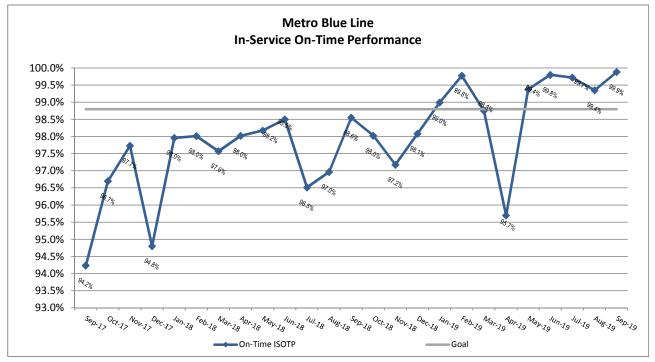
#### **COMPLIANCE WITH SCHEDULED TRAIN MILES**



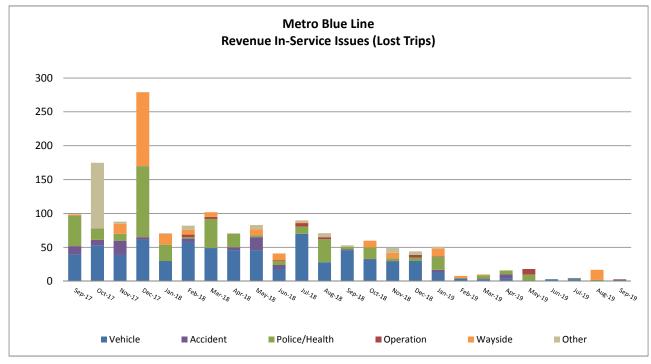
#### **ON-TIME PULL OUTS**



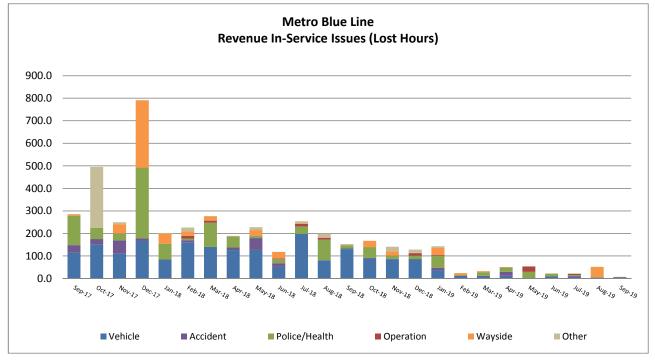
### **IN-SERVICE ON-TIME PERFORMANCE CHART**



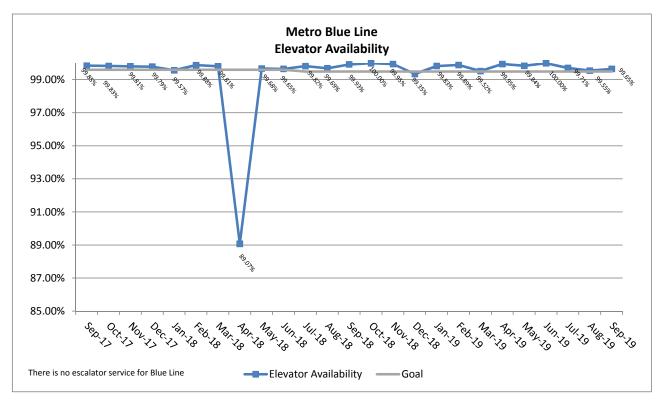
#### LOST TRIPS



# LOST HOURS



### VERTICAL TRANSPORTATION AVAILABILITY



# **RED LINE**

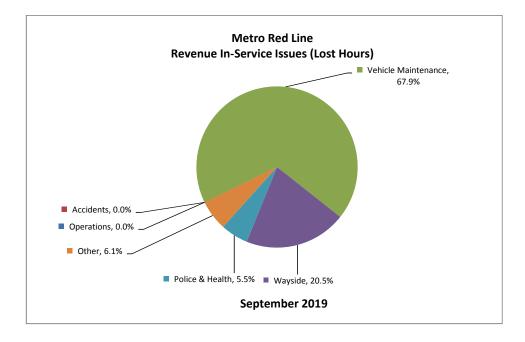
Out of a total of 26,411 hours operated, there were approximately 55 total hours of service delays.

	Revenue	
September 2019 Service Hours *	Hours	Percent
Revenue Hours without Delays	26,356	99.8%
Cancelled + Delayed Hours	55	0.2%
Total Revenue Hours	26,411	100.0%

Summary of the incidents:	Count	Hours	Percent
Operations	0	0.0	0.0%
Accidents	0	0.0	0.0%
Vehicle Maintenance	9	37.7	67.9%
Wayside	2	11.4	20.5%
Police & Health	2	3.1	5.5%
Other	5	3.4	6.1%
Total	18	55.6	100.0%

\* Data from M3 used to report Service Delays is under review for accuracy

The number of incidents on the following page may differ from the summary count due to some incidents not properly designated as Cancelled or Delayed



# September 2019 Red Line incidents causing delay were as follows:

# **Operations Incidents:**

None

# Vehicle Maintenance Incidents:

**9/3/2019 11:32:00 AM - Incident# 3195697 (12 lost trips, 1,810 lost minutes)** Stuck mode selector Train 205 T-031/074 CArs 569-570-575-(576) Signal US 2 AL East

## 9/4/2019 7:50:00 PM - Incident# 3196564 (0 lost trips, 6 lost minutes) CHARGEABLE

Loss of cab signal emergency brake application 593,594,559,560,567(568). Westlake Station Train #214, T-199, AL, eastbound.

## 9/8/2019 12:44:00 PM - Incident# 3198015 (1 lost trip, 116 lost minutes)

Report of multiple emergency brake application. T-022 Train 203 Cars (603)-604-565-566 Civic Center AR westbound.

# 9/10/2019 4:17:00 PM - Incident# 3199034 (1 lost trip, 156 lost minutes)

Recurring emergency brake application. Train #214 T-074 Cars #599-600-545-546-533-(534). E/Bound Westlake Station A/L Track.

# 9/13/2019 1:45:00 PM - Incident# 3200437 (1 lost trip, 149 lost minutes)

T-333 reports Emergency lighting in cars # 557 and 558 in Train # 204. H/V AL E.

# 9/20/2019 3:09:00 PM - Incident# 3203490 (0 lost trips, 3 lost minutes)

Mode Selector for key switch is loose. Train 206 T-169 (579)-580-567-568 Eastbound, Track BR Wilsher/Western.

#### 9/23/2019 5:24:00 AM - Incident# 3204137 (0 lost trips, 7 lost minutes)

Car 567 Friction brake fault will not clear. Train 210 (567)-568-537-538-581-582 T-318 Union Station, AR, Westbound

#### 9/24/2019 10:35:00 AM - Incident# 3204844 (0 lost trips, 11 lost minutes)

Emergency Brakes not releasing on car (568) Train 209 T-170 North Hollywood, AL, westbound 535 536 567 (568)

#### 9/30/2019 6:28:00 PM - Incident# 3207306 (0 lost trips, 5 lost minutes)

T-197 Train 201 Operator reports friction brakes will not release in car 588. Wilshire Vermont AR west 587, (588), 571, 572

## Wayside Incidents:

#### 9/13/2019 2:00:00 PM - Incident# 3200480 (1 lost trip, 155 lost minutes)

False occupancy track circuits 3A and 3BT. Wilshire Vermont Station

#### 9/15/2019 4:25:00 AM - Incident# 3200945 (3 lost trips, 534 lost minutes) CHARGEABLE

Train 204 No movement at yard limits (501)-502/525-524/517-518 T-254 Yard limits, AL track

#### **Police & Health Incidents:**

**9/5/2019 5:57:00 AM - Incident# 3196679 (1 lost trip, 171 lost minutes) CHARGEABLE** Train Operator T-384 reports a trespasser on the right of way at Union Station AL-E (Behind Signal US-10)

**9/6/2019 6:30:00 AM - Incident# 3197169 (0 lost trips, 6 lost minutes) CHARGEABLE** Train #207 departed late 6 minutes late due to police activity.

