

Los Angeles County  
Metropolitan Transportation Authority  
California

# OPERATIONS MONTHLY RAIL PERFORMANCE REPORT

JULY 2019



# METRO RAIL PERFORMANCE – JULY 2019

<b>Contents</b>	<b>Page</b>
<b>Systemwide Performance</b>	
Rail Scorecard	3
Rail Car Availability	5
Rail Mean Miles Between Major Failure by Vehicle Type	6
Fleet Distribution Report	11
Cleanliness	12
Lost Revenue Vehicle Hours by Category, by Division	13
Rail Service Performance	16
Rail Safety Performance	19
Vertical Transportation - Systemwide	21
Wayside Signals Maintenance Time To Repair	22
Wayside Administrative Key Performance Indicators	23
Workers Comp Claims	29
Lost Work Days	30
<b>Blue Line Performance</b>	
Performance Summary	31
Major Incident Detail	32
Performance Charts	34
<b>Red / Purple Line Performance</b>	
Performance Summary	38
Major Incident Detail	39
Performance Charts	44
<b>Green Line Performance</b>	
Performance Summary	47
Major Incident Detail	48
Performance Charts	52
<b>Gold Line Performance</b>	
Performance Summary	56
Major Incident Detail	57
Performance Charts	64
<b>Expo Line Performance</b>	
Performance Summary	68
Major Incident Detail	69
Performance Charts	71

## 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.

The FY20 goals shown have not been finalized. There will be slight changes which will be reflected on the August 2019 reports.

Measurement	FY 2017	FY 2018	FY 2019	FY 2020 Target	FY 2020 YTD	FYTD Status	May Month	Jun Month	Jul Month
<b>Systemwide</b>									
On-Time Pullouts	99.61%	99.68%	99.72%	99.80%	99.56%	●	99.41%	99.76%	99.56%
Mean Miles Between Chargeable Mechanical Failures <sup>3</sup>	29,711	31,146	39,034	37,615	36,692	●	38,790	36,984	36,692
In-Service On-time Performance	98.24%	98.48%	98.81%	99.10%	98.91%	●	98.88%	98.98%	98.91%
Service Delivery Ratio	99.23%	99.22%	99.56%	99.70%	99.82%	●	99.73%	99.78%	99.82%
Traffic Accidents Per 100,000 Train Miles	1.01	0.96	0.68	0.85	0.63	●	0.90	0.63	0.63
CPUC Reportable Accidents per 100,000 Train Miles	0.36	0.54	0.29	0.37	0.31	●	0.45	0.16	0.31
Passenger Accidents per 100,000 Boardings	0.023	0.022	0.014	0.010	0.027	●	0.049	0.000	0.027
Complaints per 100,000 Boardings	1.98	1.81	1.83	1.10	1.63	●	1.51	1.55	1.63
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours <sup>1,2</sup>	12.27	11.17	11.43	10.05	4.72	●	15.67	5.81	4.72
Lost Work Days per 200,000 Exposure Hours <sup>1,2</sup>	733	886	800	821.00	0	●	826	838	-
OSHA Injuries per 200,000 Exposure Hours <sup>1,2</sup>	8.53	7.61	7.23	6.43	0.00	●	7.37	1.94	-
<b>Wayside Maintenance &amp; Engineering</b>									
Past-Due Preventive Maintenance - Aging of Outstanding Work Orders	1	3	64	N/A	116	N/A	20	15	116
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	5.35	5.02	5.31	5.40	3.55	●	3.44	0.00	3.55
Lost Work Days per 200,000 Exposure Hours <sup>1</sup>	194	312	218	296	-	●	155	152	0
OSHA Injuries per 200,000 Exposure Hours <sup>1</sup>	4.01	4.01	3.84	4.13	0.00	●	3.44	0.00	0
<b>Blue Line</b>									
On-Time Pullouts	99.60%	99.39%	99.46%	99.50%	98.92%	●	-100.00%	99.44%	98.92%
Mean Miles Between Chargeable Mechanical Failures <sup>3</sup>	15,405	13,772	22,391	18,555	177,184	●	154,696	85,685	177,184
In-Service On-time Performance	96.44%	97.11%	98.13%	98.80%	99.72%	●	99.38%	99.80%	99.72%
Service Delivery Ratio	98.54%	98.42%	99.31%	99.40%	99.80%	●	99.51%	99.79%	99.80%
Traffic Accidents Per 100,000 Train Miles	2.18	1.63	1.05	1.84	3.32	●	1.90	3.43	3.32
CPUC Reportable Accidents per 100,000 Train Miles	0.71	1.03	0.38	0.40	1.66	●	0.00	1.72	1.66
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	3.01	●	0.49	3.97	3.01
New Workers' Compensation Indemnity Claims per	16.74	13.95	14.22	11.90	18.42	●	5.58	6.06	18.42
Lost Work Days per 200,000 Exposure Hours <sup>1</sup>	836	1,016	695	953	-	●	489	787	-
OSHA Injuries per 200,000 Exposure Hours <sup>1</sup>	10.40	8.10	5.96	5.93	-	●	0.00	6.06	-

<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.

● 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

Measurement	FY 2017	FY 2018	FY 2019	FY 2020 Target	FY 2020 YTD	FYTD Status	May Month	Jun Month	Jul Month
<b>Red Line</b>									
On-Time Pullouts	99.95%	99.88%	99.85%	100.00%	99.61%	●	100.00%	100.00%	99.61%
Mean Miles Between Chargeable Mechanical Failures <sup>3</sup>	104,637	68,407	58,255	94,035	41,176	●	40,739	49,128	41,176
In-Service On-time Performance	99.39%	99.33%	99.41%	99.70%	99.46%	●	99.41%	99.23%	99.46%
Service Delivery Ratio	99.72%	99.65%	99.73%	100.00%	99.72%	●	99.84%	99.81%	99.72%
Traffic Accidents Per 100,000 Train Miles	0.57	0.64	0.57	0.57	0.00	●	0.83	0.87	0.00
CPUC Reportable Accidents per 100,000 Train Miles	0.14	0.21	0.28	0.21	0.00	●	0.83	0.00	0.00
Passenger Accidents per 100,000 Boardings	0.004	0.000	0.002	0.000	0.029	●	0.000	0.000	0.029
Complaints per 100,000 Boardings	1.19	1.16	1.35	0.55	0.66	●	0.81	1.07	0.66
New Workers' Compensation Indemnity Claims per	12.68	11.80	14.74	10.80	5.70	●	28.53	11.79	5.70
*Lost Work Days per 200,000 Exposure Hours	992	827	755	809	-	●	1,080	846	-
*OSHA Injuries per 200,000 Exposure Hours	7.52	4.99	9.67	3.89	-	●	17.12	0.00	-

<b>Green Line</b>									
On-Time Pullouts	99.69%	99.59%	99.85%	99.70%	99.08%	●	100.00%	99.32%	99.08%
Mean Miles Between Chargeable Mechanical Failures <sup>3</sup>	16,375	21,614	22,144	22,562	24,773	●	18,353	24,218	24,773
In-Service On-time Performance	98.69%	98.72%	98.76%	99.00%	98.01%	●	98.22%	98.84%	98.01%
Service Delivery Ratio	99.61%	99.38%	99.70%	100.00%	99.86%	●	99.71%	99.59%	99.86%
Traffic Accidents Per 100,000 Train Miles	0.48	0.34	0.25	0.35	0.00	●	0.73	0.00	0.00
CPUC Reportable Accidents per 100,000 Train Miles	0.07	0.00	0.06	0.40	0.00	●	0.73	0.00	0.00
Passenger Accidents per 100,000 Boardings	0.048	0.010	0.021	0.010	0.000	●	0.137	0.000	0.000
Complaints per 100,000 Boardings	2.08	1.69	2.08	1.20	2.64	●	1.64	2.53	2.64
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	9.14	12.87	6.82	11.52	0.00	●	9.09	0.00	0.00
*Lost Work Days per 200,000 Exposure Hours	712	984	1,321	930	-	●	1,159	1,019	-
*OSHA Injuries per 200,000 Exposure Hours	6.65	9.84	5.31	8.70	-	●	9.09	0.00	-

<b>Gold Line</b>									
On-Time Pullouts	99.82%	99.84%	99.58%	100.00%	99.87%	●	98.27%	100.00%	99.87%
Mean Miles Between Chargeable Mechanical Failures <sup>3</sup>	38,427	43,588	40,584	49,303	24,637	●	35,787	29,775	24,637
In-Service On-time Performance	97.61%	98.19%	98.50%	98.80%	97.40%	●	97.90%	98.44%	97.40%
Service Delivery Ratio	98.88%	99.07%	99.39%	99.50%	99.84%	●	99.57%	99.72%	99.84%
Traffic Accidents Per 100,000 Train Miles	0.61	0.55	0.55	0.51	0.91	●	0.83	0.45	0.91
CPUC Reportable Accidents per 100,000 Train Miles	0.25	0.26	0.25	0.40	0.46	●	0.42	0.00	0.46
Passenger Accidents per 100,000 Boardings	0.030	0.086	0.044	0.010	0.082	●	0.229	0.000	0.082
Complaints per 100,000 Boardings	2.77	2.65	2.71	1.80	3.26	●	2.90	2.28	3.26
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	14.31	14.24	14.15	11.67	0.00	●	25.50	16.37	0.00
*Lost Work Days per 200,000 Exposure Hours	1,055	1,146	1,391	993	-	●	1,745	1,840	-
*OSHA Injuries per 200,000 Exposure Hours	9.69	11.87	10.61	8.94	-	●	10.20	5.46	-

<b>Expo Line</b>									
On-Time Pullouts	98.76%	99.71%	99.87%	99.70%	99.68%	●	100.00%	99.68%	99.68%
Mean Miles Between Chargeable Mechanical Failures <sup>3</sup>	33,402	57,013	93,728	49,557	81,986	●	88,034	41,190	81,986
In-Service On-time Performance	98.48%	98.72%	98.93%	98.90%	99.52%	●	99.15%	98.42%	99.52%
Service Delivery Ratio	99.46%	99.54%	99.67%	99.80%	99.92%	●	99.91%	99.89%	99.92%
Traffic Accidents Per 100,000 Train Miles	1.26	1.78	1.19	1.26	0.00	●	0.83	0.00	0.00
CPUC Reportable Accidents per 100,000 Train Miles	0.63	1.30	0.56	0.40	0.00	●	0.00	0.00	0.00
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	1.72	●	2.38	1.10	1.72
New Workers' Compensation Indemnity Claims per	19.26	12.57	16.21	11.84	0.00	●	30.04	0.00	0.00
*Lost Work Days per 200,000 Exposure Hours	887	1,470	980	1,343	-	●	783	790	-
*OSHA Injuries per 200,000 Exposure Hours	16.60	9.92	9.73	9.92	-	●	7.51	-	-

\* There is One Month lag in reporting this data

<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.

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

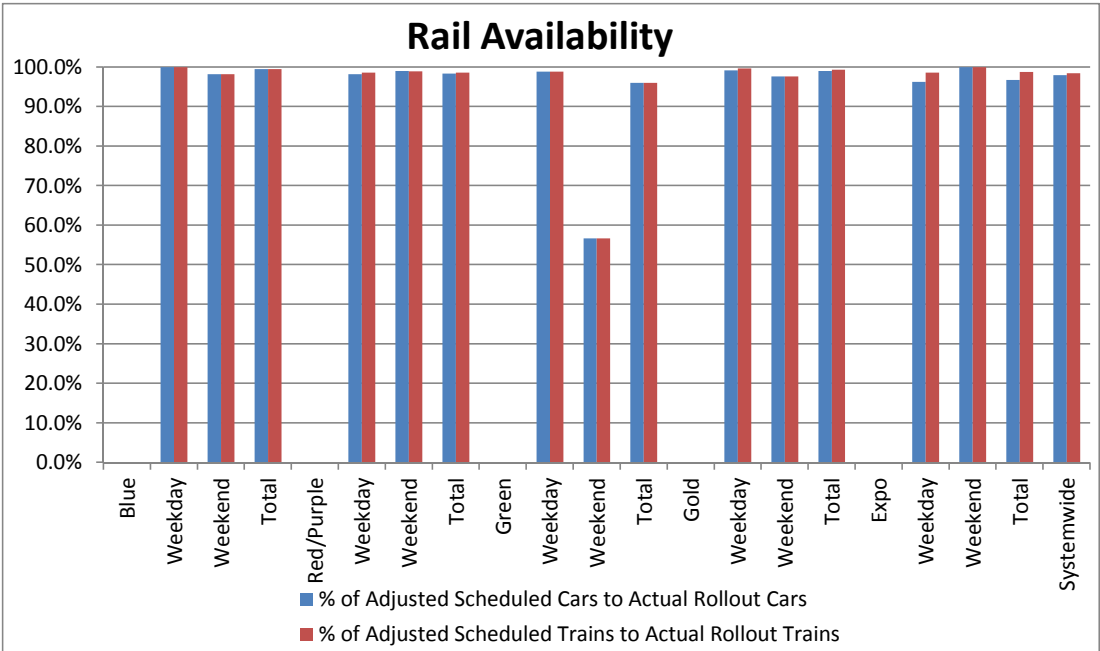
● Red - High probability that the target will not be achieved -- significant problems and/or delays. Falls below Target >70%.

N/A = Not Available

# Vehicle Availability

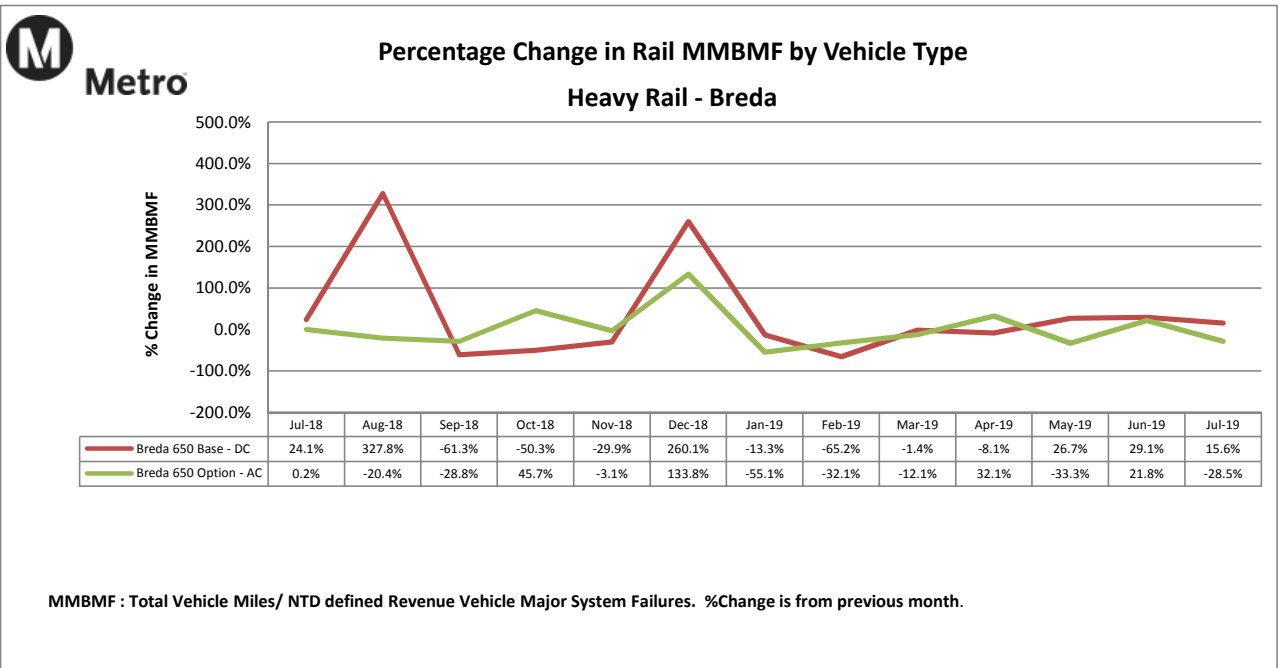
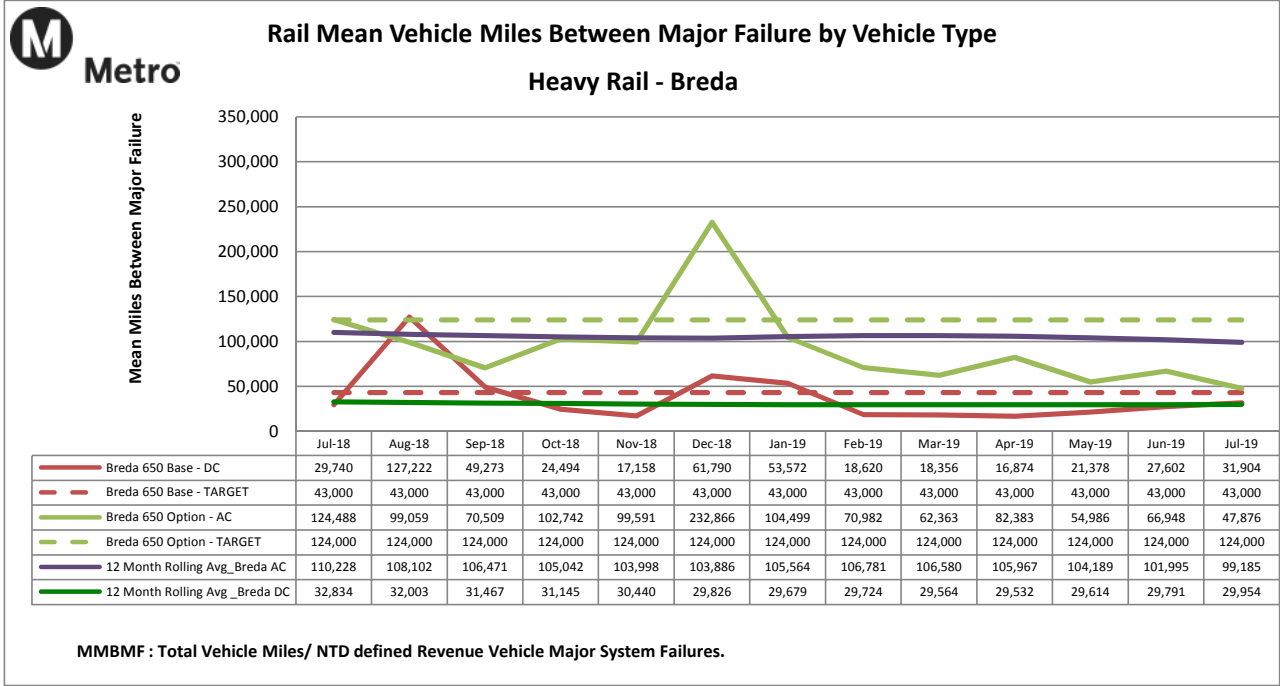
**Jul 2019**

Day Type	% of Adjusted Scheduled Cars to Actual Rollout Cars	% of Adjusted Scheduled Trains to Actual Rollout Trains
<b>Blue</b>		
Weekday	100.00%	100.00%
Weekend	98.15%	98.15%
Total	99.46%	99.46%
<b>Red/Purple</b>		
Weekday	98.20%	98.56%
Weekend	98.98%	98.89%
Total	98.31%	98.62%
<b>Green</b>		
Weekday	98.80%	98.80%
Weekend	56.67%	56.67%
Total	95.98%	95.98%
<b>Gold</b>		
Weekday	99.19%	99.68%
Weekend	97.62%	97.62%
Total	99.01%	99.33%
<b>Expo</b>		
Weekday	96.24%	98.55%
Weekend	100.00%	100.00%
Total	96.73%	98.73%
Systemwide	97.95%	98.45%



# METRO RAIL PERFORMANCE – JULY 2019

## Rail Performance by Vehicle Type



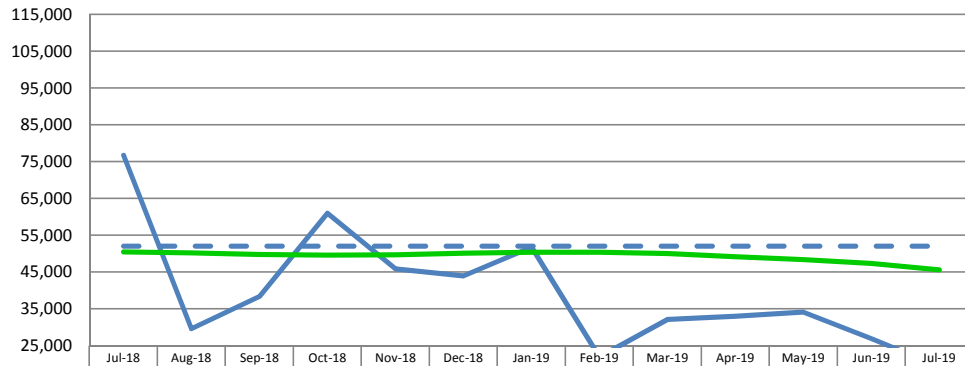


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### Rail Mean Vehicle Miles Between Major Failure by Vehicle Type

#### Light Rail - Breda

Mean Miles Between Major Failure



	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19
— AnsaldoBreda 2550 Base - AC	76,730	29,623	38,403	60,989	45,884	43,889	51,768	21,949	32,069	32,976	34,128	26,913	19,321
- - AnsaldoBreda 2550 Base - TARGET	52,000	52,000	52,000	52,000	52,000	52,000	52,000	52,000	52,000	52,000	52,000	52,000	52,000
— 12 Month Rolling Avg AnsaldoBreda2550Base - AC	50,429	50,179	49,789	49,586	49,710	50,097	50,339	50,411	50,011	49,160	48,395	47,296	45,542

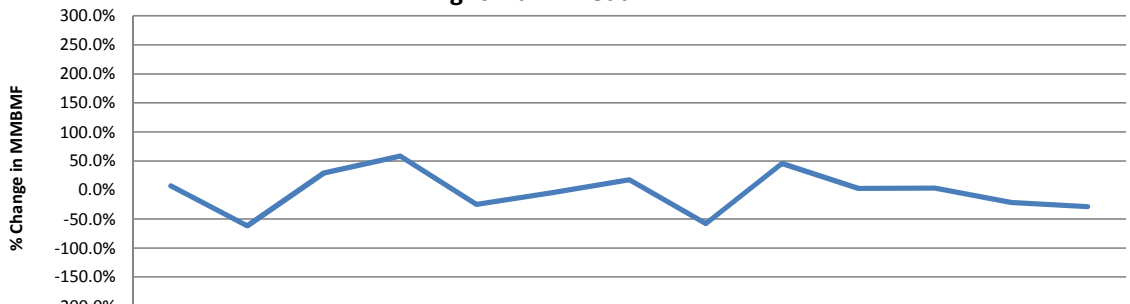
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



**Metro**

### Percentage Change in Rail MMBMF by Vehicle Type

#### Light Rail - Breda



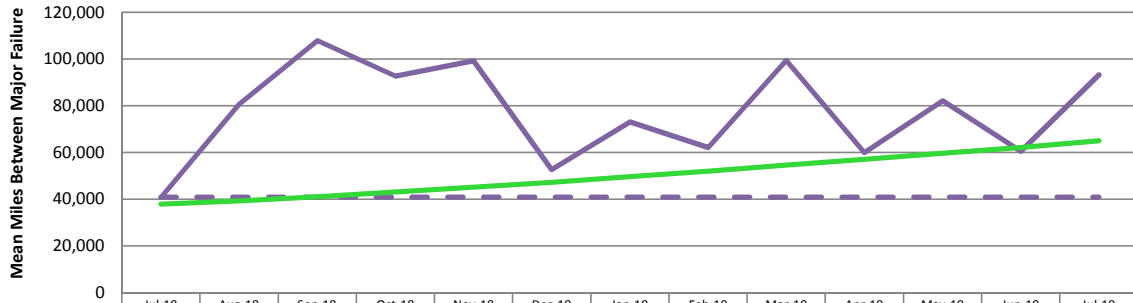
	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19
— AnsaldoBreda 2550 Base - AC	7.5%	-61.4%	29.6%	58.8%	-24.8%	-4.3%	18.0%	-57.6%	46.1%	2.8%	3.5%	-21.1%	-28.2%

MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures. %Change is from previous month.



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### Rail Mean Vehicle Miles Between Major Failure by Vehicle Type Light Rail - KinkiSharyo



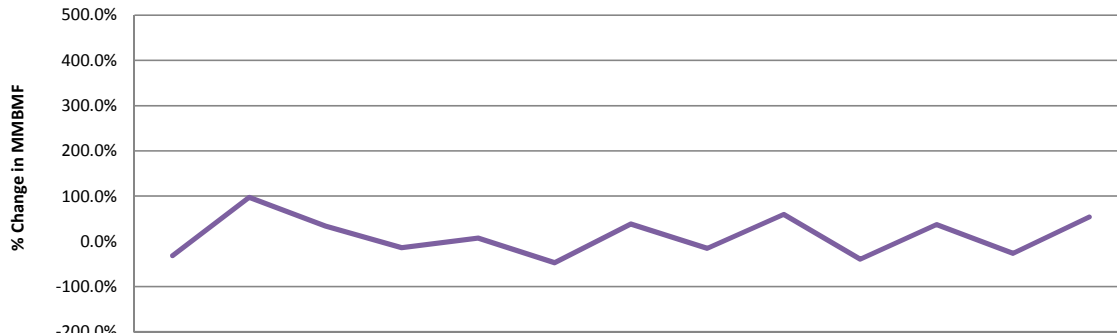
	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19
KinkiSharyo P3010 *	40,836	80,639	107,909	92,771	99,289	52,753	73,160	62,116	99,363	60,035	82,231	60,577	93,250
KinkiSharyo P3010 - TARGET	41,000	41,000	41,000	41,000	41,000	41,000	41,000	41,000	41,000	41,000	41,000	41,000	41,000
12 Month Rolling Avg Kinkisharyo P3010	37,880	39,237	41,041	43,081	45,127	47,286	49,760	52,080	54,615	57,102	59,695	62,225	65,092

MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



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### Percentage Change in Rail MMBMF by Vehicle Type Light Rail - KinkiSharyo



	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19
KinkiSharyo P3010 *	-31.6%	97.5%	33.8%	-14.0%	7.0%	-46.9%	38.7%	-15.1%	60.0%	-39.6%	37.0%	-26.3%	53.9%

MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures. %Change is from previous month.

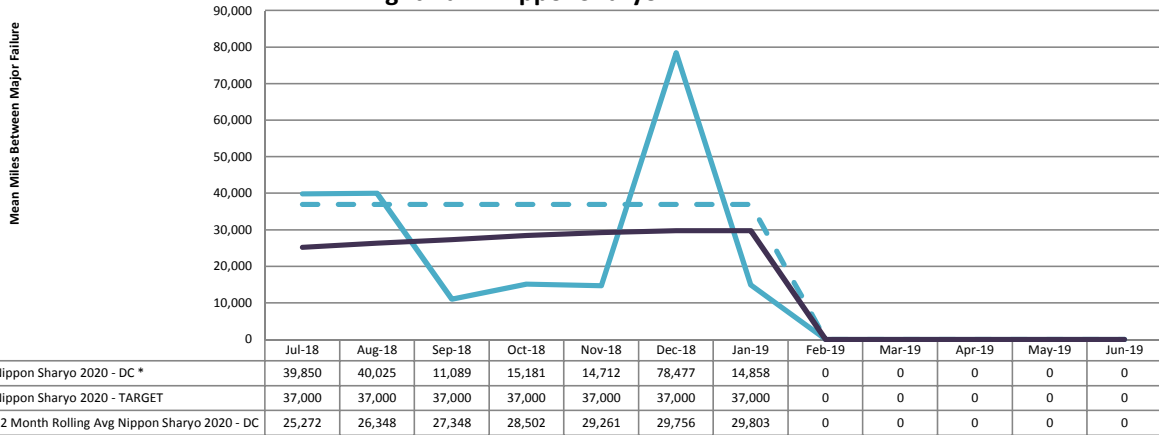




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### Rail Mean Vehicle Miles Between Major Failure by Vehicle Type

#### Light Rail - NipponSharyo



\* Nippon Sharyo 2020 Cars did not operate starting in February 2019

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

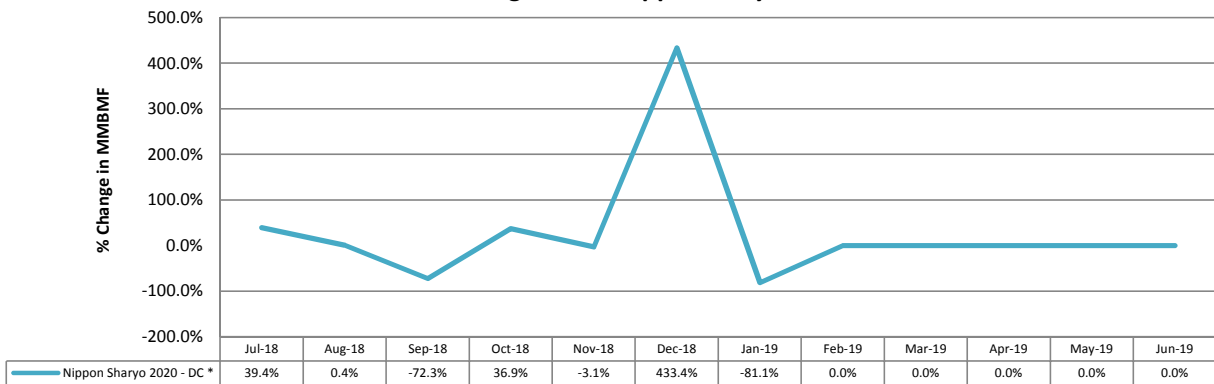
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



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### Percentage Change in Rail MMBMF by Vehicle Type

#### Light Rail - NipponSharyo



\* Nippon Sharyo 2020 did not operate starting in February 2019

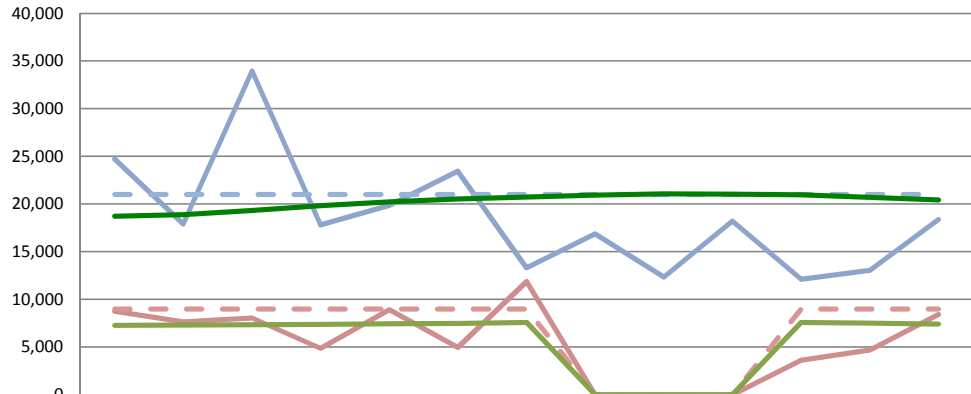
\*\* Nippon Sharyo 865 -DC Cars have been retired starting September 2018

MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures. %Change is from previous month.



### Rail Mean Vehicle Miles Between Major Failures by Vehicle Type Light Rail - Siemens

Mean Miles Between Major Failure



	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19
Siemens 2000 Base - AC	24,742	17,919	33,989	17,816	19,888	23,455	13,310	16,886	12,338	18,216	12,118	13,056	18,410
Siemens 2000 Base - TARGET	21,000	21,000	21,000	21,000	21,000	21,000	21,000	21,000	21,000	21,000	21,000	21,000	21,000
Siemens 2000 GE/ATP - AC **	8,775	7,657	8,052	4,877	8,911	4,963	11,882	0	0	0	3,607	4,711	8,422
Siemens 2000 GE/ATP - TARGET **	9,000	9,000	9,000	9,000	9,000	9,000	9,000	0	0	0	9,000	9,000	9,000
12 Month Rolling Avg - Siemens 2000 Base - AC	18,719	18,906	19,320	19,841	20,254	20,547	20,746	20,962	21,085	21,055	20,982	20,708	20,446
12 Month Rolling Avg - Siemens 2000 GE/ATP - AC	7,295	7,313	7,356	7,382	7,450	7,496	7,573	0	0	0	7,591	7,527	7,414

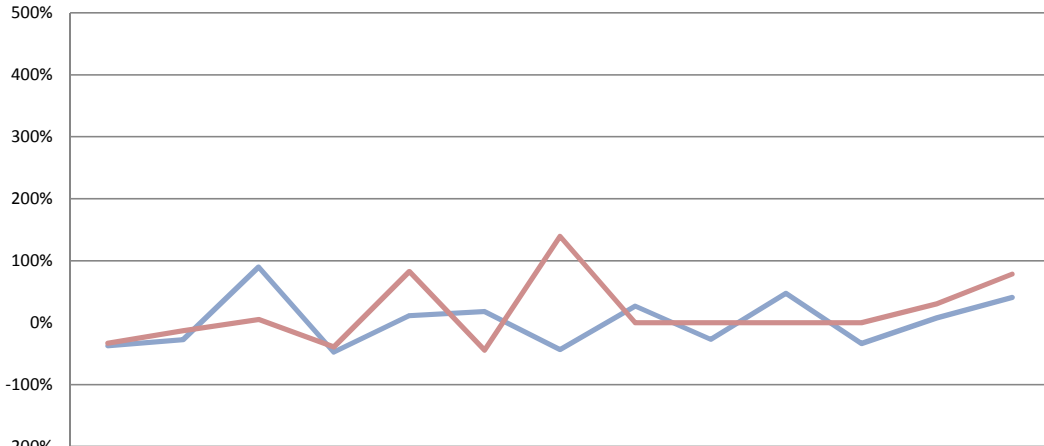
\*\* The Siemens 2000 GE/ATP AC cars did not operate starting in February 2019 and resumed in May 2019.

MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



### Percentage Change in Rail MMBMF by Vehicle Type Light Rail - Siemens

% Change in MMBMF



	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19
Siemens 2000 Base - AC	-37.5%	-27.6%	89.7%	-47.6%	11.6%	17.9%	-43.3%	26.9%	-26.9%	47.6%	-33.5%	7.7%	41.0%
Siemens 2000 GE/ATP - AC **	-33.2%	-12.7%	5.1%	-39.4%	82.7%	-44.3%	139.4%	0.0%	0.0%	0.0%	0.0%	30.6%	78.8%

\*\* The Siemens 2000 GE/ATP AC cars did not operate starting in February 2019.

MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures. %Change is from previous month.

