

Los Angeles County  
Metropolitan Transportation Authority  
California

# OPERATIONS MONTHLY RAIL PERFORMANCE REPORT

JUNE 2017



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# METRO RAIL PERFORMANCE – JUNE 2017

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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 2014	FY 2015	FY 2016	FY 2017 Target	FY 2017 YTD	FYTD Status	Apr Month	May Month	Jun Month
<b>Systemwide</b>									
On-Time Pullouts	99.55%	99.67%	99.63%	99.50%	99.61%	●	99.29%	99.83%	99.42%
Mean Miles Between Chargeable Mechanical Failures	28,829	34,524	30,482	27,911	29,711	●	29,112	35,775	30,999
In-Service On-time Performance	97.92%	98.39%	98.10%	98.00%	98.24%	●	98.48%	98.89%	98.57%
Service Delivery Ratio	99.12%	99.35%	99.22%	99.25%	99.23%	●	99.23%	99.55%	99.37%
Traffic Accidents Per 100,000 Train Miles	1.47	1.18	1.17	N/A	1.01	N/A	1.10	0.39	0.95
CPUC Reportable Accidents per 100,000 Train Miles	0.10	0.43	0.60	0.67	0.36	●	0.14	0.13	0.27
Passenger Accidents per 100,000 Boardings	0.025	0.013	0.016	0.009	0.023	●	0.000	0.021	0.010
Complaints per 100,000 Boardings	0.91	0.78	1.43	1.12	1.98	●	1.75	1.95	1.76
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours <sup>1,2</sup>	15.35	11.11	10.97	10.42	12.27	●	11.98	13.43	5.89
Lost Work Days per 200,000 Exposure Hours <sup>1,2</sup>	861	880	482	458.16	715	●	607	665	-
OSHA Injuries per 200,000 Exposure Hours <sup>1,2</sup>	8.18	6.68	6.32	6.00	8.95	●	9.99	7.67	-
<b>Wayside</b>									
Overdue Work Orders (Non-PMP) - Aging of Outstanding Work Orders	51	122	560	N/A	2,301	N/A	275	347	713
Past-Due Preventive Maintenance - Aging of Outstanding Work Orders	0	1	23	N/A	302	N/A	58	43	97
% of Completed Inspections	99.41%	99.51%	99.57%	N/A	99.72%	N/A	99.67%	100.00%	100.00%
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	9.28	9.07	4.77	4.53	5.35	●	0.00	8.09	12.17
Lost Work Days per 200,000 Exposure Hours <sup>1</sup>	179	309	148	141	178	●	329	295	-
OSHA Injuries per 200,000 Exposure Hours <sup>1</sup>	6.31	8.28	4.40	4.18	4.01	●	0.00	4.05	-
<b>Blue Line</b>									
On-Time Pullouts	99.37%	99.41%	99.59%	99.50%	99.60%	●	99.70%	99.86%	98.99%
Mean Miles Between Chargeable Mechanical Failures	18,731	23,716	19,240	19,572	15,405	●	14,849	17,208	13,927
In-Service On-time Performance	95.84%	97.28%	96.10%	97.00%	96.44%	●	95.90%	97.17%	97.41%
Service Delivery Ratio	98.36%	98.88%	98.41%	98.46%	98.54%	●	97.84%	98.96%	98.77%
Traffic Accidents Per 100,000 Train Miles	2.97	2.48	2.38	N/A	2.18	N/A	2.69	0.65	3.88
CPUC Reportable Accidents per 100,000 Train Miles	0.00	0.89	1.39	1.34	0.71	●	0.67	0.00	0.65
Passenger Accidents per 100,000 Boardings	0.058	0.034	0.016	0.006	0.046	●	0.000	0.055	0.000
Complaints per 100,000 Boardings	1.10	0.90	1.33	1.09	1.67	●	2.04	1.65	1.38
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	17.46	15.10	15.08	15.58	16.74	●	21.85	10.57	5.46
Lost Work Days per 200,000 Exposure Hours <sup>1</sup>	990	1,622	797	786	828	●	89	796	-
OSHA Injuries per 200,000 Exposure Hours <sup>1</sup>	5.71	10.64	6.79	9.58	11.34	●	16.39	10.57	-

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

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

● 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 2014	FY 2015	FY 2016	FY 2017 Target	FY 2017 YTD	FYTD Status	Apr Month	May Month	Jun Month
<b>Red Line</b>									
On-Time Pullouts	99.72%	99.91%	99.79%	99.50%	99.95%	●	100.00%	100.00%	99.59%
Mean Miles Between Chargeable Mechanical	63,099	85,090	94,312	112,652	104,637	●	96,997	76,706	83,340
In-Service On-time Performance	98.91%	99.13%	99.45%	99.50%	99.39%	●	99.42%	99.60%	99.29%
Service Delivery Ratio	99.57%	99.60%	99.71%	99.71%	99.72%	●	99.69%	99.77%	99.75%
Traffic Accidents Per 100,000 Train Miles	1.01	0.47	0.75	N/A	0.57	N/A	0.87	0.00	0.00
CPUC Reportable Accidents per 100,000 Train Miles	0.00	0.07	0.07	0.60	0.14	●	0.00	0.00	0.00
Passenger Accidents per 100,000 Boardings	0.006	0.002	0.002	0.003	0.004	●	0.000	0.000	0.000
Complaints per 100,000 Boardings	0.60	0.54	0.57	0.56	1.19	●	1.47	1.43	1.50
New Workers' Compensation Indemnity Claims per	20.22	6.20	16.43	13.29	12.68	●	11.25	16.04	0.00
*Lost Work Days per 200,000 Exposure Hours	927	649	526	556	979	●	751	835	-
*OSHA Injuries per 200,000 Exposure Hours	11.79	3.54	7.99	6.55	8.22	●	16.88	5.35	-

<b>Green Line</b>									
On-Time Pullouts	99.69%	99.32%	99.49%	99.50%	99.69%	●	100.00%	100.00%	99.76%
Mean Miles Between Chargeable Mechanical Failures	19,513	21,054	19,238	19,911	16,375	●	14,907	21,450	18,864
In-Service On-time Performance	97.85%	97.39%	98.52%	98.20%	98.69%	●	99.06%	99.48%	99.18%
Service Delivery Ratio	99.57%	99.50%	99.59%	99.62%	99.61%	●	99.71%	99.70%	99.65%
Traffic Accidents Per 100,000 Train Miles	0.49	0.21	0.42	N/A	0.48	N/A	0.84	0.79	0.00
CPUC Reportable Accidents per 100,000 Train Miles	0.00	0.07	0.07	0.18	0.07	●	0.00	0.00	0.83
Passenger Accidents per 100,000 Boardings	0.023	0.024	0.034	0.011	0.048	●	0.000	0.000	0.123
Complaints per 100,000 Boardings	1.15	0.88	1.53	1.30	2.08	●	2.14	1.69	1.72
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	16.51	7.32	7.18	9.27	9.14	●	9.86	0.00	19.36
*Lost Work Days per 200,000 Exposure Hours	1,299	479	228	195	673	●	373	609	-
*OSHA Injuries per 200,000 Exposure Hours	11.30	4.07	3.19	2.34	4.54	●	0.00	0.00	-

<b>Gold Line</b>									
On-Time Pullouts	99.56%	99.98%	99.68%	99.50%	99.82%	●	100.00%	99.88%	100.00%
Mean Miles Between Chargeable Mechanical Failures	45,894	44,171	40,426	51,665	38,427	●	29,660	60,292	42,176
In-Service On-time Performance	98.03%	98.56%	97.60%	97.50%	97.61%	●	98.45%	98.98%	97.49%
Service Delivery Ratio	99.03%	99.34%	99.11%	99.16%	98.88%	●	99.38%	99.52%	98.94%
Traffic Accidents Per 100,000 Train Miles	1.03	1.14	0.99	N/A	0.61	N/A	0.45	0.42	0.44
CPUC Reportable Accidents per 100,000 Train Miles	0.00	0.30	0.60	0.50	0.25	●	0.00	0.42	0.00
Passenger Accidents per 100,000 Boardings	0.052	0.007	0.039	0.035	0.030	●	0.000	0.071	0.000
Complaints per 100,000 Boardings	1.04	1.01	2.73	2.26	2.78	●	1.74	3.47	2.18
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	14.98	15.96	11.87	12.20	14.31	●	5.83	21.73	0.00
*Lost Work Days per 200,000 Exposure Hours	1,460	1,068	766	808	1,061	●	1,029	564	-
*OSHA Injuries per 200,000 Exposure Hours	9.12	3.83	9.29	10.07	10.55	●	5.83	16.30	-

<b>Expo Line</b>									
On-Time Pullouts	-	-	99.53%	99.50%	98.76%	●	96.40%	99.43%	98.59%
Mean Miles Between Chargeable Mechanical Failures	-	-	18,114	19,572	33,402	●	62,795	47,150	64,688
In-Service On-time Performance	98.70%	99.14%	98.61%	97.05%	98.48%	●	99.11%	98.94%	99.17%
Service Delivery Ratio	99.45%	99.64%	99.56%	99.65%	99.46%	●	99.62%	99.79%	99.83%
Traffic Accidents Per 100,000 Train Miles	1.17	1.02	0.74	N/A	1.26	N/A	0.83	0.00	0.00
CPUC Reportable Accidents per 100,000 Train Miles	1.17	1.02	0.50	0.37	0.63	●	0.00	0.00	0.00
Passenger Accidents per 100,000 Boardings	0.000	0.000	0.019	0.000	0.018	●	0.000	0.000	0.000
Complaints per 100,000 Boardings	1.53	1.13	3.38	1.87	3.68	●	1.86	2.32	2.44
New Workers' Compensation Indemnity Claims per	-	24.97	8.44	0.00	19.26	●	31.36	22.81	0.00
*Lost Work Days per 200,000 Exposure Hours	-	937	73	0	833	●	1,292	1,115	-
*OSHA Injuries per 200,000 Exposure Hours	-	-	5.63	0.00	18.15	●	23.52	7.60	-