# **Other Incidents:**

Yard limits

## **9/8/2019 4:07:00 AM - Incident# 3197924 (0 lost trips, 5 lost minutes) CHARGEABLE** Yard routing issue (Annex board): Train 202 T-104 541-542/549-550

#### 9/25/2019 6:04:00 PM - Incident# 3205501 (0 lost trips, 7 lost minutes)

Train 218 T-179 Bloody male patron entered Vermont Sunset Station at 1804 hours attempted to board consist. Vermont Sunset AR west 579, (580) 591, 592, 587, 588

# Unable to Duplicate:

#### 9/3/2019 10:11:00 AM - Incident# 3195668 (0 lost trips, 9 lost minutes)

Mode Selector Stuck Train 201 T-031 Cars (543)-544-577-578 North Hollywood AR East

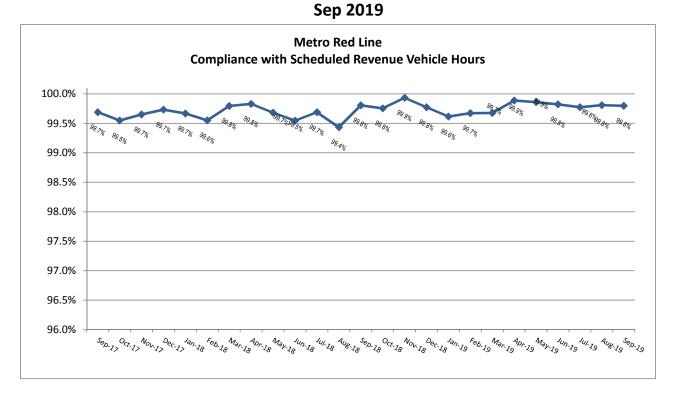
#### 9/10/2019 6:44:00 AM - Incident# 3198677 (0 lost trips, 12 lost minutes)

No door close indication: No movement Train 204 T-31 545-546/543-544/549-(550) Vermont/Santa Monica, AL Eastbound

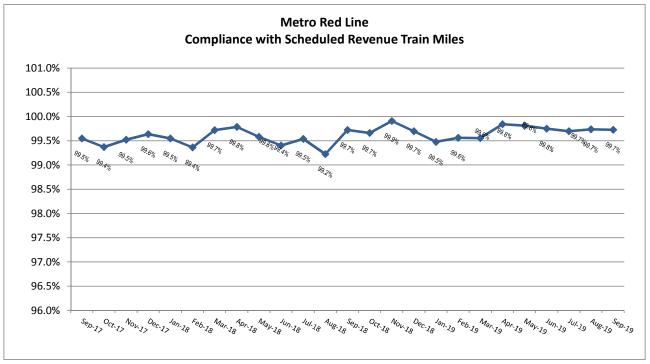
#### 9/15/2019 8:23:00 PM - Incident# 3201127 (1 lost trip, 174 lost minutes)

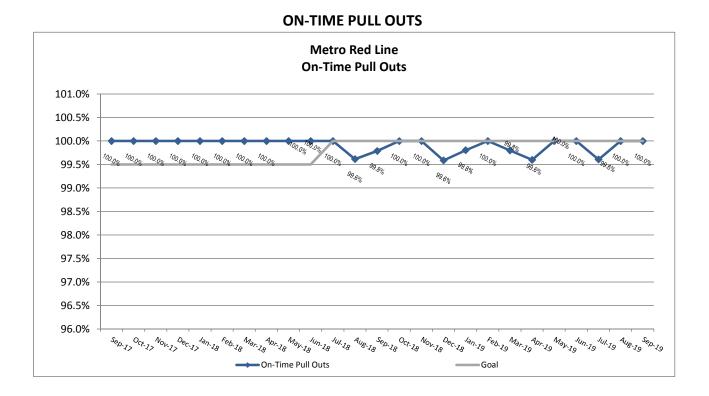
T-199 reports door problems, unable to open doors or intiate berthing bypass. Train 206 Cars 533, 534, 537, 538, 567, 568 Vermont/ Beverly AL and 7th Metro AL

# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS COMPLIANCE WITH SCHEDULED VEHICLE HOURS

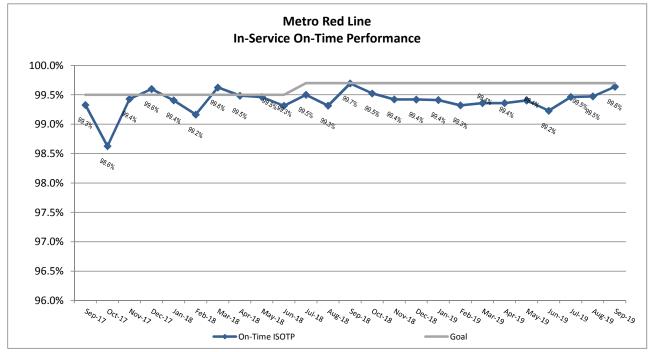


# COMPLIANCE WITH SCHEDULED TRAIN MILES

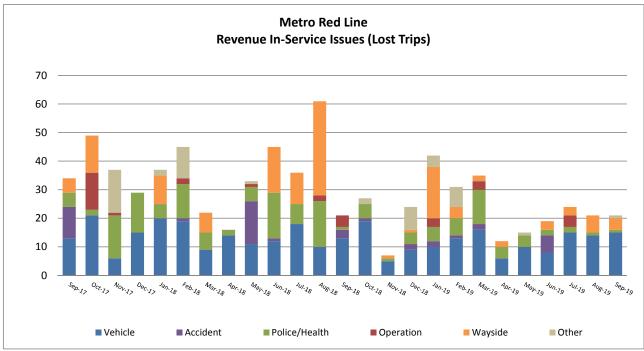




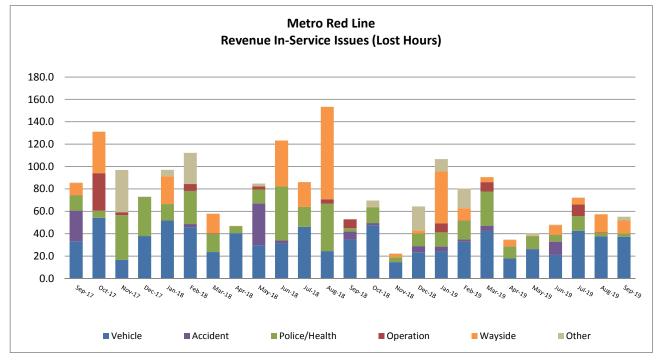
# **IN-SERVICE ON-TIME PERFORMANCE**



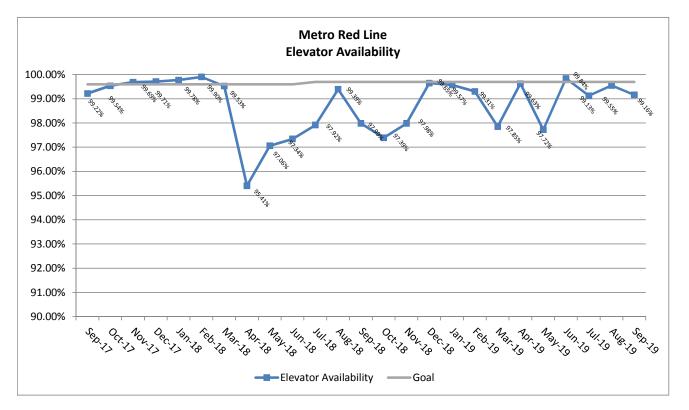
#### LOST TRIPS

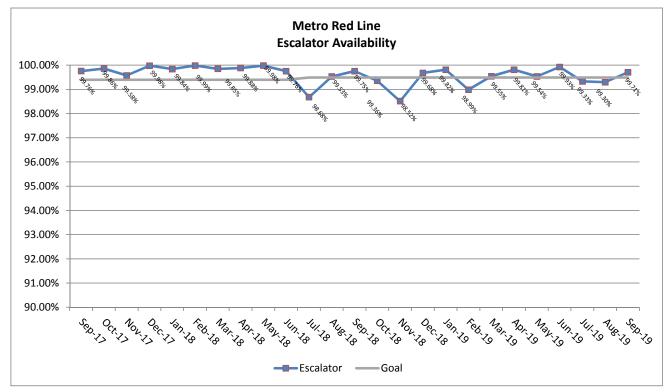


#### LOST HOURS



### VERTICAL TRANSPORTATION AVAILABILITY





# **GREEN LINE**

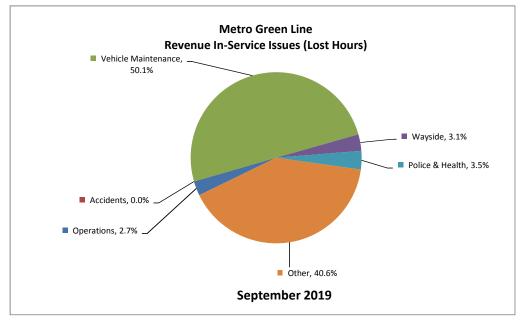
Out of a total of 8,918 hours operated, there were approximately 18 total hours of service delays.