### Mean Miles Between Major Failures

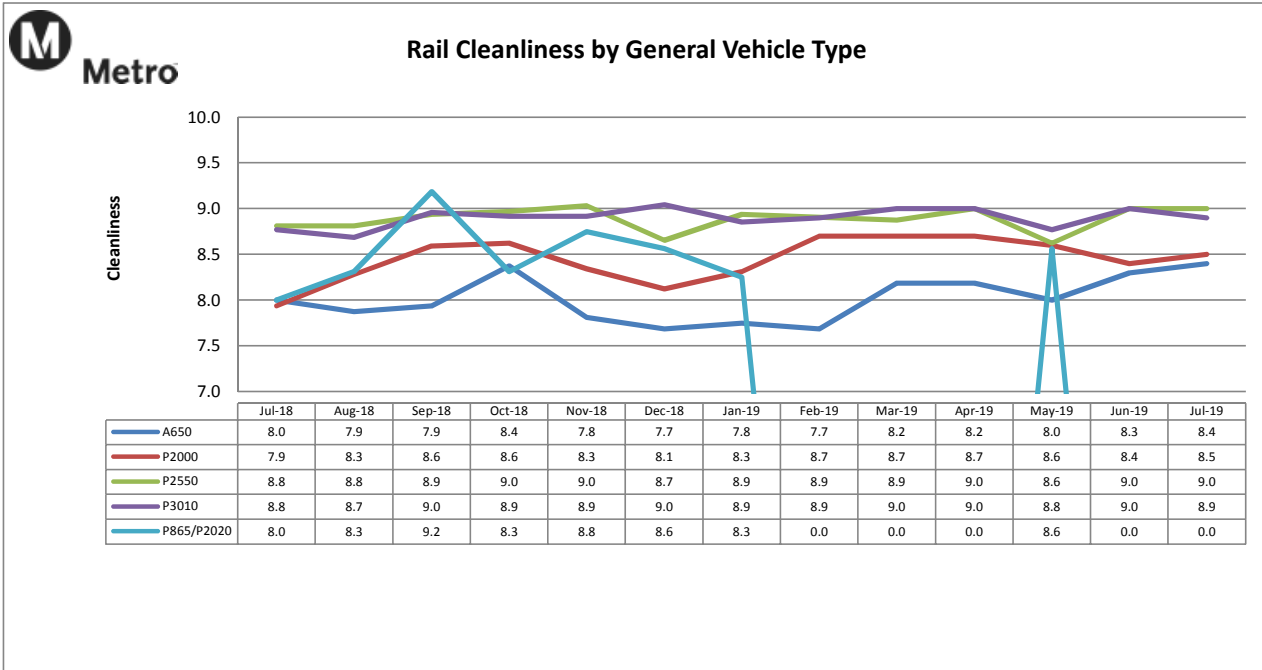
	FY 2019	FY2020 Goal	FY2020 YTD
AnsaldoBreda2550Base - AC	37,825	52,000	19,321
Breda 650 Base - DC	27,943	43,000	31,904
Breda 650 Option - AC	85,062	124,000	47,876
Kinkisharyo P3010	70,566	41,000	93,250
Nippon Sharyo 2020 - DC	21,405	37,000	0
Nippon Sharyo 865 - DC	0	24,000	0**
Siemens 2000 Base - AC	17,841	21,000	18,410
Siemens 2000 GE/ATP - AC	6,920	9,000	8,422

\*\* retired in September 2018

### Rail Fleet Distribution – MAY 2019

Number of Rail Vehicle Type by Division	Blue	Red / Purple	Green	Gold	Expo	Total
AnsaldoBreda 2550 Base - AC				50		50
Breda 650 Base - DC		30				30
Breda 650 Option - AC		68				68
KinkiSharyo P3010	54		22	46	56	178
Nippon Sharyo 2020 - DC	15					15
0						0
Siemens 2000 Base - AC	7				15	22
Siemens 2000 GE/ATP - AC			20			20
<b>TOTALS</b>	76	98	42	96	71	383

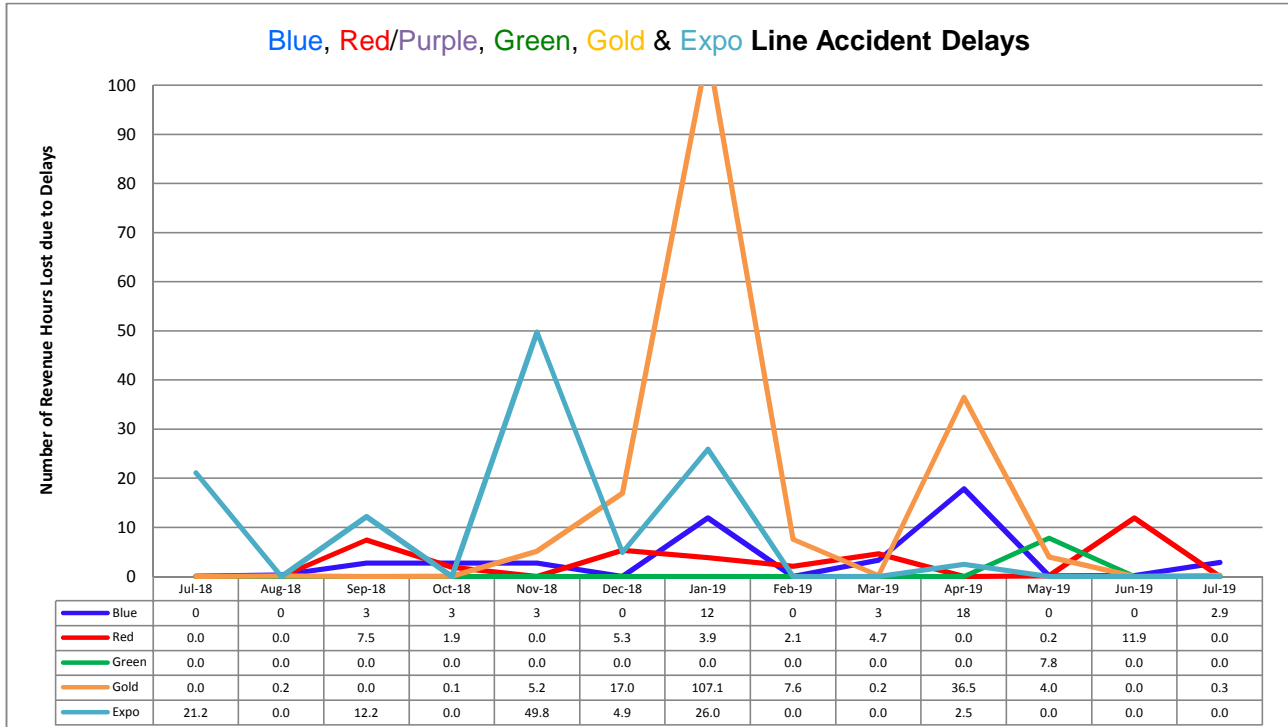
## Cleanliness by Vehicle Type Jul 2019



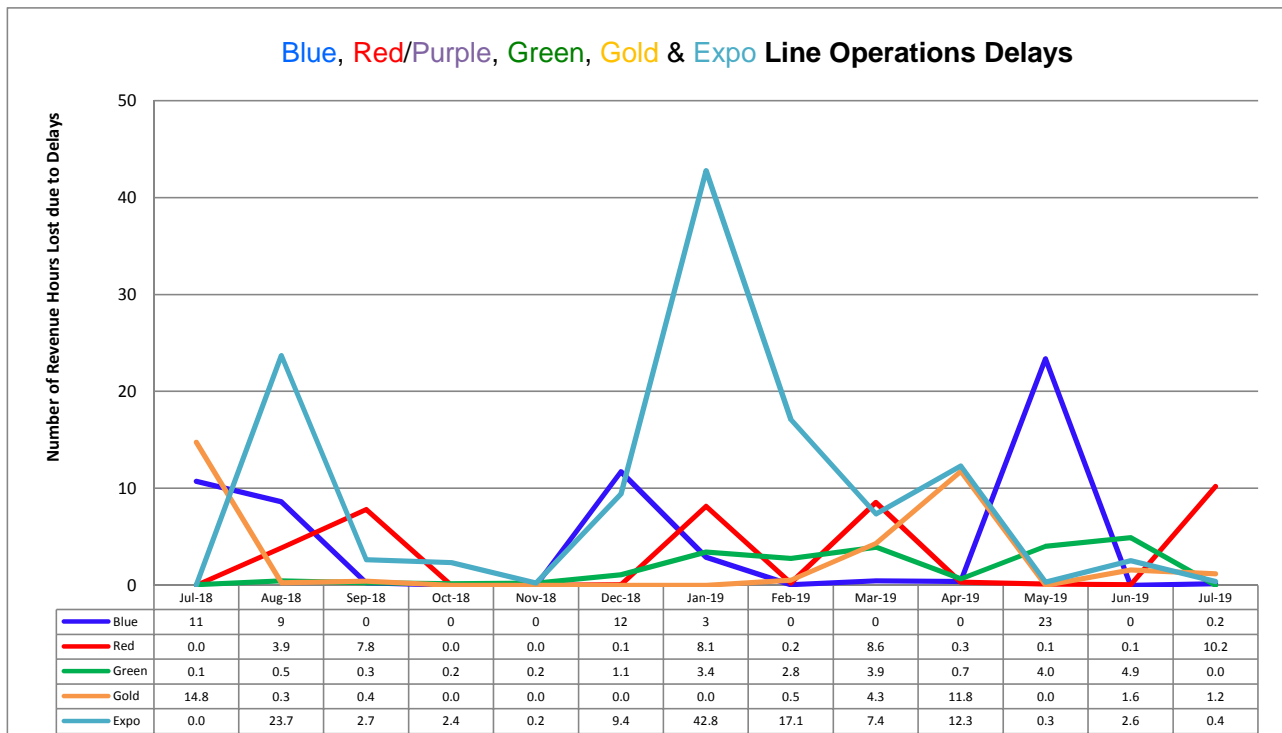
## RAIL DELAYS BY CATEGORY - SYSTEMWIDE

Revenue Hours Lost Related to - ACCIDENTS

Jul 2019

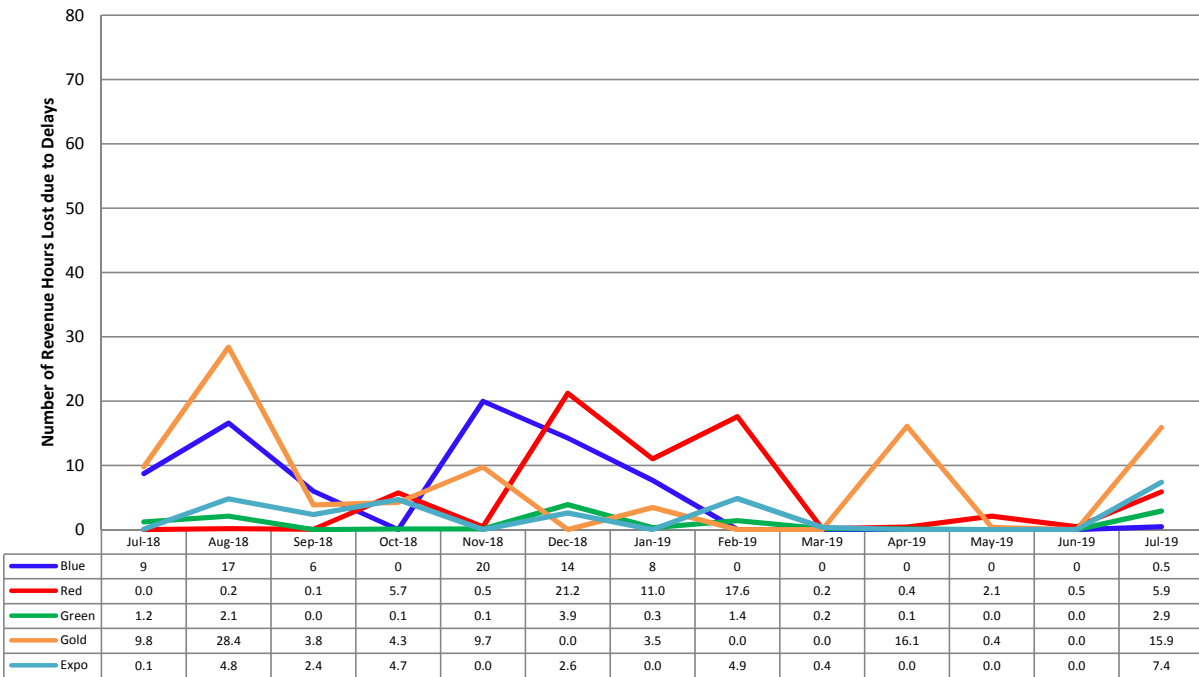


## Revenue Hours Lost Related to - OPERATIONS



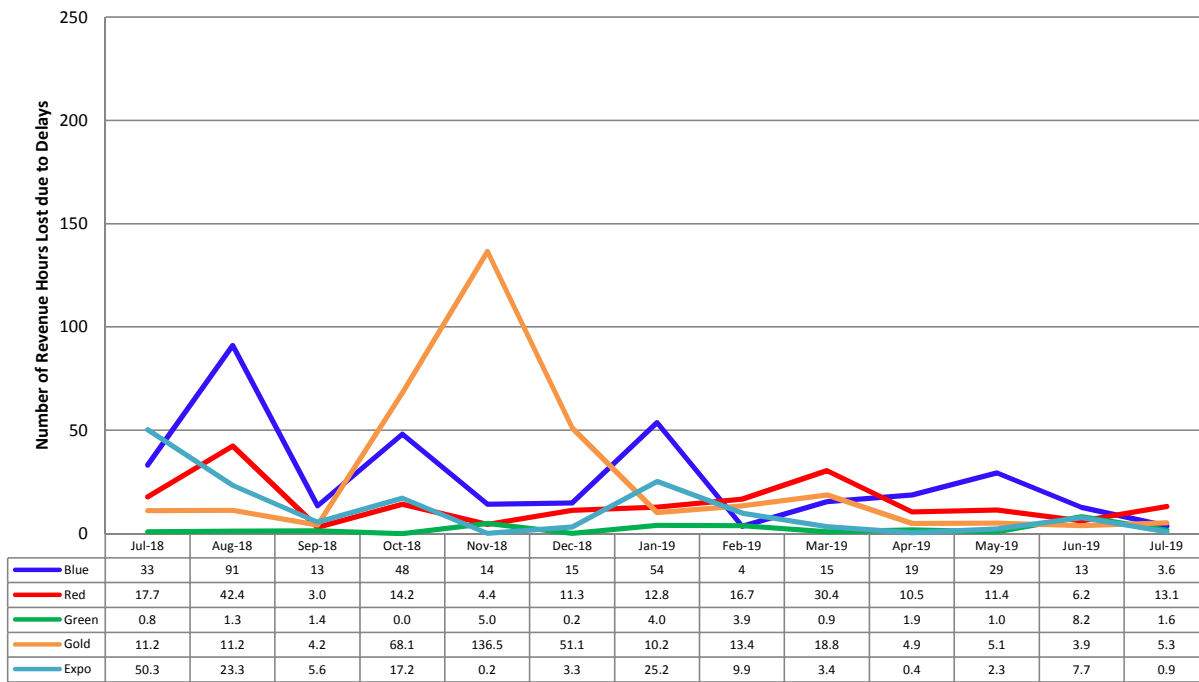
### Revenue Hours Lost Related to - OTHER

Blue, Red/Purple, Green, Gold & Expo Line Other Delays



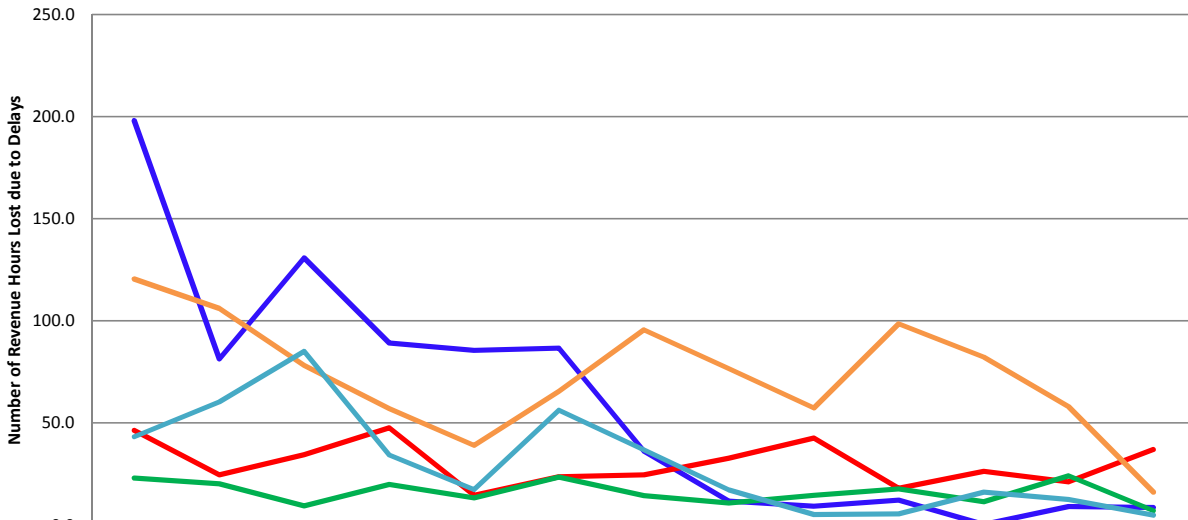
### Revenue Hours Lost Related to - POLICE & HEALTH

Blue, Red/Purple, Green, Gold & Expo Line Police & Health Delays



### Revenue Hours Lost Related to - Vehicle Delays

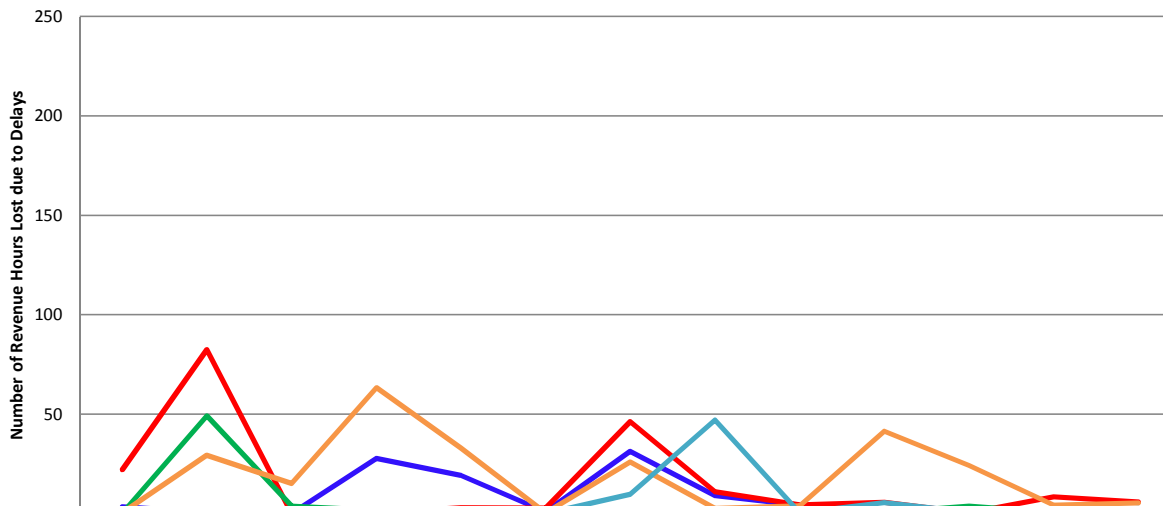
Blue, Red/Purple, Green, Gold & Expo Line Vehicle Delays



	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19
Blue	198.1	81.3	130.9	89.2	85.5	86.7	36.2	11.8	9.3	12.3	0.3	9.1	8.7
Red	46.3	24.6	34.5	47.6	14.7	23.6	24.6	32.8	42.6	18.0	26.3	21.1	37.1
Green	23.1	20.2	9.4	19.9	13.4	23.5	14.5	10.8	14.6	17.7	11.5	24.2	7.1
Gold	120.5	106.1	78.3	57.0	39.0	65.6	95.7	76.7	57.3	98.6	82.4	57.9	16.2
Expo	43.2	60.3	85.0	34.3	17.4	56.2	36.9	17.2	5.2	5.5	16.1	12.6	4.8

### Revenue Hours Lost Related to - WAYSIDE

Blue, Red/Purple, Green, Gold & Expo Line Wayside Delays

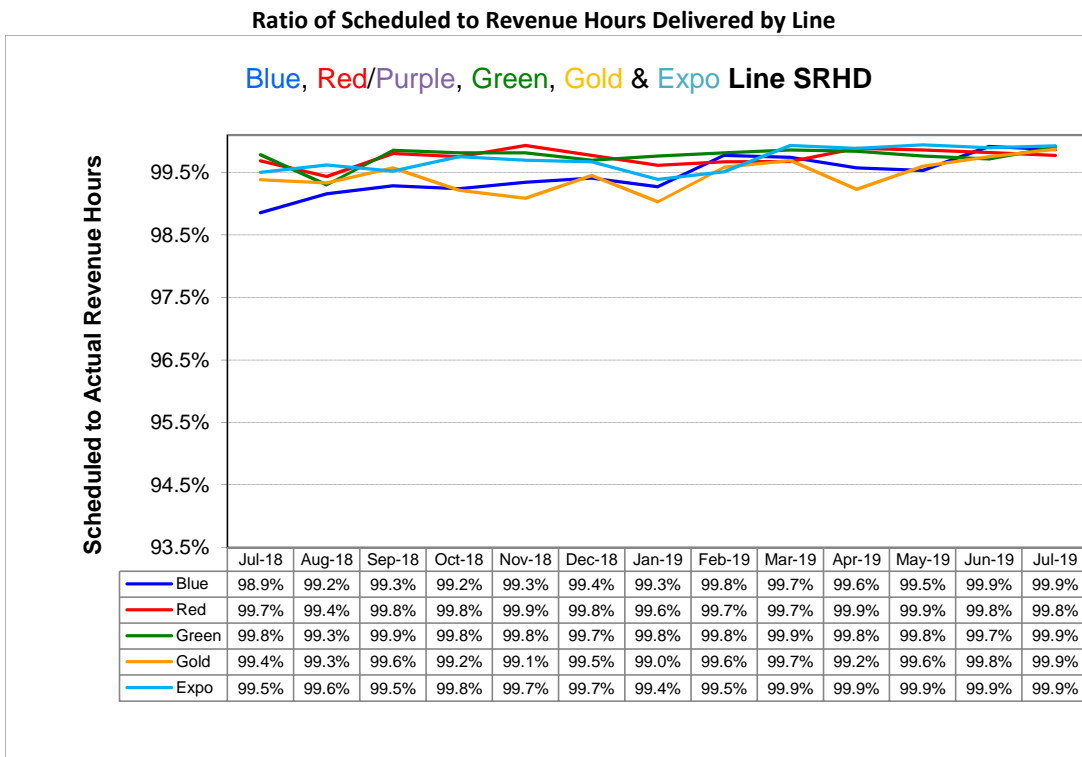
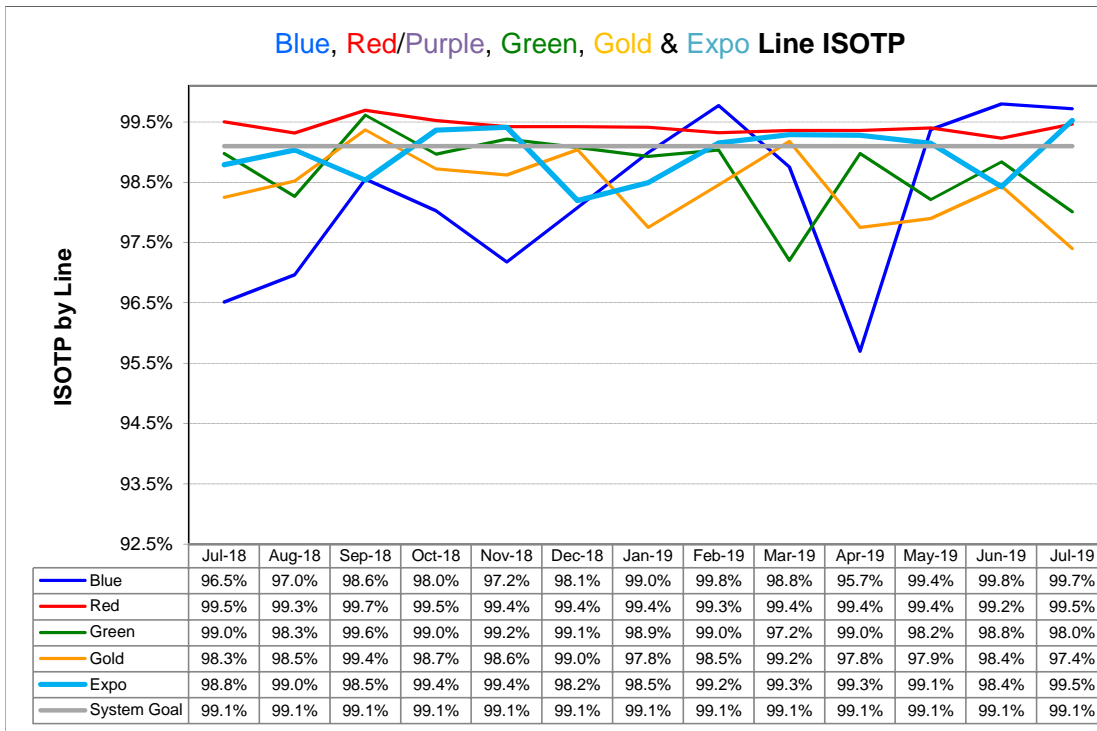


	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19
Blue	4	1	0	28	19	1	31	9	4	1	1	0	0.2
Red	22.1	82.5	0.1	0.4	2.9	2.9	46.2	11.0	4.4	5.6	0.3	8.4	5.9
Green	0.2	49.1	3.8	1.6	1.1	2.2	0.1	2.3	0.9	0.6	3.7	0.6	1.1
Gold	0.3	29.3	15.2	63.3	32.8	0.3	26.0	2.6	3.9	41.5	24.1	4.3	5.3
Expo	0.0	0.0	0.0	0.4	0.0	0.0	9.7	47.0	0.4	5.5	0.6	0.3	2.7

## Rail Service Performance

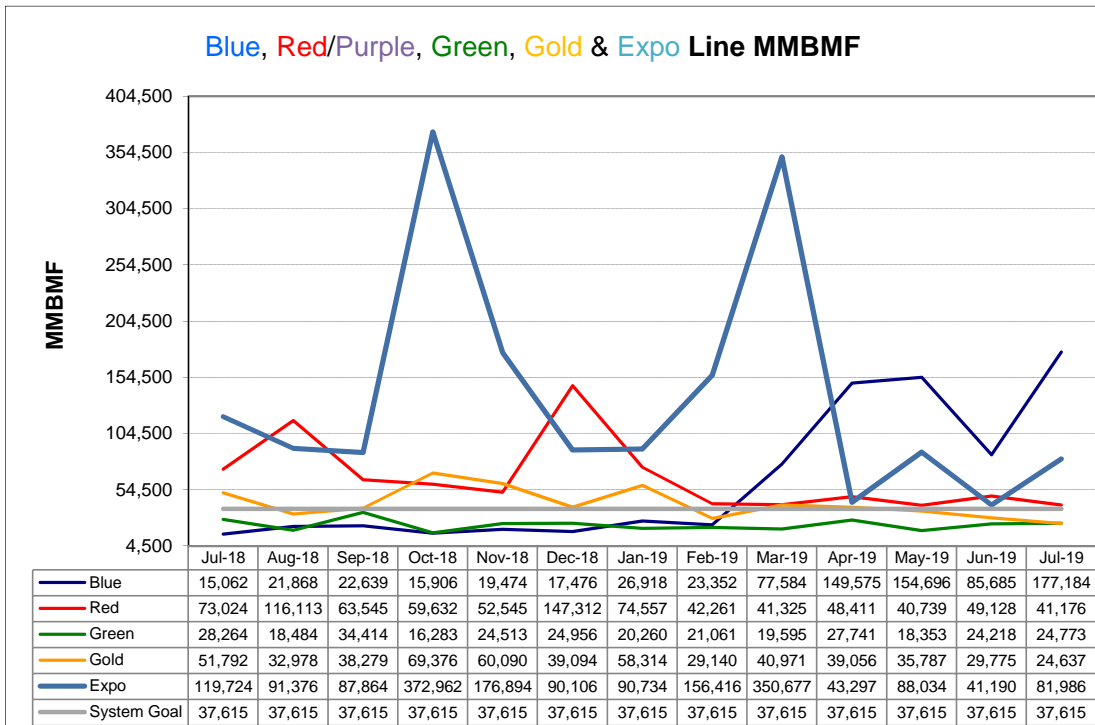
### In Service On Time Performance by Line

#### Jul 2019

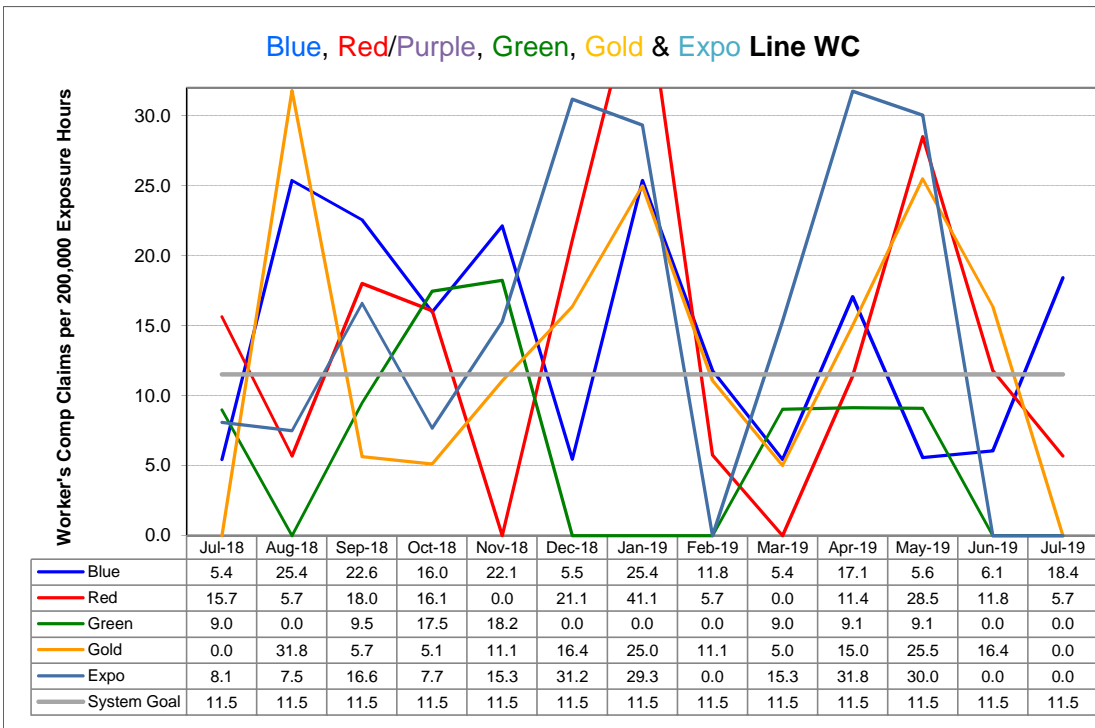




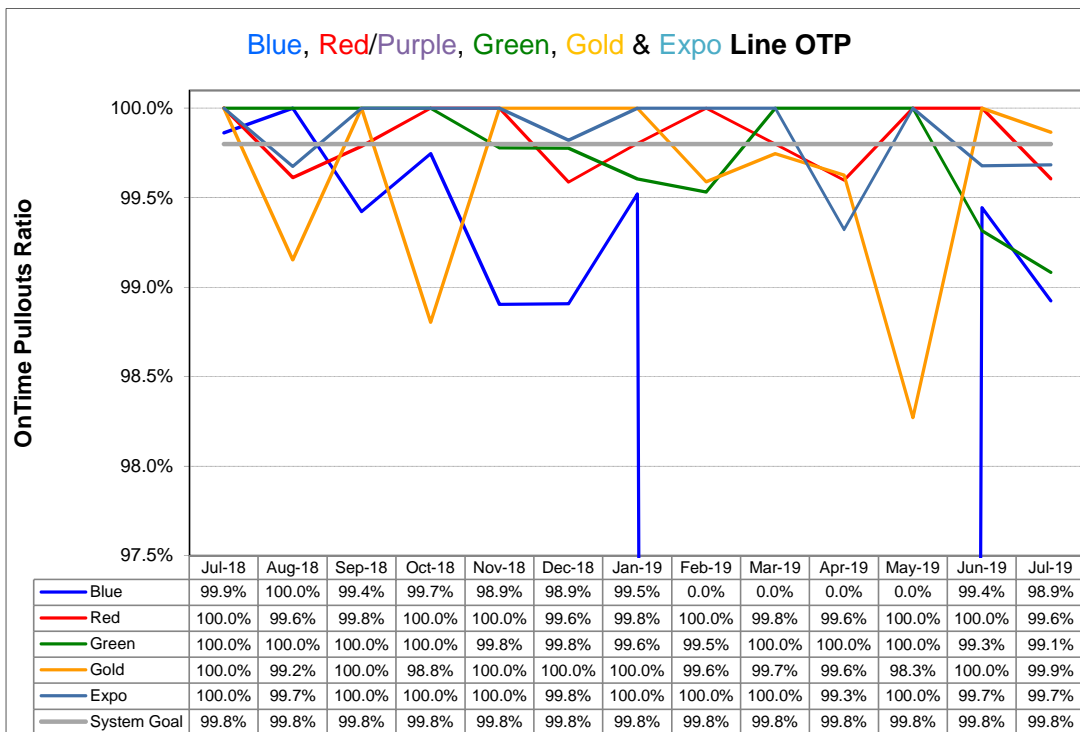
### Mean Miles Between Mechanical Failures by Line