\* There is One Month lag in reporting this data

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

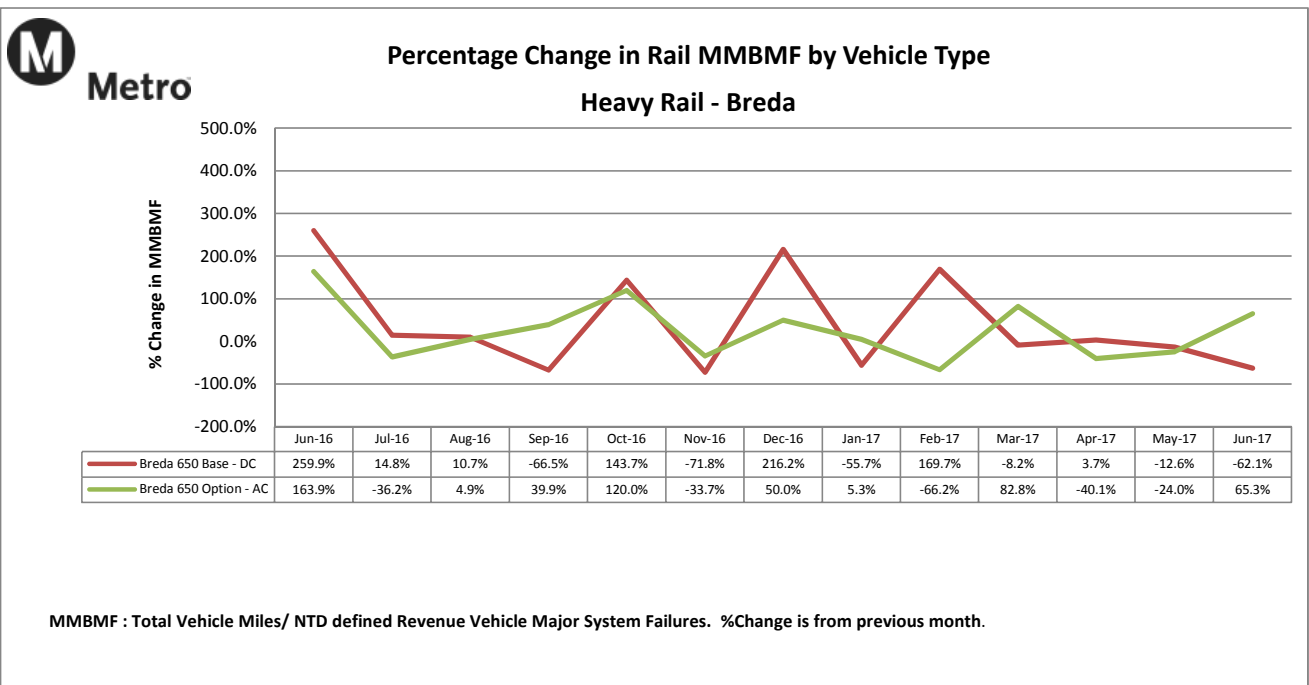
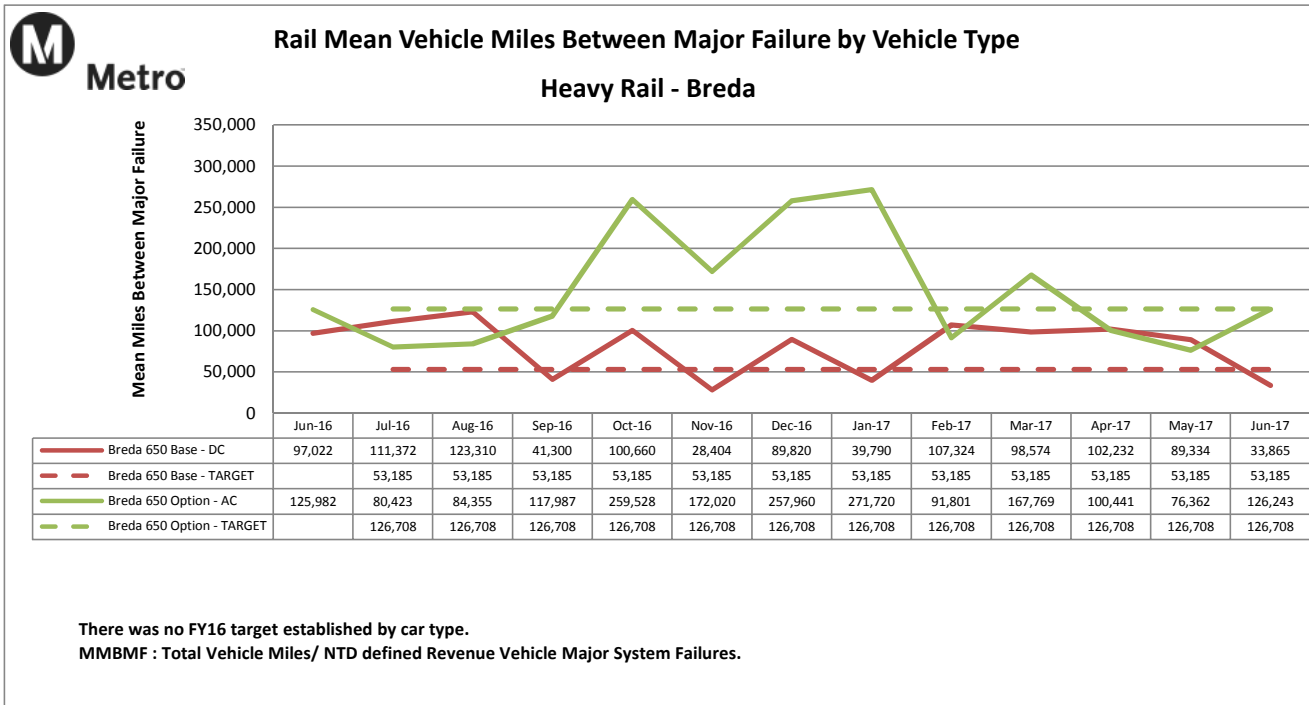
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● Red - High probability that the target will not be achieved -- significant problems and/or delays. Falls below Target >70%.

N/A = Not Available

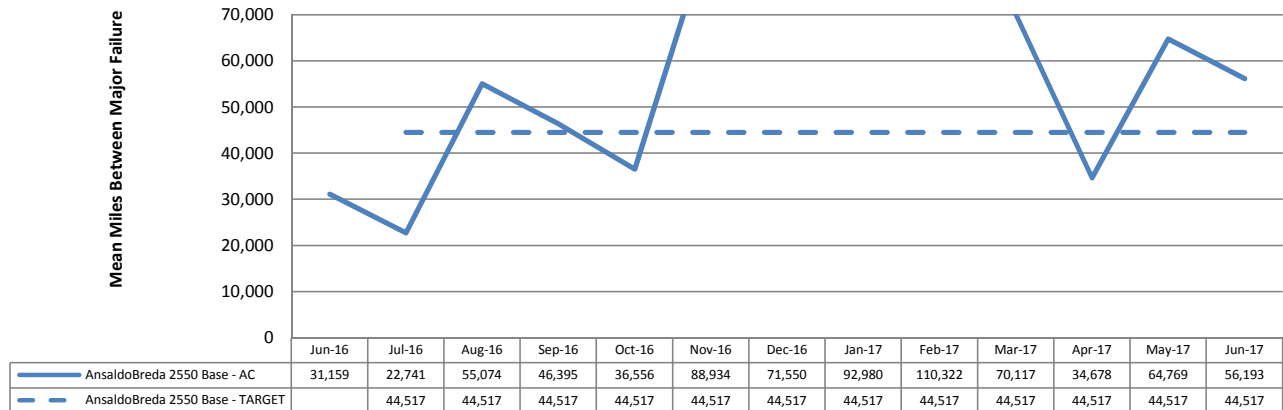
# METRO RAIL PERFORMANCE – JUNE 2017

## Rail Performance by Vehicle Type





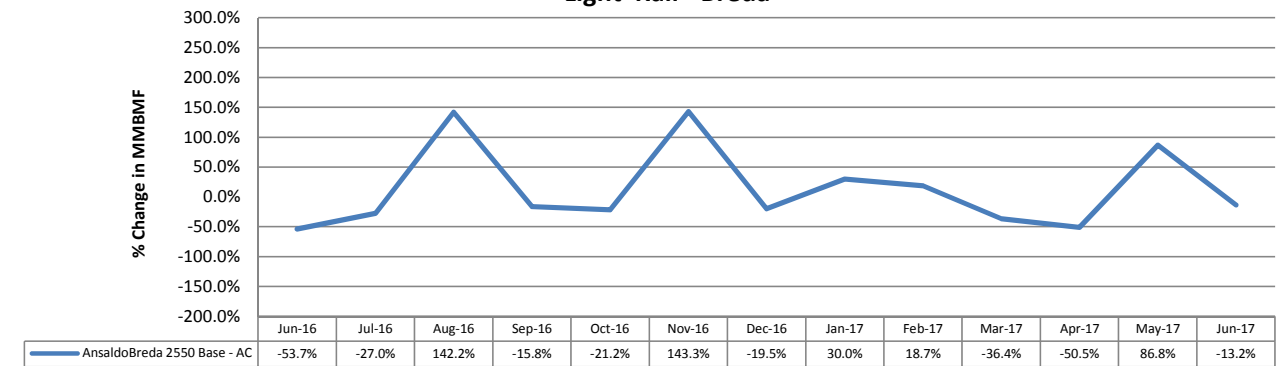
### Rail Mean Vehicle Miles Between Major Failure by Vehicle Type Light Rail - Breda



There was no FY16 target established by car type.  
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



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

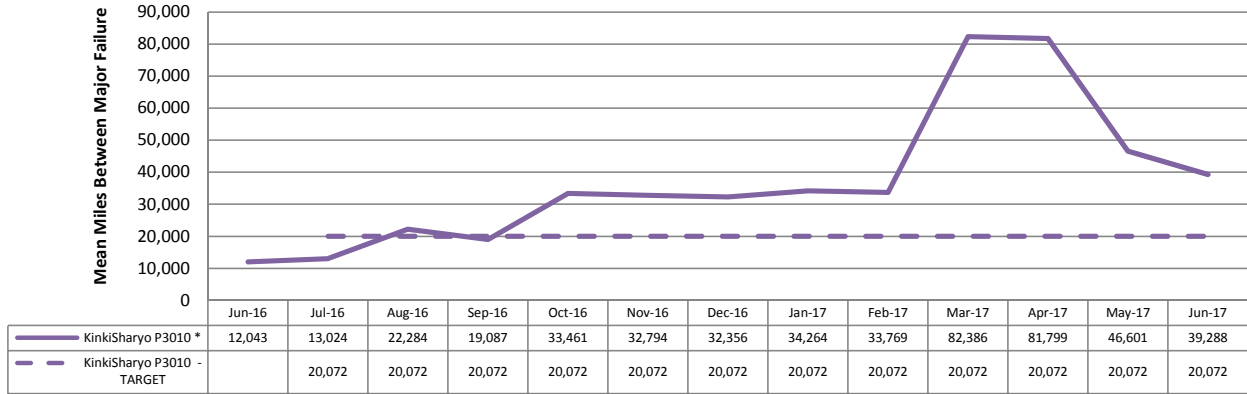


MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures. %Change is from previous month.