	Revenue	
September 2019 Service Hours *	Hours	Percent
Revenue Hours without Delays	8,900	99.8%
Cancelled + Delayed Hours	18	0.2%
Total Revenue Hours	8,918	100.0%

Summary of the incidents:	Count	Hours	Percent
Operations	2	0.5	2.7%
Accidents	0	0.0	0.0%
Vehicle Maintenance	14	8.8	50.1%
Wayside	5	0.6	3.1%
Police & Health	4	0.6	3.5%
Other	16	7.1	40.6%
Total	41	17.6	100.0%

\* Data from M3 used to report Service Delays is under review for accuracy

The number of incidents on the following page may differ from the summary count due to some incidents not properly designated as Cancelled or Delayed



# September 2019 Green Line incidents causing delay were as follows:

# **Operations Incidents:**

**9/2/2019 12:07:00 AM - Incident# 3195121 (0 lost trips, 13 lost minutes) CHARGEABLE** Rule Violation/ 4250 Schedule Adherance Train #335, T-13 Car # 227, Aviation Station, EB

#### 9/4/2019 11:17:00 PM - Incident# 3196611 (0 lost trips, 16 lost minutes) CHARGEABLE

Unable to uncouple Train 351 T-294 TK 1 Marine 1145-1146

#### Vehicle Maintenance Incidents:

#### 9/2/2019 12:21:00 PM - Incident# 3195315 (0 lost trips, 12 lost minutes) CHARGEABLE

No cab signals. car (225B)-209 T-193 Track 2 Eastbound Wilmington station ATO MODE

#### 9/3/2019 4:19:00 AM - Incident# 3195496 (0 lost trips, 8 lost minutes) CHARGEABLE

ATP fail no movement Train #333 T-079 Car 206B-209 eastbound at Mariposa.

#### 9/4/2019 5:58:00 PM - Incident# 3196549 (0 lost trips, 10 lost minutes)

Train 353 T-394 Operator reports no movement in car 243. M-132 stated the brakes will not release he will set consist up for dead tow. Willowbrook Track 2 east. 203, (243)

#### 9/4/2019 9:53:00 PM - Incident# 3196599 (0 lost trips, 10 lost minutes) CHARGEABLE

Broken Windshield Train 333 TK 2 Marine T-255 (1144A)-1147

#### 9/6/2019 10:52:00 PM - Incident# 3197101 (0 lost trips, 15 lost minutes)

T-13 reports no cab signal.

#### 9/9/2019 5:56:00 AM - Incident# 3198166 (0 lost trips, 3 lost minutes)

Auto Train Protection (Speed Limit), cars (202)-203 Train #336 T-193 Crenshaw Station, track #1, Westbound.

#### 9/10/2019 3:11:00 PM - Incident# 3198975 (0 lost trips, 10 lost minutes)

No cab signals (225A) Train 333 T 235 (225A)-208 Track 2 Eastbound Aviation station ATO MODE

#### 9/17/2019 6:07:00 AM - Incident# 3201785 (0 lost trips, 8 lost minutes)

Loss of Air Pressure due to Propulsion Fault and Speed Restriction. Train 346 T-409 (222)-225 Harbor Station, westbound, Track 1.

#### 9/17/2019 10:37:00 AM - Incident# 3201942 (0 lost trips, 10 lost minutes)

Loss of cab signal at Marine IL. Train 336 T-078 (1168B)-1177 Marine IL, Track 2, Eastbound.

#### 9/24/2019 5:10:00 AM - Incident# 3204649 (2 lost trips, 144 lost minutes)

Loss of movement after emergency brake self applied. Train 336 T-078 (220A)-225 Hawthorne Station, Track 2, eastbound. Crenshawe IL, Track 2, eastbound.

#### 9/24/2019 10:40:00 PM - Incident# 3205111 (0 lost trips, 12 lost minutes)

Train-356 T-450. LRV- 202- (205B). Marine Station, Track #2 Eastbound. OC Code and ATP Failure.

# 9/25/2019 5:12:00 PM - Incident# 3205492 (2 lost trips, 142 lost minutes)

Operator reports that the train has a friction brake fault and no movement.

## 9/26/2019 3:10:00 PM - Incident# 3205894 (1 lost trip, 66 lost minutes)

Propulsion fault speed restriction Train 335 TK1 Wb Lakewood T-184 (217A)-206

#### 9/30/2019 9:34:00 AM - Incident# 3207077 (1 lost trip, 79 lost minutes)

Train-332 T-193 cars 220-216 with self applying friction brakes on car 220A. Exchanged patrons and equipment at Vermont Station. Rail Fleet Services Technician (M268) advises equipment removed immediately from service. Third occurrence today.

# Wayside Incidents:

#### **9/3/2019 2:49:00 PM - Incident# 3195849 (0 lost trips, 8 lost minutes)** Marine IL, switch 1 out of correspondance.

# 9/16/2019 1:29:00 AM - Incident# 3201161 (0 lost trips, 5 lost minutes) CHARGEABLE

Inspection: Switch Machine Inspection Marine Interlocking, Track #1/2 MS-154/EIC, MS-155/Watchperson

#### 9/25/2019 10:46:00 AM - Incident# 3205301 (0 lost trips, 7 lost minutes)

Traction Power personnel (TP-063, 196, 121, 146, 194, 188, 176, 197, 180) are requesting authorization to enter the ROW

#### 9/26/2019 5:45:00 AM - Incident# 3205614 (0 lost trips, 6 lost minutes) CHARGEABLE

Marine interlocking showing out of correspondance intermittently.

#### 9/26/2019 10:38:00 AM - Incident# 3205742 (0 lost trips, 7 lost minutes) CHARGEABLE

Work Permit E-5/Traction Power performing a rolling High Rail inspection of the OCS from Yard to Marine to Norwalk and back. High Rail # 939 TP-176 EIC TP-180 Watchperson TP-197 Pilot TP-149 supporting.

# Police & Health Incidents:

**9/15/2019 4:49:00 PM - Incident# 3201087 (0 lost trips, 10 lost minutes) CHARGEABLE** Harbor Station, nude male hispanic on edge of the Platform.

#### 9/20/2019 7:28:00 AM - Incident# 3203254 (0 lost trips, 9 lost minutes) CHARGEABLE

Norwalk Station G-403 assaulted by a patron not letting G403 get onboard.

#### 9/23/2019 1:34:00 PM - Incident# 3204427 (0 lost trips, 10 lost minutes) CHARGEABLE

LASD contacted ROC to stop a train that had a suspected male with a gun. Affected train was train 335, train was directed to hold at Aviation Station and wait for LASD.

#### 9/24/2019 4:08:00 PM - Incident# 3205020 (0 lost trips, 8 lost minutes) CHARGEABLE

LASD, at Wilmington Station, officers request control to hold trains for a possible suspect.

## Other Incidents:

**9/4/2019 7:43:00 AM - Incident# 3196083 (1 lost trip, 76 lost minutes) CHARGEABLE** Train 335 / Operator T-113 / Consist 1193-(1176) Operator reports an African American Female in Car 1176b, complaining of shortness of breath.

Train 335 off loaded patrons at Vermont Station Track 2. Train held for LAFD to respond.

#### 9/8/2019 12:16:00 AM - Incident# 3197790 (0 lost trips, 8 lost minutes) CHARGEABLE

Patron pulled emergency T at Paramount interlocking.