### Workers Comp Claims by Line



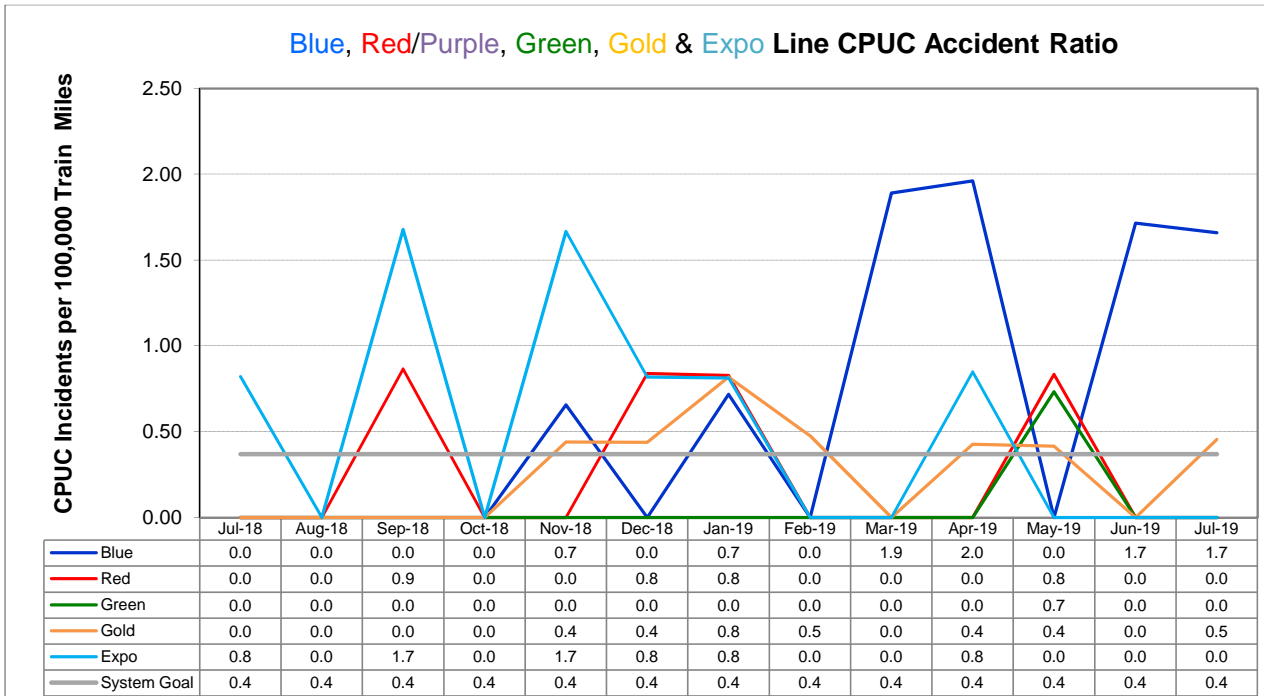
On-Time Pullouts Ratio by Line



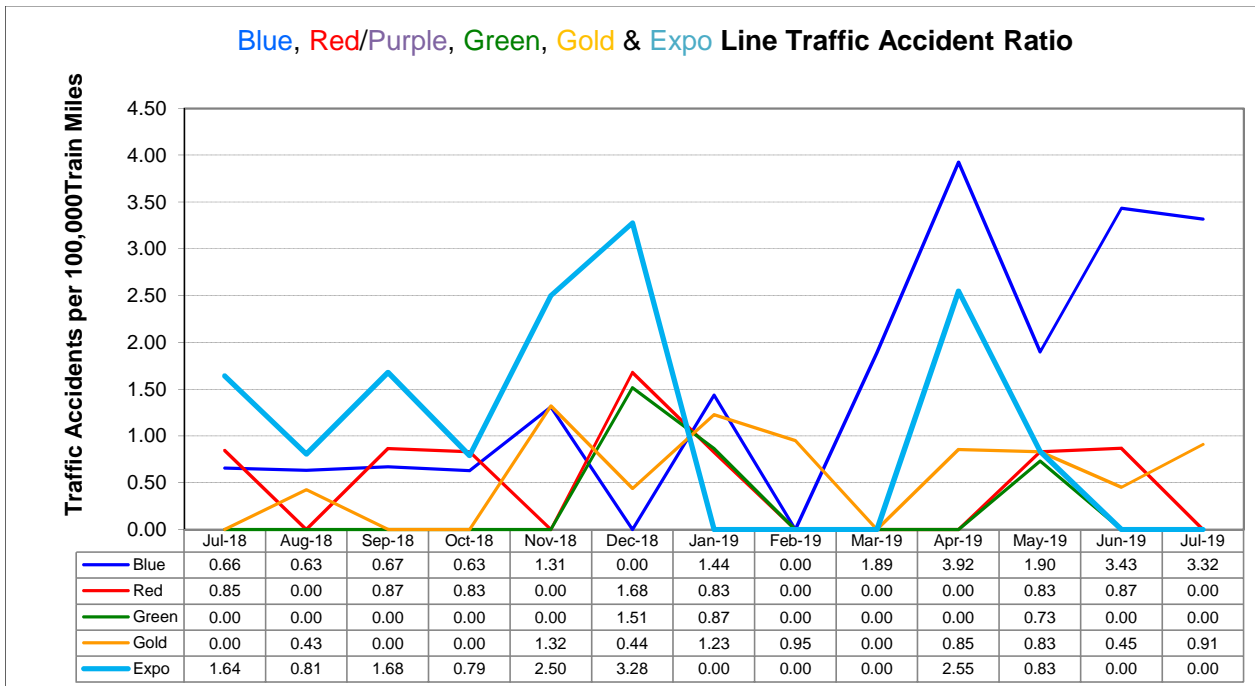
## Rail Safety Performance

### CPUC REPORTABLE INCIDENTS PER 100,000 TRAIN MILES

Jul 2019



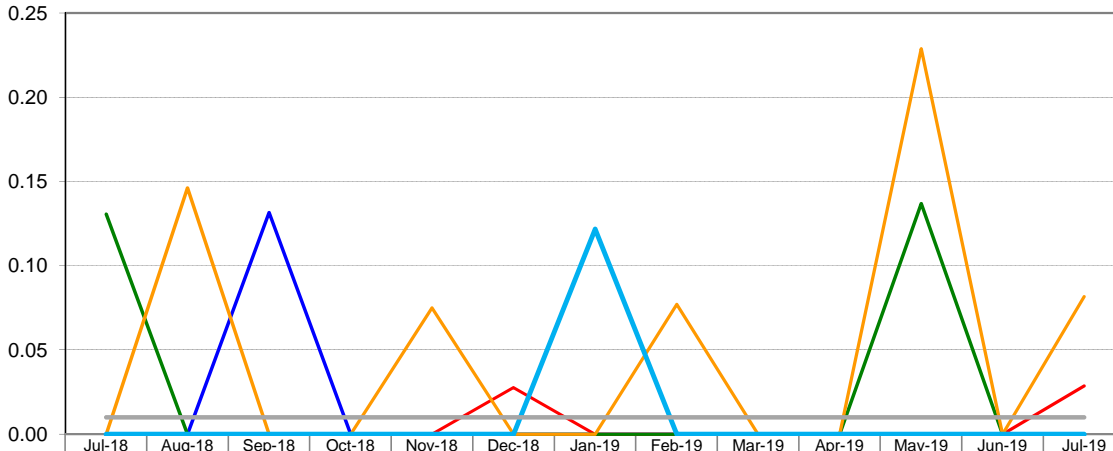
### TRAFFIC ACCIDENTS PER 100,000 TRAIN MILES



### PASSENGER ACCIDENTS PER 100,000 BOARDINGS

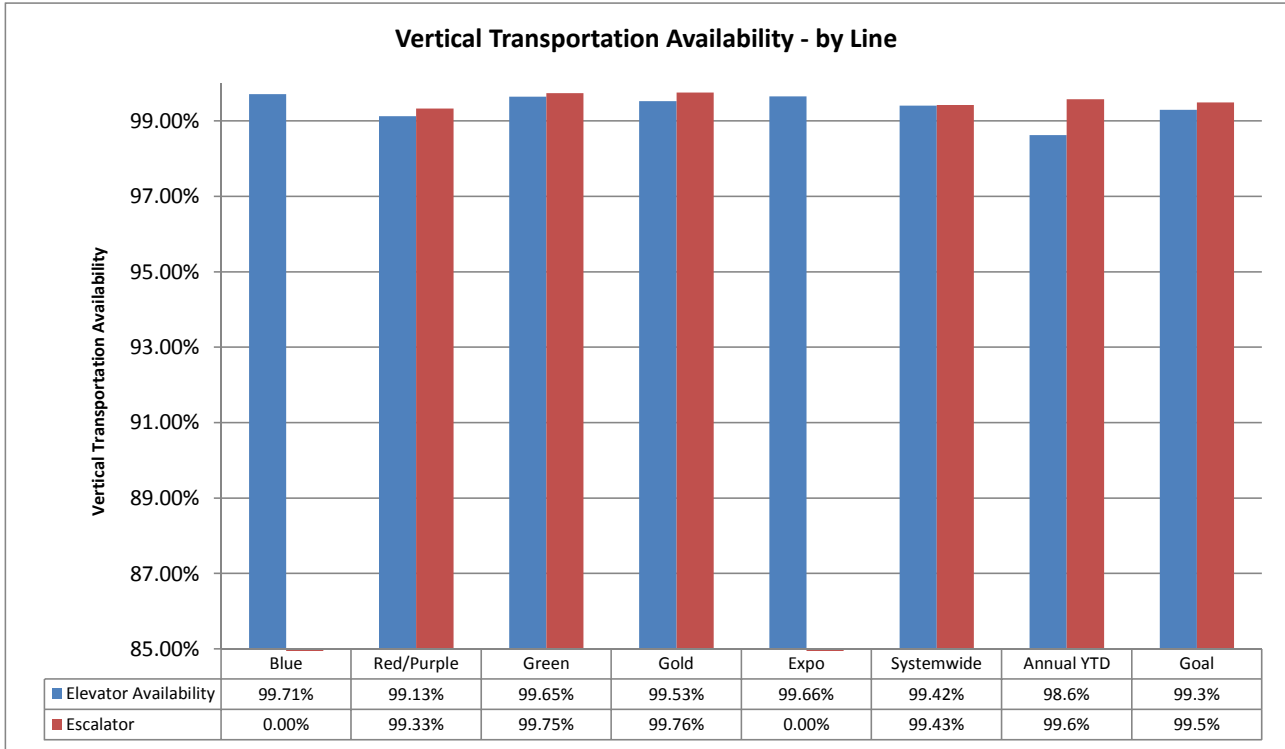
Blue, Red/Purple, Green, Gold & Expo Line Passenger Accident Ratio

Passenger Accidents per 100,000 Boardings



	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19
Blue	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Red	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.03
Green	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00
Gold	0.00	0.15	0.00	0.00	0.08	0.00	0.00	0.08	0.00	0.00	0.23	0.00	0.08
Expo	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
System Goal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

## Systemwide Vertical Transportation Availability by Line Jul 2019

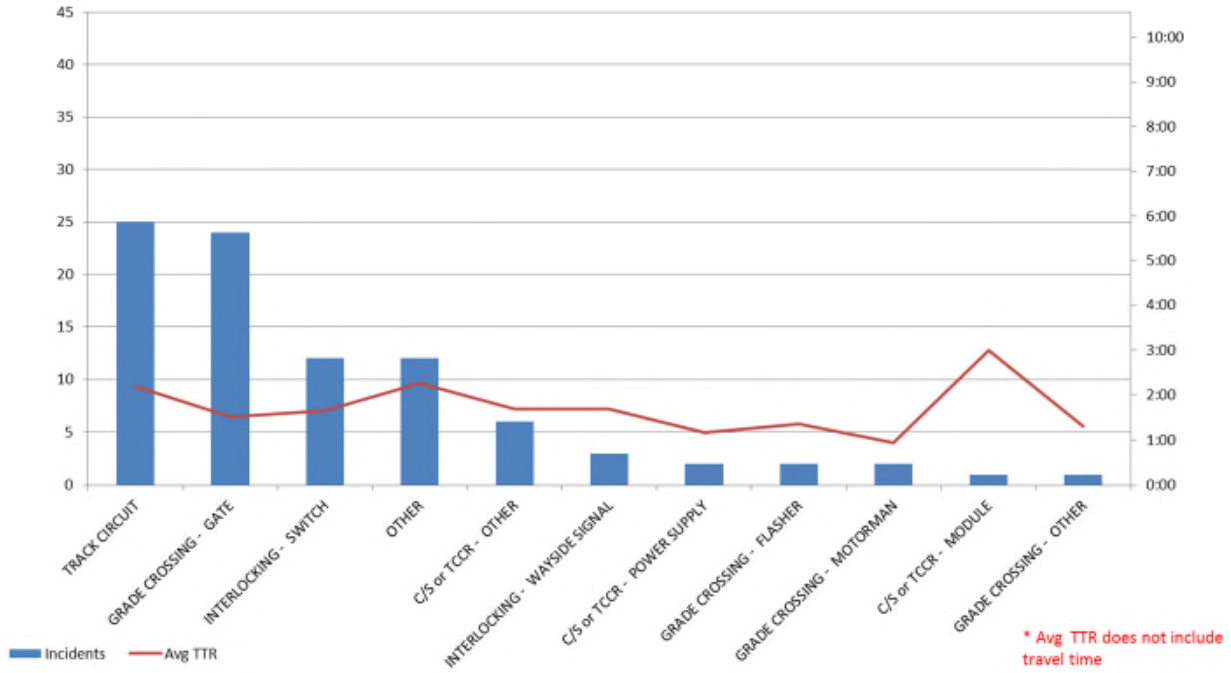


Note: No Escalators at Blue and Expo Lines

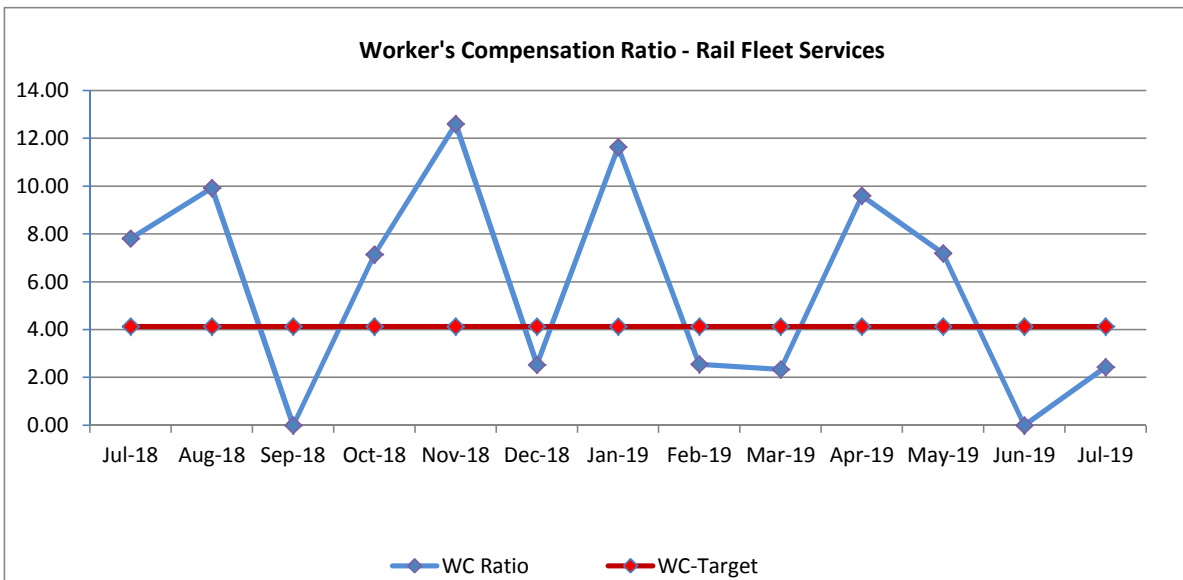
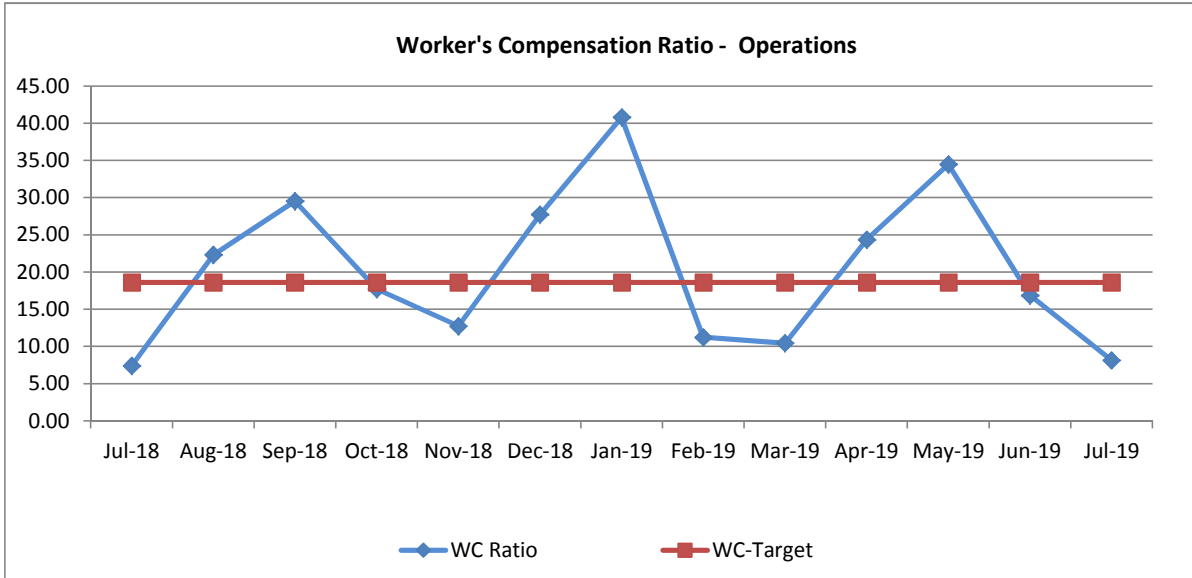
**Wayside Signal Maintenance  
[Incidents & Avg Time-To-Repair (TTR)]  
July 2019**

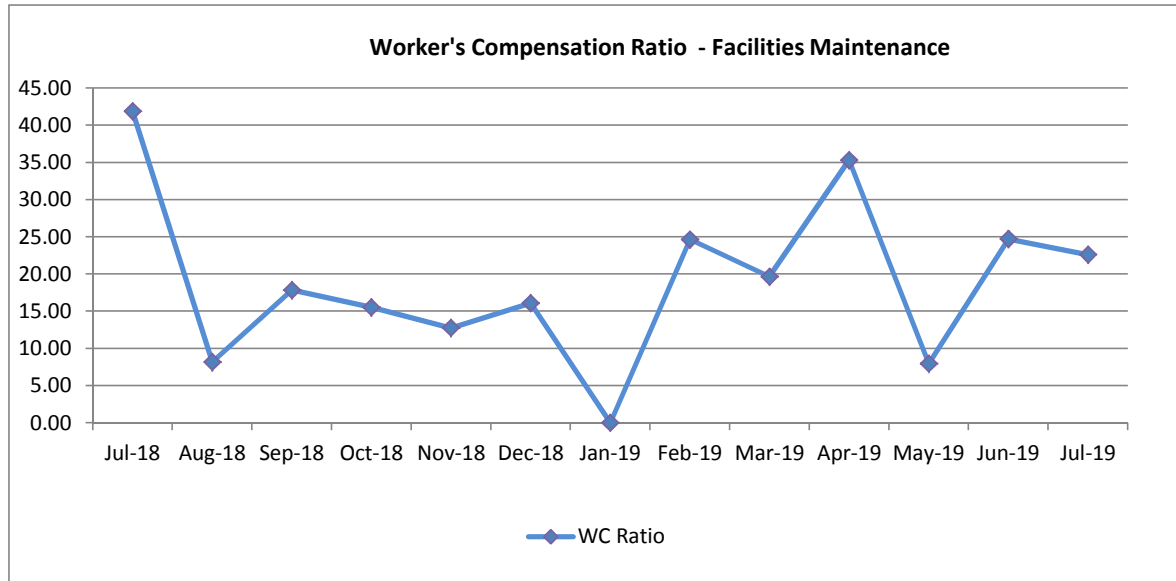
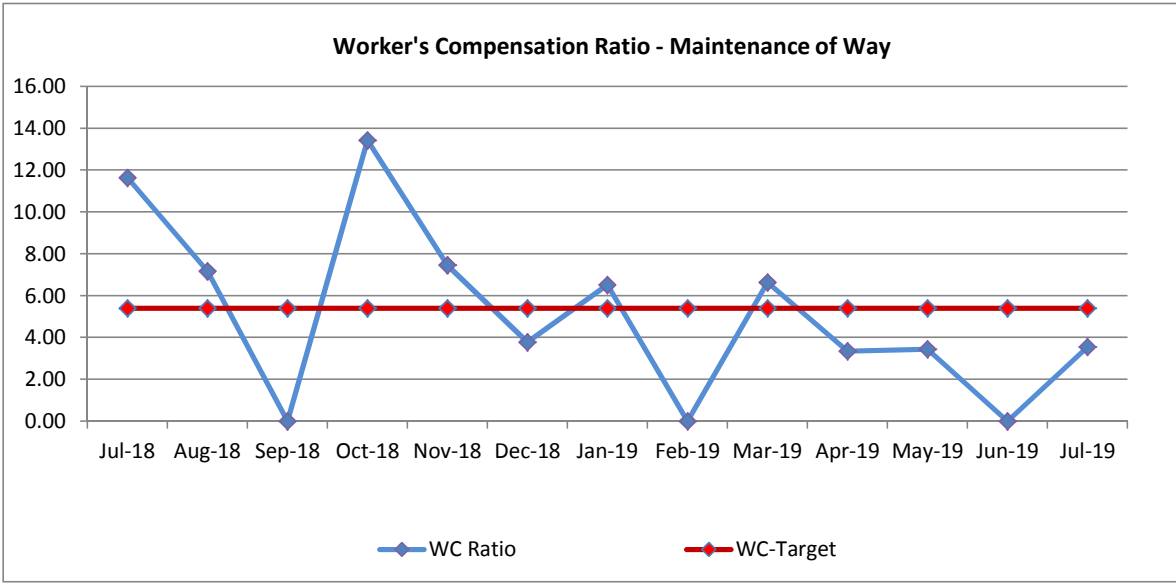
Number of Incidents

Avg TTR



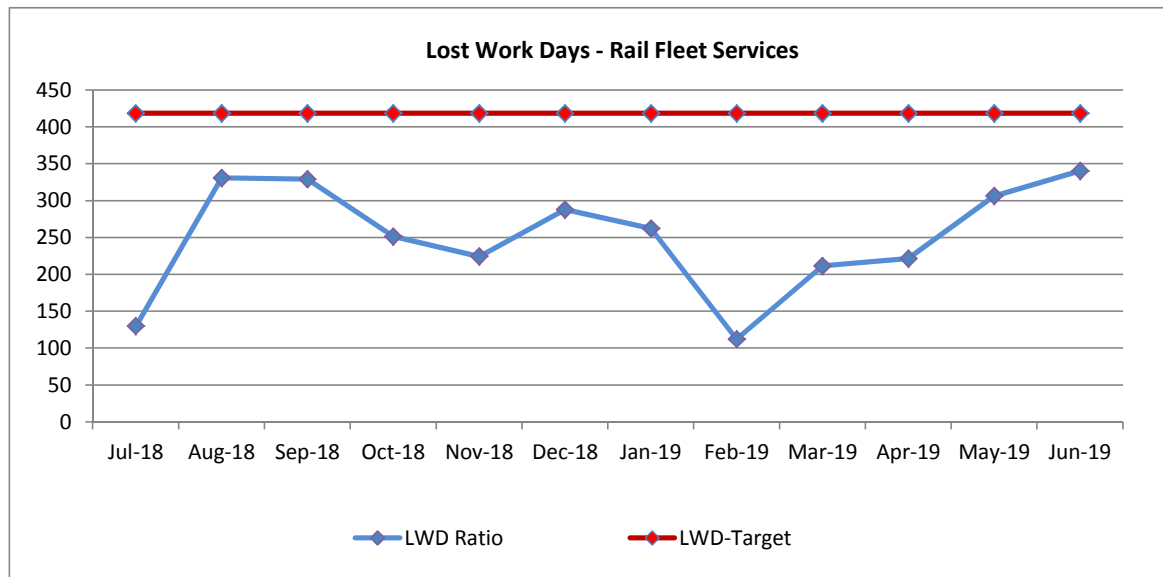
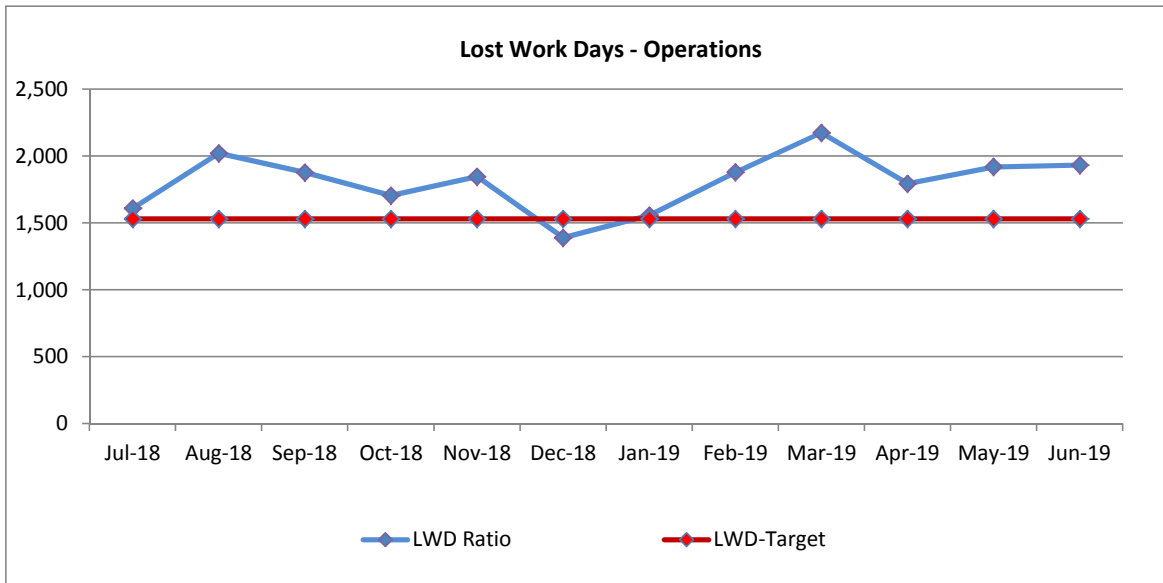
## Administrative Key Performance Indicators Worker's Compensation, Lost Work Days, OSHA Jul 2019



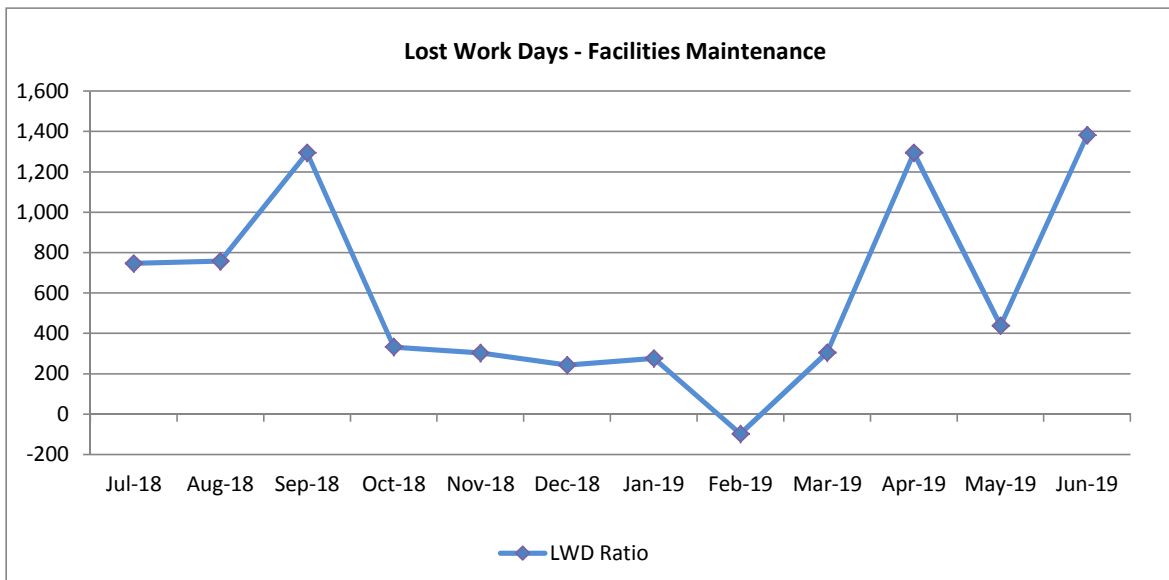
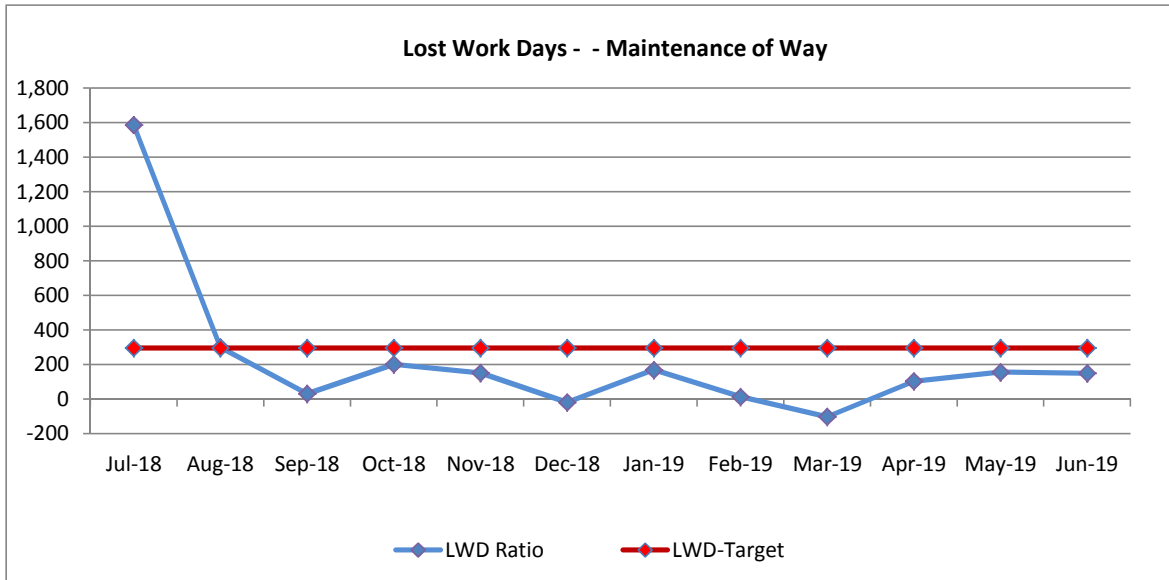


Facilities Maintenance goals to be established.



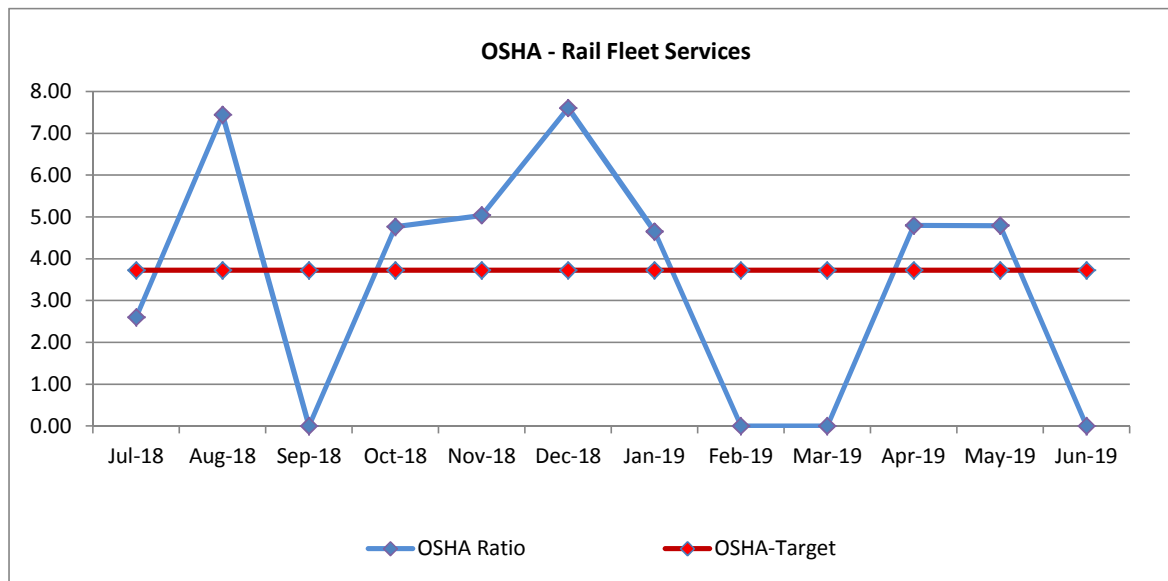
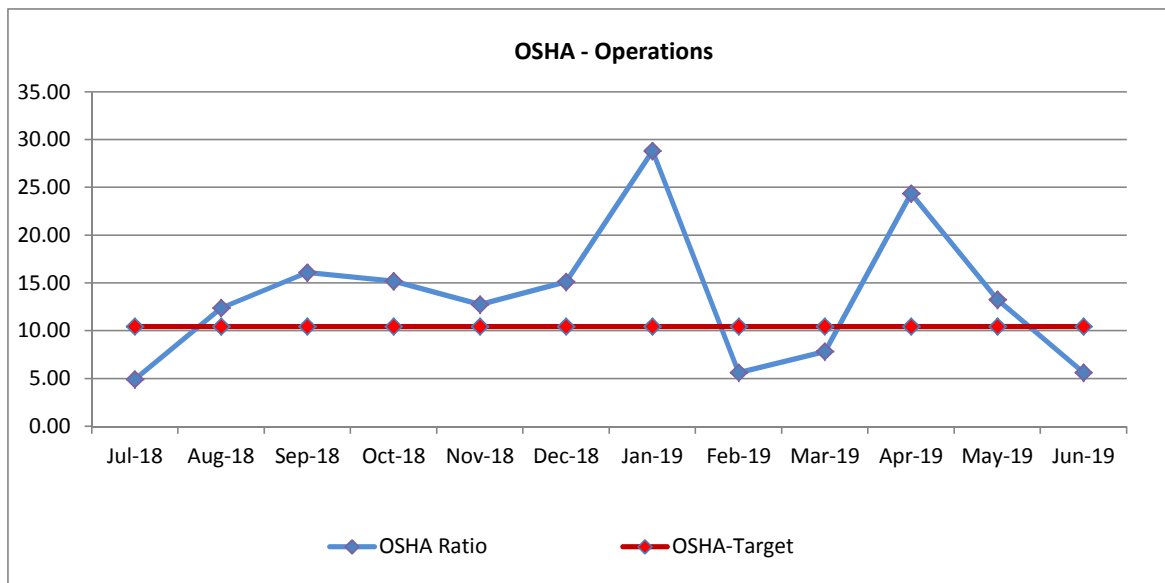


Note: There is a one month lag in Lost Work Days and OSHA data.