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

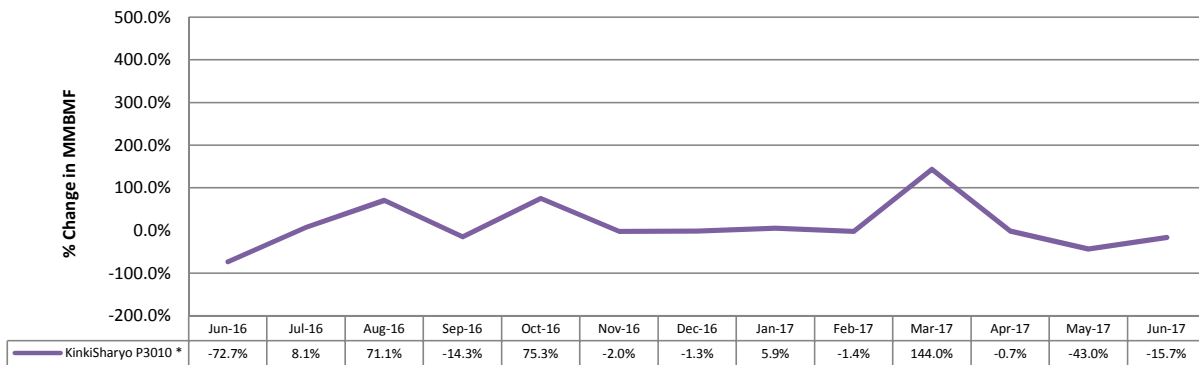


There was no FY16 target established by car type.  
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



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



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

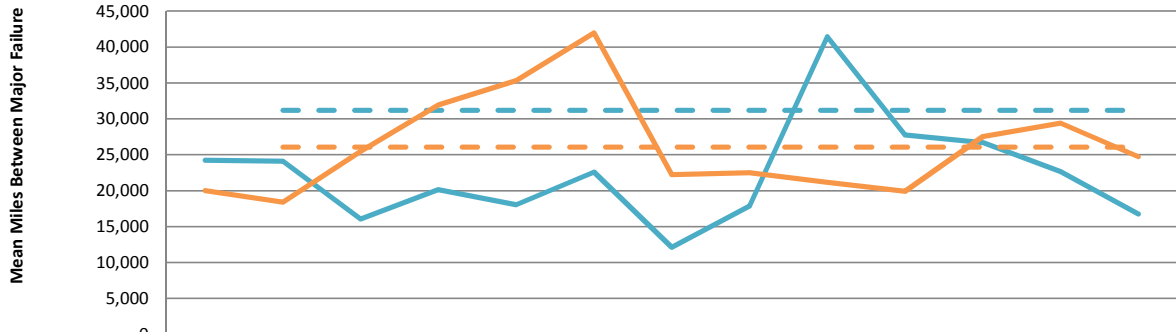
\* KinkiSharyo rolling stock began service March 2016



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

#### Light Rail - NipponSharyo



	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
Nippon Sharyo 2020 - DC	24,256	24,134	16,076	20,161	18,085	22,626	12,147	17,872	41,450	27,775	26,695	22,633	16,760
Nippon Sharyo 2020 - TARGET		31,214	31,214	31,214	31,214	31,214	31,214	31,214	31,214	31,214	31,214	31,214	31,214
Nippon Sharyo 865 - DC	20,029	18,422	25,519	31,983	35,362	42,011	22,231	22,528	21,201	19,939	27,562	29,422	24,766
Nippon Sharyo 865 - TARGET		26,062	26,062	26,062	26,062	26,062	26,062	26,062	26,062	26,062	26,062	26,062	26,062

There was no FY16 target established by car type.

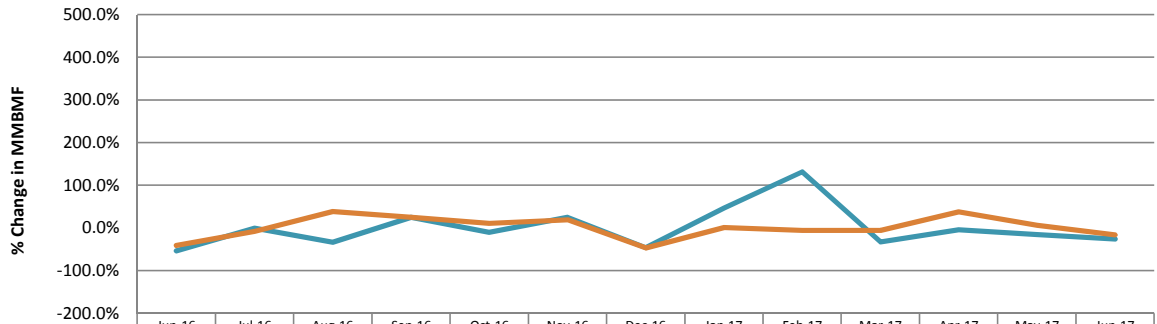
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



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### Percentage Change in Rail MMBMF by Vehicle Type

#### Light Rail - NipponSharyo



	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
Nippon Sharyo 2020 - DC	-53.7%	-0.5%	-33.4%	25.4%	-10.3%	25.1%	-46.3%	47.1%	131.9%	-33.0%	-3.9%	-15.2%	-25.9%
Nippon Sharyo 865 - DC	-40.6%	-8.0%	38.5%	25.3%	10.6%	18.8%	-47.1%	1.3%	-5.9%	-6.0%	38.2%	6.8%	-15.8%

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

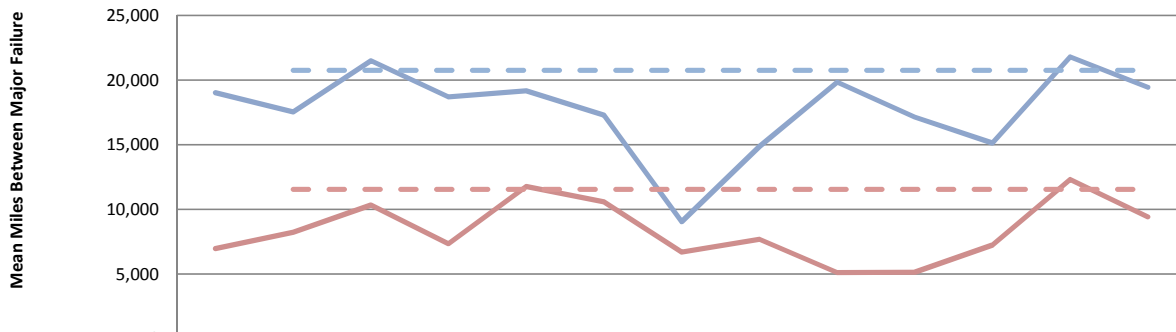




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### Rail Mean Vehicle Miles Between Major Failure by Vehicle Type

#### Light Rail - Siemens



	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
Siemens 2000 Base - AC	19,031	17,567	21,505	18,725	19,184	17,318	9,073	14,888	19,848	17,159	15,154	21,822	19,462
Siemens 2000 Base - TARGET		20,778	20,778	20,778	20,778	20,778	20,778	20,778	20,778	20,778	20,778	20,778	20,778
Siemens 2000 GE/ATP - AC	6,984	8,241	10,345	7,365	11,790	10,601	6,716	7,700	5,125	5,161	7,257	12,322	9,443
Siemens 2000 GE/ATP - TARGET		11,559	11,559	11,559	11,559	11,559	11,559	11,559	11,559	11,559	11,559	11,559	11,559

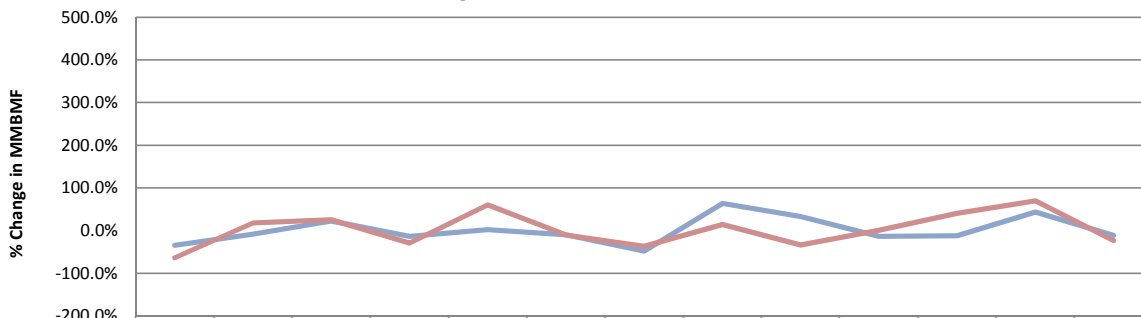
There was no FY16 target established by car type.  
 MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



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### Percentage Change in Rail MMBMF by Vehicle Type

#### Light Rail - Siemens



	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
Siemens 2000 Base - AC	-34.1%	-7.7%	22.4%	-12.9%	2.5%	-9.7%	-47.6%	64.1%	33.3%	-13.6%	-11.7%	44.0%	-10.8%
Siemens 2000 GE/ATP - AC	-63.5%	18.0%	25.5%	-28.8%	60.1%	-10.1%	-36.6%	14.7%	-33.4%	0.7%	40.6%	69.8%	-23.4%