# Unable To Duplicate:

# 9/18/2019 4:03:00 PM - Incident# 3202540 (0 lost trips, 15 lost minutes) Operator reports that the train has no movement just west of the Norwalk Interlocking. T-235 Train 355 Cars (1184)-1148 West of Norwalk Interlocking, Track 1, westbound

#### 9/9/2019 4:35:00 PM - Incident# 3198529 (0 lost trips, 12 lost minutes)

T-235 on Train 356 states no cab signal going through Yard Interface Interlocking. Train 356, cars (1174A)-1173, Yard Interface, Track 2, Eastbound.

#### 9/13/2019 5:19:00 AM - Incident# 3200184 (0 lost trips, 10 lost minutes)

Train 335 / Operator T-302 / Consist (1193B)-1168 Operator reports no cab signals departing Norwalk Station Track 1.

#### 9/1/2019 3:33:00 PM - Incident# 3195049 (2 lost trips, 130 lost minutes)

Train 335 T-20 El Segundo IL, Westbound, Track 1 LRV's (1151)-1171 T-20 reported Train 335 went into emergency braking and then no movement at El Segundo IL, operating LRV 1151.

#### 9/3/2019 9:18:00 PM - Incident# 3195980 (0 lost trips, 15 lost minutes) CHARGEABLE

No Fault - Loss of Cab Signals T-302, Train # 356 Aviation Station, Track #3, EB Car # (1170A)-1148

### 9/5/2019 1:03:00 PM - Incident# 3196891 (0 lost trips, 16 lost minutes)

SLC fault, HSCB trip and speed restriction (1177B)1151. Lakewood Station Train #334, T-136, track #1, westbound.

### 9/6/2019 7:35:00 AM - Incident# 3197209 (0 lost trips, 6 lost minutes) CHARGEABLE

Train 333 / Operator T-055 / Consist (1144)-1147 Norwalk Station Track 2 Westbound Operator reports no movement with no faults indicated.

# Reset:

9/8/2019 6:47:00 PM - Incident# 3198074 (0 lost trips, 10 lost minutes) CHARGEABLE Train 333 T-168 Long Beach Station, Track 2, Eastbound (227)-209 T-168 reported a propulsion fault with a speed restriction departing Long Beach Station in LRV 227.

# 9/4/2019 11:11:00 AM - Incident# 3199737 (0 lost trips, 10 lost minutes)

Train 336 / Operator T-20 / Consist 1150-(1177) Operator was holding at Vermont Station due to the single tracking and experienced a door problem. Operator cleared the problem and experienced a 10 minute delay in service Eastbound.

### 9/5/2019 6:19:00 AM - Incident# 3196689 (0 lost trips, 7 lost minutes) CHARGEABLE

Train 343 T-55 LRV Cars 1176-1193 Track 1 WB Departing Avalon Station. Operator is reporting a loss of Cab Signals.

# 9/15/2019 2:06:00 PM - Incident# 3201059 (1 lost trip, 80 lost minutes)

Cars (1168-1193) doors do not open. T-257 Train 331 Harbor Station, Track 2, eastbound.

# 9/18/2019 4:01:00 AM - Incident# 3202241 (0 lost trips, 12 lost minutes)

Train 343 / Operator T-070 / Consist (1150)-1174 Operator reports no speed code departing Marine Track 2. Operator utilized stop and proceed mode to Douglas Station. Upon arrival to Douglas the Operator performed a "Local Off" and cleared the fault.

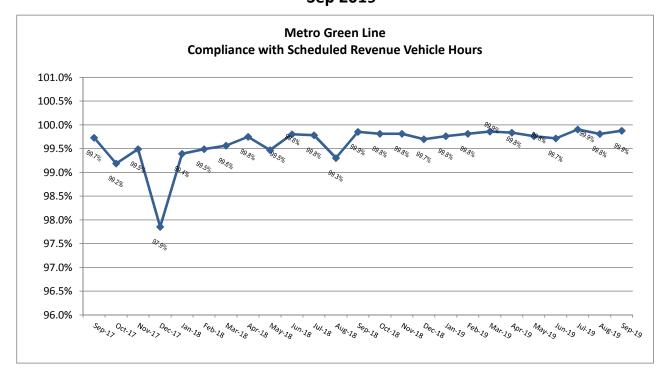
# 9/19/2019 5:32:00 AM - Incident# 3202719 (0 lost trips, 10 lost minutes)

Train 346 no movement. T-57 Train 346 Cars:(1193)-1169 EB Douglas Station Tk-2

#### 9/29/2019 7:25:00 PM - Incident# 3206839 (0 lost trips, 11 lost minutes) CHARGEABLE

Train 331 HSCB Trip. T-294 Train 331 Cars: (1177)-1144 WB Marine Station

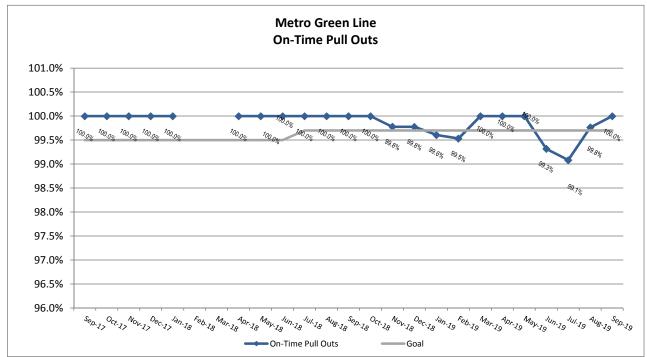
# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS COMPLIANCE WITH SCHEDULED VEHICLE HOURS Sep 2019



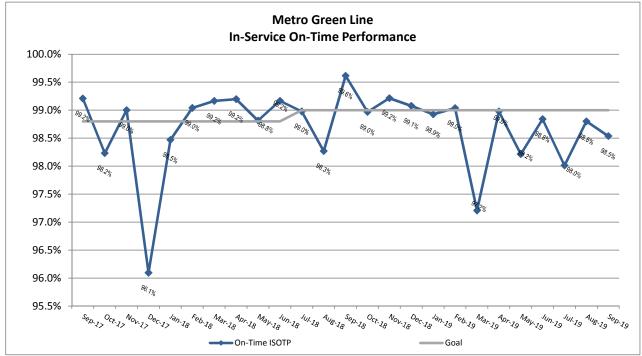
# COMPLIANCE WITH SCHEDULED TRAIN MILES



#### **ON-TIME PULL OUTS**

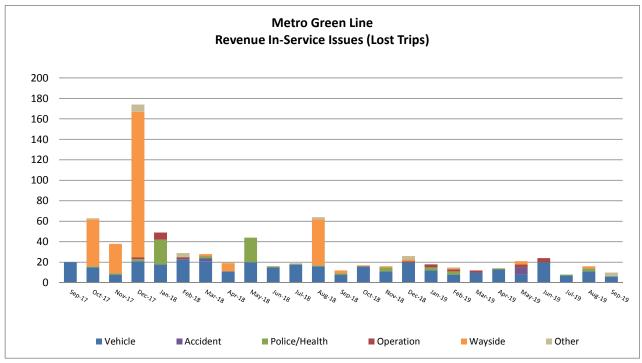


Due to the Crenshaw line link construction in Feb and March 2018, Green Line trains did not pull in or pull out, trains stayed on the tracks.