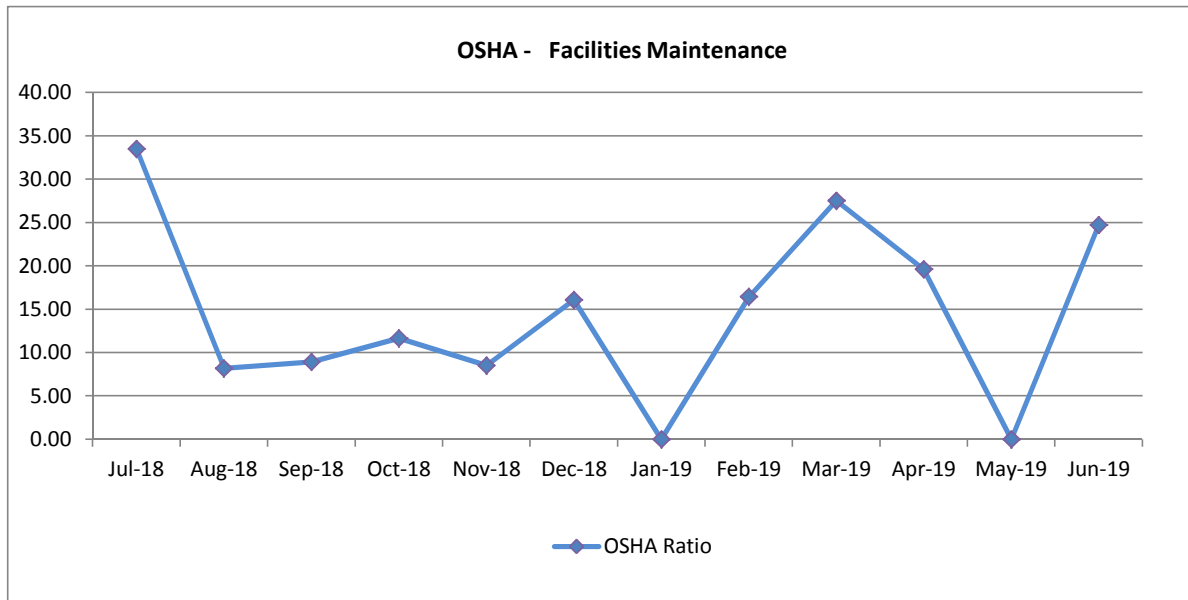
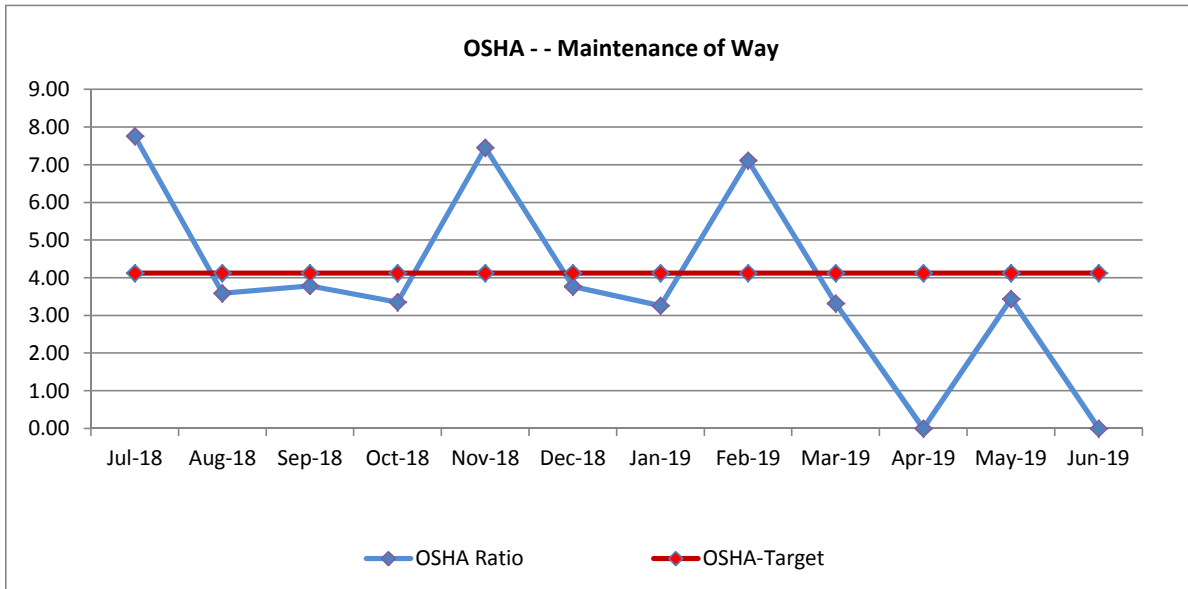


Facilities Maintenance goals to be established.

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



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Facilities Maintenance goals to be established.

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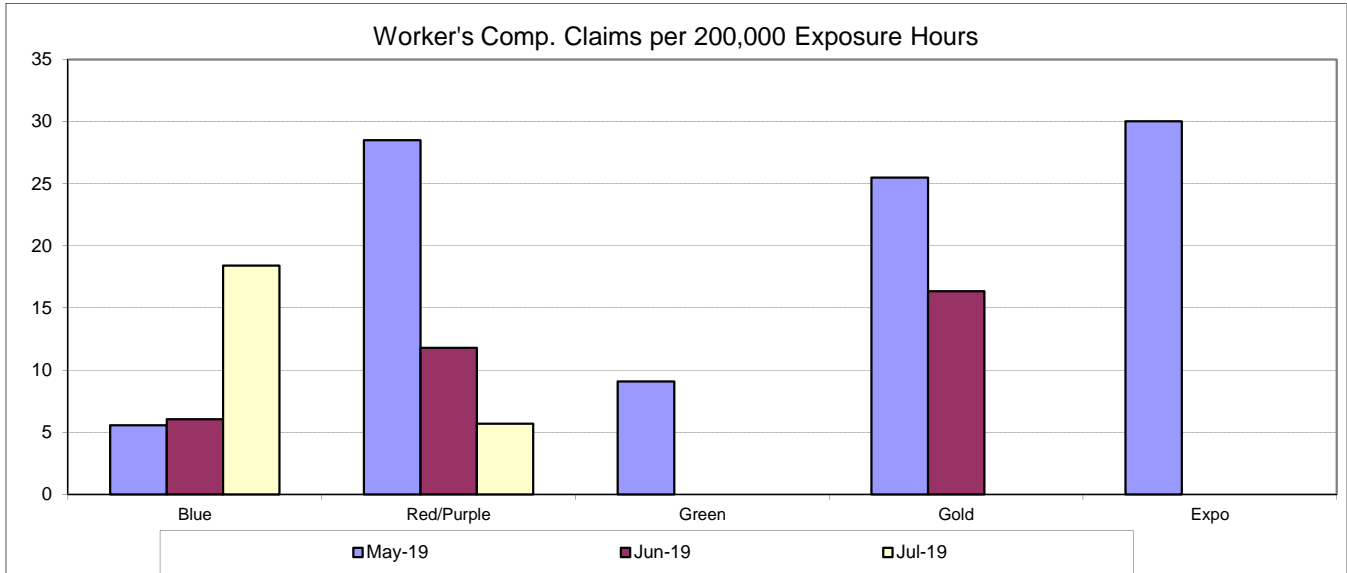
# Worker's Comp. Claims

May 2019 - Jul 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:  $\text{New reported Workers' Compensation Indemnity and Medical claims filed per 200,000 Exposure Hours} = \text{New Claims} / (\text{Exposure Hours} / 200,000)$**



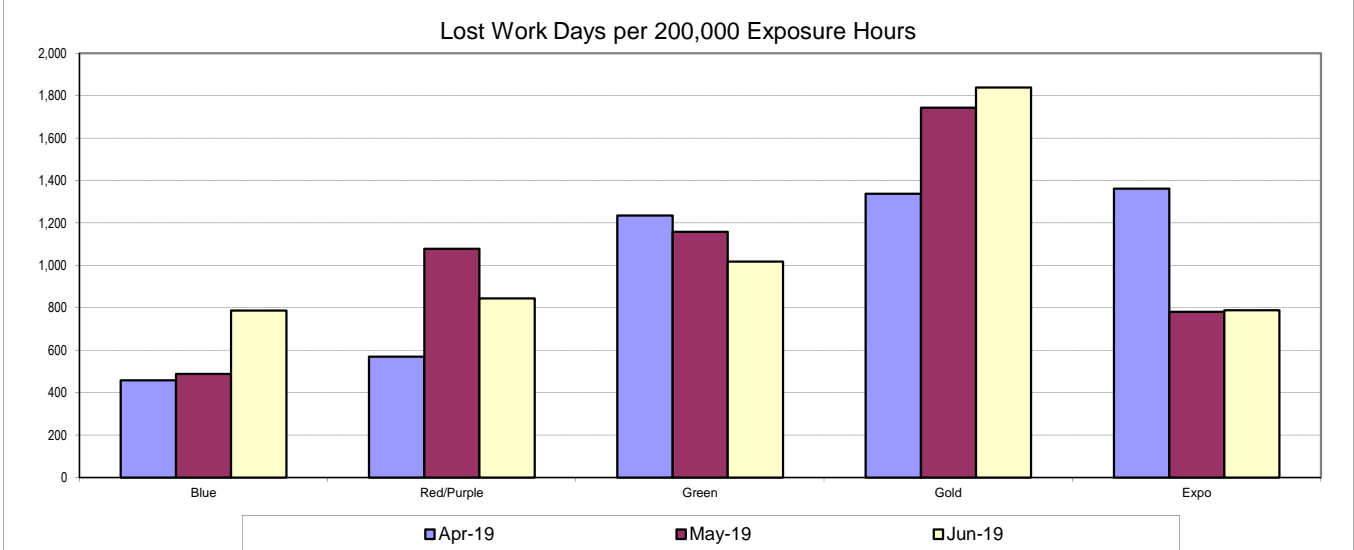
## Lost Work Days and OSHA Injuries

Apr 2019 - Jun 2019

3 Month Comparison

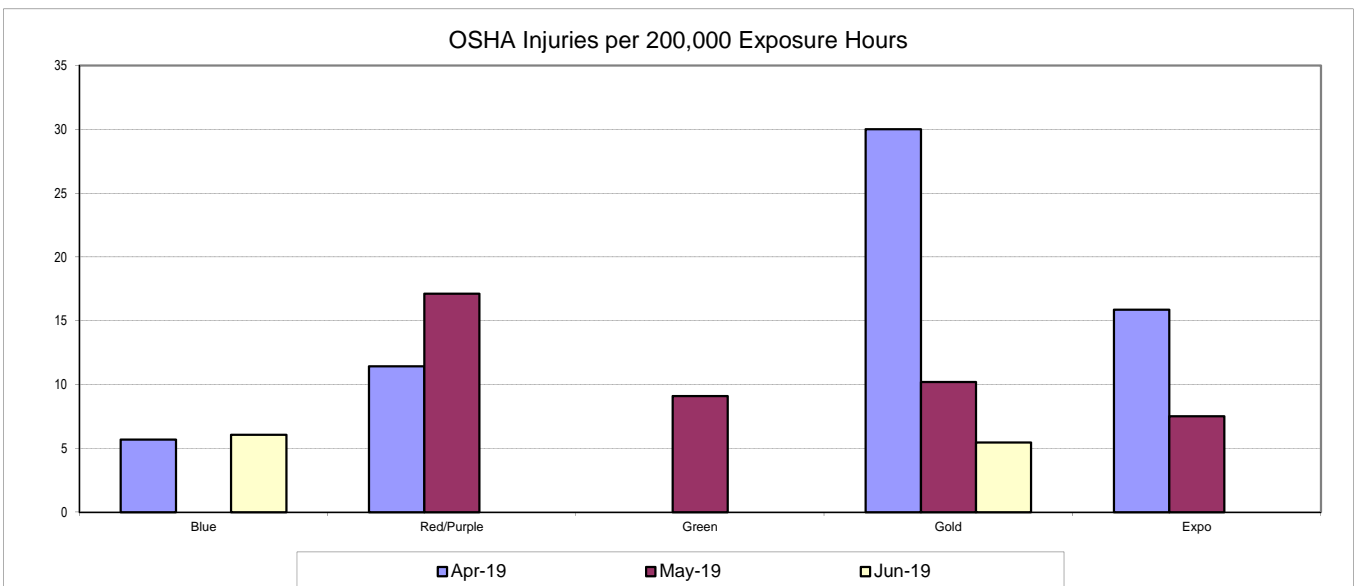
**LWD Definition: Number of paid working days lost due to employees workers' compensation injuries each month per 200,000 exposure hours. This indicator measures use of Transitional Duty Program.**

**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

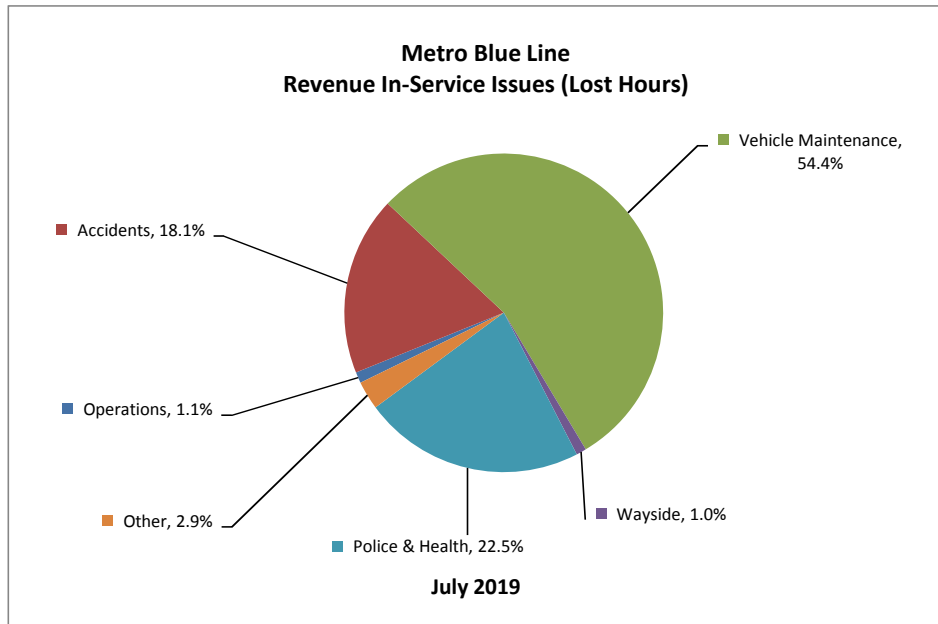
Out of a total of 11,044 hours operated, there were approximately 16 total hours of service delays.

July 2019 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	11,028	99.9%
Cancelled + Delayed Hours	16	0.1%
<b>Total Revenue Hours</b>	<b>11,044</b>	<b>100.0%</b>

Summary of the incidents:	Count	Hours	Percent
Operations	2	0.2	1.1%
Accidents	1	2.9	18.1%
Vehicle Maintenance	1	8.7	54.4%
Wayside	2	0.2	1.0%
Police & Health	3	3.6	22.5%
Other	3	0.5	2.9%
<b>Total</b>	<b>12</b>	<b>16.0</b>	<b>100.0%</b>

\* 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



July 2019 Blue Line incidents causing delay were as follows:

**Operations Incidents:**

**7/2/2019 10:30:00 AM - Incident# 3169658 (0 lost trips, 6 lost minutes)**

T-102 Train 105  
Compton SB TK 2  
1107-1080--1094

**7/4/2019 11:33:00 PM - Incident# 3170656 (0 lost trips, 5 lost minutes)**

Delay of service/ Late departure  
Train 102  
T-201  
(K1078A), K1088, K1148  
Compton station, track 2,southbound

**Accidents:**

**7/26/2019 5:32:00 PM - Incident# 3179720 (1 lost trip, 174 lost minutes)**

Train 106  
Southbound  
Track #2  
T-291  
(1103B)-1132-1086  
Ist and Pine  
Train operator transmitted an emergency call for 1072

**Vehicle Maintenance Incidents:**

**7/18/2019 8:01:00 AM - Incident# 3176059 (3 lost trips, 522 lost minutes)**

Train 103 reports a Friction Brakes application and no movement departing Willow Station track 1.  
Train 103  
T-433  
LRV'S 1090A1094-1105  
Willow Station track 1 northbound.

**Wayside Incidents:**

**7/21/2019 1:12:00 PM - Incident# 3177138 (0 lost trips, 10 lost minutes)**

Train 106  
T-244  
1078-1103-1132  
Track 1 Northbound  
Artesia Interlocking

Switch out of correspondence at Compton Interlocking.

**7/28/2019 3:49:00 PM - Incident# 3180217 (0 lost trips, 7 lost minutes)**

Main Yard North Interlocking switches out of correspondence.

**Police & Health Incidents:**

**7/15/2019 9:10:00 AM - Incident# 3174584 (0 lost trips, 12 lost minutes)**



Medical emergency on car (1107) at Willow Station.

Train # 102

T-259

Willow, track #2, southbound

(1107)1137 1106

**7/19/2019 7:18:00 PM - Incident# 3176733 (1 lost trip, 186 lost minutes)**

T/A , MTA not involved, blockingthe tracks at 4th/Pacific.

**7/28/2019 10:39:00 PM - Incident# 3180262 (0 lost trips, 20 lost minutes)**

Police Activity at 7th/Long Beach causing disruption in service.

**Other Incidents:**

**7/28/2019 3:30:00 PM - Incident# 3180210 (0 lost trips, 12 lost minutes)**

Train 104 reported no movement.

**Unable To Duplicate**

**7/4/2019 5:57:00 AM - Incident# 3170486 (0 lost trips, 8 lost minutes)**

Train 102, Cars 1094-1080-1105

**7/16/2019 8:12:00 PM - Incident# 3175414 (0 lost trips, 8 lost minutes)**

Train 105, LRV's (1102B), 1092, 1138.

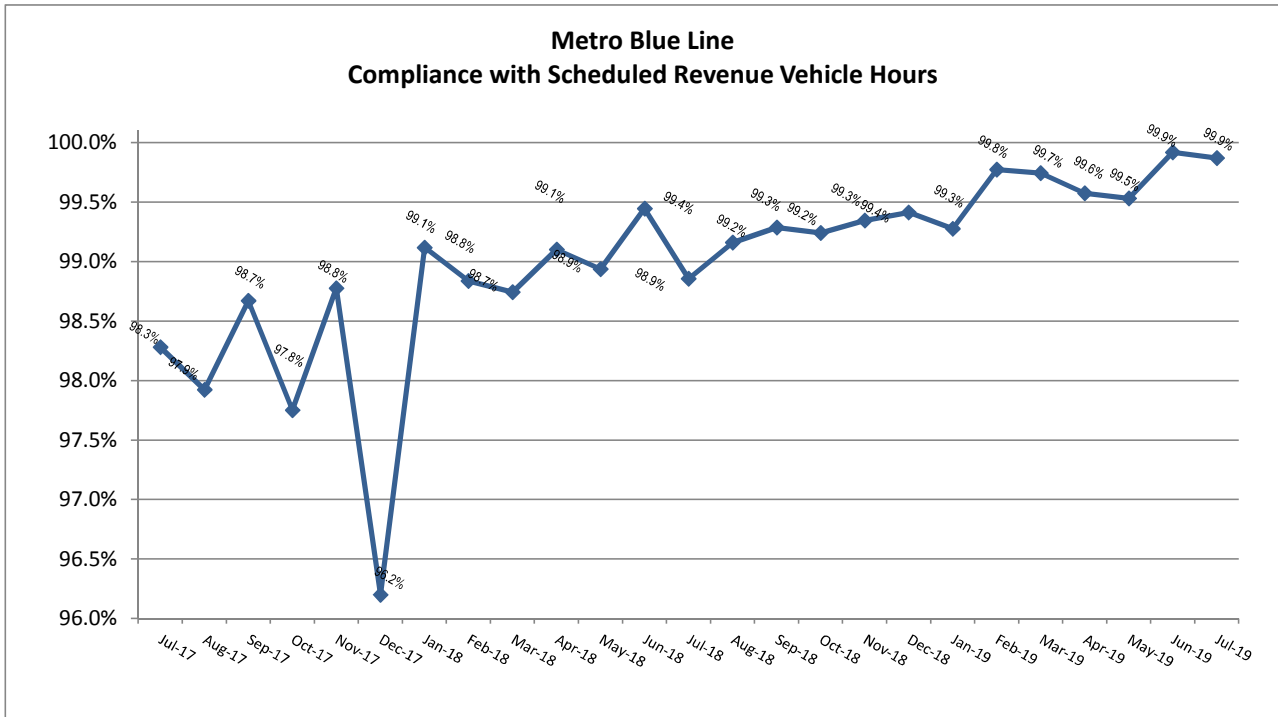
Del Amo Station, Track 2 southbound.

System no booting back and no movement.

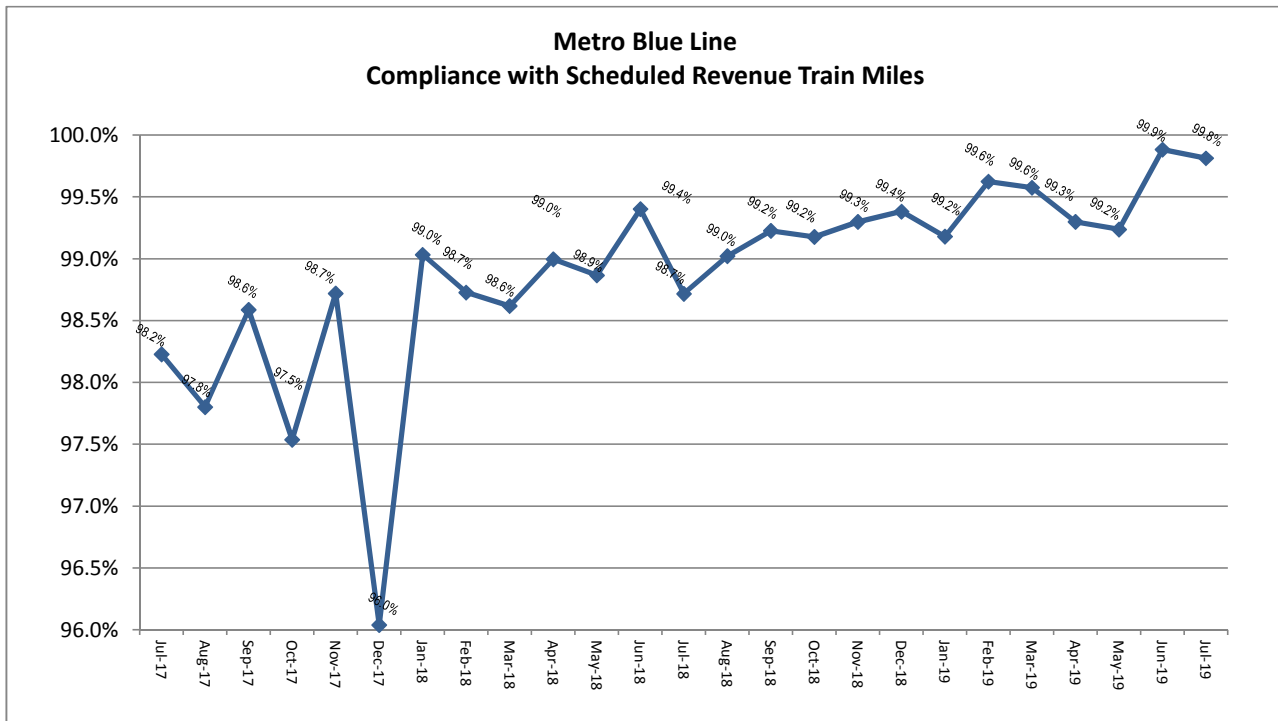
# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

## COMPLIANCE WITH SCHEDULED VEHICLE HOURS

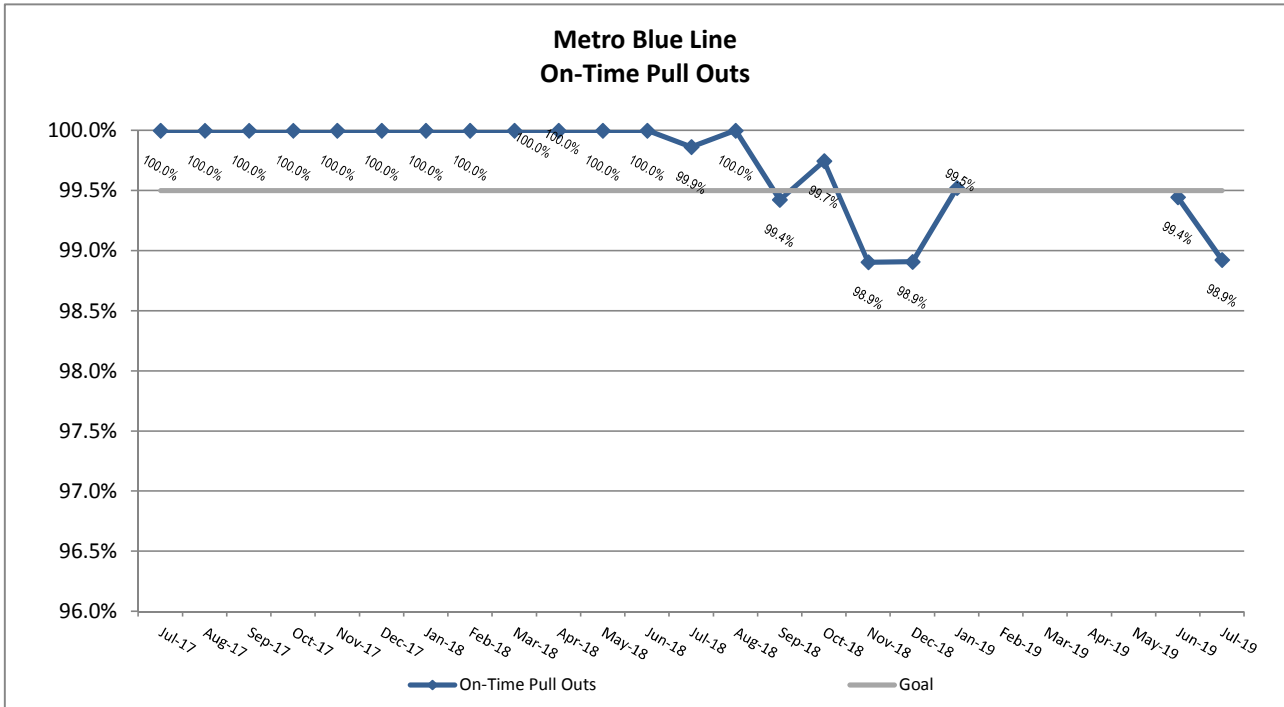
Jul 2019



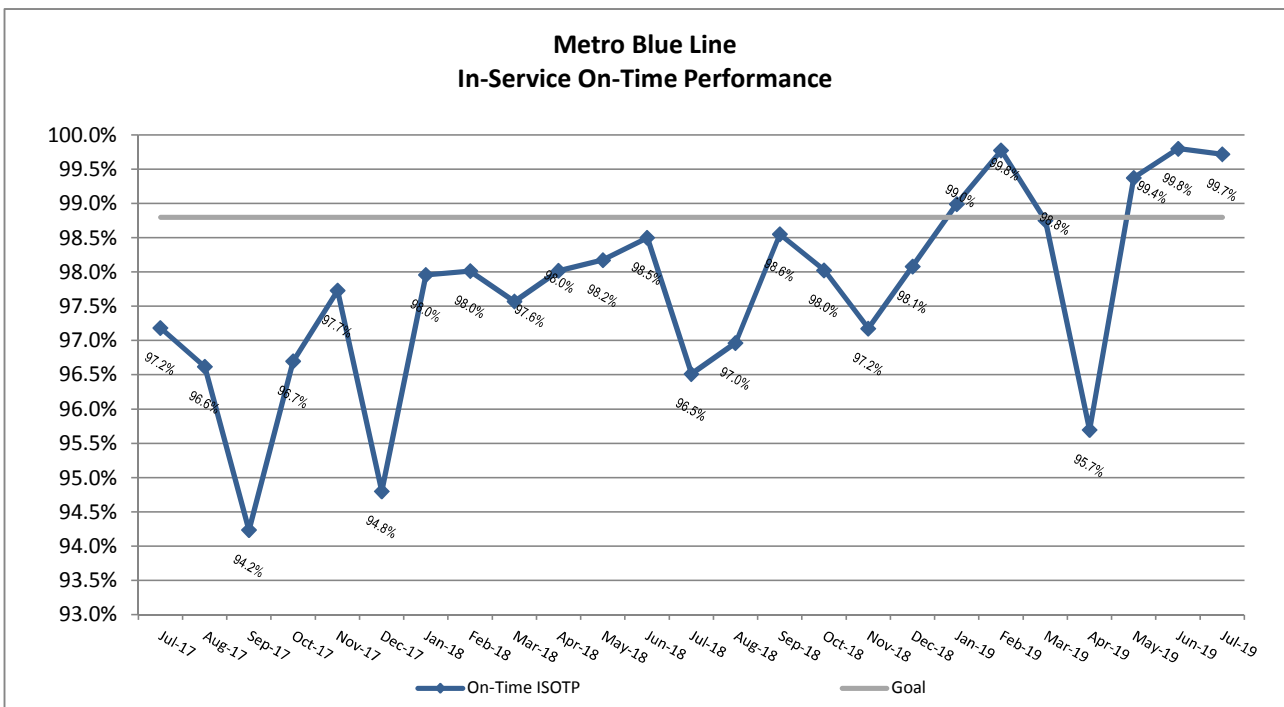
## COMPLIANCE WITH SCHEDULED TRAIN MILES



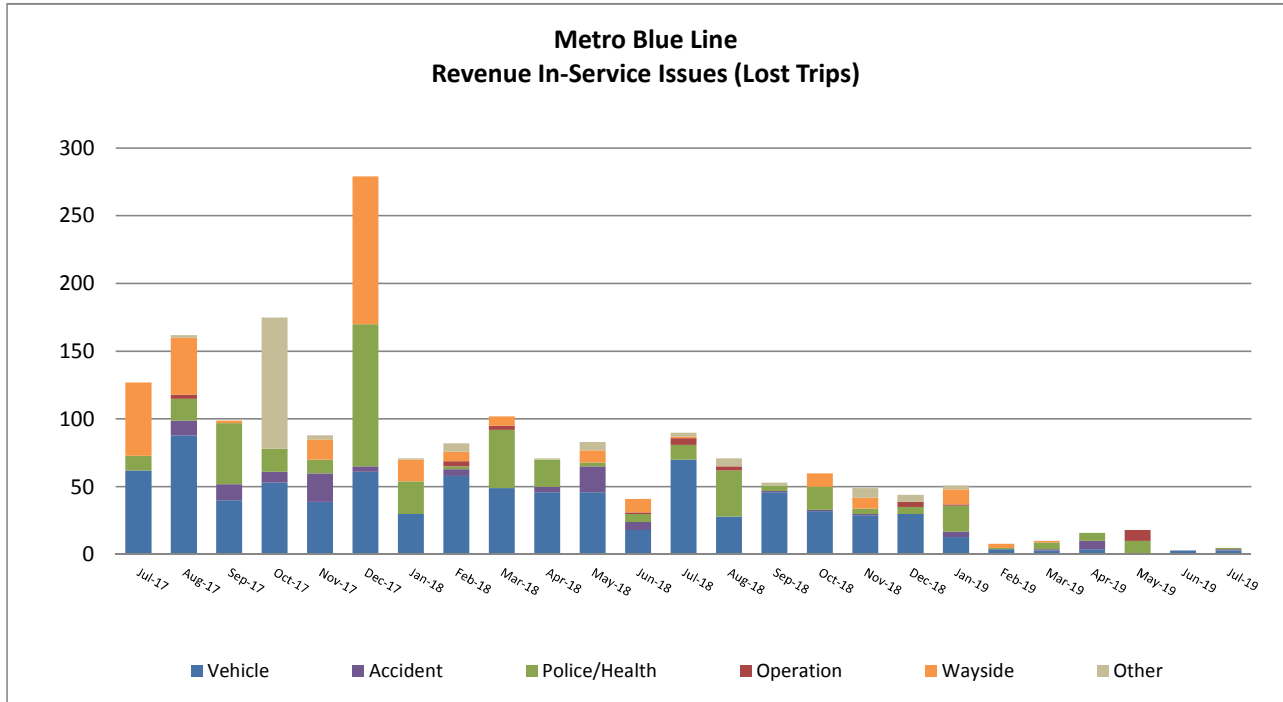
## ON-TIME PULL OUTS



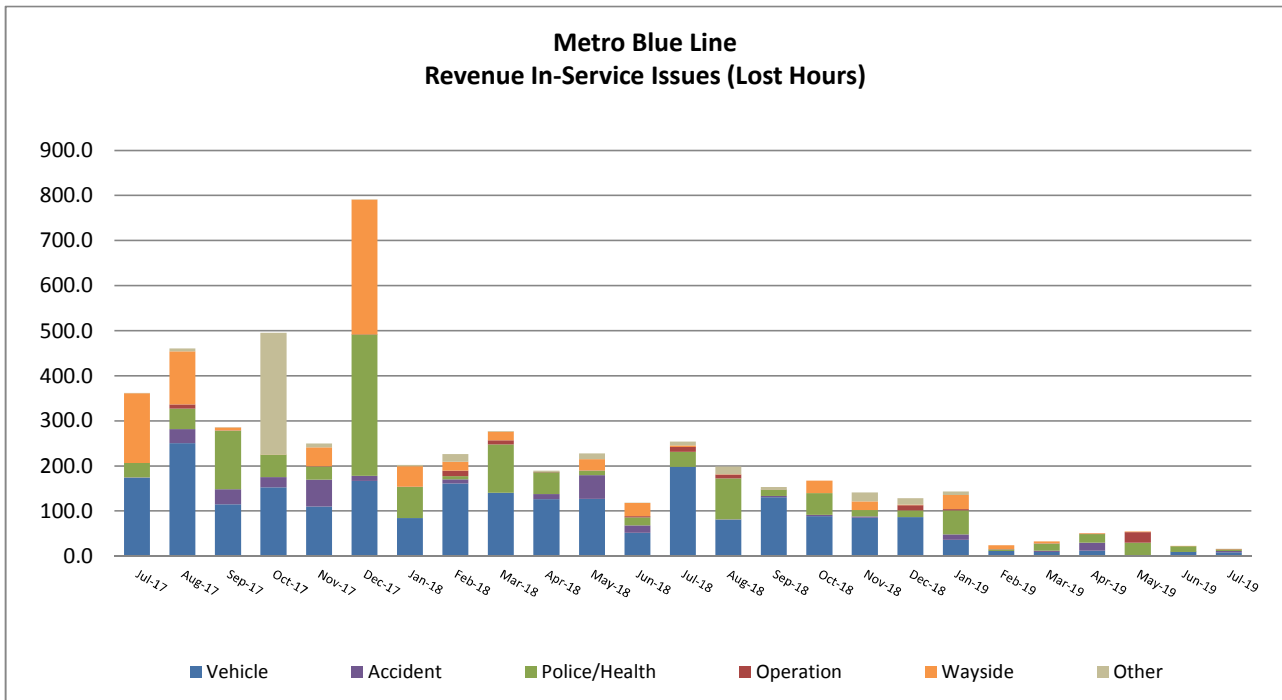
## IN-SERVICE ON-TIME PERFORMANCE CHART



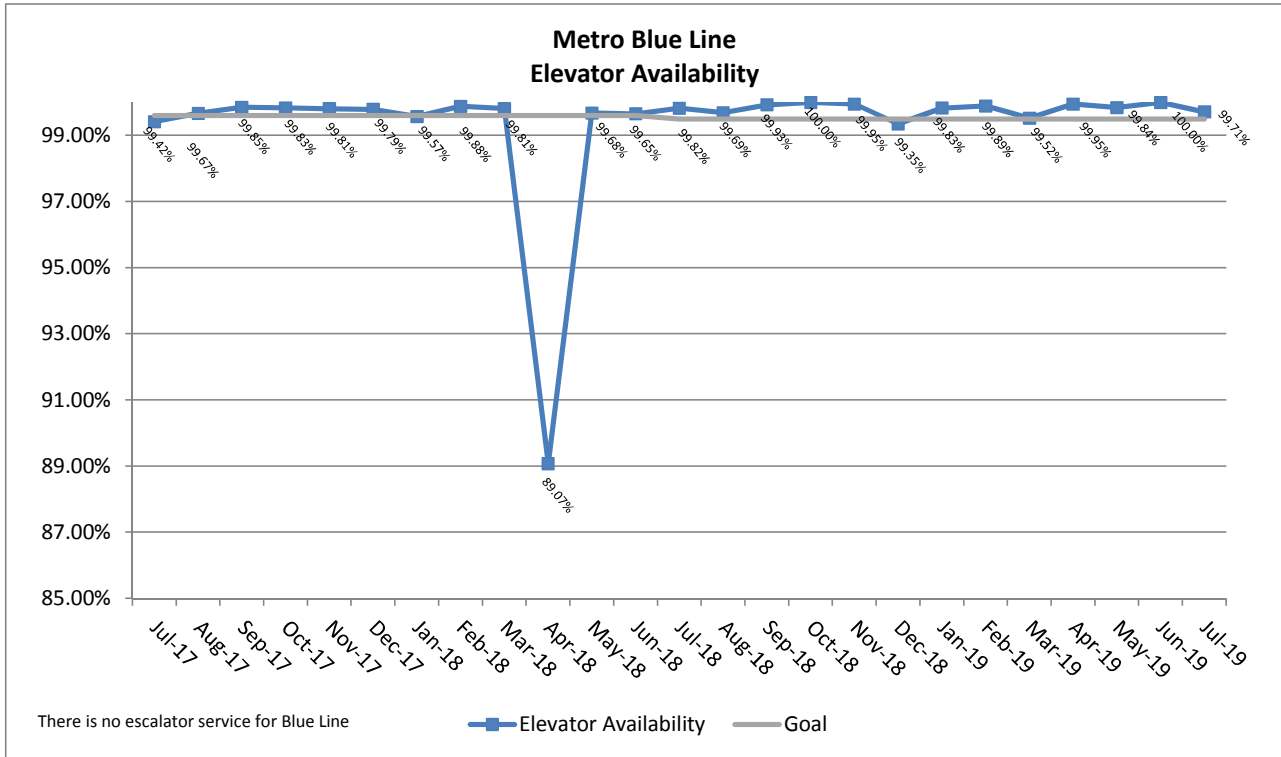
## LOST TRIPS



## LOST HOURS



## VERTICAL TRANSPORTATION AVAILABILITY



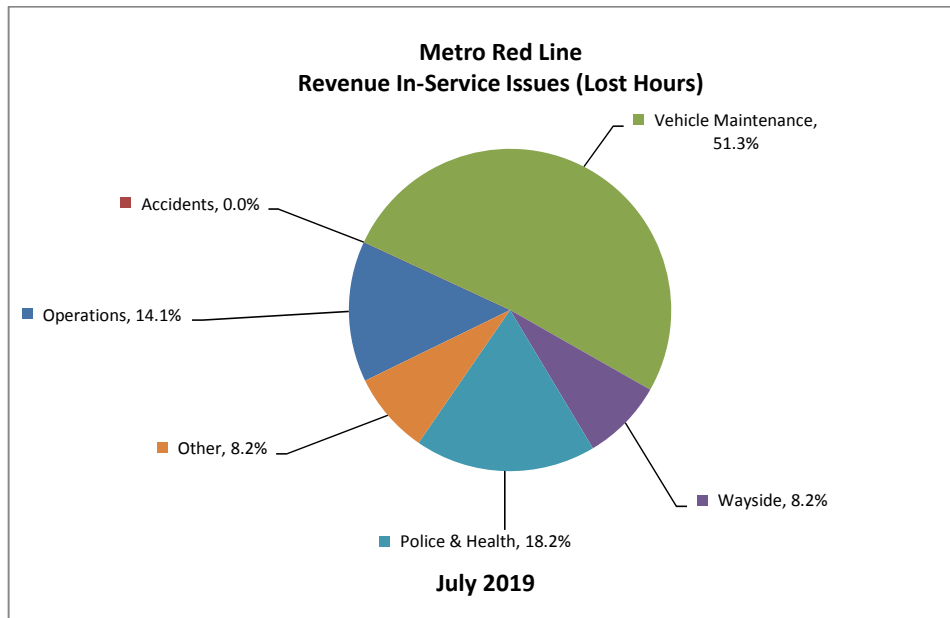
## RED LINE

Out of a total of 26,281 hours operated, there were approximately 72 total hours of service delays.