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

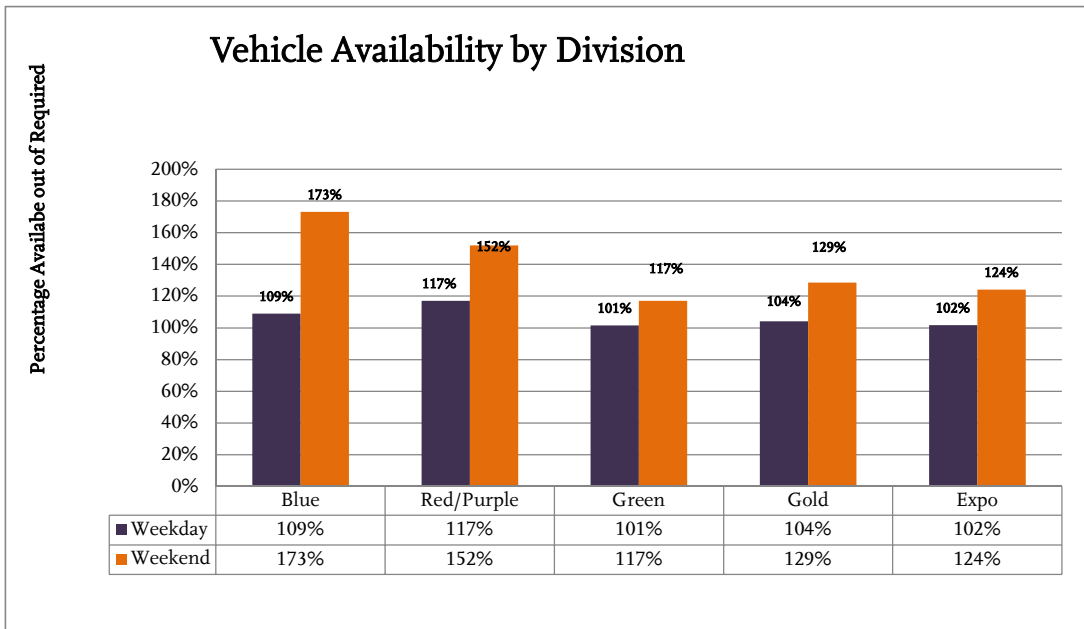
### Mean Miles Between Major Failures

	FY 2016	FY 2017 Goal	FY 2017 YTD
AnsaldoBreda2550Base - AC	42,292	44,517	51,977
Breda 650 Base - DC	50,526	53,185	68,962
Breda 650 Option - AC	120,372	126,708	123,655
Kinkisharyo P3010	19,068	20,072	35,793
Nippon Sharyo 2020 - DC	29,653	31,214	19,963
Nippon Sharyo 865 - DC	24,565	26,062	25,449
Siemens 2000 Base - AC	19,739	20,778	16,738
Siemens 2000 GE/ATP - AC	10,981	11,559	7,988

### Rail Fleet Distribution – JUNE 2017

Number of Rail Vehicle Type by Division	Blue	Red / Purple	Green	Gold	Expo
AnsaldoBreda 2550 Base - AC				50	
Breda 650 Base - DC		30			
Breda 650 Option - AC		74			
KinkiSharyo P3010	19			15	41
Nippon Sharyo 2020 - DC	13				2
Nippon Sharyo 865 - DC	40				13
Siemens 2000 Base - AC			29		
Siemens 2000 GE/ATP - AC	23				
<b>TOTALS</b>	<b>95</b>	<b>104</b>	<b>29</b>	<b>65</b>	<b>56</b>

Blue			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	60	65	109%
Weekend	26	45	173%
Red/ Purple			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	64	75	117%
Weekend	40	61	152%
Green			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	22	22	101%
Weekend	14	16	117%
Gold			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	48	50	104%
Weekend	28	36	129%
Expo			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	46	47	102%
Weekend	30	37	124%

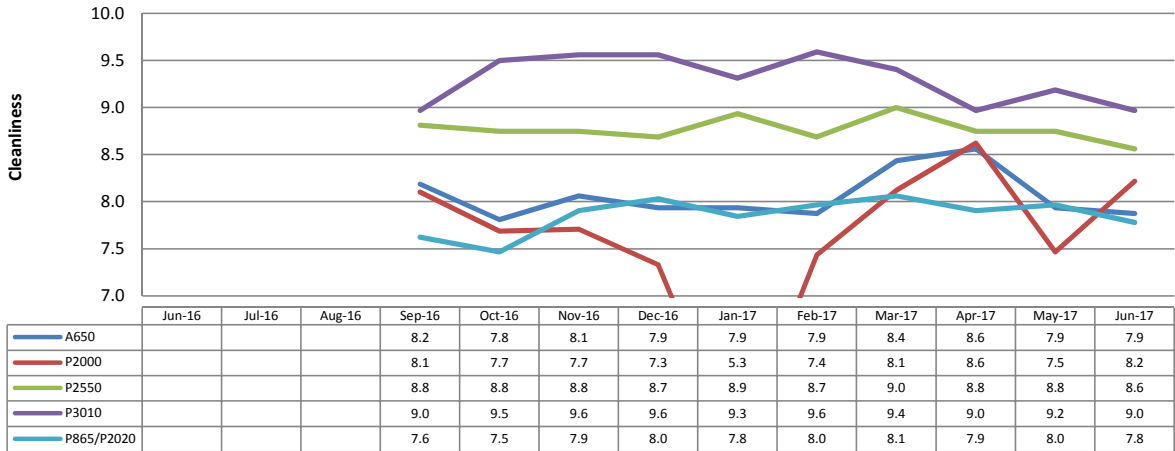


# Cleanliness by Vehicle Type



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Rail Cleanliness by General Vehicle Type

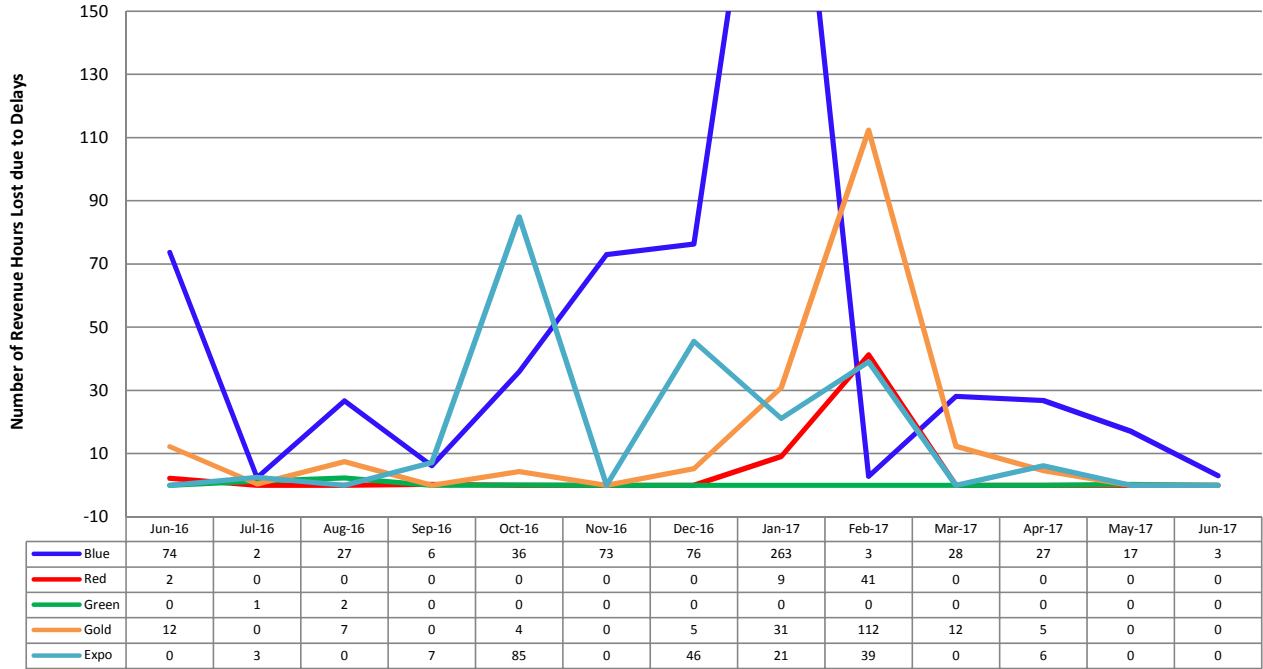


Note: Data Collection Began September 2016

## RAIL DELAYS BY CATEGORY - SYSTEMWIDE

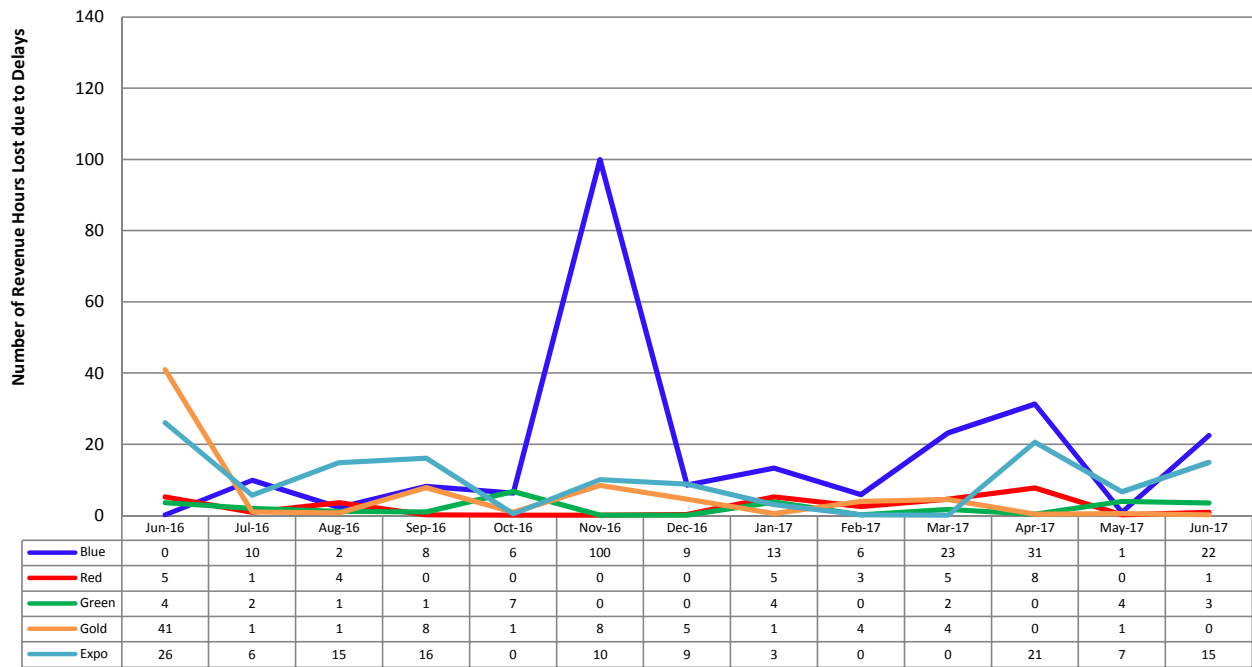
### Revenue Hours Lost Related to - ACCIDENTS