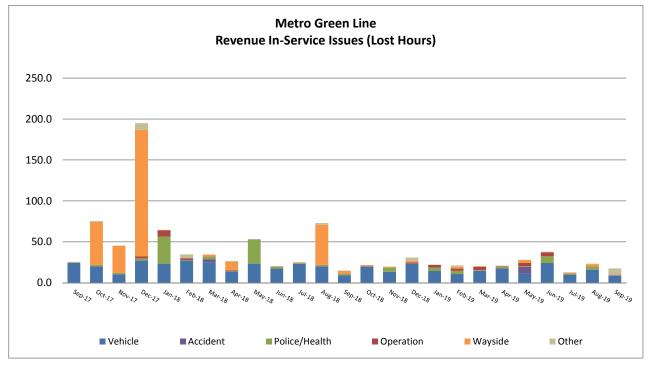


#### **IN-SERVICE ON-TIME PERFORMANCE**

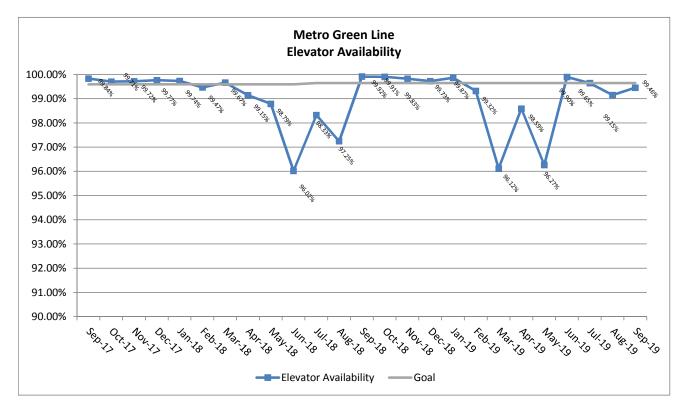
#### LOST TRIPS



#### LOST HOURS



## VERTICAL TRANSPORTATION AVAILABILITY





# **GOLD LINE**

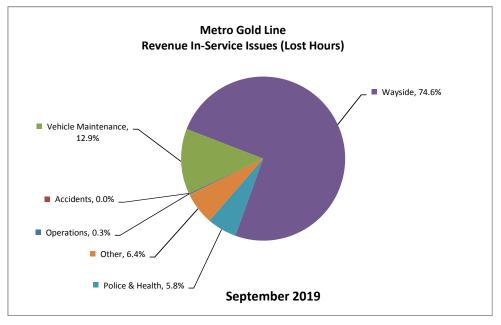
Out of a total of 23,075 hours operated, there were approximately 123 total hours of service delays.

	Revenue		
September 2019 Service Hours *	Hours	Percent	
Revenue Hours without Delays	22,952	99.5%	
Cancelled + Delayed Hours	123	0.5%	
Total Revenue Hours	23,075	100.0%	

Summary of the incidents:	Count	Hours	Percent
Operations	4	0.3	0.3%
Accidents	0	0.0	0.0%
Vehicle Maintenance	9	15.9	12.9%
Wayside	7	91.9	74.6%
Police & Health	4	7.2	5.8%
Other	9	7.9	6.4%
Total	33	123.2	100.0%

\* Data from M3 used to report Service Delays is under review for accuracy

The number of incidents on the following page may differ from the summary count due to some incidents not properly designated as Cancelled or Delayed



# September 2019 Gold Line incidents causing delay were as follows:

# **Operations Incidents:**

9/7/2019 6:56:00 AM - Incident# 3197683 (0 lost trips, 4 lost minutes) CHARGEABLE 10-100 train #401 T-224 Atlantic Station, track #1, Northbound.

#### 9/19/2019 7:06:00 AM - Incident# 3202760 (0 lost trips, 5 lost minutes)

Train 454, T-36 departed 5 minutes late from APU Station. Scheduled to depart at 0701 and departed at 0706 hours.

## 9/20/2019 2:34:00 AM - Incident# 3203160 (0 lost trips, lost minutes) CHARGEABLE

Late pull outs due to Operator refusing to pull into yard.

#### 9/20/2019 3:41:00 PM - Incident# 3203534 (0 lost trips, 10 lost minutes) CHARGEABLE

T-445 arrived late to Atlantic Station

# Vehicle Maintenance Incidents:

## 9/1/2019 2:42:00 PM - Incident# 3195046 (1 lost trip, 146 lost minutes)

Brake fault on car 728-(722A) T-340 Track 1 Sierra Madre Northbound

#### 9/3/2019 11:25:00 AM - Incident# 3195693 (0 lost trips, 6 lost minutes)

Air Conditioning, car #(702B)-732-704 Train #401 T-178 Azusa/Citrus, track #2, Southbound.

# 9/5/2019 5:30:00 PM - Incident# 3197009 (1 lost trip, 218 lost minutes)

Operator reports LVPS fault. Train-426 T-008 Cars (726),709, 722 Delmar Station, Track 1, NB

#### 9/8/2019 12:54:00 PM - Incident# 3198029 (1 lost trip, 151 lost minutes)

LVPS fault on car (728B) Train 409 T-488 702-(728B) Track 2 Irwindale station Southbound

#### 9/15/2019 10:24:00 PM - Incident# 3201132 (0 lost trips, 5 lost minutes)

Reports of no cab signal Train # 410 T-192 (1166A)-1009-1059 Lincoln/Cypress Station, Track #2, SB

#### 9/20/2019 4:47:00 AM - Incident# 3203168 (0 lost trips, 5 lost minutes) CHARGEABLE

Train 403 reports of doors not opening. T-98 Train 403 Cars: (1166)-1109-1181 Tk-1 SB APU/ Citrus

#### 9/26/2019 9:43:00 AM - Incident# 3205716 (1 lost trip, 210 lost minutes)

Brakes on indication Train 454 Cars 739-750-(744) Sierra Madre Track 1 North

#### 9/26/2019 9:40:00 PM - Incident# 3205991 (1 lost trip, 210 lost minutes)

Friction Brake fault on all 3 cars 748-746-736 Train 453 T-122 Chinatown Tk 2 SB

#### 9/30/2019 2:44:00 PM - Incident# 3207217 (0 lost trips, 9 lost minutes)

Train 402 was unable to couple properly. T-161 Train 402 Cars:(1160)-1164-1064 SB Tk-1 APU/ Citrus

# Wayside Incidents:

#### 9/6/2019 2:00:00 PM - Incident# 3197568 (25 lost trips, 5,206 lost minutes) CHARGEABLE

Arinc system displays multiple OCS segments are deenergized along with DC bus #2. Breaker A-04 locked out and B-04 tripped.

# 9/7/2019 7:55:00 AM - Incident# 3197686 (0 lost trips, 22 lost minutes) CHARGEABLE

OCS repairs TP-194 Pilot: TP-Train #940 Indian Siding to South West Museum interlocking.

#### 9/8/2019 1:39:00 AM - Incident# 3197795 (0 lost trips, 20 lost minutes)

Utility undervoltage A01, DC Bus 2 undervoltage, RT01 X-Form deenergized, RT02 X-2 form deenergized, RT03 X-3 deenergized, Monrovia yard FCP summary supv alarm, Monrovia yard FCP trouble alarm

#### 9/9/2019 5:32:00 AM - Incident# 3198175 (1 lost trip, 209 lost minutes)

Train operator reporting OCS wire down train 406 stranded between stations Sierra Madre and Allen Station.

#### 9/16/2019 11:36:00 AM - Incident# 3201598 (0 lost trips, 25 lost minutes)

Operator reports no movement. Train-402 T-283 Cars 744,748,738 Lake Station, Track 1, NB

#### 9/19/2019 10:13:00 AM - Incident# 3202871 (0 lost trips, 15 lost minutes)

Emergency OCS Repair Tk-2, 2 Hi-Rail vehicles in tandem known as train 949. TP-63 (EIC) TP-146 (watch person with protran)

#### 9/28/2019 7:55:00 AM - Incident# 3206496 (0 lost trips, 18 lost minutes)

Tree Trimming and OCS Inspection, Traction Power and Facilities Maintenance will coordinate.

# Police & Health Incidents:

#### 9/4/2019 7:46:00 PM - Incident# 3196566 (0 lost trips, 5 lost minutes)

Reports of trespasser in the refuge area. Train #403 T-245 1111-1013-1191 Lincoln Cypress Station, Track #1, NB **9/8/2019 1:28:00 AM - Incident# 3197917 (0 lost trips, 18 lost minutes)** 

LASD Willeum informed control of a alleged robbery on train 410 and to be held at SMV with doors closed

#### 9/19/2019 4:52:00 AM - Incident# 3202720 (2 lost trips, 397 lost minutes)

Train 401 reports a trespasser naked on track 1 unable to proceed.

## 9/29/2019 10:19:00 PM - Incident# 3206875 (0 lost trips, 12 lost minutes)

Train 407 reports a 10-57 on the lead car 1058A Train 407 T-323 (1158A)-1126 Sierra Madre IL, Reverse Running on Track 1, Southbound

# Other Incidents:

**9/17/2019 4:54:00 PM - Incident# 3202140 (0 lost trips, 8 lost minutes)** South of SMV IL, Track 1, MP 13.3 weed fire.

**9/19/2019 10:53:00 PM - Incident# 3203133 (0 lost trips, 7 lost minutes) CHARGEABLE** Vomit on consist (1158)1178. Citrus Station Train #423, T-540, track #1, southbound.