July 2019 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	26,209	99.7%
Cancelled + Delayed Hours	72	0.3%
<b>Total Revenue Hours</b>	<b>26,281</b>	<b>100.0%</b>

Summary of the incidents:	Count	Hours	Percent
Operations	3	10.2	14.1%
Accidents	0	0.0	0.0%
Vehicle Maintenance	23	37.0	51.3%
Wayside	2	5.9	8.2%
Police & Health	3	13.1	18.2%
Other	4	5.9	8.2%
<b>Total</b>	<b>35</b>	<b>72.1</b>	<b>100.0%</b>

\* 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



## **July 2019 Red Line incidents causing delay were as follows:**

### **Operations Incidents:**

**7/1/2019 7:10:00 AM - Incident# 3169095 (4 lost trips, 597 lost minutes)**

Train 203 (Purple Line) trip cancelled at Union Station at 0710 hours due to a lack of manpower and equipment in the yard. Train 203 was used for Train 204 for a trip to North Hollywood Station.

**7/20/2019 5:51:00 AM - Incident# 3176820 (0 lost trips, 12 lost minutes) CHARGEABLE**

Train 204 / Operator T-351 / Consist 553,554,535,(536)

Operator reports Emergency Brake Application in Car 536.

Union Station AR-E (Interlocking)

Operator was instructed to utilize EMO to Union Station Platform.

**7/24/2019 4:52:00 PM - Incident# 3178655 (0 lost trips, 4 lost minutes) CHARGEABLE**

Westlake Station A/R Track debris removal from the cover board.

1. TP-118

2. TP-185

### **Vehicle Maintenance Incidents:**

**7/1/2019 12:20:00 PM - Incident# 3169258 (0 lost trips, 8 lost minutes) CHARGEABLE**

Flashing Cab signals/Emergency brake.

T-15

Train 205

(601)-602-579-580

Wilshire/Vermont AR West.

**7/1/2019 5:41:00 PM - Incident# 3169409 (0 lost trips, 7 lost minutes) CHARGEABLE**

Flashing Cab signals/Emergency brake application.

T-427

Train 215

589-590-593-594-541-(542)

C.P.60 AL East

**7/2/2019 7:17:00 PM - Incident# 3169870 (0 lost trips, 10 lost minutes) CHARGEABLE**

Train 217 car 560 developed a brake fault, needs EMO to travel.

**7/3/2019 5:59:00 AM - Incident# 3170008 (0 lost trips, 10 lost minutes) CHARGEABLE**

Emergency brakes will not release

Train 210

T-012

Cars 563-564-559-560-601-(602)

North Hollywood AR East

**7/6/2019 1:10:00 PM - Incident# 3171118 (10 lost trips, 1,597 lost minutes) CHARGEABLE**

Recurring emergency brake application. ATP Circuit Breaker Tripped.

Train #201

T-351

Cars #559-560-581-582-591-592.

E/Bound Vermont Santa Monica A/L Track.

**7/7/2019 5:50:00 PM - Incident# 3171366 (0 lost trips, 12 lost minutes) CHARGEABLE**

Friction brakes not releasing.

Train 201.

T-371.

**7/10/2019 7:15:00 PM - Incident# 3172905 (0 lost trips, 4 lost minutes) CHARGEABLE**

Friction Brake fail to release.

Train #213

T-351

Cars #529-520-501-502-521-(530).

E/Bound North Hollywood Station A/L Track.

**7/11/2019 2:06:00 PM - Incident# 3173339 (0 lost trips, 4 lost minutes) CHARGEABLE**

Recurring emergency brake application.

Train #203

T-351

Cars #(599)-600-577-578

W/Bound Wilshire Western Interlocking B/R Track.

**7/11/2019 3:08:00 PM - Incident# 3173362 (0 lost trips, 4 lost minutes) CHARGEABLE**

T-145 on train 216 states friction brakes keep reapplying.

Train 216, cars 505-506-515-516-523-528, Vermont Sunset, AR Track, Westbound.

**7/11/2019 5:48:00 PM - Incident# 3173430 (0 lost trips, 12 lost minutes) CHARGEABLE**

Possible burning odor inside Car #509.

Train #217

T-420

Cars #517-518-527-522-(509)-508.

W/Bound Wilshire Vermont A/R Track.

**7/15/2019 5:33:00 PM - Incident# 3174899 (0 lost trips, 3 lost minutes)**

Train # 215 operated by T-272 at NH station AR W had a Door problem in car # 560 Doors 2/4. T-272 unable to cut out the Doors at NH platform.

**7/16/2019 4:23:00 PM - Incident# 3175377 (0 lost trips, 2 lost minutes)**

Train 213 Car 575 door panel not secured, it obstructed the door from closing.



**7/23/2019 12:49:00 AM - Incident# 3177791 (0 lost trips, 20 lost minutes) CHARGEABLE**

T-116 reports No movement/door problems at Universal City AL reverse running.

Train #219

Cars 511, 512

Universal AL

**7/24/2019 4:24:00 AM - Incident# 3178291 (0 lost trips, 10 lost minutes)**

Emergency brake activated; mode selector stuck; doors not opening.

Train 211

(561)-562/551-552/547-548

T-170

Union, AR, Westbound

**7/24/2019 4:52:00 PM - Incident# 3178665 (0 lost trips, 6 lost minutes)**

Train 216

T-312

Vermont Beverly AL east

Operator reports having door sticking on car 522.

511, 512, 529, 520, 527, (522)

**7/25/2019 12:24:00 PM - Incident# 3179066 (0 lost trips, 9 lost minutes)**

Report emergency brake self apply, will not release.

T-172

Train 205

Cars (505)-506-525-524

Santa Monica AR westbound.

**7/25/2019 3:43:00 PM - Incident# 3179150 (1 lost trip, 154 lost minutes)**

Report of emergency lighting and doors will not open.

T-138

Train 219

Cars (579-580)-533-534-563-564

Union Station AL westbound.

**7/29/2019 6:12:00 AM - Incident# 3180318 (1 lost trip, 159 lost minutes)**

Service Brake failure

Train # 201

T-435

Civic Center, AL, eastbound

551 552 543 544 (599 600)

**7/29/2019 3:35:00 PM - Incident# 3180643 (0 lost trips, 4 lost minutes)**

Report of multiple emergency brake application.

T-312

Train 217

Cars 593-594-583-584-567-(568)

North Hollywood AR eastbound.

**7/29/2019 6:45:00 PM - Incident# 3180654 (1 lost trip, 159 lost minutes)**

Report of flashing cab signal, emergency brake apply multiple time.

T-179

Train 219

Cars 501-502-523-528-525-(524)

Hollywood Vine AL eastbound.

**7/30/2019 12:20:00 PM - Incident# 3180901 (0 lost trips, 10 lost minutes)**

No movement 603,604,601(602).

Vermont Sunset Station

Train #204, T-127, AL, eastbound.

**7/31/2019 5:05:00 PM - Incident# 3181480 (0 lost trips, 9 lost minutes)**

Train 214

T-12

Operator reports propulsion failure and AUX power failure.

North Hollywood AL east

511, 512, 501, 502, 509, (508)

**7/31/2019 8:54:00 PM - Incident# 3181537 (0 lost trips, 10 lost minutes)**

Emergency brake application car 589

Hollywood Highland AR west

Train # 219 T-461

Car # (589)-590-533-564-565-566

**Wayside Incidents:**

**7/12/2019 4:25:00 PM - Incident# 3173889 (0 lost trips, 10 lost minutes)**

North Hollywood Interlocking false occupancy/False overrun.

**7/14/2019 4:19:00 AM - Incident# 3174253 (3 lost trips, 348 lost minutes)**

Trains were delayed due to switches out of correspondence at yard limits.

**Police & Health Incidents:**

**7/4/2019 7:05:00 AM - Incident# 3170512 (0 lost trips, 8 lost minutes)**

MTA Security reports LAPD on board train 202 car 594, requesting to hold train at Vermont Beverly Station AR track Westbound. Reports a female patron on board being disruptive.

**7/25/2019 6:49:00 PM - Incident# 3179244 (1 lost trip, 630 lost minutes)**

Train 217 report observing a trespasser on the service walkway just east of Hollywood/Western Station platform.

**7/29/2019 5:18:00 AM - Incident# 3180296 (1 lost trip, 153 lost minutes)**

Train # 210

T-104 reports of a trespasser walking Eastbound on the AL Track.  
cars 547-548-577-578-575-576.

**Other Incidents:**

**7/13/2019 1:27:00 PM - Incident# 3174117 (0 lost trips, 8 lost minutes)**

Union Station male patron falls from the platform onto the A/R Track.

**7/18/2019 6:44:00 PM - Incident# 3176324 (0 lost trips, 9 lost minutes)**

Report an elderly female had fell on board Train 213 car 602.

**Reset**

**7/6/2019 5:46:00 AM - Incident# 3171014 (2 lost trips, 330 lost minutes) CHARGEABLE**

T464,Train 205

AL Track,East, 7mc

(576)-575-572-571

**7/29/2019 5:46:00 PM - Incident# 3180634 (0 lost trips, 8 lost minutes)**

Loss of cab signals

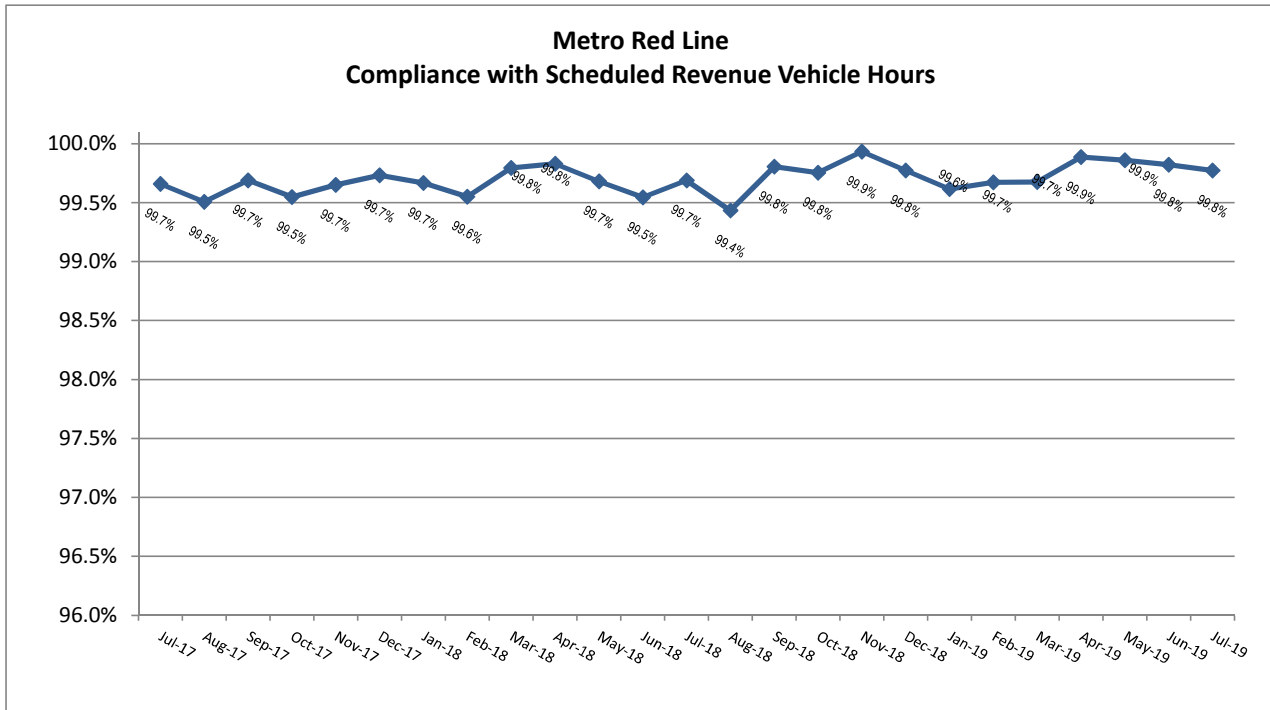
Train 219

T-172

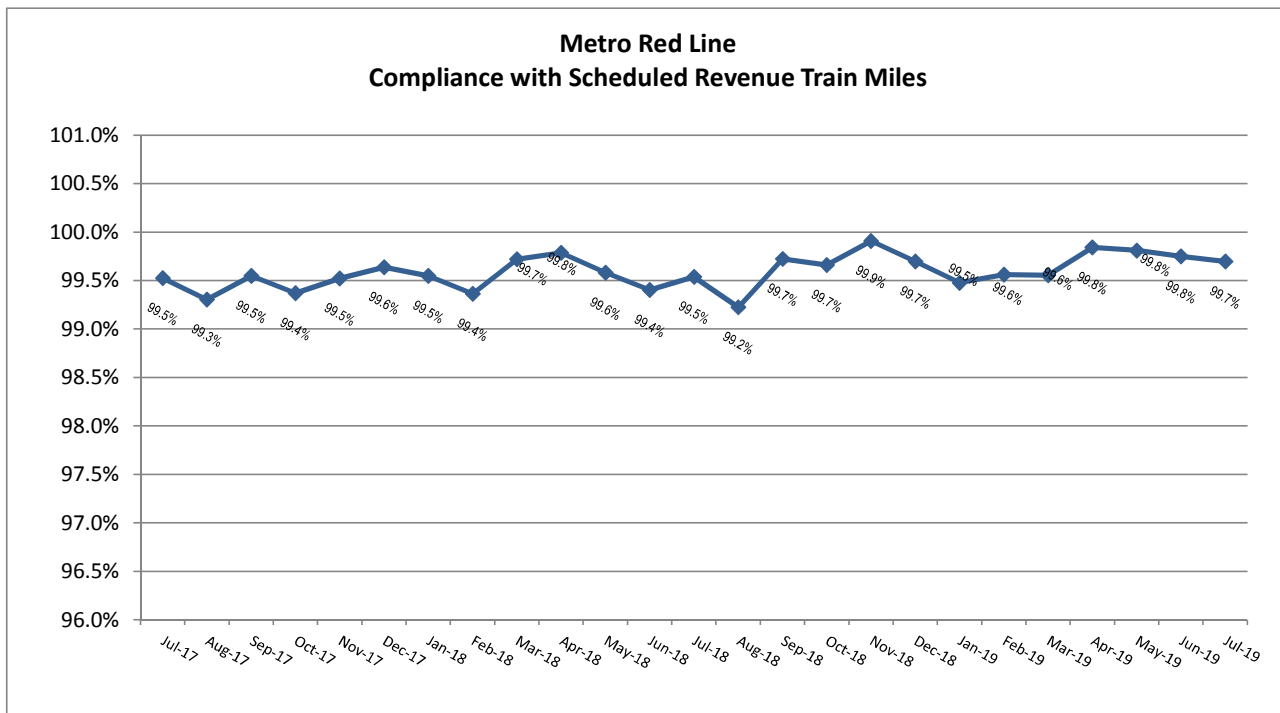
571-572-585-586-(539)-540

Wilshire/Vermont AL East

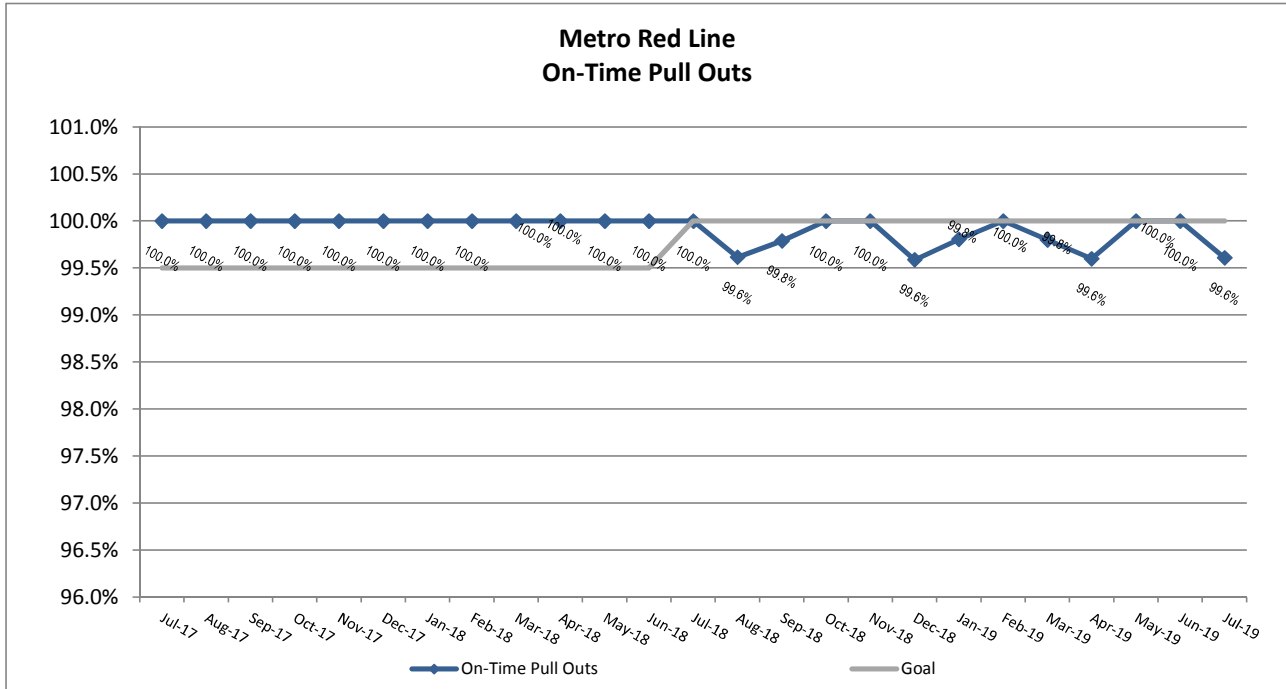
**MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS**  
**COMPLIANCE WITH SCHEDULED VEHICLE HOURS**  
**Jul 2019**



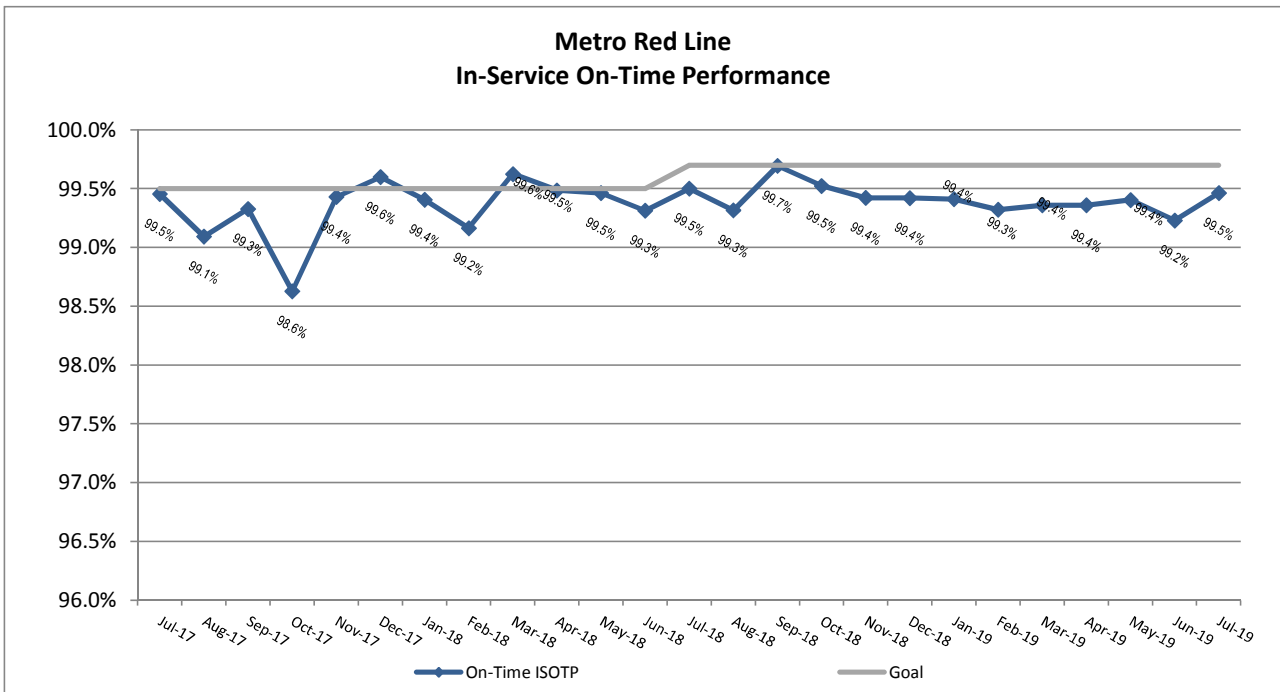
**COMPLIANCE WITH SCHEDULED TRAIN MILES**



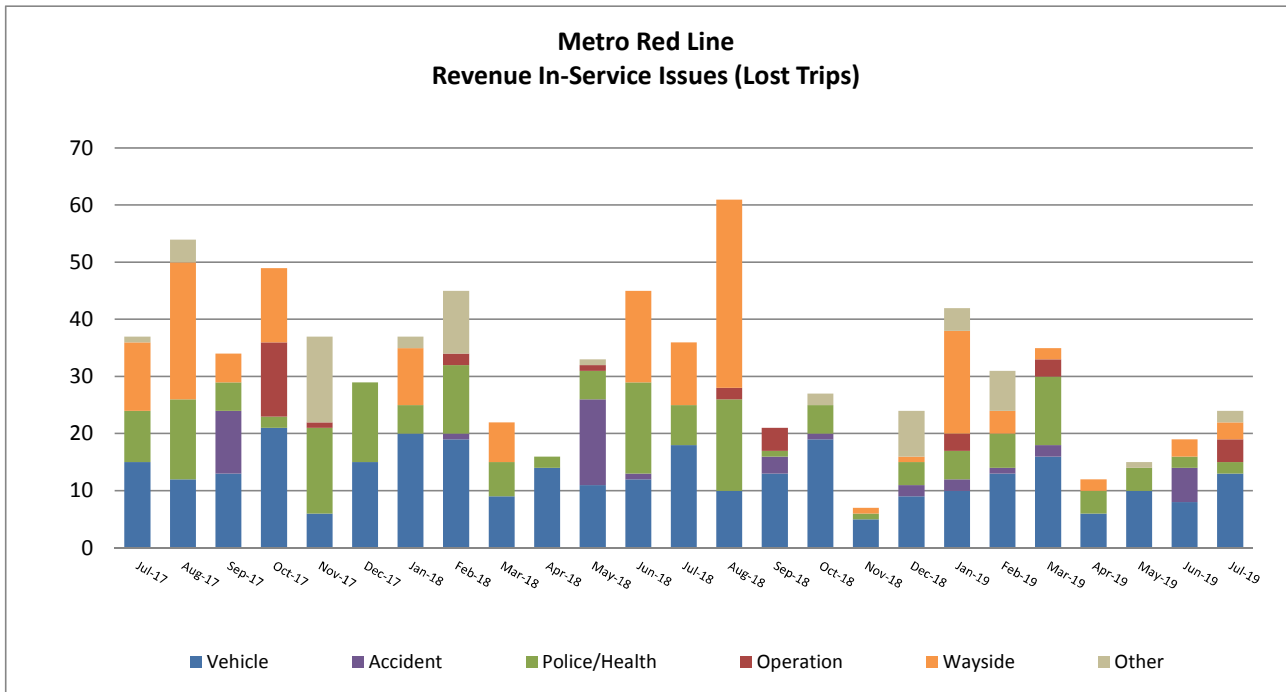
## ON-TIME PULL OUTS



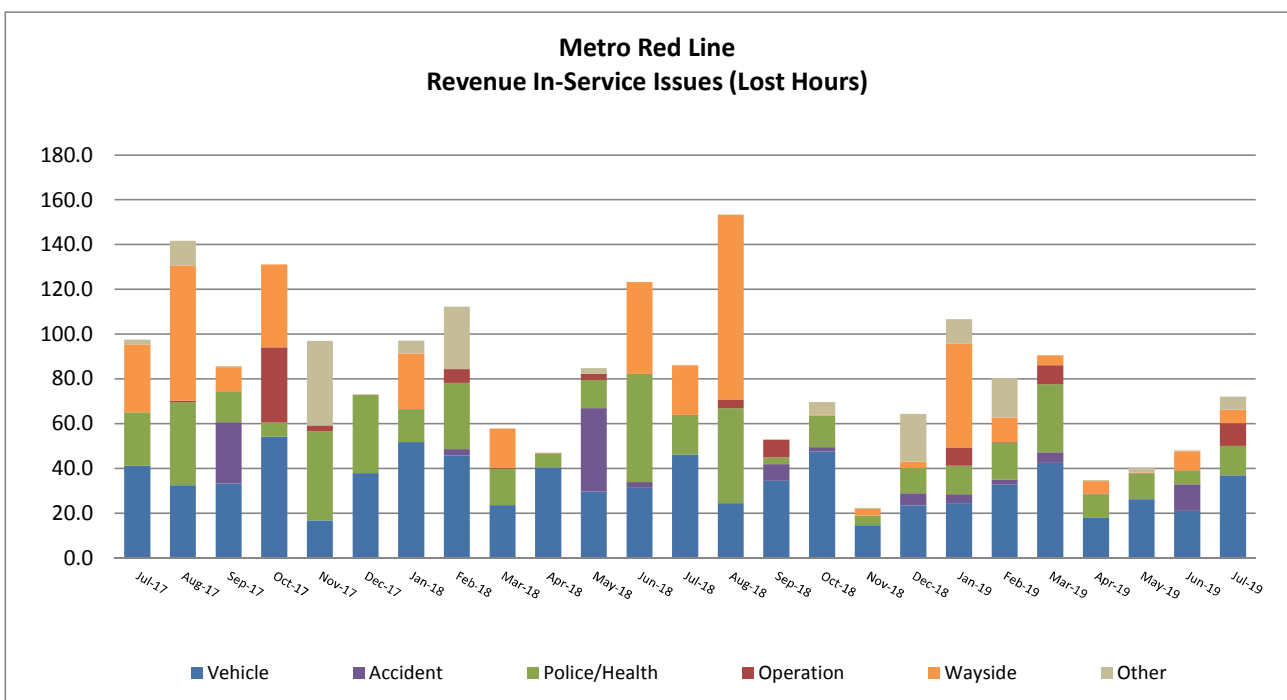
## IN-SERVICE ON-TIME PERFORMANCE



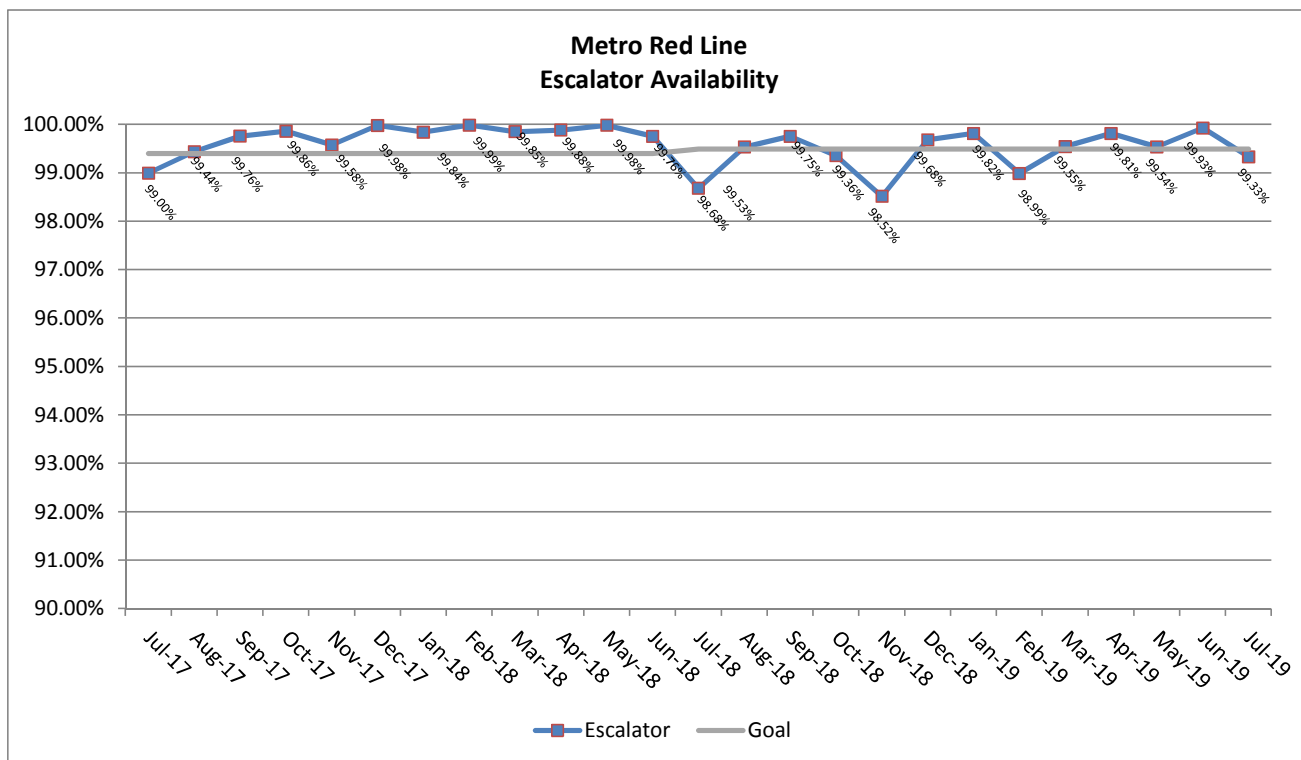
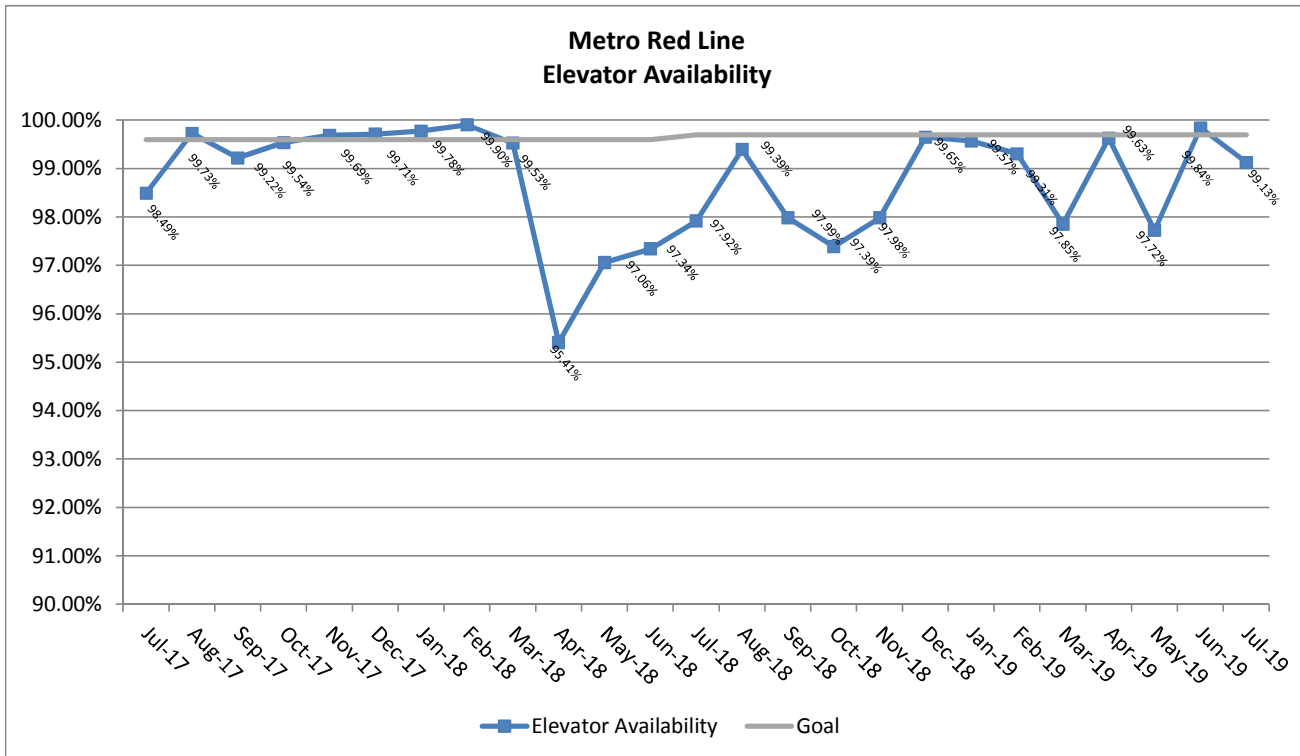
## LOST TRIPS



## LOST HOURS



## VERTICAL TRANSPORTATION AVAILABILITY



## GREEN LINE

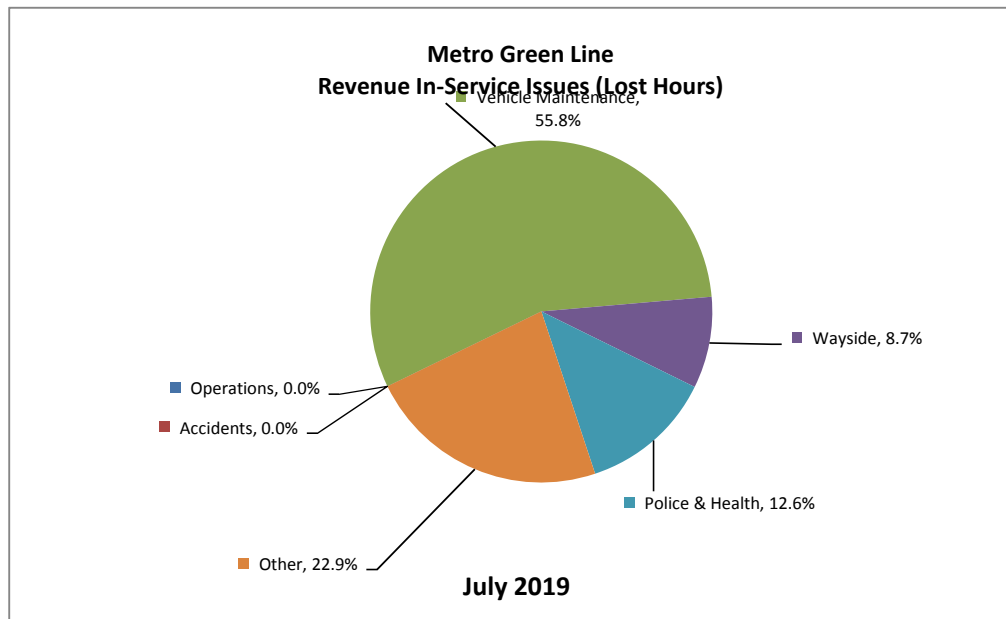
Out of a total of 9,484 hours operated, there were approximately 13 total hours of service delays.