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

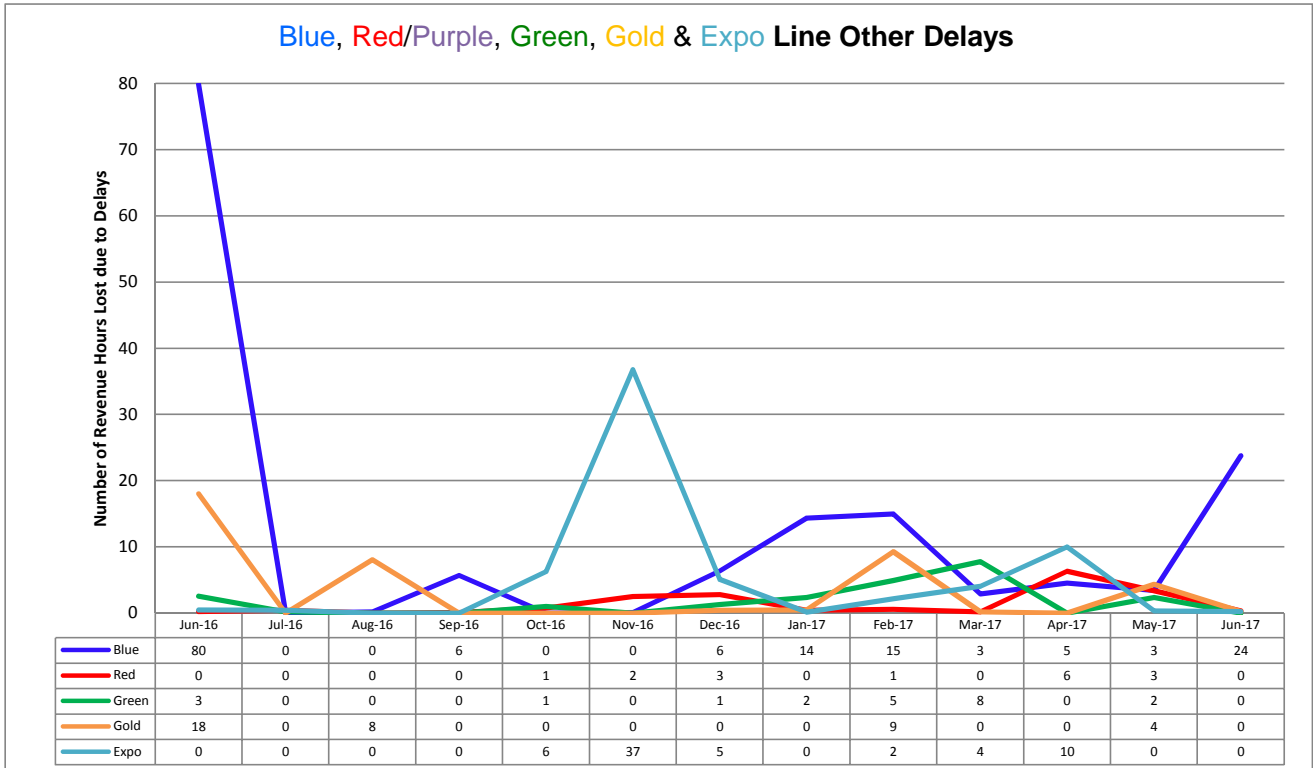


### Revenue Hours Lost Related to - OPERATIONS

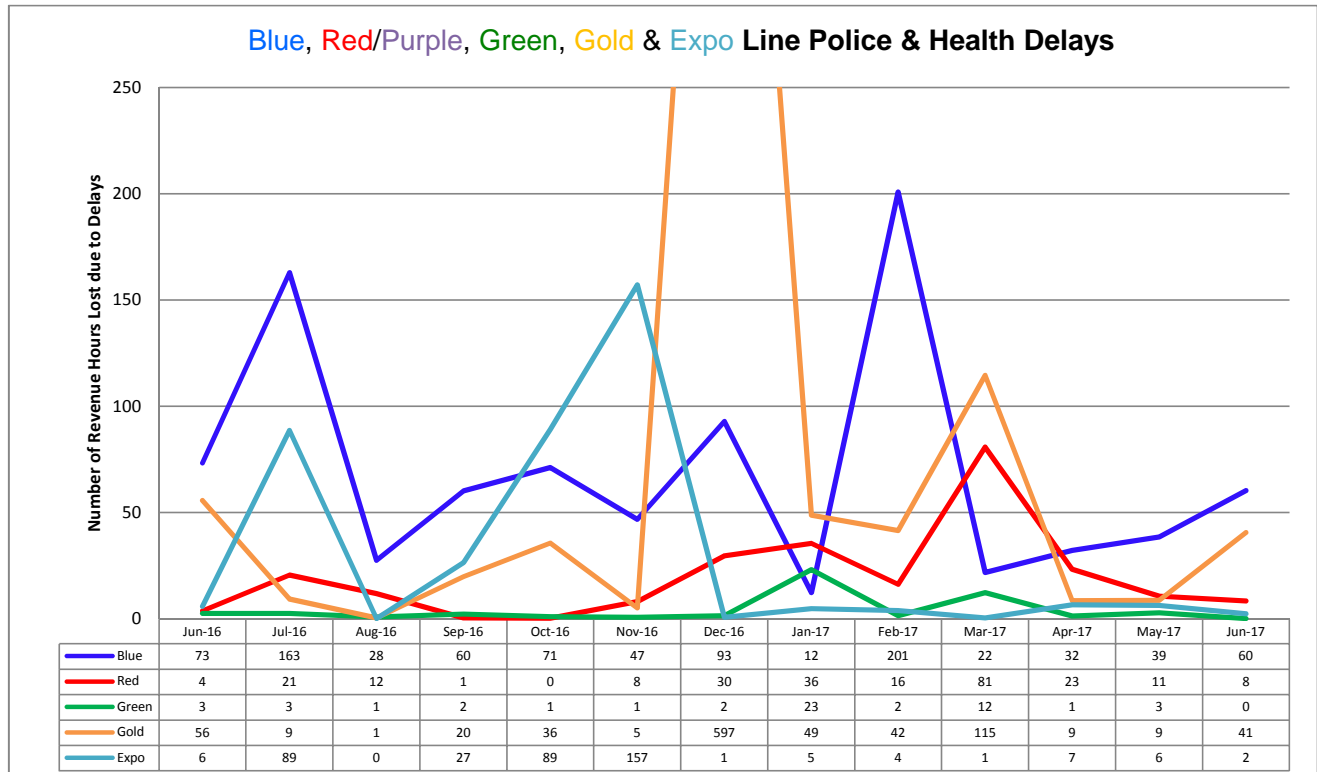
Blue, Red/Purple, Green, Gold & Expo Line Operations Delays



Revenue Hours Lost Related to - OTHER

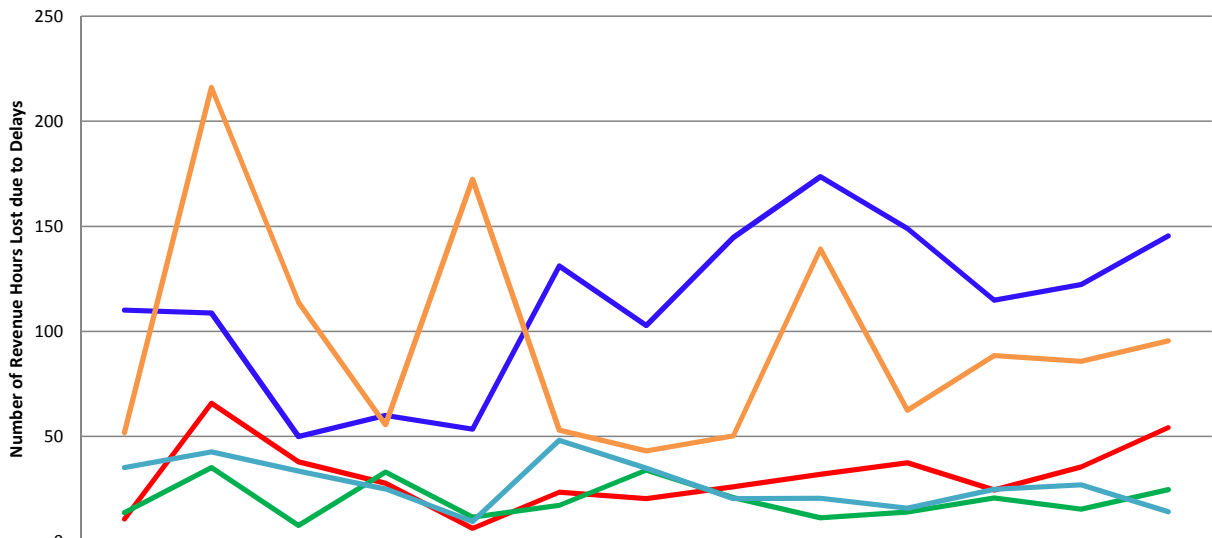


Revenue Hours Lost Related to - POLICE & HEALTH



Revenue Hours Lost Related to - Vehicle Delays

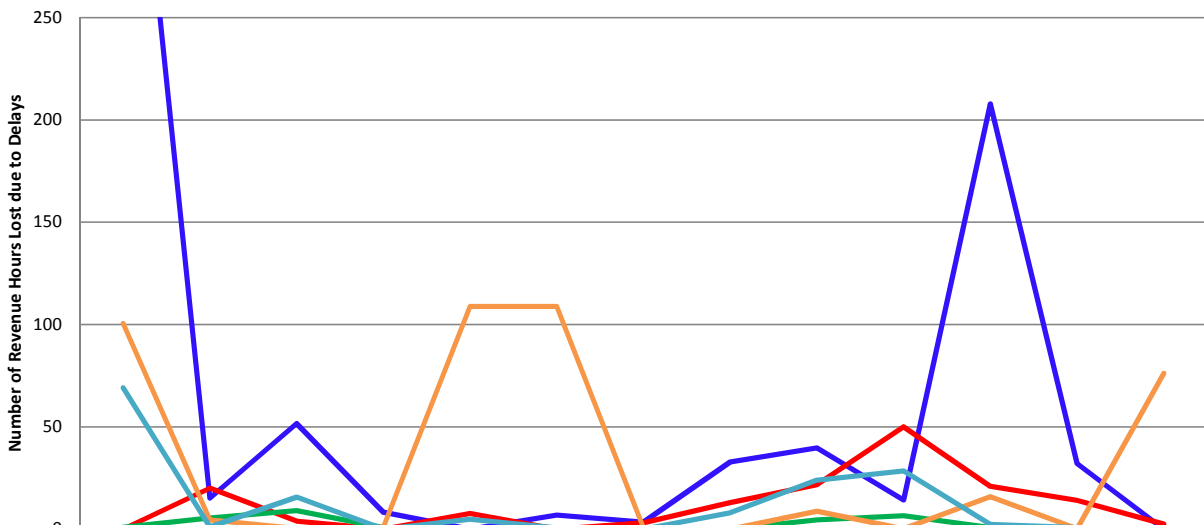
Blue, Red/Purple, Green, Gold & Expo Line Vehicle Delays



	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
Blue	110	109	50	60	54	131	103	145	174	149	115	122	145
Red	11	66	38	28	6	24	20	26	32	38	25	36	54
Green	14	35	8	33	12	17	34	21	11	14	21	15	25
Gold	52	216	114	56	172	53	43	50	139	63	89	86	96
Expo	35	43	34	25	10	48	35	21	21	16	25	27	14