**9/27/2019 4:58:00 AM - Incident# 3206053 (0 lost trips, 10 lost minutes) CHARGEABLE** T-421 reported an individual on his consist requesting medical attention.

9/30/2019 1:53:00 PM - Incident# 3207192 (1 lost trip, 198 lost minutes) CHARGEABLE Train 404 reports of dirty car. T-280 Train 404 Cars: (1010)-1013 SB Tk-1 Heritage Square

# **Unable to Duplicate:**

#### 9/4/2019 7:23:00 AM - Incident# 3196087 (0 lost trips, lost minutes)

Propulsion fault unable to clear Train #454 T-036 car#737-736-741 southbound at Sierra Madre station.

#### 9/5/2019 7:15:00 AM - Incident# 3196717 (1 lost trip, 229 lost minutes)

High Speed Circuit Breaker Fault Train 412 T-441 Cars 724-701-705B Allen Station Track 2 South

#### 9/19/2019 5:48:00 PM - Incident# 3203085 (0 lost trips, 8 lost minutes) CHARGEABLE

Doors 7/8 Train 406 T-411 1126-(1159)-1157 Northbound, Track 1 South Pasadena station.

## 9/23/2019 10:47:00 PM - Incident# 3204607 (0 lost trips, 7 lost minutes)

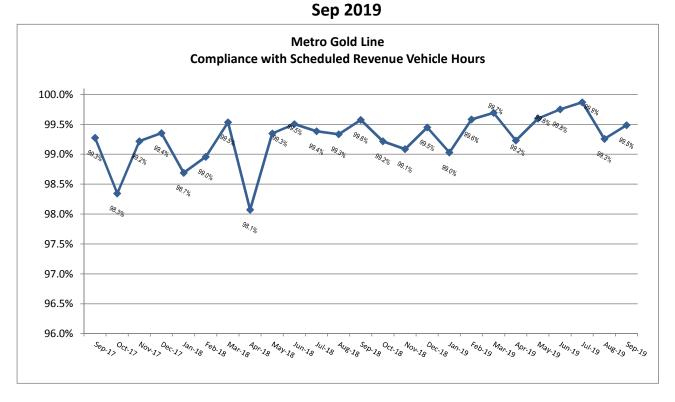
Damaged Left Side Mirror on LRV 728A Train 423 T-151 (728A)-715 APU Station, Platform 1, Southbound

# Reset:

## 9/27/2019 10:30:00 AM - Incident# 3206214 (0 lost trips, 8 lost minutes)

T-17 reported to Control that he had a speed code of 3 mph at Atlantic Station. T-17 Train 402 (1012)-1164-1005 Northbound, Track 1 Atlantic Station

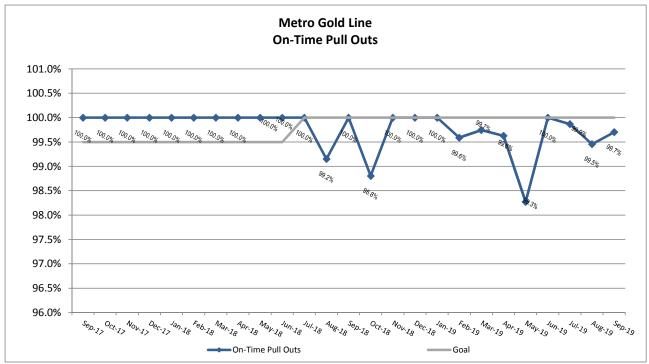
MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS COMPLIANCE WITH SCHEDULED VEHICLE HOURS



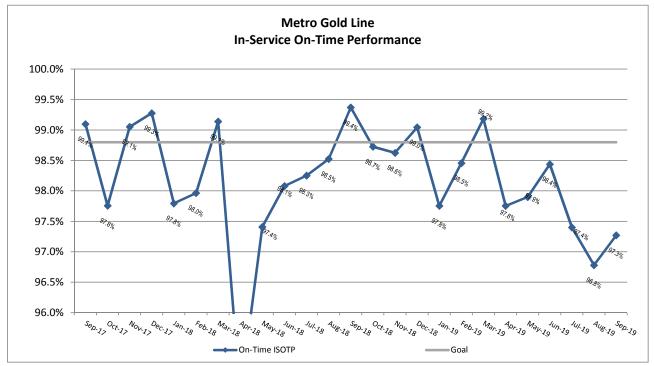
#### COMPLIANCE WITH SCHEDULED TRAIN MILES



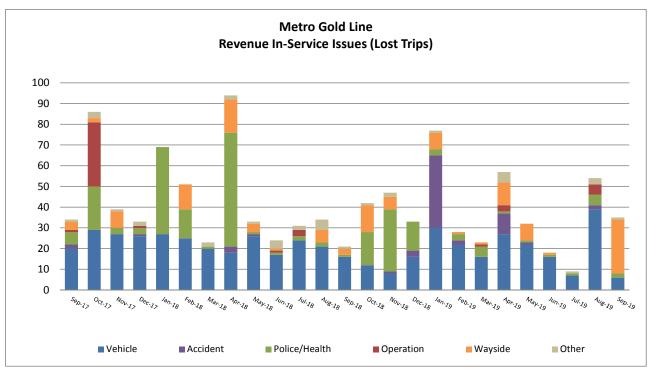
#### **ON-TIME PULL OUTS**



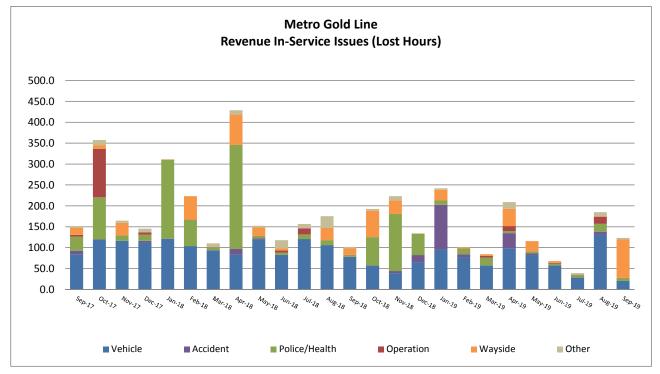
#### **IN-SERVICE ON-TIME PERFORMANCE**



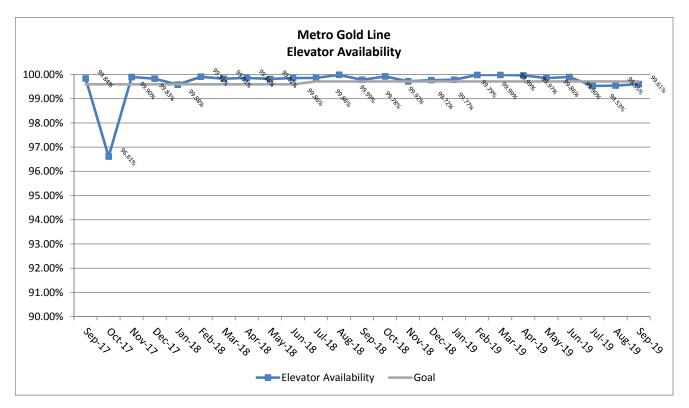
#### LOST TRIPS

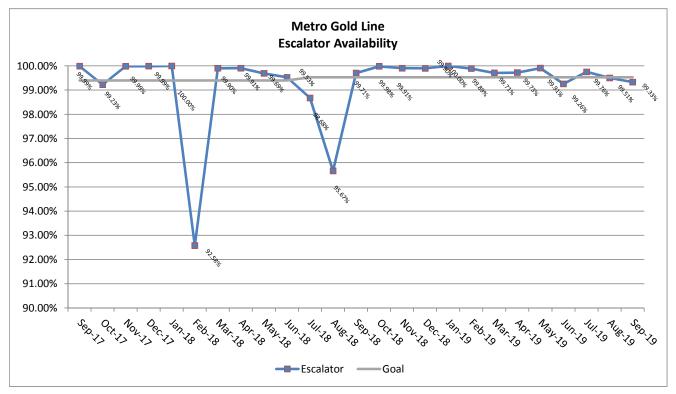


#### LOST HOURS



#### VERTICAL TRANSPORTATION AVAILABILITY





# **EXPO LINE**

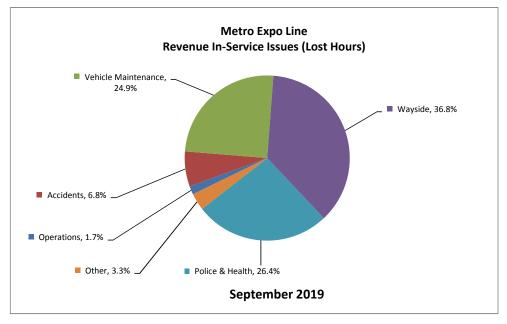
Out of a total of 18,425 hours operated, there were approximately 33 total hours of service delays.