July 2019 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	9,471	99.9%
Cancelled + Delayed Hours	13	0.1%
<b>Total Revenue Hours</b>	<b>9,484</b>	<b>100.0%</b>

Summary of the incidents:	Count	Hours	Percent
Operations	0	0.0	0.0%
Accidents	0	0.0	0.0%
Vehicle Maintenance	12	7.1	55.8%
Wayside	8	1.1	8.7%
Police & Health	5	1.6	12.6%
Other	6	2.9	22.9%
<b>Total</b>	<b>31</b>	<b>12.7</b>	<b>100.0%</b>

\* 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





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

### Operations Incidents:

None

### Vehicle Maintenance Incidents:

#### **7/1/2019 11:14:00 AM - Incident# 3169221 (0 lost trips, 20 lost minutes) CHARGEABLE**

Operator reports that the train has a friction brake fault.

Train 331

T-20

(218)-243

On approach to Hawthorne Station track 2 west bound

#### **7/1/2019 3:36:00 PM - Incident# 3169363 (1 lost trip, 66 lost minutes) CHARGEABLE**

T-257 operating Train # 337 reports No cab Signals approaching Lake wood Track # 1. Authorized to local off and Troubleshoot but No results.

#### **7/3/2019 11:27:00 PM - Incident# 3170437 (0 lost trips, 20 lost minutes) CHARGEABLE**

Auto Train Operation

Train 335

T-121

Cars 223

Douglas station eastbound tk2

#### **7/10/2019 5:25:00 AM - Incident# 3172509 (1 lost trip, 72 lost minutes) CHARGEABLE**

Train 336 / Operator T-078 / Consist (220),223

T-078 reports self applying emergency brakes on car 220.

Train 336 experienced faults Eastbound at Harbor Station , Avalon Station, and Lakewood Station.

#### **7/11/2019 6:08:00 AM - Incident# 3173029 (0 lost trips, 10 lost minutes) CHARGEABLE**

Operator T-310 reports a propulsion fault and speed restriction of 35 mph in consist (206)-226. Train 346 westbound track 1 at Harbor Station and Vermont Station.

Dispatched M-222 to investigate and troubleshoot.

#### **7/12/2019 3:43:00 PM - Incident# 3173858 (1 lost trip, 68 lost minutes) CHARGEABLE**

Operator reporting Loss of Cab Signal on Car 222A, WB Tk-1 Lakewood Station.

T-141

Train 354

Cars: (222A)-220

M-132

WB, Tk-1, Lakewood Station.

#### **7/13/2019 8:47:00 AM - Incident# 3174047 (2 lost trips, 136 lost minutes) CHARGEABLE**

Train 334 / Operator T-343 / Consist (1170)-1174

Norwalk Interlocking Track 1 Westbound

While attempting to depart Norwalk Station, Operator T-343 reports ATP Failure in car 1170.

**7/19/2019 6:59:00 PM - Incident# 3176712 (0 lost trips, 7 lost minutes) CHARGEABLE**

Train 356

T-141

(222)-(205)

Eastbound

Propulsion fault, speed restriction and doors would not open on the trailing car.

**7/21/2019 11:17:00 AM - Incident# 3177112 (0 lost trips, lost minutes)**

T-344 on Train 333 WB Tk-1 reported Prop Fault with a speed restriction at Lakewood Station.

T-344

Train: 333

Cars: (218B)-215

Lakewood Tk-1 WB

**7/23/2019 3:07:00 PM - Incident# 3178051 (0 lost trips, 6 lost minutes)**

Propulsion / Dynamic Brakes/ Auto Train Protection (Speed Limit), cars (208-226)

Train #333

T-348

East of Mariposa Station, track #1, Westbound.

**7/23/2019 3:53:00 PM - Incident# 3178105 (0 lost trips, 10 lost minutes) CHARGEABLE**

Train 356

Long Beach Station

Track 2

Eastbound

(1148), 1170

T-83 reported that LRV 1148 lost cab signal departing Long Beach Station at mile post marker 10.6.

**7/28/2019 2:42:00 PM - Incident# 3180200 (0 lost trips, 10 lost minutes) CHARGEABLE**

Train 331 departing Crenshaw Station Tk-1 EB would not pick up CAB Signal.

T-257

Train: 331

Cars: (1174A)-1142

EB Tk-1, Crenshaw Station.

M-192 @ Norwalk Station.

**Wayside Incidents:**

**7/10/2019 10:13:00 AM - Incident# 3172594 (0 lost trips, 12 lost minutes)**

TP-176, TP-197, TP-121, TP-180, and TP-149

Hi-Rail Vehicle #935 allocated on track 1 between Paramount Interlocking and Norwalk Station for OCS repair.

EIC TP-176 / WatchPerson TP-197

**7/17/2019 3:51:00 AM - Incident# 3175493 (0 lost trips, lost minutes) CHARGEABLE**

Green Line Yard

Train 332 / Operator T-070 / Consist 1169-1183

Due to the Hi Rail Vehicle experiencing difficulties setting off at the Yard Limit, Train 332 was re-routed to Yard Signal 76 due to the Hi Rail Vehicle blocking Yard Signal 78.

**7/17/2019 10:04:00 AM - Incident# 3175638 (0 lost trips, 8 lost minutes)**

Hi Rail Vehicle #939

TP-176 EIC, TP-180 Pilot, TP-158 WatchPerson, TP-126, & TP-149. OCS Repair on Track #2 between Marine Signal #4 and El Segundo Signal #2

**7/18/2019 2:41:00 AM - Incident# 3175955 (0 lost trips, 14 lost minutes)**

Train out late

Train #341, T-193

218-215

EB, Green Line Yard , Track #2

**7/22/2019 4:57:00 PM - Incident# 3177663 (0 lost trips, 10 lost minutes)**

Hawthorne TPSS Breaker B01, Breaker B11, Breaker B12, Breaker B13 and Breaker B14 opened.

Crenshaw TPSS Breaker B01, Breaker B11, Breaker B12, Breaker B13 and Breaker B14 opened.

Douglas TPSS

El Segundo TPSS

**7/25/2019 4:00:00 AM - Incident# 3178824 (0 lost trips, 10 lost minutes)**

debris over the OCS (refer to (M3 #3,178,816)

MT-154

Mile Post Marker 6.0 to 6.1 on track #1, East of Harbor Station. (Carpool connection to 110 Westbound.

**7/26/2019 9:31:00 AM - Incident# 3179428 (0 lost trips, 14 lost minutes)**

Lakewood, Paramount, Long Beach Frwy TCCB. Modem failure.

**7/30/2019 4:00:00 AM - Incident# 3180715 (0 lost trips, 4 lost minutes)**

Standby Track Circuit Failure at Norwalk TCCB and Long Beach TCCB.

**Police & Health Incidents:**

**7/2/2019 5:36:00 AM - Incident# 3169545 (0 lost trips, 10 lost minutes)**

At Marine station onboard train 333 in car 203 operator reports that the lady was on the floor requesting medical help.

**7/9/2019 12:18:00 AM - Incident# 3171952 (0 lost trips, 10 lost minutes)**

Weapon Possession  
Wilmington Station  
LASD/ Wilham

**7/9/2019 7:57:00 AM - Incident# 3172061 (1 lost trip, 72 lost minutes)**

Patron requesting medical attention, unable to move due to leg pain.

**7/10/2019 1:08:00 PM - Incident# 3172741 (0 lost trips, 6 lost minutes) CHARGEABLE**

Train 334

T-57

Norwalk Track 2 reverse running

Operator reports male trespasser walking westbound from Norwalk Station alternating from tracks 1 and 2.  
208, 218

**7/14/2019 8:10:00 PM - Incident# 3174421 (0 lost trips, lost minutes)**

Trespasser/ 7.3 MP ( East of Avalon Station)

Male Hispanic, Blue prison jumpsuit

**Other Incidents:**

**7/18/2019 2:41:00 AM - Incident# 3175977 (0 lost trips, 20 lost minutes)**

Per SCADA, Contractor Hitachi performed update for the Micro Loc Software at Marine, then the system crashed. Multiple delays for trains pulling out of the yard.

**Unable to Duplicate**

**7/24/2019 10:18:00 PM - Incident# 3178785 (0 lost trips, 10 lost minutes)**

Train Delay due to uncoupling problems.

**Reset**

**7/31/2019 10:40:00 PM - Incident# 3181568 (0 lost trips, lost minutes) CHARGEABLE**

No movement coupled and uncoupled.

**7/12/2019 7:16:00 AM - Incident# 3173605 (0 lost trips, 5 lost minutes)**

Train 342 / Operator T-393 / Consist (1169)-1173

Operator reports ATP Failure in Car 1169.

Avalon Station Track 1 Westbound.

**7/8/2019 5:05:00 PM - Incident# 3171869 (2 lost trips, 138 lost minutes) CHARGEABLE**

Train 336

Harbor Fwy Station

Track 2

(218), 222

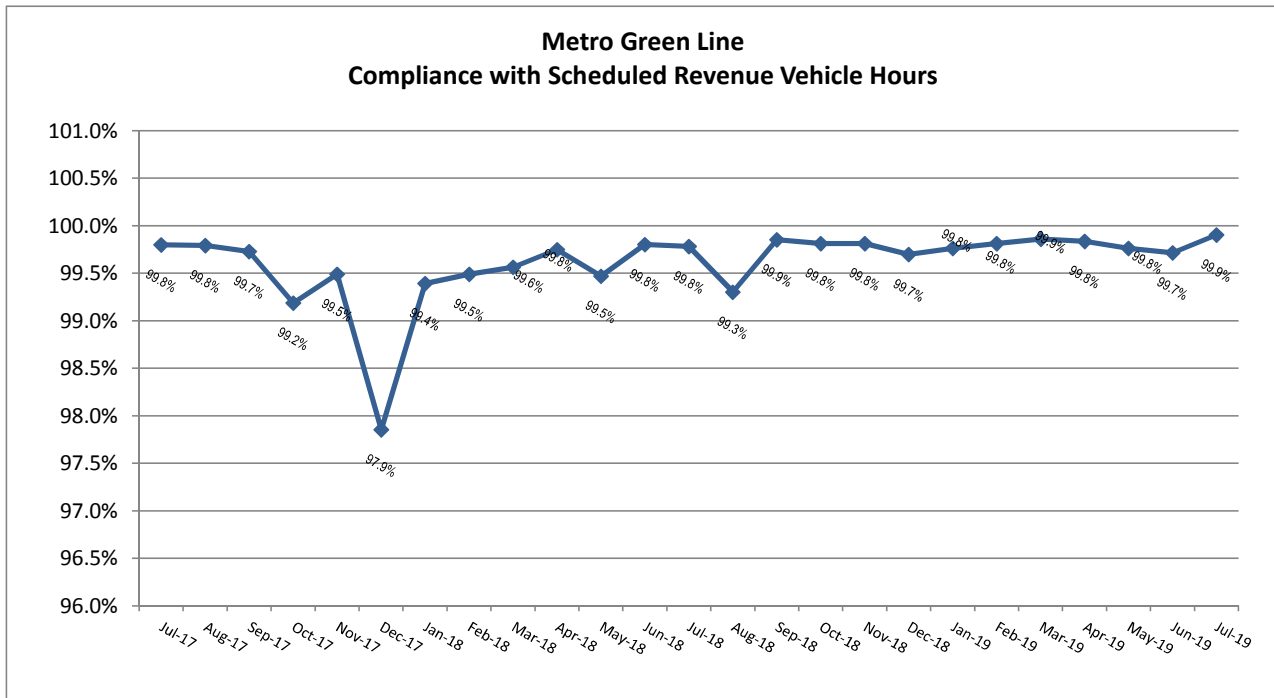
T-83

T-83 reported a propulsion fault with a speed restriction departing Harbor Fwy Station.

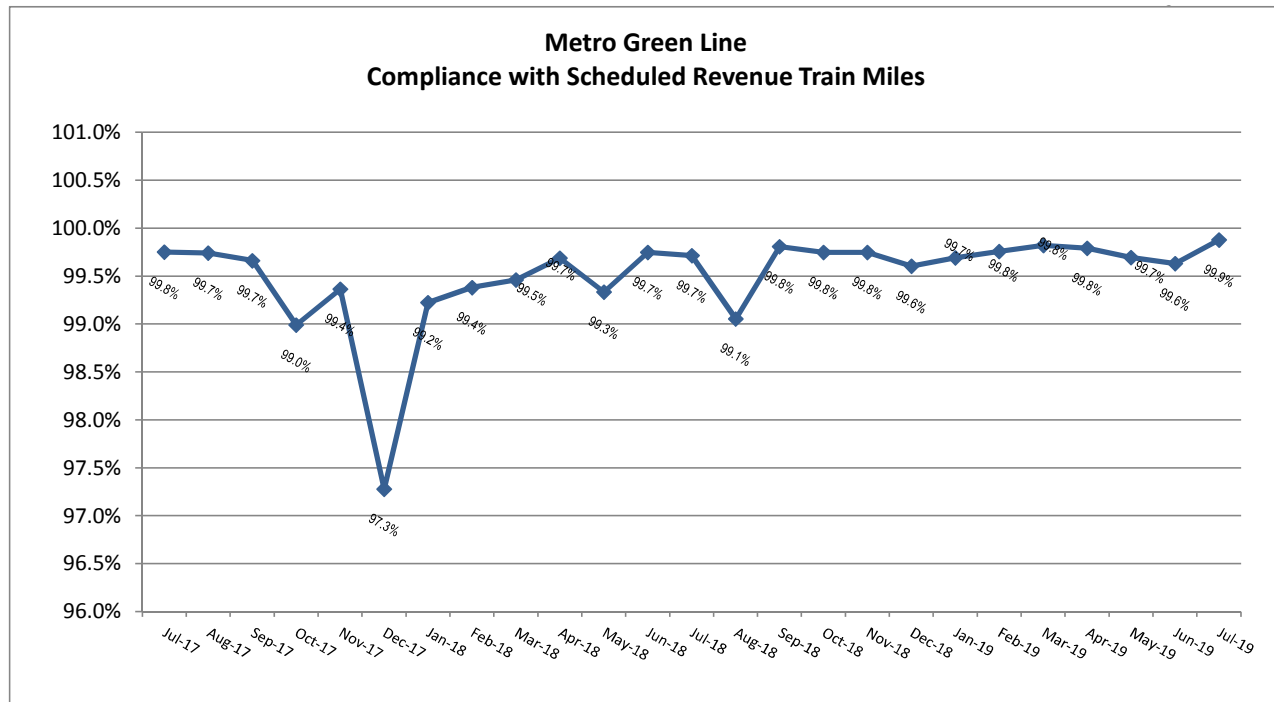
**7/20/2019 2:55:00 PM - Incident# 3176947 (0 lost trips, 5 lost minutes)**

T-20 operating Train # 334 departed 5 minutes late from Norwalk due to 10-100. T-20 reported Propulsion fault with speed restriction at lakewood stn Track#1 W/B. T-20 unable to Troubleshoot . Instructed to swap Trains with Train on Platform #2.

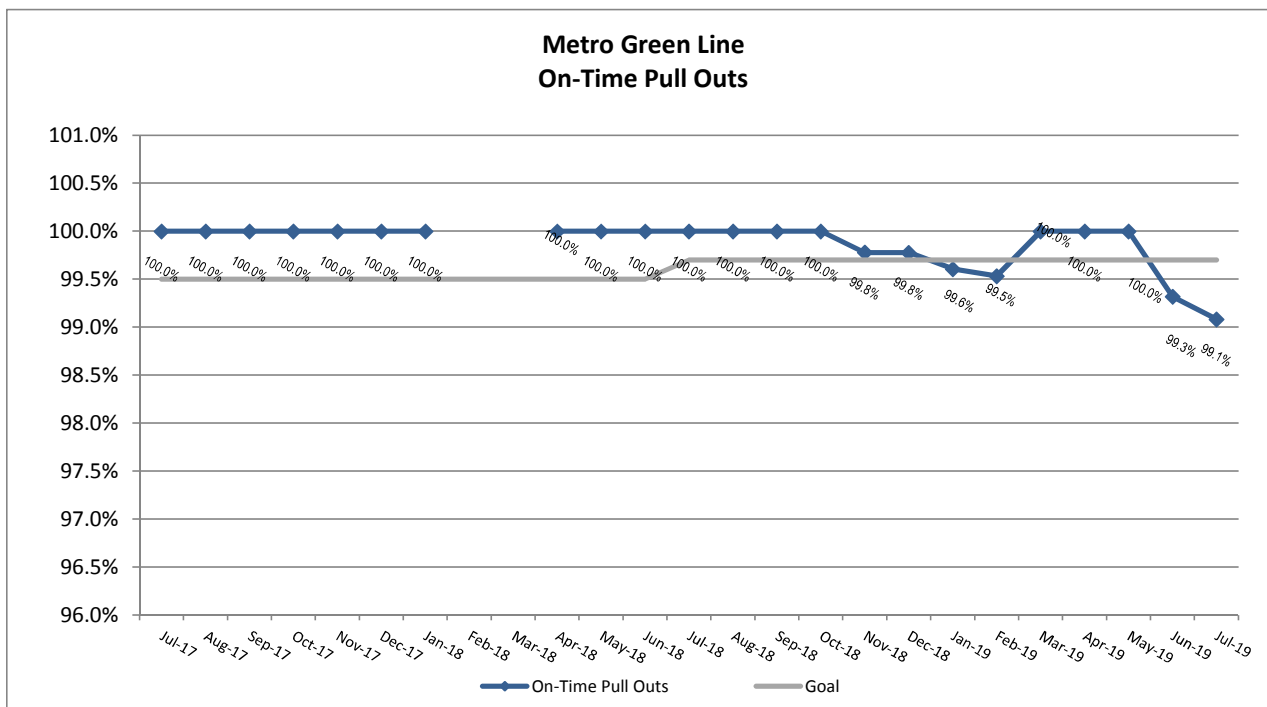
**MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS**  
**COMPLIANCE WITH SCHEDULED VEHICLE HOURS**  
**Jul 2019**



**COMPLIANCE WITH SCHEDULED TRAIN MILES**

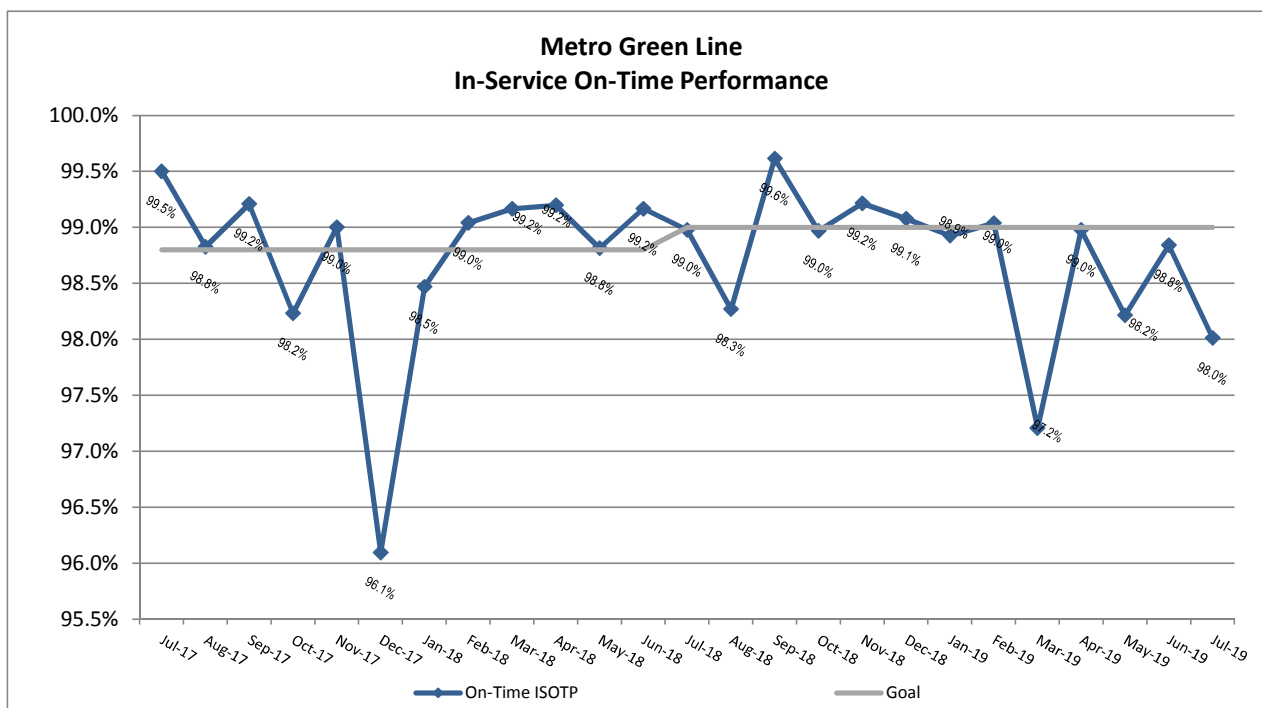


## ON-TIME PULL OUTS

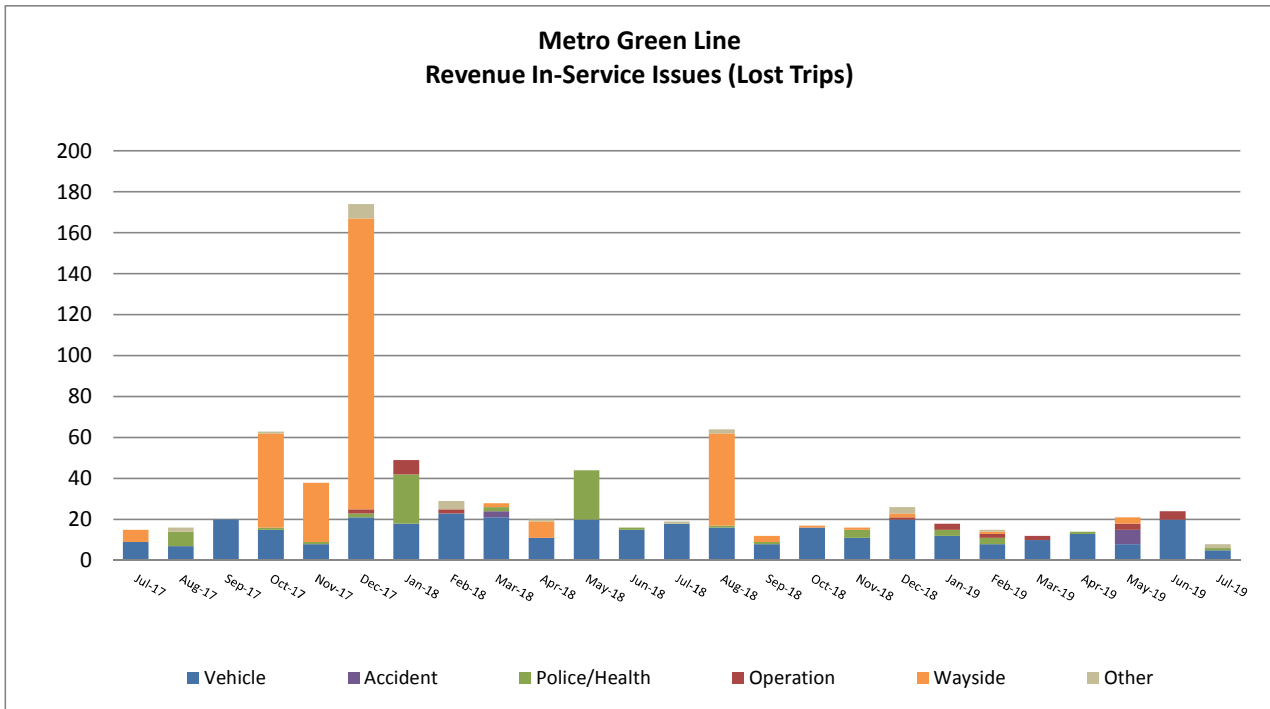


Due to the Crenshaw line link construction in Feb and March 2018, Green Line trains did not pull in or pull out, trains stayed on the tracks.

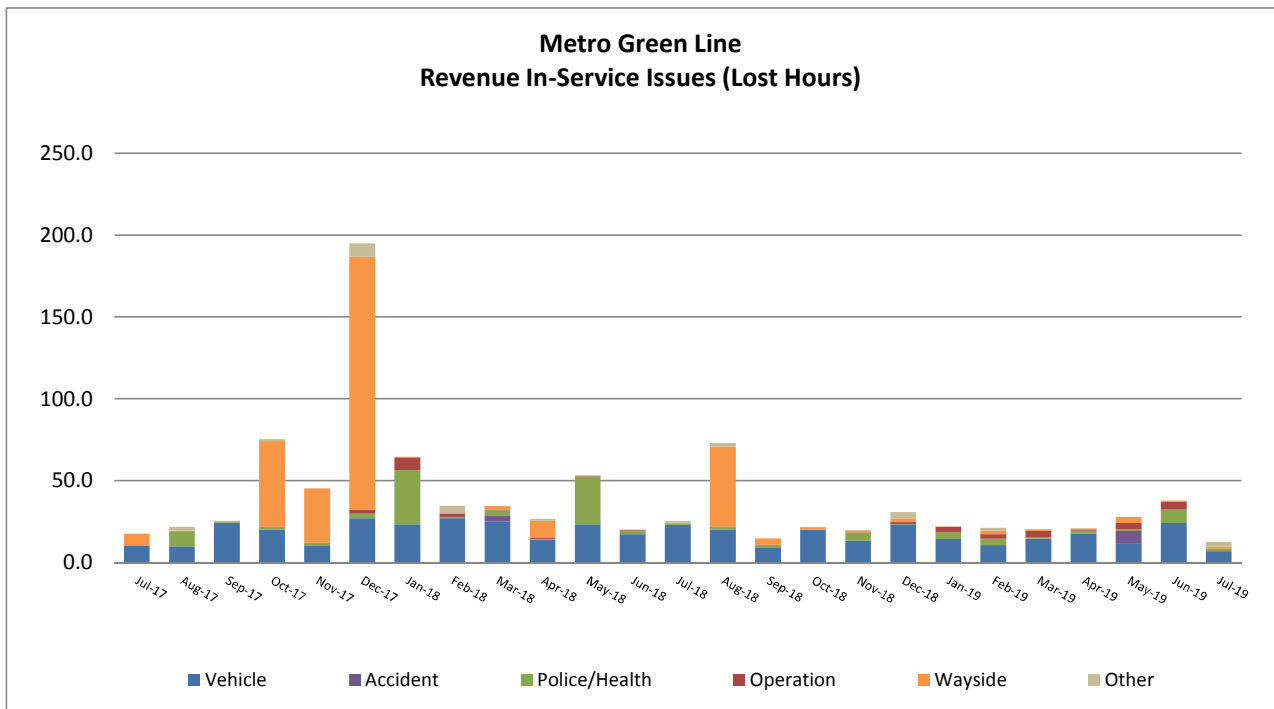
## IN-SERVICE ON-TIME PERFORMANCE



## LOST TRIPS

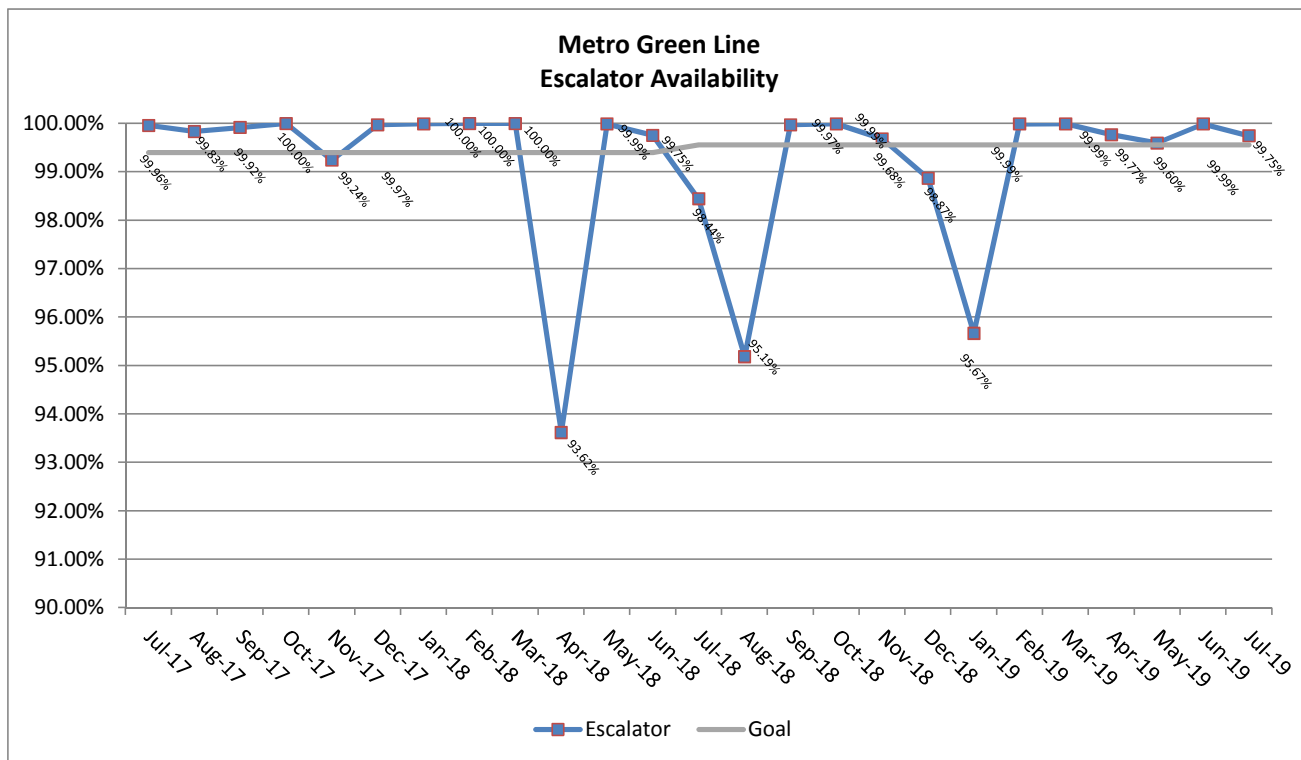
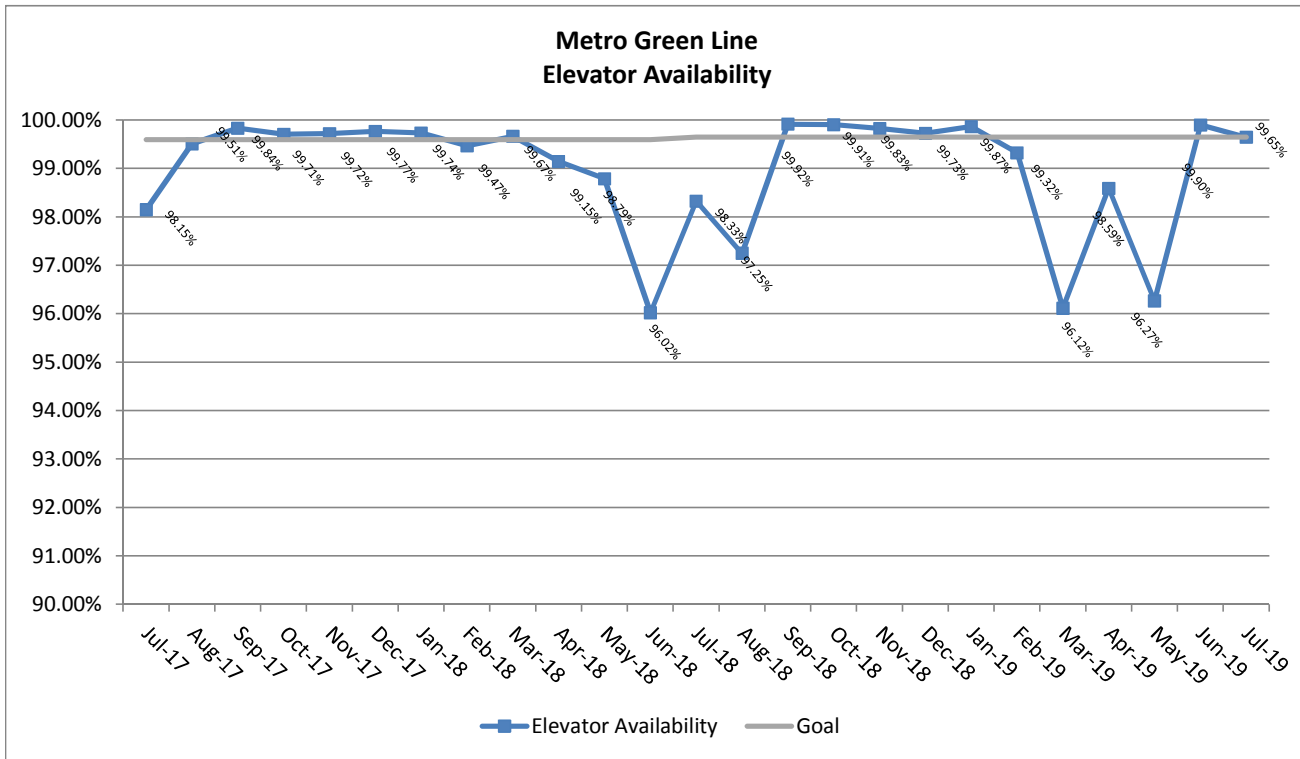


## LOST HOURS





## VERTICAL TRANSPORTATION AVAILABILITY



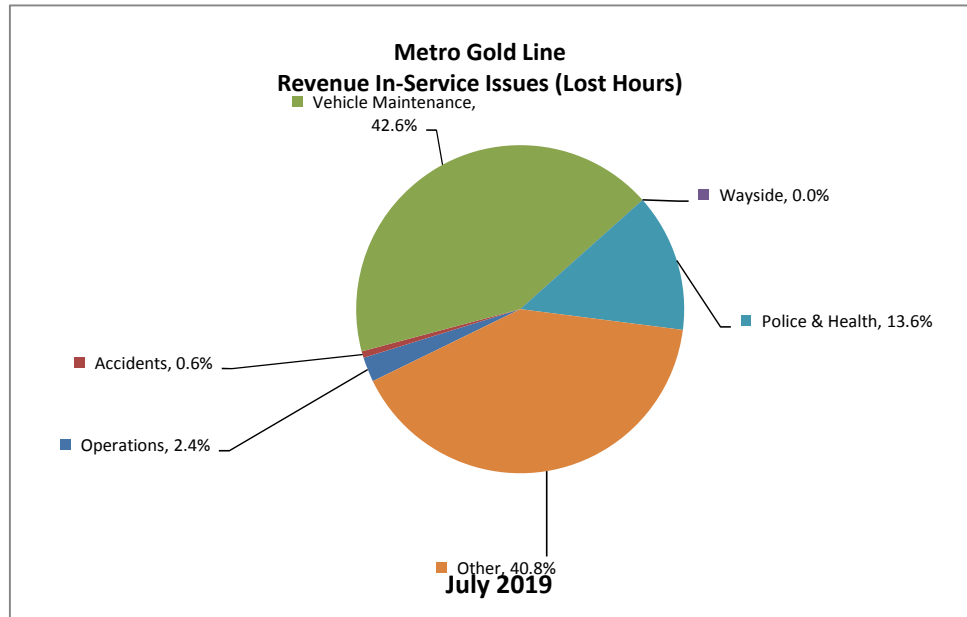
## GOLD LINE

Out of a total of 23,830 hours operated, there were approximately 44 total hours of service delays.