Revenue Hours Lost Related to - WAYSIDE

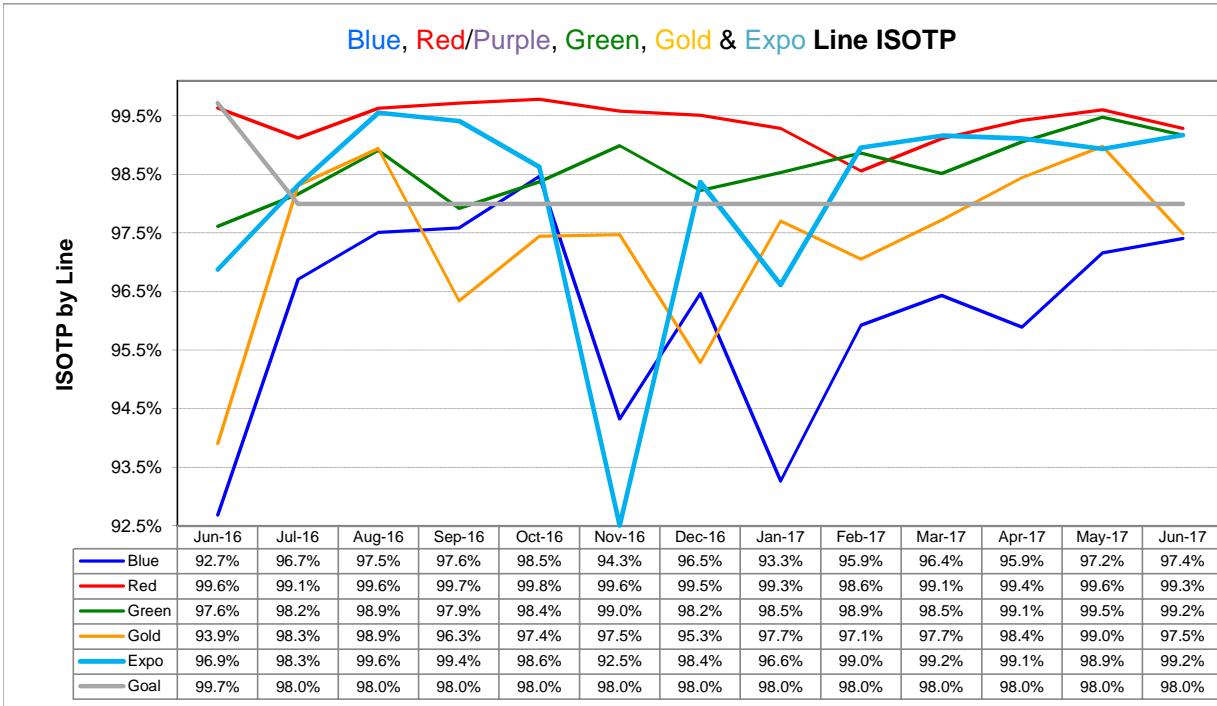
Blue, Red/Purple, Green, Gold & Expo Line Wayside Delays



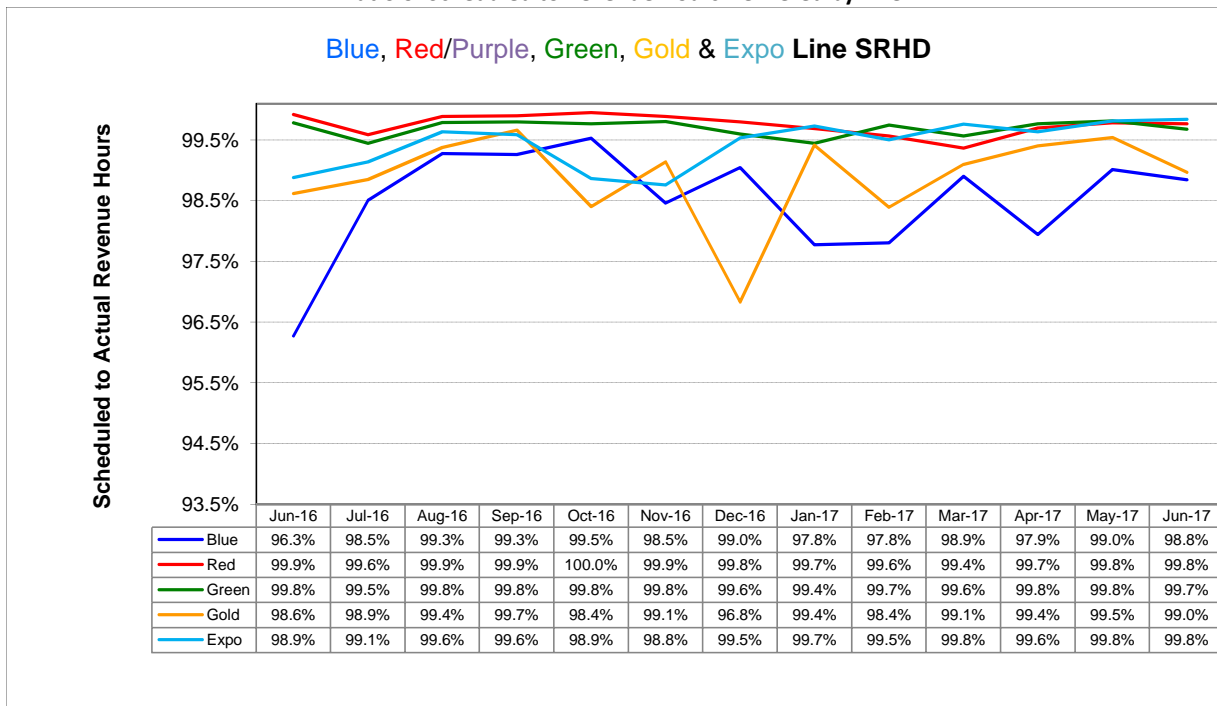
	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
Blue	424	15	52	8	0	7	4	33	40	14	208	32	0
Red	0	20	4	0	8	0	3	13	22	50	21	14	3
Green	1	6	9	1	1	1	1	0	5	7	1	0	0
Gold	101	5	0	1	109	109	1	0	9	0	16	0	76
Expo	69	1	16	0	5	1	0	8	24	28	2	1	0