	Revenue	
September 2019 Service Hours *	Hours	Percent
Revenue Hours without Delays	18,392	99.8%
Cancelled + Delayed Hours	33	0.2%
Total Revenue Hours	18,425	100.0%

Summary of the incidents:	Count	Hours	Percent
Operations	5	0.6	1.7%
Accidents	1	2.3	6.8%
Vehicle Maintenance	9	8.2	24.9%
Wayside	7	12.1	36.8%
Police & Health	8	8.7	26.4%
Other	7	1.1	3.3%
Total	37	32.9	100.0%

\* Data from M3 used to report Service Delays is under review for accuracy

The number of incidents on the following page may differ from the summary count due to some incidents not properly designated as Cancelled or Delayed



# September 2019 Expo Line incidents causing delay were as follows:

# **Operations Incidents:**

### 9/4/2019 1:13:00 PM - Incident# 3196333 (0 lost trips, 13 lost minutes) CHARGEABLE

Train 607 was delayed by 13 minutes on its 13:13 departure due to coupling procedures at Santa Monica Station. It was accidently uncoupled at Santa Monica Station on its 11:13 departure trip. Schedule M-778

#### 9/5/2019 10:13:00 AM - Incident# 3196809 (0 lost trips, 9 lost minutes) CHARGEABLE

Train 621 departed late from Santa Monica Station.

#### 9/26/2019 6:58:00 PM - Incident# 3205962 (0 lost trips, lost minutes)

Due to crowded platforms

## 9/29/2019 2:07:00 PM - Incident# 3206794 (0 lost trips, 4 lost minutes) CHARGEABLE

Operator states she misread the summary and left Santa Monica 4 minutes late Train 612 T-296 1048-1053-1032 Track 3 Santa Monica station

#### 9/30/2019 6:27:00 PM - Incident# 3207307 (0 lost trips, 7 lost minutes)

Train 618 T-232 (1047)-1061-1032 Downtown Santa Monica, Track 4, Northbound T-232 reported not being able to engage in Street Run on LRV 1047.

# Accidents:

**9/22/2019 11:06:00 AM - Incident# 3203951 (1 lost trip, 135 lost minutes)** T-241 reports a 10-73 at the 18th/Flower grade crossing. T-241 Tr#606 Cars(1024B)-1052-1045 Southbound Trk#4 Flower/18th

# Vehicle Maintenance Incidents:

9/2/2019 7:08:00 PM - Incident# 3195414 (0 lost trips, 4 lost minutes)

Aux power (AC or MA Fault) Train 610 T-142 Cars 1066)-1051-1001 4th Santa Monica

#### 9/3/2019 3:49:00 PM - Incident# 3195841 (0 lost trips, 8 lost minutes)

T-486 on train 610 states having an intermidate propulsion fault with intermidate speed restriction. Train 610 cars 1046-1016-1069, Palms Station, Track 3, Northbound.

#### 9/5/2019 5:35:00 AM - Incident# 3196708 (2 lost trips, 298 lost minutes)

Air Compressors off on Train 604. Train 604 T-038 (302)-(245)-(246) 28th Street, Track 4, Southbound.

#### 9/10/2019 7:51:00 AM - Incident# 3198705 (0 lost trips, 20 lost minutes)

Doors (240)-302-246 Train 602 T-47 Sepulveda, Northbound, Track 3

#### 9/16/2019 5:45:00 PM - Incident# 3201630 (1 lost trip, 141 lost minutes)

Aux power (AC or MA Fault) Train 605 T-412 Cars (1018) 1064-1021 23rd street station southbound.

#### 9/23/2019 11:35:00 PM - Incident# 3204615 (0 lost trips, 10 lost minutes)

Train Operator T-29 states no movement.

Train 619 T-29 Cars 1071-(1041)-1039 Northbound, track 3, DTSM Station

#### 9/24/2019 9:58:00 AM - Incident# 3204811 (0 lost trips, 6 lost minutes)

No Movemnet Train 603 TK 4 SB Crenshaw T-89 (1064B)-1060-1017

#### 9/30/2019 3:48:00 PM - Incident# 3207257 (0 lost trips, 5 lost minutes)

Train 606 T-114 (1017)-1068-1018 Palms Station, Northbound, Track 3 T-114 reported an SLC Fault with speed restriction on LRV 1017.

# Wayside Incidents:

#### 9/2/2019 7:45:00 PM - Incident# 3195423 (0 lost trips, 6 lost minutes)

UPS General Alarm TCC and Barrington, Military and Westwood gates are being held down.

#### 9/4/2019 4:34:00 AM - Incident# 3196010 (0 lost trips, 10 lost minutes)

Interlocking: Switch Out Of Correspondence ARINC 7th and Metro SOuth interlocking, switch 12.

#### 9/13/2019 3:48:00 PM - Incident# 3200606 (0 lost trips, lost minutes)

Train 601 Track 4 Southbound T-358 (1071A)-1028-1064 States he has a reoccurring prop fault.

#### 9/13/2019 4:06:00 PM - Incident# 3200590 (1 lost trip, 144 lost minutes)

Train 620 T-546 (245A)-302-(246A) Northbound Track #3 I-10 Box Train operator states has a friction brake fault with no movement.

#### 9/13/2019 6:37:00 PM - Incident# 3200597 (2 lost trips, 275 lost minutes)

Operator reports that the train has no movement with a SLC fault.

Train 621 T-252 Cars (1014A)-1042-1065 23rd street Station, track 4, westbound

#### **9/14/2019 2:47:00 PM - Incident# 3200871 (1 lost trip, 161 lost minutes)** National, Overland, and Clarington TPSS displayed open breakers.

#### 9/19/2019 3:23:00 PM - Incident# 3203032 (1 lost trip, 133 lost minutes)

AC Breaker: Open A01 and B05 18th street TPSS

# Police & Health Incidents:

### 9/1/2019 4:20:00 AM - Incident# 3194887 (0 lost trips, 60 lost minutes)

Operator reports a car on the ROW. T-226 Tr#601 Cars(1049-1036-1070) Southbound Trk#4 Between Western Station & Grammercy Grade

#### 9/4/2019 6:47:00 AM - Incident# 3196058 (0 lost trips, 4 lost minutes)

unruly passenger, cars #(1063A)-1002-1061 Train #612 T-100 Downtown Santa Monica, track #4, Northbound.

#### 9/5/2019 8:53:00 PM - Incident# 3197061 (0 lost trips, 5 lost minutes)

Reports of altercation aboard. Train # 610 T-315 (1068A)-1019-1029 23rd Street Station, Track #4, SB

#### 9/6/2019 10:57:00 AM - Incident# 3197387 (0 lost trips, 37 lost minutes)

T-243 on train 603, car 1043A, La Brea, track 4, off platform, reported a fight between multiple individuals aboard the train.

#### 9/16/2019 5:33:00 AM - Incident# 3201200 (0 lost trips, 8 lost minutes)

T-303 reported an individual on board his train throwing shoes at another patron. T-303 Train 611 (1004)-1035-1017 Northbound, Track 4 Sepulveda Station

#### 9/17/2019 8:00:00 PM - Incident# 3202196 (3 lost trips, 398 lost minutes)

Train Delay/ 7th Metro Presidential Motorcade LAPD/ Sgt Chairez

#### 9/21/2019 2:37:00 PM - Incident# 3203774 (0 lost trips, 5 lost minutes)

Train 609 (1067,1035,1065) T-427, 7th & Metro, Track 1 reports he received a report that there is a patron who is unresponsive on board car 1067A.

#### 9/30/2019 1:42:00 PM - Incident# 3207191 (0 lost trips, 5 lost minutes)

LAPD Operator 763 reported someone aboard train 602 possibly armed with a weapon.