July 2019 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	23,786	99.8%
Cancelled + Delayed Hours	44	0.2%
<b>Total Revenue Hours</b>	<b>23,830</b>	<b>100.0%</b>

Summary of the incidents:	Count	Hours	Percent
Operations	10	1.0	2.4%
Accidents	1	0.3	0.6%
Vehicle Maintenance	21	16.6	42.6%
Wayside	0	0.0	0.0%
Police & Health	9	5.3	13.6%
Other	17	15.9	40.8%
<b>Total</b>	<b>58</b>	<b>39.0</b>	<b>100.0%</b>

\* 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



## **July 2019 Gold Line incidents causing delay were as follows:**

### **Operations Incidents:**

**7/8/2019 3:39:00 PM - Incident# 3171826 (0 lost trips, lost minutes)**

Out Late

Train 440

T-478

LRV cars 1006-1157-1056

Monrovia Yard Limits Track 2 northbound

**7/15/2019 10:13:00 AM - Incident# 3174640 (0 lost trips, 5 lost minutes)**

Train 405 had no movement when the northm LRV was uncouple from the train 105.

**7/15/2019 3:38:00 PM - Incident# 3174865 (0 lost trips, 7 lost minutes)**

Train left the yard late because a Bad Order train was pulled in before Train 427 could enter the mainline.

Train 427

T-161

LRV cars 1179-1005-1059

APU/Citrus Station track 2 southbound

**7/15/2019 4:00:00 PM - Incident# 3174896 (0 lost trips, 7 lost minutes)**

Late due to coupling at APU

Train 407

T-411

LRV cars 1178-1192

APU/Citrus Station track 2 southbound

**7/18/2019 9:08:00 AM - Incident# 3176068 (0 lost trips, 7 lost minutes)**

Train 402 which was scheduled to have the north rail car uncoupled, had problems being uncoupled.

**7/18/2019 3:01:00 PM - Incident# 3176243 (0 lost trips, 5 lost minutes)**

Delayed due to scheduled coupling.

Citrus Station

Train #404, T-63, track #2, southbound.

Consist (1124)1189,1057.

**7/18/2019 3:41:00 PM - Incident# 3176271 (0 lost trips, 5 lost minutes) CHARGEABLE**

Delayed due to scheduled coupling.

Citrus Station

Train #406, T-02, track #2, southbound.

Consist (1006)1162,1159.

**7/22/2019 9:13:00 AM - Incident# 3177383 (0 lost trips, 8 lost minutes)**

Train 402 departed 08 minutes late from APU due to Isolate Connect and door problem indications.

Train 402

T-223

LRV-718-727

APU Station track 1, southbound.

**7/24/2019 5:48:00 AM - Incident# 3178321 (0 lost trips, 13 lost minutes) CHARGEABLE**

Signal Over run

Train 411

T-534

Cars (718)-727-702

Signal 2N Indiana

**7/26/2019 3:31:00 PM - Incident# 3179716 (0 lost trips, 4 lost minutes) CHARGEABLE**

Train 406 and train 407 did not become a three car consist at APU per the schedule.

**Accidents:**

**7/31/2019 12:40:00 PM - Incident# 3181375 (0 lost trips, 15 lost minutes) CHARGEABLE**

Train vs. Pedestrian 10-72.

Virginia grade crossing

Train #403, T-215, track #1, northbound.

Consist (1159A)1124.

**Vehicle Maintenance Incidents:**

**7/1/2019 2:55:00 PM - Incident# 3169339 (0 lost trips, 10 lost minutes) CHARGEABLE**

T-106 reported an ATP fault with no movement.

**7/1/2019 4:51:00 PM - Incident# 3169403 (1 lost trip, 231 lost minutes) CHARGEABLE**

Prop Fault-Friction Brake ( no movement)

Train 461 SB Track #2 Monrovia Sta

T-203

744-741-737

**7/1/2019 5:08:00 PM - Incident# 3169460 (1 lost trip, 201 lost minutes) CHARGEABLE**

Self applying friction brakes

Train 440 NB TK1 Mariachi Station

T-440

(716)-709-706

**7/3/2019 2:13:00 PM - Incident# 3170294 (0 lost trips, 8 lost minutes)**

Train 403

Civic Center Station

Track 1

T-536

(705 B), 729, 723

T-536 reported self applying brakes on car 705 B.

**7/3/2019 2:44:00 PM - Incident# 3170297 (0 lost trips, 5 lost minutes) CHARGEABLE**

Train 434  
Atlantic Station  
Track 1  
(734 A), 708, 707  
T-340 reported door issues on car 734 A, doors 5/6.

**7/4/2019 5:39:00 AM - Incident# 3170484 (0 lost trips, 12 lost minutes) CHARGEABLE**

Train 403  
T-441  
LRV Cars (1056A)-1055  
NB Track 1 Atlantic Station  
Operator reports of a door Fault LRV Car 1056A doors 7/8

**7/7/2019 3:42:00 PM - Incident# 3171350 (0 lost trips, 7 lost minutes) CHARGEABLE**

Train 406 SB Tk-2 @ Duarte Station, T-035 reports Prop Fault with a speed restriction on car 710.  
T-035  
Train #406  
Cars: 716-(710)  
SB Tk-2 Duarte Station.

**7/7/2019 9:18:00 PM - Incident# 3171400 (0 lost trips, 8 lost minutes) CHARGEABLE**

Train 410 reported no cab signals departing APU/Citrus  
Train 410  
T-192  
(728A)-724  
APU Station, Platform 1, Southbound

**7/8/2019 5:54:00 AM - Incident# 3171462 (0 lost trips, 8 lost minutes)**

Propulsion / Dynamic Brakes, cars #(718A)-714-715  
Train #401  
T-354  
Irwindale Station, track #1, Northbound.

**7/8/2019 4:09:00 PM - Incident# 3171864 (0 lost trips, lost minutes) CHARGEABLE**

Auto Train Protection (Speed Limit)  
Train 441  
T-273  
LRV cars 1178-1180-1172  
Arcadia Station track 2 southbound

**7/9/2019 4:44:00 PM - Incident# 3172344 (0 lost trips, lost minutes) CHARGEABLE**

No Cab Signal  
Train 433  
T-158  
LRV cars 1162-1188-1058  
Lincoln/Cypress Station track 1 northbound

**7/14/2019 12:00:00 PM - Incident# 3174327 (0 lost trips, 12 lost minutes)**

Operator reports a propulsion fault in the trailing car.  
Train-410  
T-151  
Cars 718, (710)  
Track 1, Ditman IL, NB

**7/15/2019 5:15:00 AM - Incident# 3174490 (0 lost trips, 6 lost minutes)**

Train/T-215 reporting brake fault with audible, Smelling brakes  
Train 402  
T-215  
LRV'S (1180 ) (1012)1185  
Atlantic Station track 2 northbound.

**7/17/2019 10:42:00 AM - Incident# 3175658 (1 lost trip, 206 lost minutes)**

Train operator of a HSCB / Propulsion fault

Train 453  
T-066  
(740A) 744-739  
Atlantic Terminal, Trk. 2, Northbound

**7/19/2019 6:20:00 PM - Incident# 3176713 (0 lost trips, 7 lost minutes)**

Doors, Cars #1166-(1175)-1179  
Train #408  
T-316  
Arcadia Station, track #2, Southbound.

**7/23/2019 4:28:00 PM - Incident# 3178139 (0 lost trips, 8 lost minutes)**

No Air Pressure  
Train 940  
T-178  
LRV car 749  
Atlantic Interlocking track 1 northbound

**7/24/2019 10:50:00 AM - Incident# 3178482 (0 lost trips, 20 lost minutes)**

Propulsion Failure  
Train 404  
T-215  
Cars 1167-(1188)  
Highland Park Station

**7/24/2019 1:03:00 PM - Incident# 3178549 (0 lost trips, 8 lost minutes)**

Major propulsion fault/Speed restriction  
T-151  
Train 409  
706-(716)-(731)  
Fillmore Station Tk 1 N/B

**7/25/2019 12:54:00 PM - Incident# 3179223 (1 lost trip, 211 lost minutes)**

Operator reports brakes will not release.

Train-404  
T-129  
Cars (720), 719  
Allen Station, Track 2, SB

**7/30/2019 6:05:00 AM - Incident# 3180743 (0 lost trips, 8 lost minutes) CHARGEABLE**

Multiple faults and speed restrictions.

Train#402  
T#215  
1167,1157,(1104A/B)  
Track#1,Northbound,Monrovia Station.

**7/31/2019 6:03:00 AM - Incident# 3181221 (0 lost trips, 20 lost minutes) CHARGEABLE**

Allen Station Track-2, Train-410 T-263 consist #734-713-705 with continuous propulsion faults on car #734B.

**Police & Health Incidents:**

**7/2/2019 5:07:00 PM - Incident# 3169844 (0 lost trips, 7 lost minutes) CHARGEABLE**

Female patron having a seizure on board Train 435.

**7/2/2019 6:59:00 PM - Incident# 3169869 (0 lost trips, 10 lost minutes)**

Trespasser laying down between tracks at Del Mar Station.

**7/10/2019 12:57:00 AM - Incident# 3172437 (1 lost trip, 239 lost minutes)**

LASD reports possible man with a gun at Irwindale Station, unknown location at station.

**7/11/2019 3:17:00 AM - Incident# 3172991 (0 lost trips, 8 lost minutes)**

ARINC indicates false occupancy:  
Irwindale tk 1, tk circuit 1261, 281  
Irwindale tk 2. tk circuit 1282, 1312

**7/11/2019 6:20:00 AM - Incident# 3173042 (0 lost trips, 8 lost minutes)**

Field Supervisor (R-088) is requesting LAPD assistance, regarding a possible trespasser.

**7/11/2019 12:22:00 PM - Incident# 3173196 (0 lost trips, 10 lost minutes)**

Metro security officer Kiwi received a report of a woman screaming on train 406 car 1191.

**7/12/2019 2:38:00 PM - Incident# 3173913 (0 lost trips, 18 lost minutes)**

South Pasadena Police department reports a suicidal Hispanic Female at Mission grade crossing.

Description: Hispanic Female approximately 18 years of age wearing a grey shirt and black leggings.

**7/26/2019 7:30:00 AM - Incident# 3179431 (0 lost trips, 10 lost minutes)**

Train 408 was delayed by approximately ten (10) minutes upon arrival at Allen Station

Train 408

T-283

1124-1008-1178

Allen Station, Trk. 1, Northbound

**7/31/2019 5:00:00 PM - Incident# 3181484 (0 lost trips, 12 lost minutes)**

Blockade, traffic accident blocking both tracks.

3rd and Mednik

**Other Incidents:**

**7/2/2019 4:43:00 AM - Incident# 3169523 (0 lost trips, 6 lost minutes)**

Train 404 reports that someone pull the "T" for doors on 703.

Train 404

T-338

LRV'S 710-735-( 703B )

Arcadia Station track 2 southbound.

**7/7/2019 9:45:00 AM - Incident# 3171271 (0 lost trips, 14 lost minutes)**

Offensive interior car smell, inside cars (1056,1055).

Train#403

T#250

(1056,1055)

Track#2,Allen Station,Southbound.

**7/7/2019 12:41:00 PM - Incident# 3171303 (0 lost trips, 6 lost minutes)**

Train 403 SB @ South West Museum, reports of a patron requesting medical attention for a slip and fall.

Train 403

T-156

Cars: 705-(729)

**7/22/2019 7:34:00 AM - Incident# 3177347 (1 lost trip, 206 lost minutes)**



Train 413 reporting a Slip/Fall on board LRV 1011B  
Train 413  
T-131  
LRV'S (1011B) 1188-1059  
Arcadia Station, track 2 southbound.

**7/25/2019 1:34:00 PM - Incident# 3179113 (0 lost trips, 10 lost minutes)**

Operator reports a small brush fire on track two side between Lincoln Cypress and MPM 1.5

**Unable to Duplicate**

**7/22/2019 10:30:00 PM - Incident# 3177763 (0 lost trips, 8 lost minutes)**

Reports of no power/no movement  
Train # 407  
T-228  
(1058B)-1104  
Atlantic Station, Track #1, NB

**7/23/2019 12:58:00 AM - Incident# 3177788 (0 lost trips, 10 lost minutes)**

Reports of no cab signal/unable to engage stop and proceed  
Train # 424  
T-316  
(1161B)-1160  
Little Tokyo Station, Track #1, NB

**7/24/2019 10:25:00 AM - Incident# 3178452 (0 lost trips, 6 lost minutes)**

High Speed Circuit Breaker Failure  
Train 405  
T-340  
Cars (723)-707-712  
Duarte Station track 2 South

**7/8/2019 6:12:00 AM - Incident# 3171467 (0 lost trips, 5 lost minutes) CHARGEABLE**

ATP failure, cars #(734A)-703-706  
Train #413  
T-338  
Indiana Station, track #1, Northbound.

**7/9/2019 6:35:00 PM - Incident# 3172374 (1 lost trip, 219 lost minutes)**

ATP Fault (no movement)  
Train 403  
T-158  
LRV cars 1124-1165  
Fillmore Station track 2 southbound

**7/17/2019 3:42:00 PM - Incident# 3175798 (0 lost trips, 8 lost minutes)**

Train with no movement after coupling at APU Citrus.

T-002

Train 406

(1178)-1158-1191

APU Citrus Tk 1

**7/17/2019 10:36:00 PM - Incident# 3175932 (0 lost trips, 10 lost minutes)**

Reports of no cab signal

Train #407

T-228

(1186B)-1005

Civic Center Station, Track #1, NB

**7/24/2019 5:41:00 PM - Incident# 3178685 (1 lost trip, 199 lost minutes)**

Propulsion/Speed restriction.

T-161

Train 407

(1188)-1192-1190

Highland Park Tk 1 N/B

**7/31/2019 2:18:00 PM - Incident# 3181418 (0 lost trips, 6 lost minutes)**

ATP failure departing main yard / 11, / 12, ( / 21A).

Monrovia Interlocking.

**Reset**

**7/3/2019 9:30:00 AM - Incident# 3170169 (0 lost trips, 12 lost minutes)**

Train 407 reports propulsion faults on LRV 735

Train 407

T-301

LRV'S 710-(735)-703

Maravilla Station track 1 northbound.

**7/5/2019 4:53:00 AM - Incident# 3170684 (1 lost trip, 219 lost minutes) CHARGEABLE**

Reports door problem.

Train #401

T-323

(1111A)-1163-1188

Little Tokyo Station, Track #1, NB

**7/10/2019 4:20:00 AM - Incident# 3172451 (0 lost trips, 14 lost minutes)**

Train 453

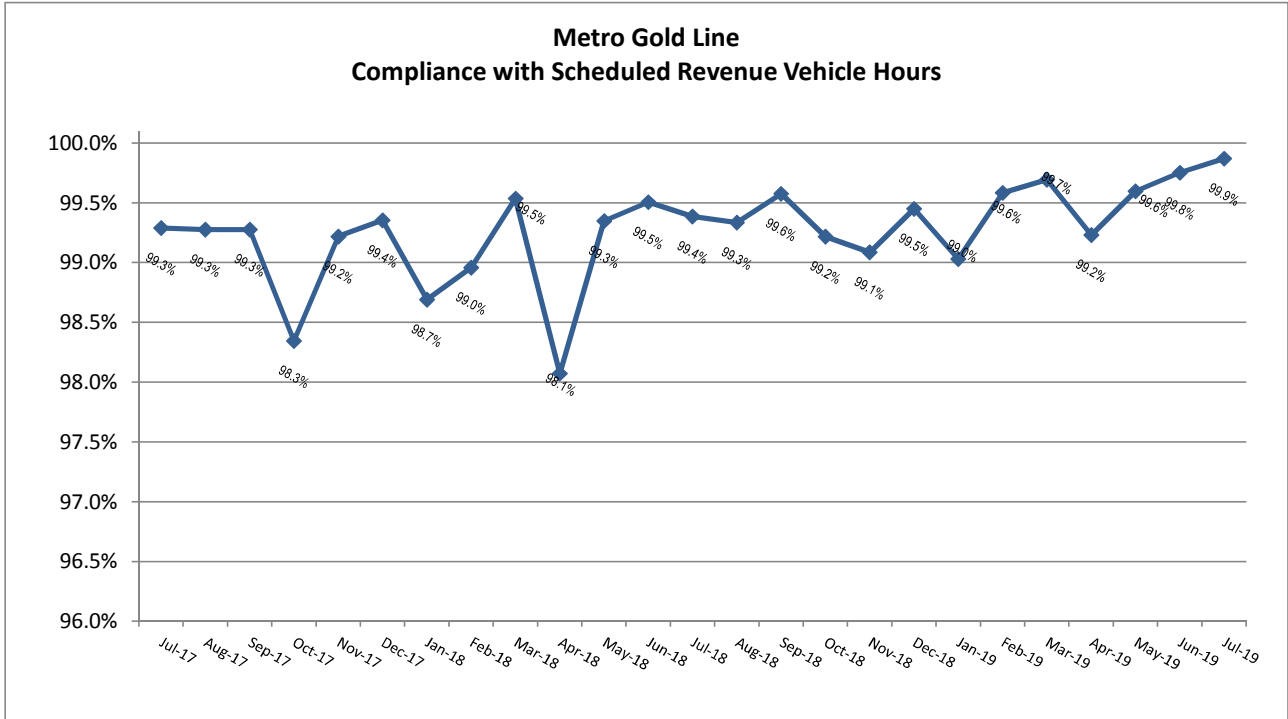
T-25

LRV Cars (742-744-747)

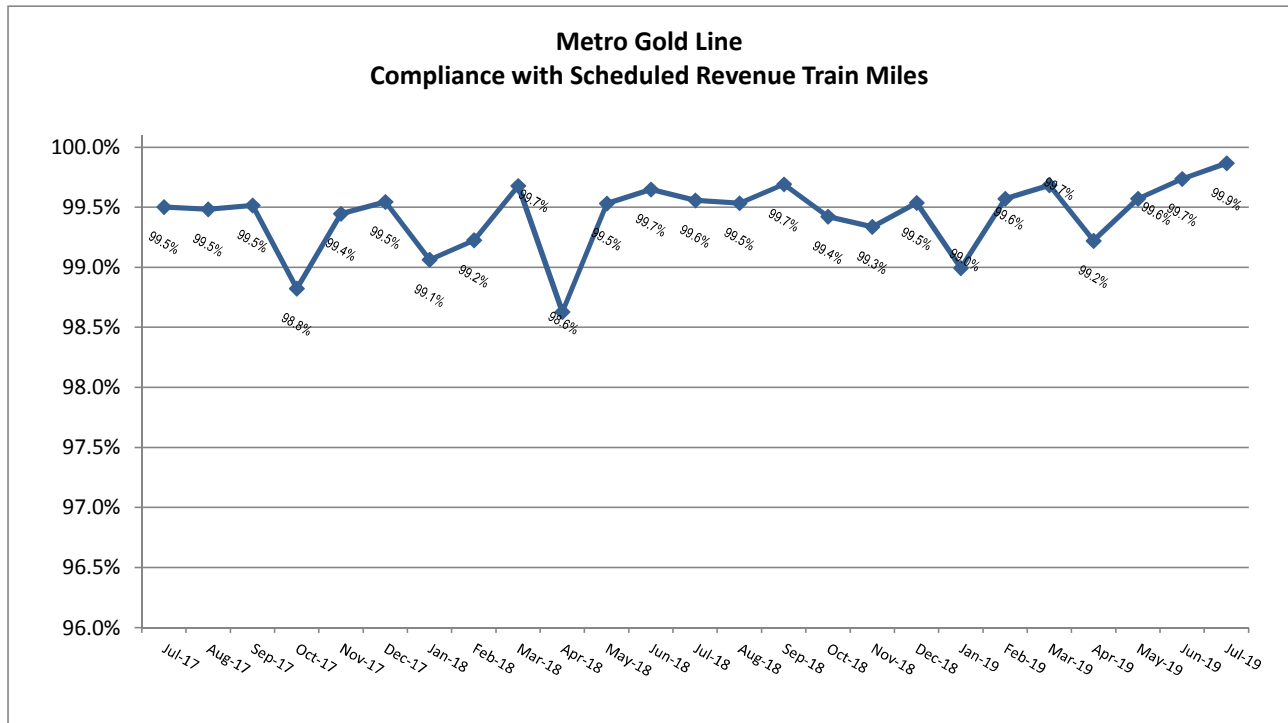
SB Tk2 Pico/Aliso Station

Operator is reporting of Prop/Dynamic and Friction Brake Fault

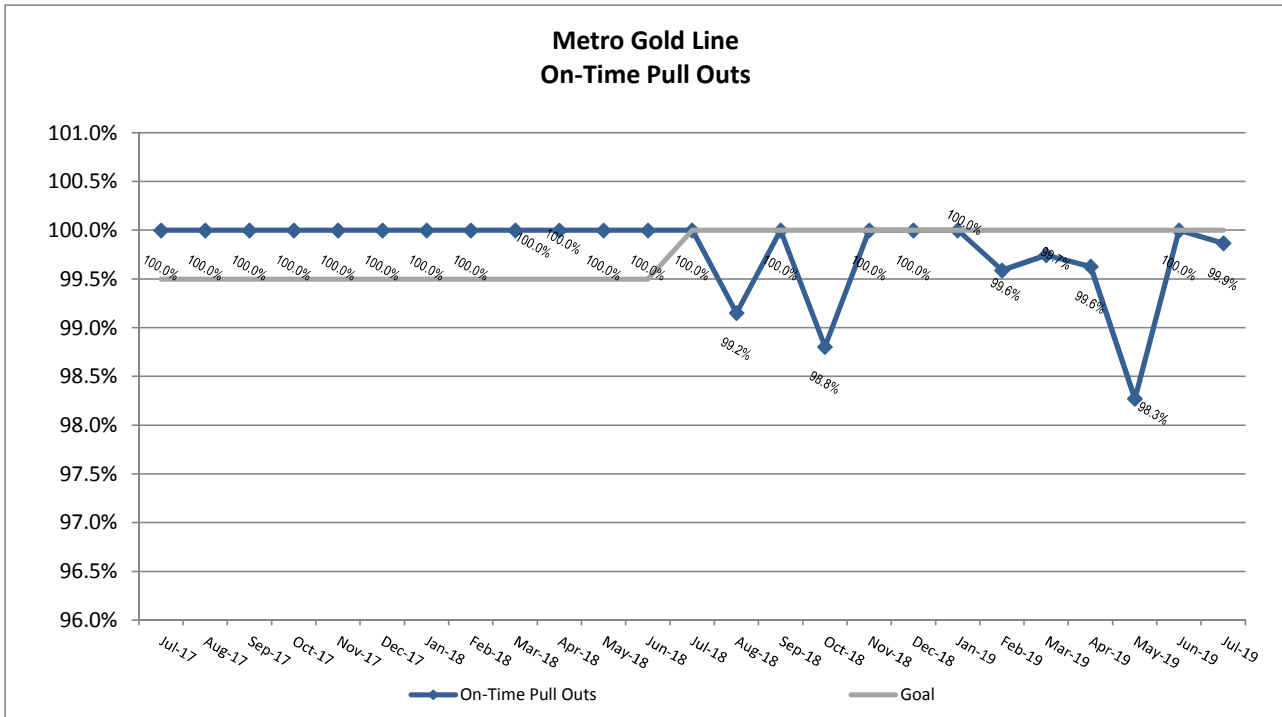
**MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS**  
**COMPLIANCE WITH SCHEDULED VEHICLE HOURS**  
**Jul 2019**



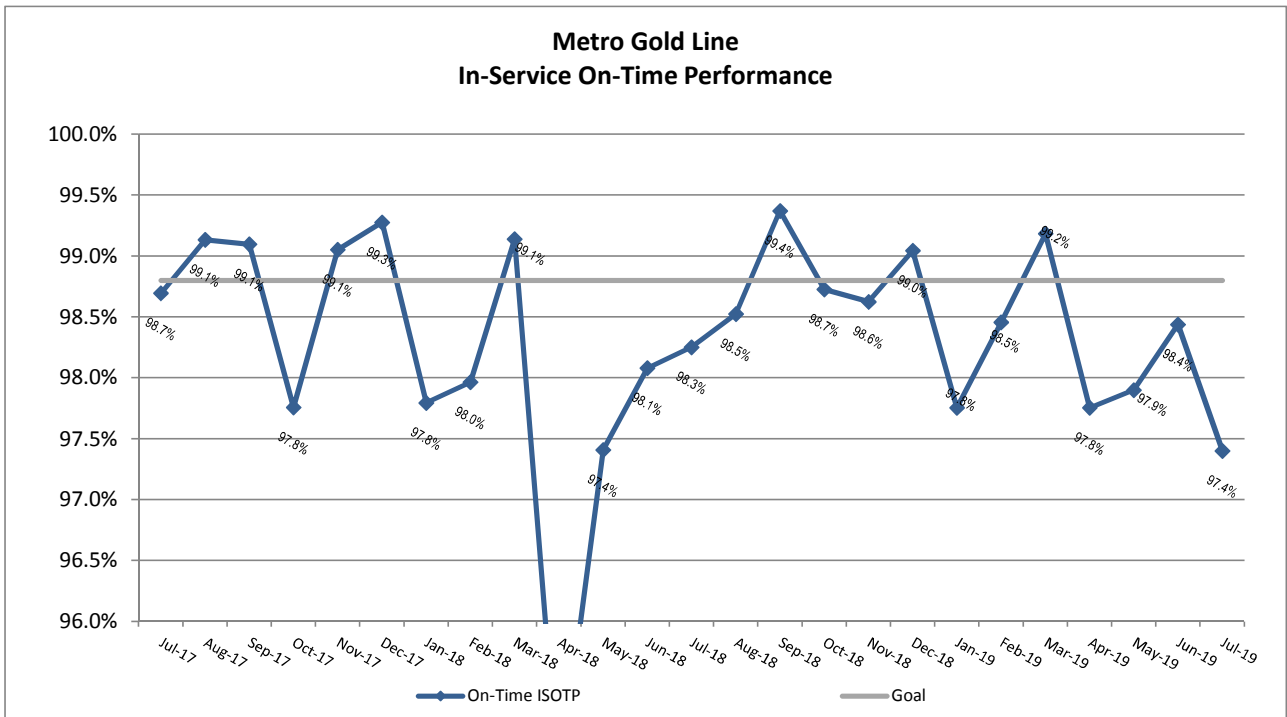
**COMPLIANCE WITH SCHEDULED TRAIN MILES**