# Rail Service Performance

## In Service On Time Performance by Line

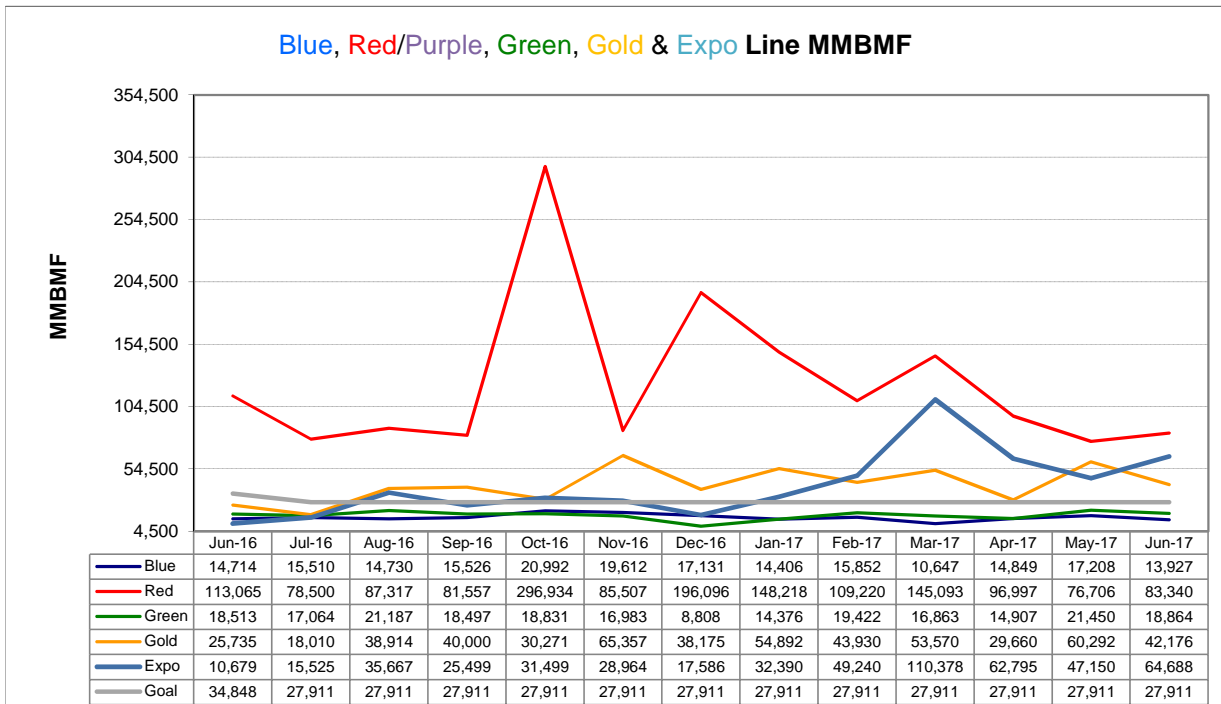


## Ratio of Scheduled to Revenue Hours Delivered by Line



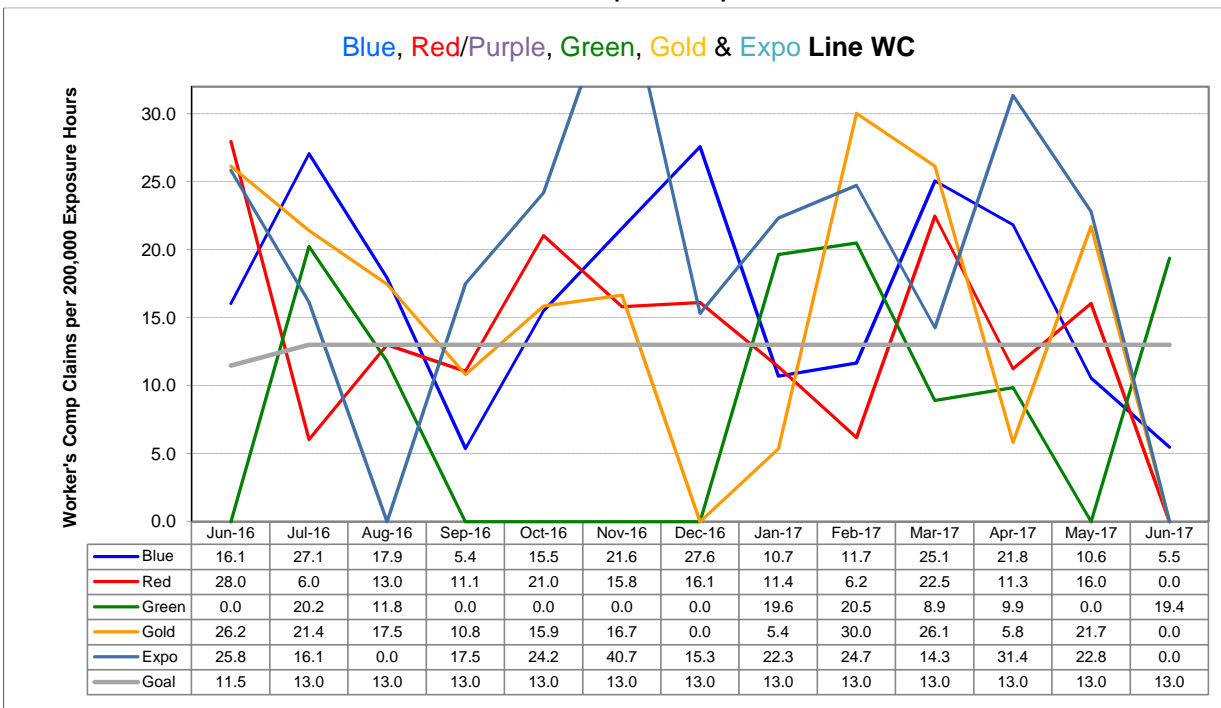


### Mean Miles Between Mechanical Failures by Line



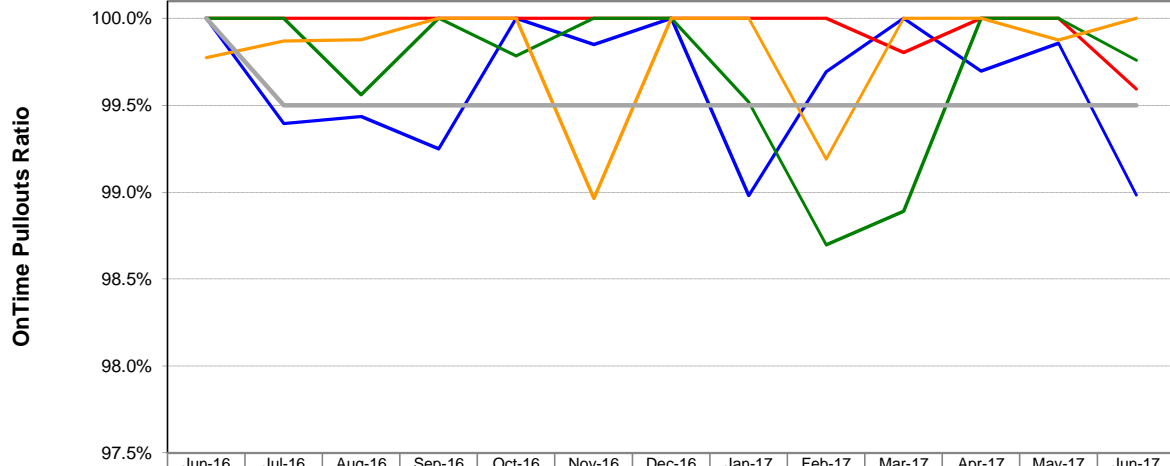
Expo Line Service began in March 2016.

### Workers Comp Claims by Line



### On-Time Pullouts Ratio by Line

Blue, Red/Purple, Green, Gold & Expo Line OTP

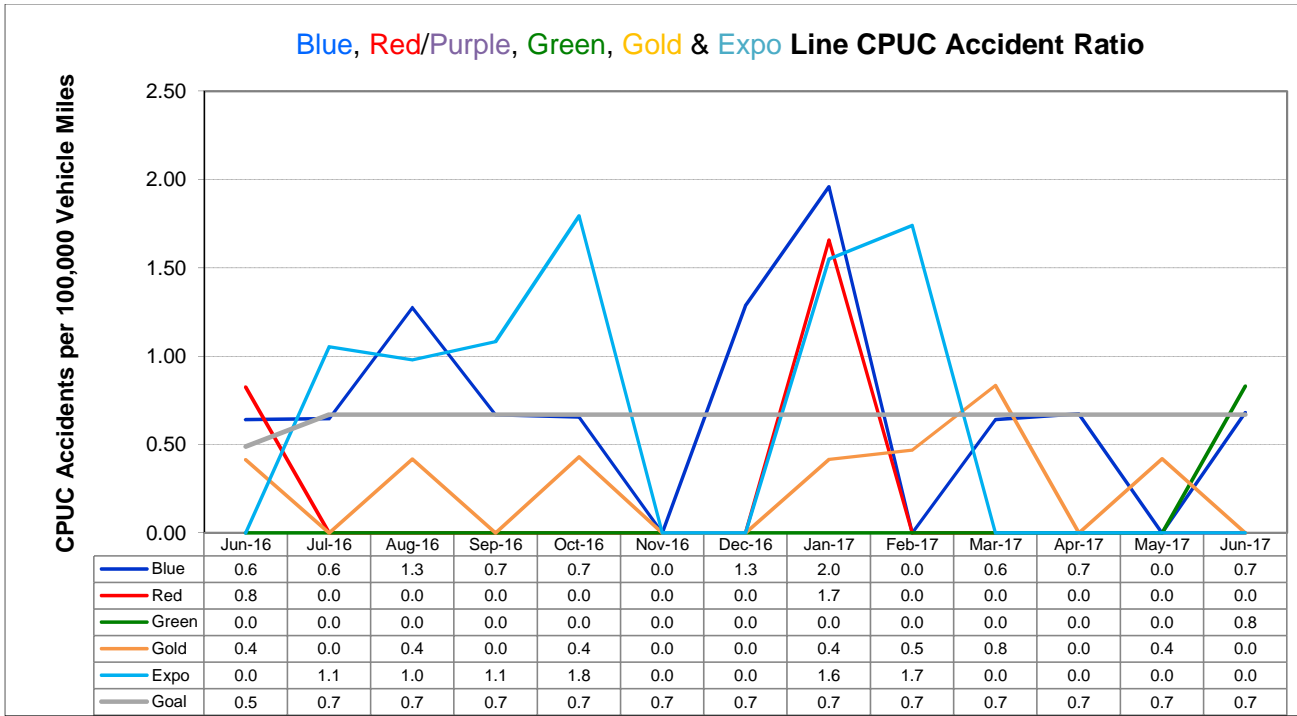


	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
Blue	100.0%	99.4%	99.4%	99.2%	100.0%	99.8%	100.0%	99.0%	99.7%	100.0%	99.7%	99.9%	99.0%
Red	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.8%	100.0%	100.0%	99.6%
Green	100.0%	100.0%	99.6%	100.0%	99.8%	100.0%	100.0%	99.5%	98.7%	98.9%	100.0%	100.0%	99.8%
Gold	99.8%	99.9%	99.9%	100.0%	100.0%	99.0%	100.0%	100.0%	99.2%	100.0%	100.0%	99.9%	100.0%
Expo		99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%
Goal	100.0%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%

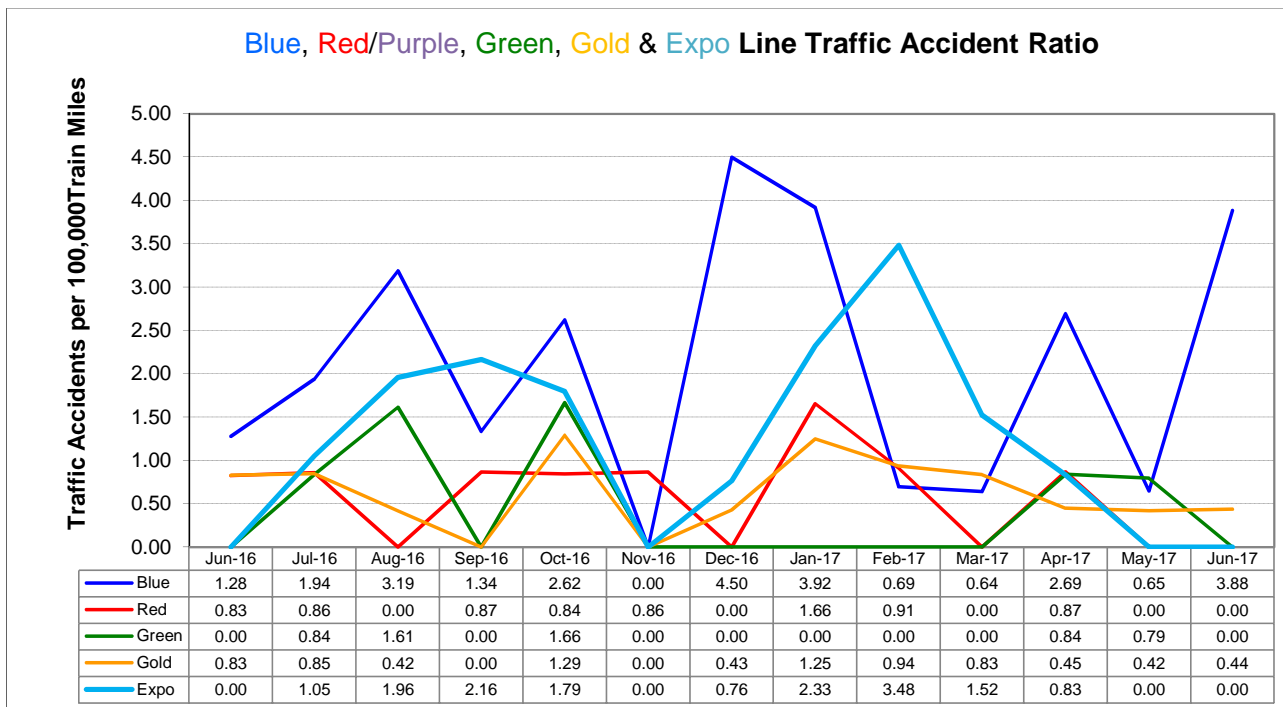
Expo Line Service began in March 2016.