# Other Incidents:

## 9/3/2019 3:00:00 PM - Incident# 3195867 (0 lost trips, 14 lost minutes)

T- 296 on Train 603 reports propulsion fault and HVAC failure with a speed restriction. Train 603, cars (1020A)-1039-1050, Culver City Station, Track 4, Southbound.

### 9/7/2019 9:53:00 AM - Incident# 3197710 (0 lost trips, 10 lost minutes)

Train operator rep[orts of feces in rail car 1049B Train 607 T-296 (1049B)1053-1045 Sepulveda station, Trk. 3, Northbound

#### 9/21/2019 5:23:00 PM - Incident# 3203806 (0 lost trips, 12 lost minutes)

R-139 reports train 608 (1031,1068,1018) on track 1 at 7th & Metro has blood all over the place.

# **Unable To Duplicate:**

#### 9/15/2019 3:03:00 PM - Incident# 3201067 (0 lost trips, 14 lost minutes)

Sick Individual Train 611 T-454 Cars 1025)-1060-1053 Jefferson platform 2 northbound.

#### 9/6/2019 3:58:00 PM - Incident# 3197532 (0 lost trips, 5 lost minutes) CHARGEABLE

Operator reports that train 617 has a STL fault that later developed into a brake fault with over heating brakes and a speed restriction. Train 617 T-374 North and T-546 South Cars 1018-(1022)-1054 7 and Metro, track 1

#### 9/22/2019 5:14:00 AM - Incident# 3203897 (0 lost trips, 11 lost minutes) CHARGEABLE

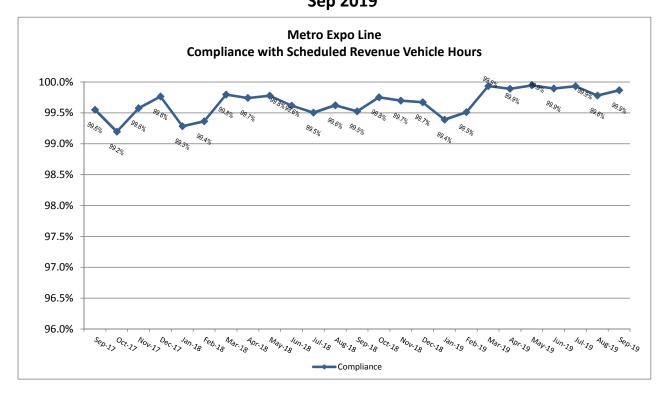
Operator T-100 reports a brake fault with no movement. T-100 Tr#604 Cars(1048B)-1016-1037 Southbound Trk#4 Between 7th Ave/Degnan Intl.

# Reset:

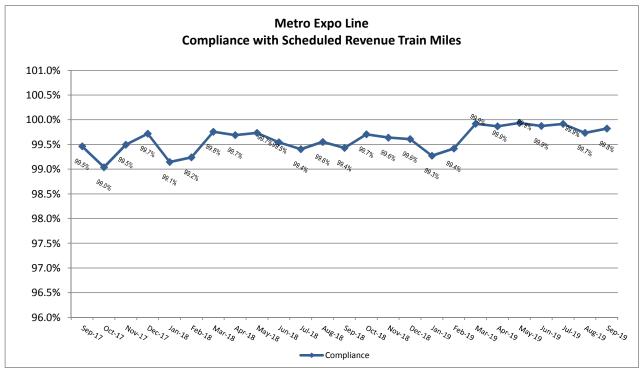
9/1/2019 2:08:00 PM - Incident# 3195035 (0 lost trips, 5 lost minutes)

Aux power (AC or MA Fault) No movement. Train 606 T-296 Cars 1033)-1037-1043 4th Santa Monica Station.

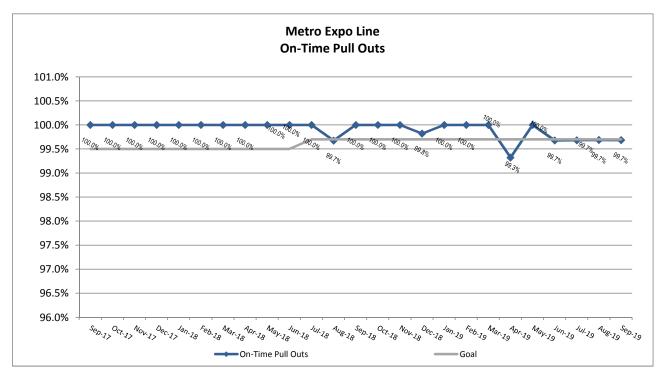
# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS COMPLIANCE WITH SCHEDULED VEHICLE HOURS Sep 2019



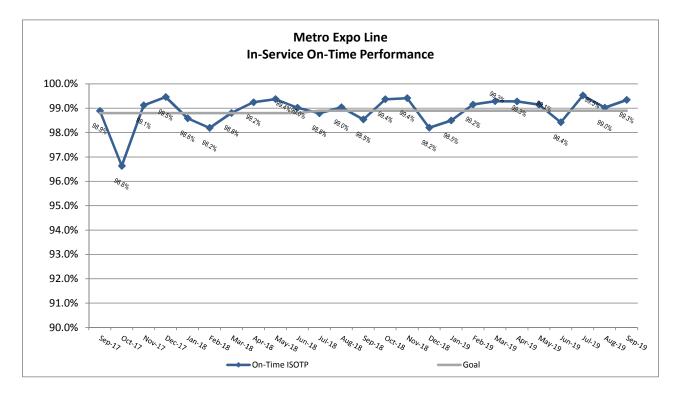
#### COMPLIANCE WITH SCHEDULED TRAIN MILES



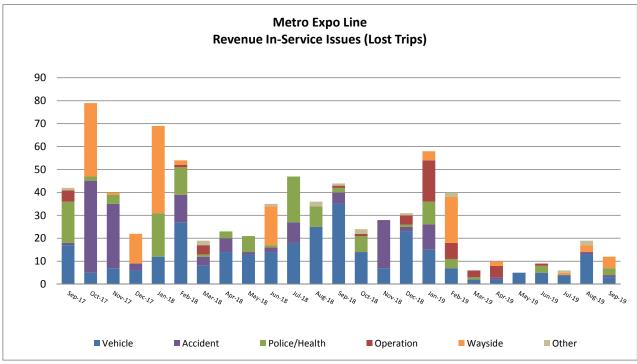
#### **ON-TIME PULL OUTS**



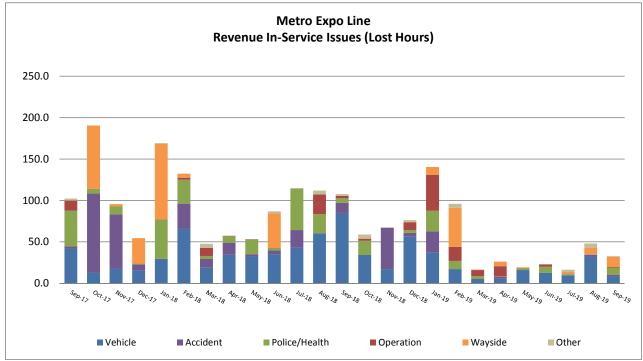
#### **IN-SERVICE ON-TIME PERFORMANCE**



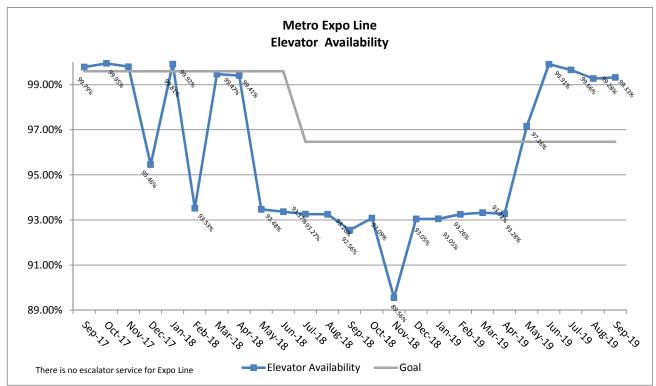
#### LOST TRIPS



#### LOST HOURS



#### VERTICAL TRANSPORTATION AVAILABILITY



Note: An elevator at Culver City Station has been out of service indefinitely.