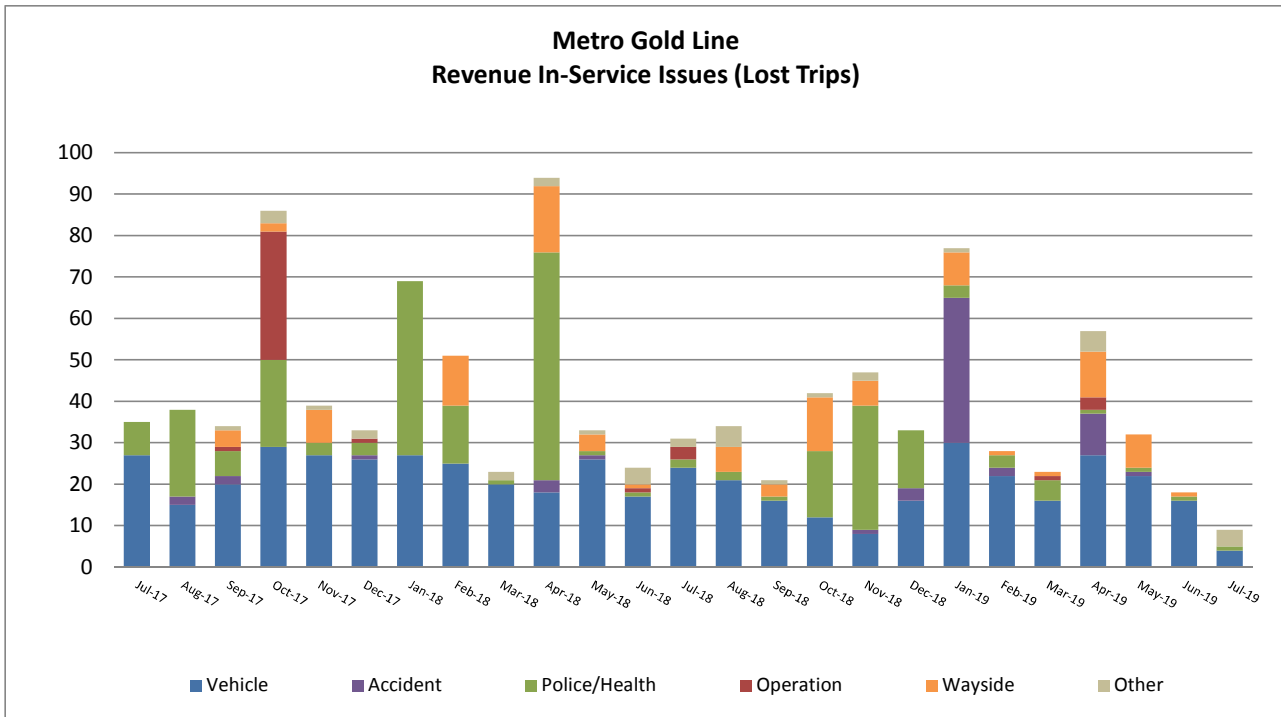
## ON-TIME PULL OUTS



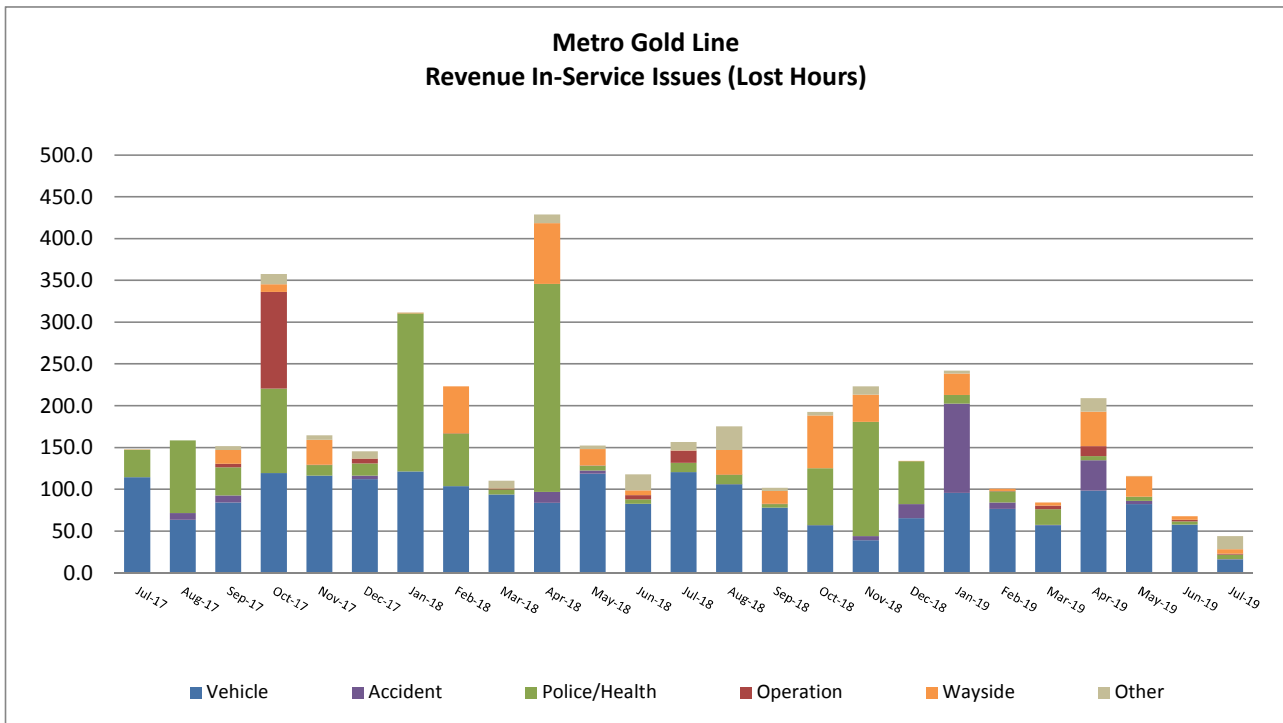
## IN-SERVICE ON-TIME PERFORMANCE



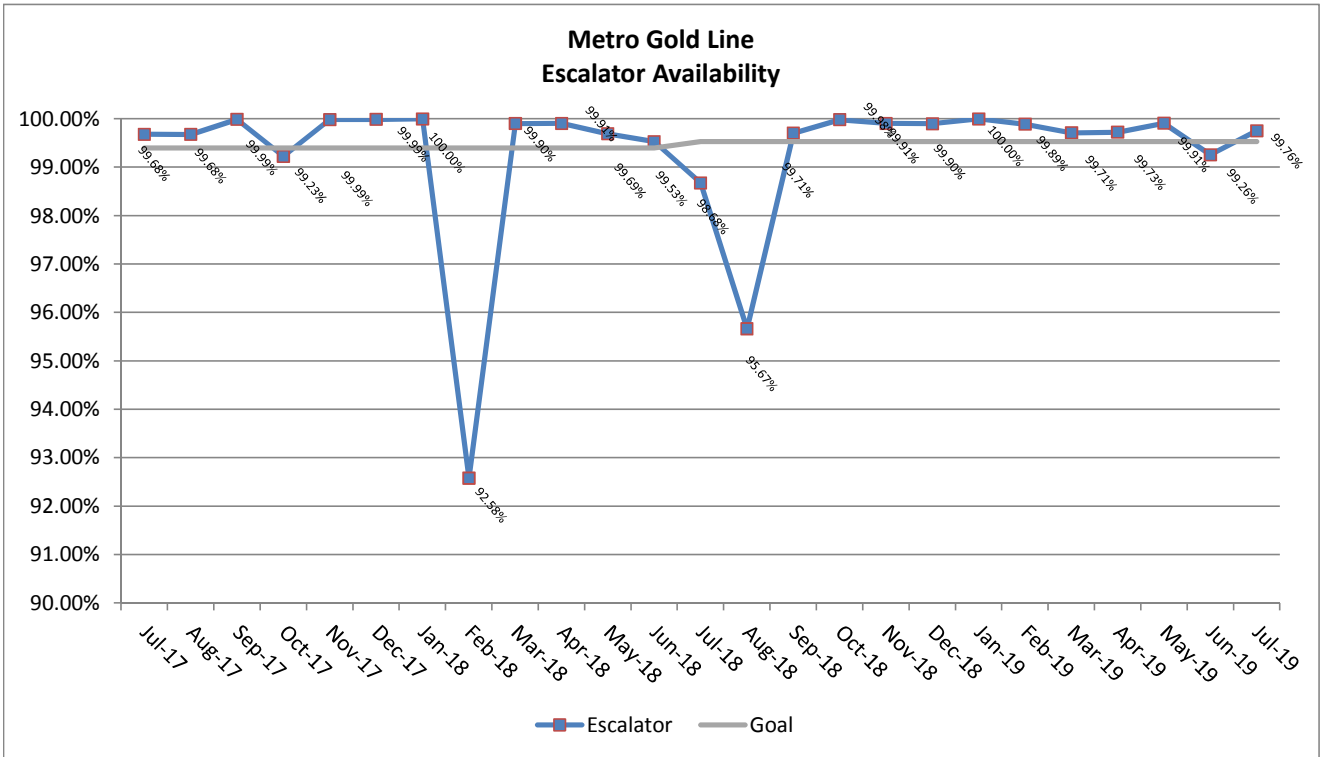
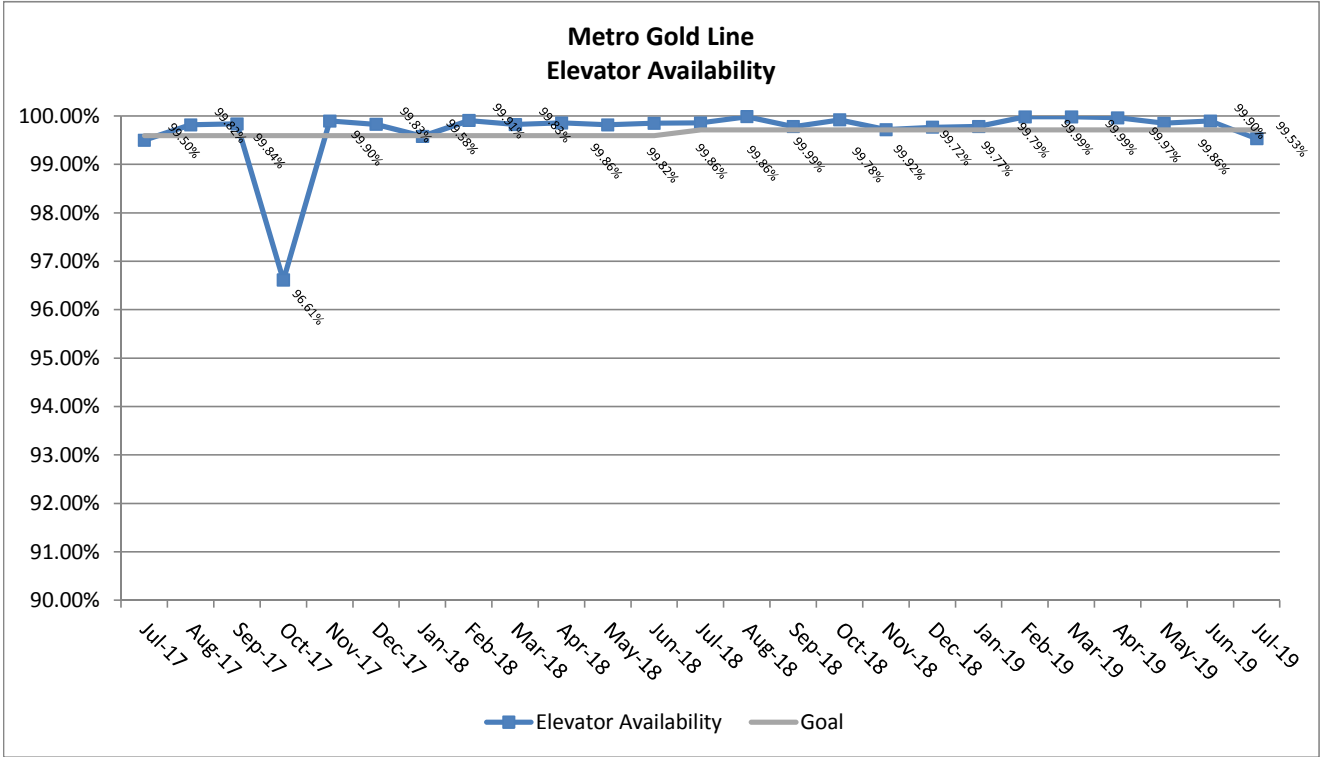
## LOST TRIPS



## LOST HOURS



## VERTICAL TRANSPORTATION AVAILABILITY



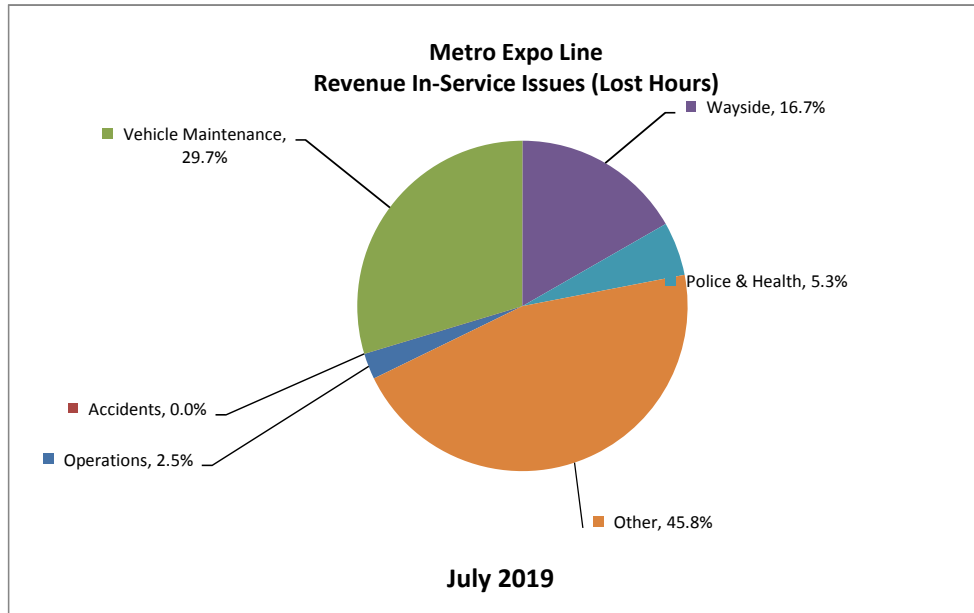
## EXPO LINE

Out of a total of 20,343 hours operated, there were approximately 16 total hours of service delays.

July 2019 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	20,327	99.9%
Cancelled + Delayed Hours	16	0.1%
<b>Total Revenue Hours</b>	<b>20,343</b>	<b>100.0%</b>

Summary of the incidents:	Count	Hours	Percent
Operations	3	0.4	2.5%
Accidents	0	0.0	0.0%
Vehicle Maintenance	5	4.8	29.7%
Wayside	2	2.7	16.7%
Police & Health	4	0.9	5.3%
Other	6	7.4	45.8%
<b>Total</b>	<b>20</b>	<b>16.2</b>	<b>100.0%</b>

\* 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



## **July 2019 Expo Line incidents causing delay were as follows:**

### **Operations Incidents:**

**7/10/2019 9:08:00 PM - Incident# 3172927 (0 lost trips, 8 lost minutes) CHARGEABLE**

Operator Late for Relief

Train #618, T-114

1047B-1050-1001

NB, Downtown Santa Monica Station, Track #3

**7/23/2019 1:48:00 PM - Incident# 3178015 (0 lost trips, 13 lost minutes) CHARGEABLE**

Other: Information Only.

Operator departed 23rd station in stop and proceed.

Train #608

T-232

Cars 244-237-301

23rd station southbound.

**7/31/2019 2:45:00 PM - Incident# 3181416 (0 lost trips, 5 lost minutes)**

Train 619, T-315 pulled out the yard 5 minutes down.

### **Vehicle Maintenance Incidents:**

**7/5/2019 5:36:00 PM - Incident# 3170929 (0 lost trips, lost minutes)**

No Southbound Movement Track 4 23rd/LATTC

Train 621

T-021

(242,247)

23rd street, Track 4, southbound

**7/9/2019 6:07:00 AM - Incident# 3172032 (0 lost trips, 4 lost minutes)**

ATP Fail no movement

Train #615 T-038 Car #245B-247-246

Santa Monica station northbound.

**7/13/2019 1:23:00 PM - Incident# 3174113 (1 lost trip, 141 lost minutes)**

Train 609 Car 248/245/238 has intermittent propulsion faults.

**7/17/2019 7:55:00 AM - Incident# 3175601 (0 lost trips, 6 lost minutes)**

DTSM Track-5, Train-609 T-123 cars 1041-1063-1032 with sluggish propulsion and dark ADU on car #1041A.

**7/23/2019 2:34:00 PM - Incident# 3178038 (1 lost trip, 141 lost minutes)**



Doors  
Train 608  
T- 473  
Cars 244-237-301  
26th street station tk4 S/B

### **Wayside Incidents:**

**7/3/2019 5:39:00 AM - Incident# 3169996 (0 lost trips, 6 lost minutes)**  
Train 606 out late due switch #17 out of correspondence

**7/14/2019 7:58:00 PM - Incident# 3174431 (1 lost trip, 161 lost minutes)**  
AO1 at Cimmarron Halldale, and 37th TPSS

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

**7/7/2019 8:55:00 PM - Incident# 3171390 (0 lost trips, 12 lost minutes)**  
T-219 reports of a trespasser at 7th and Exposition walking south on track 4.

**7/15/2019 8:16:00 PM - Incident# 3174987 (0 lost trips, 13 lost minutes)**  
LASD requested train to hold at Bundy for reported assault.

**7/15/2019 9:34:00 PM - Incident# 3174992 (0 lost trips, 13 lost minutes)**  
S-65 requested law enforcement response to Santa Monica station.

**7/20/2019 8:46:00 PM - Incident# 3176996 (0 lost trips, 13 lost minutes)**  
TSB called requested for trains to hold due to armed 211 around the Downtown Santa Monica area.

### **Other Incidents:**

**7/2/2019 4:04:00 PM - Incident# 3169830 (1 lost trip, 141 lost minutes) CHARGEABLE**  
Train 625 did not make roll out due daily inspection.

**7/10/2019 6:08:00 AM - Incident# 3172522 (0 lost trips, 6 lost minutes)**  
T-296 reported feces and urine on car #1014 A.  
T-296  
Tr#112  
Cars(1014)\_1021-1060  
Southbound, Trk#4  
23rd St.

**7/30/2019 6:31:00 AM - Incident# 3180762 (0 lost trips, lost minutes)**  
Train 616 T-226 Car# 1067-1045-1070 reports an unstable individual holding the doors causing delay on departure Northbound @ Santa monica Station.

**7/15/2019 8:43:00 AM - Incident# 3174618 (1 lost trip, 147 lost minutes) CHARGEABLE**

T-204 reported a Propulsion/ Dynamic brake fault along with door issues in operating car (246).

T-204

Train 607

(246)-245-248

Southbound, Track 4

Palms/National Station

**Unable To Duplicate**

**7/18/2019 12:05:00 PM - Incident# 3176158 (1 lost trip, 147 lost minutes)**

Operator reports loss of power then reports 5mph with dead man relay feature.

T-123

Tr#602

Cars(1047B)-1016-1019

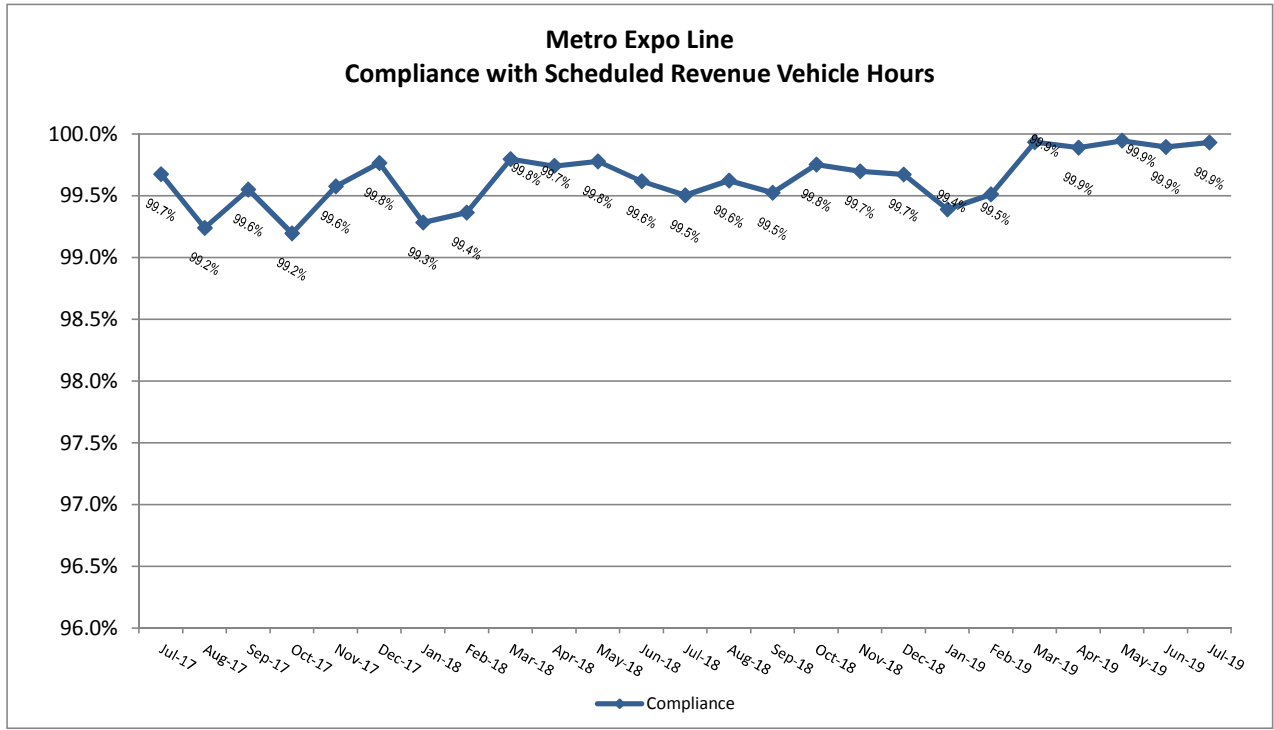
Northbound Trk#3

National/Palms Intl

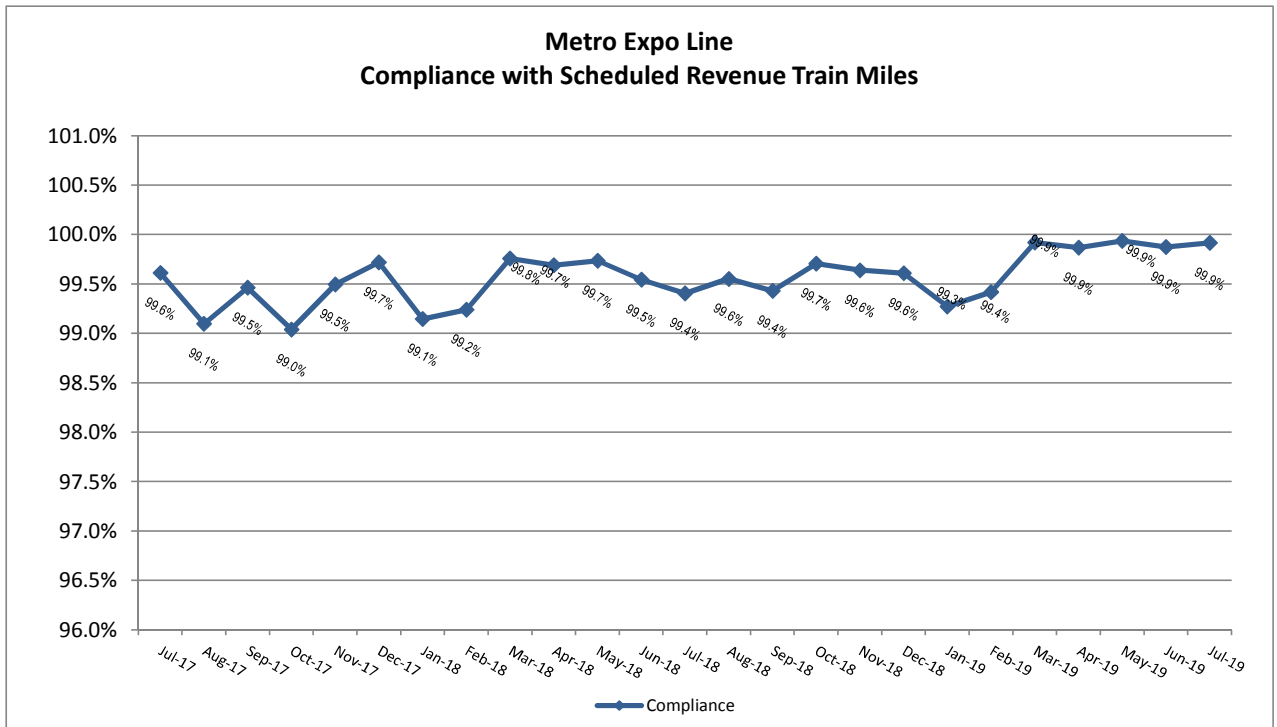
**7/5/2019 6:27:00 AM - Incident# 3170753 (0 lost trips, 8 lost minutes) CHARGEABLE**

Train 606 had no movement south from 23rd street station.

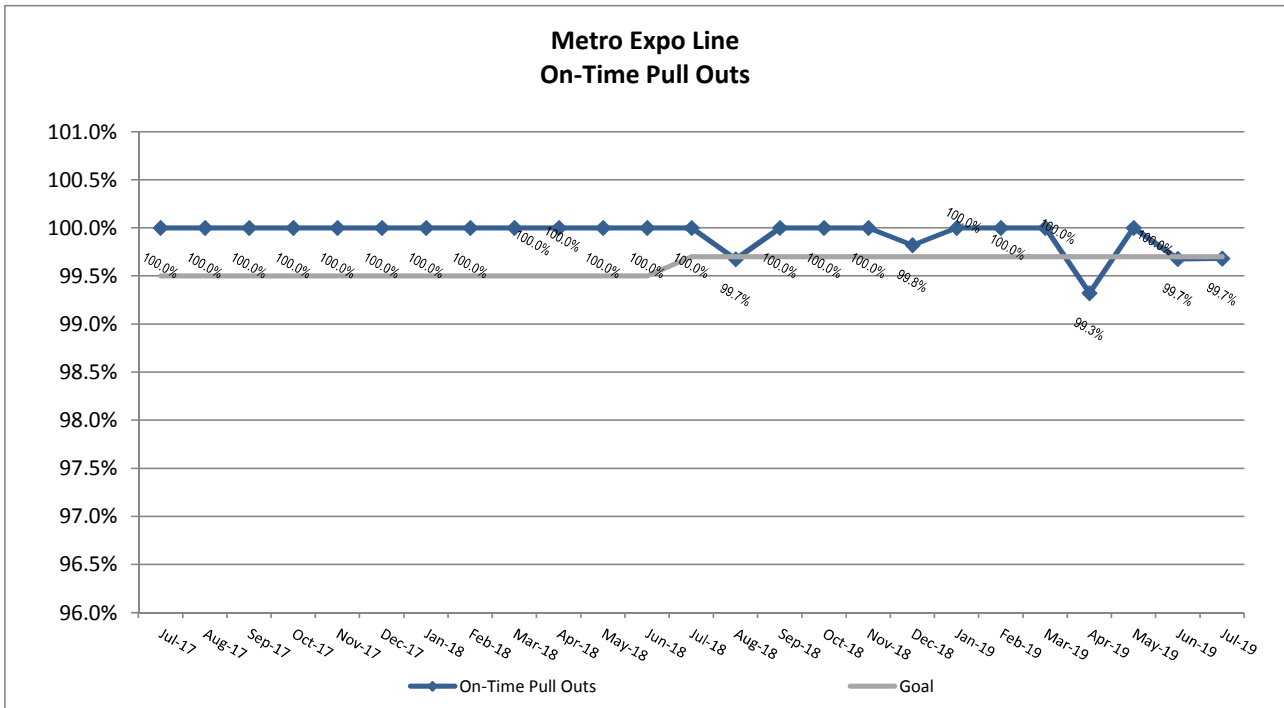
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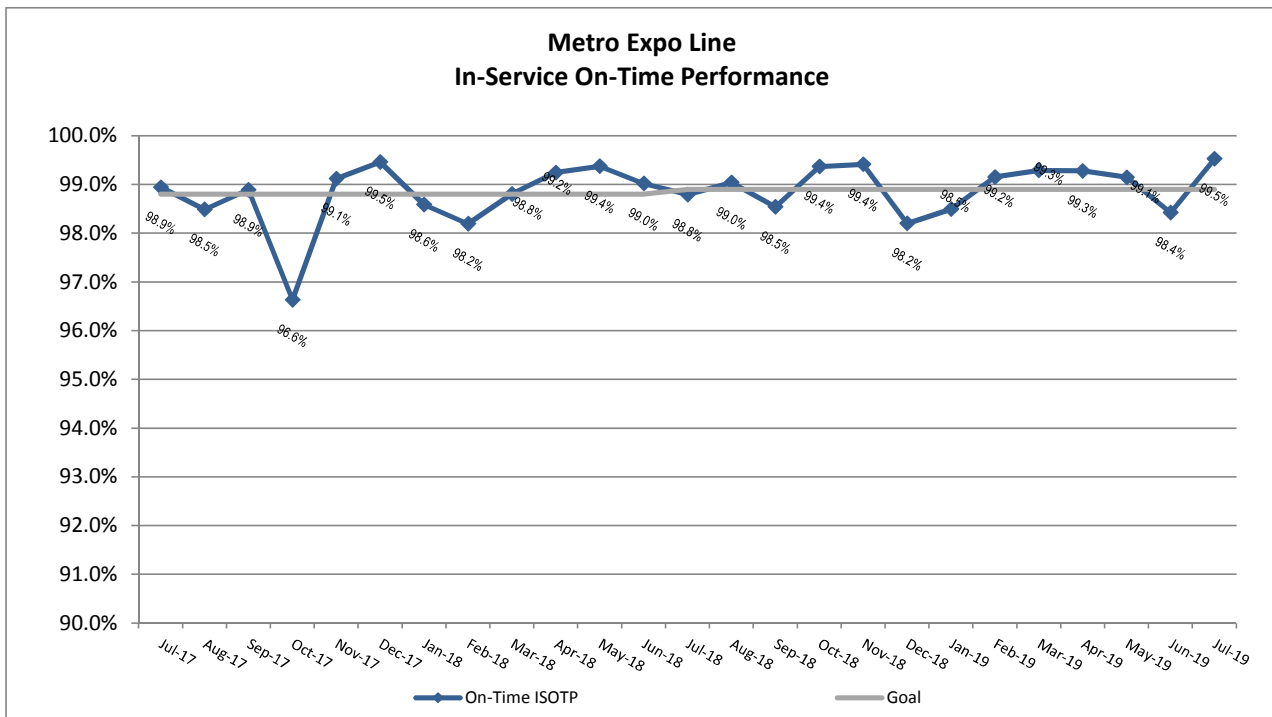
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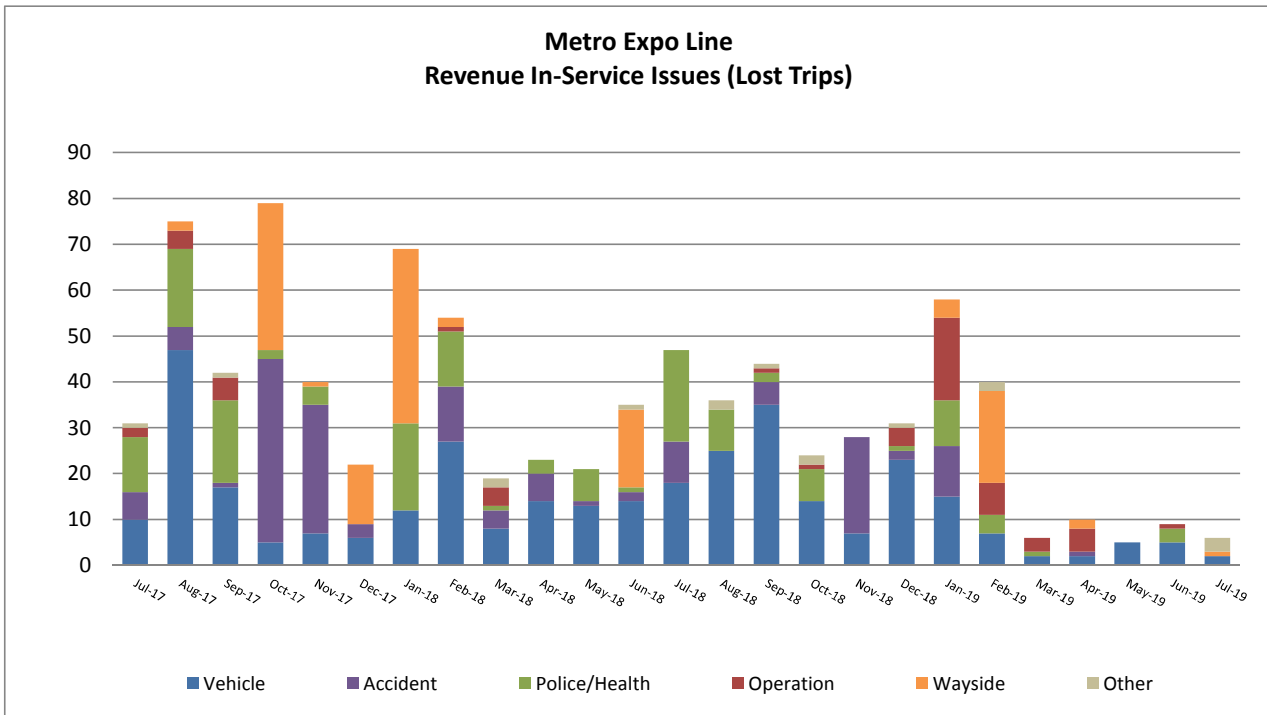
## ON-TIME PULL OUTS



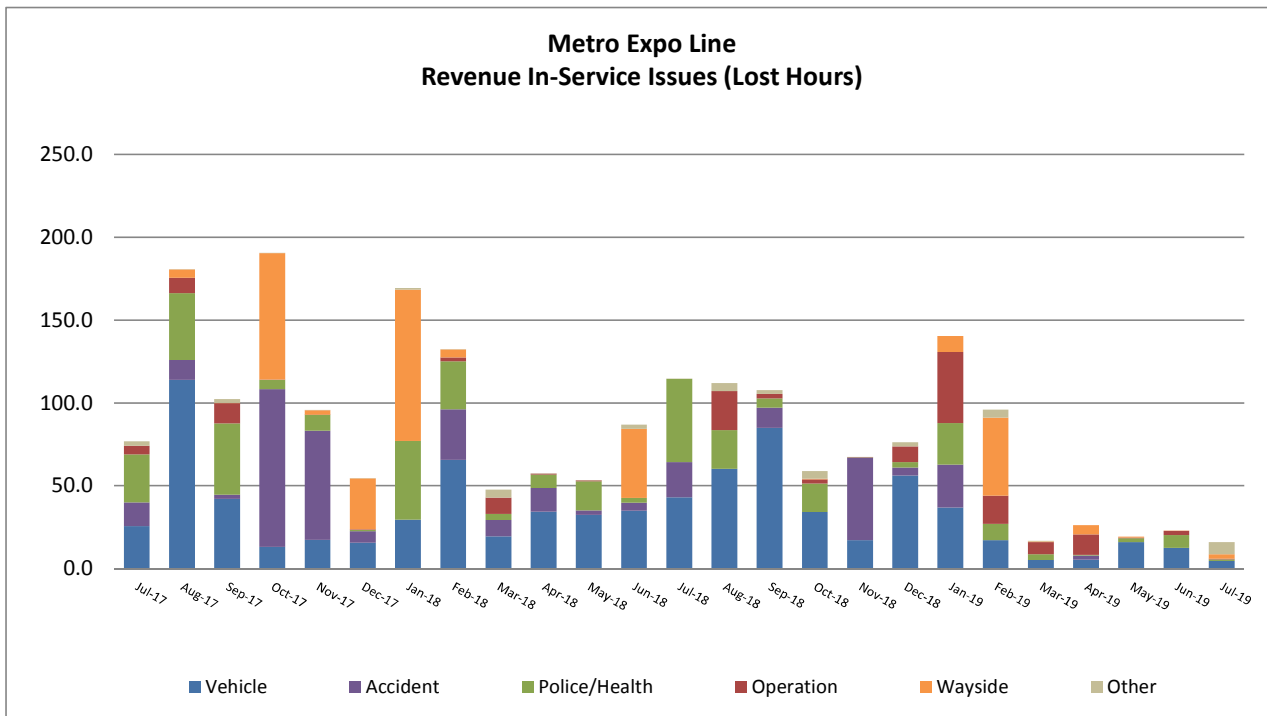
## IN-SERVICE ON-TIME PERFORMANCE



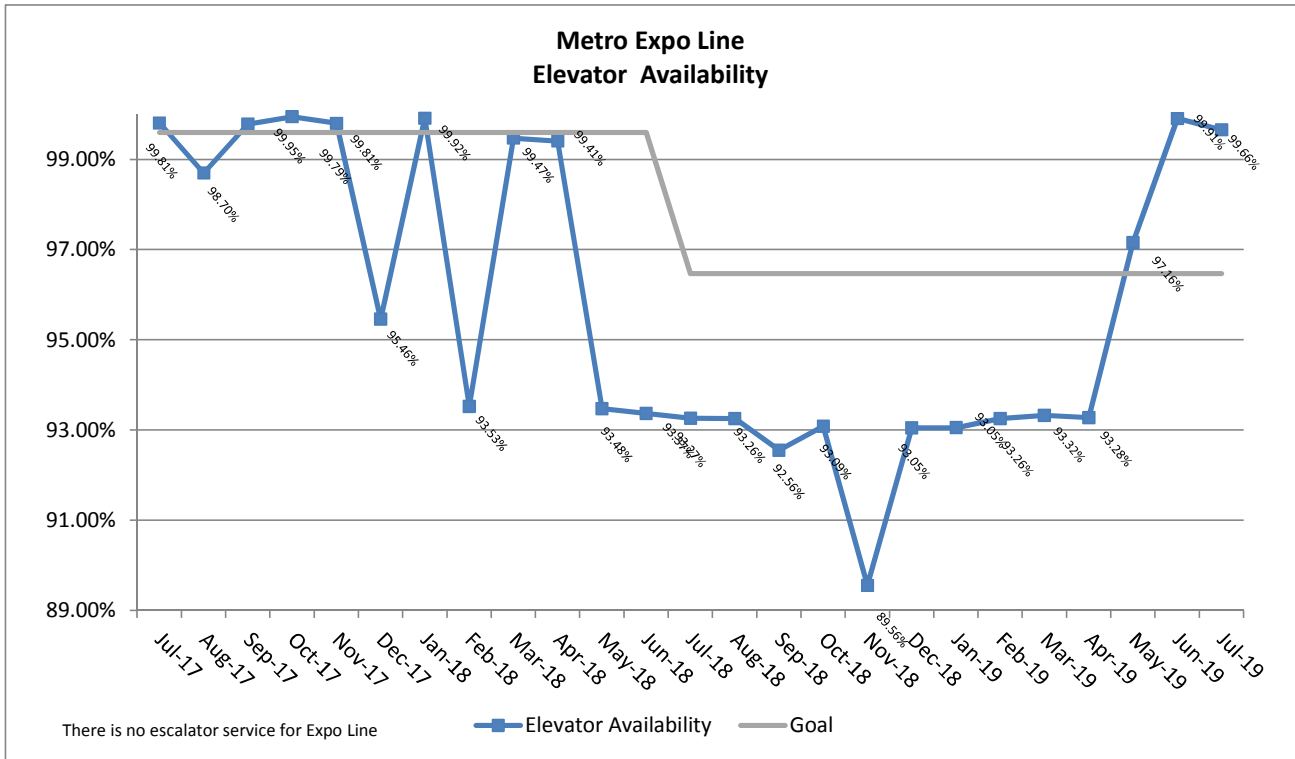
## LOST TRIPS



## LOST HOURS



### VERTICAL TRANSPORTATION AVAILABILITY



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