# Rail Safety Performance

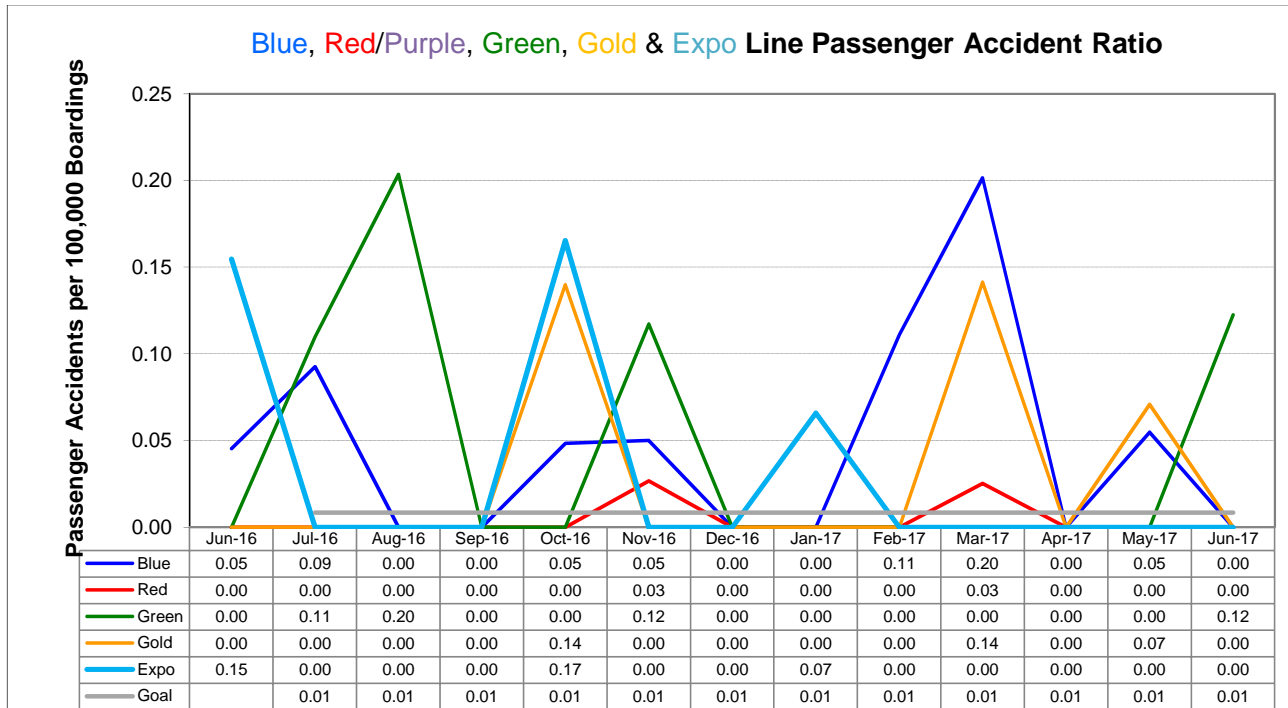
## CPUC REPORTABLE ACCIDENTS PER 100,000 TRAIN MILES



## TRAFFIC ACCIDENTS PER 100,000 TRAIN MILES



### PASSENGER ACCIDENTS PER 100,000 BOARDINGS

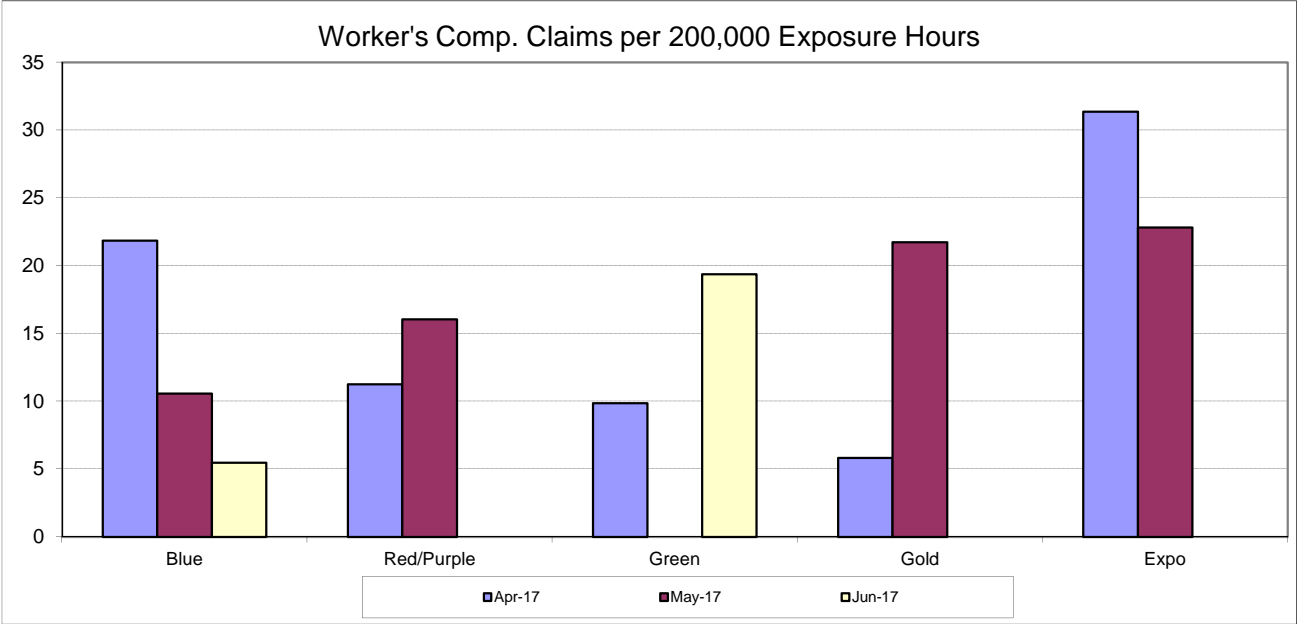


Expo Line Service began in March 2016.

# Worker's Comp. Claims

Apr 2017 - Jun 2017

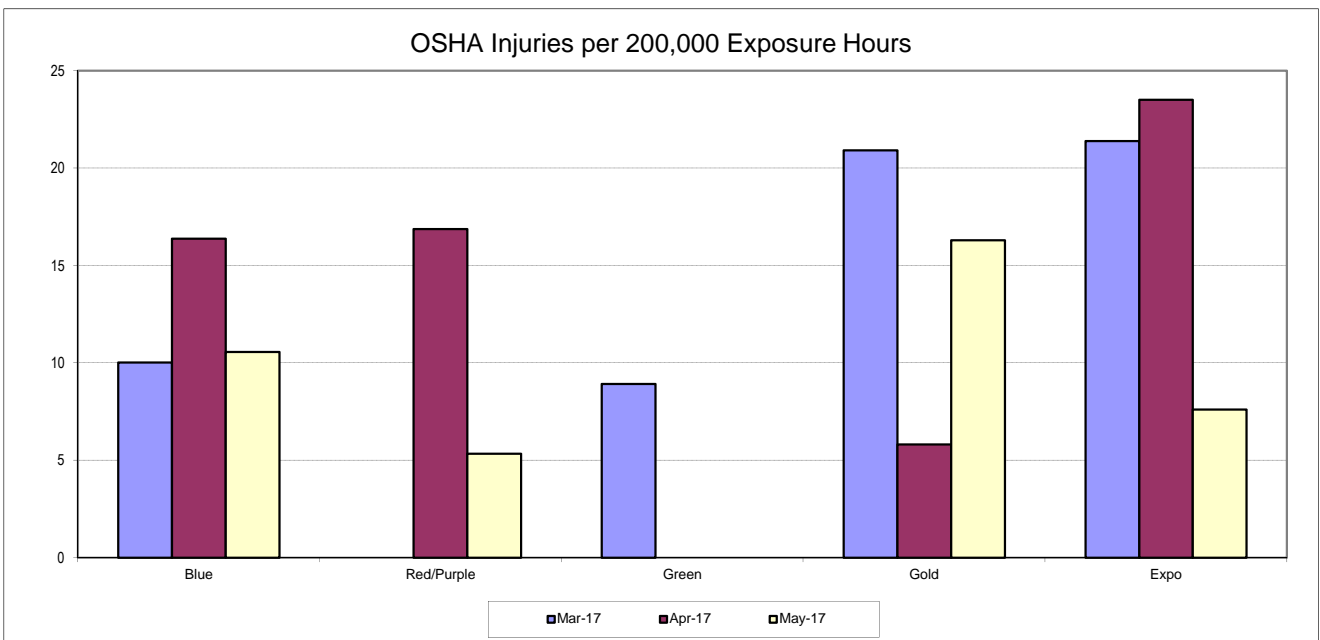
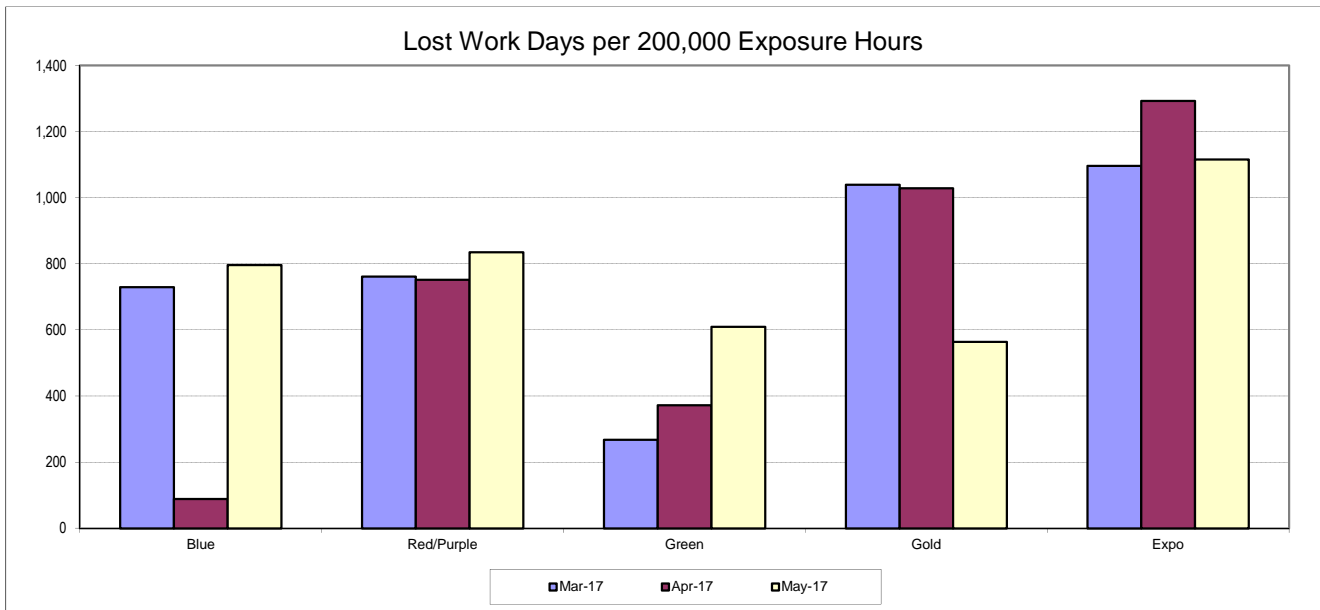
3 Month Comparison



## Lost Work Days and OSHA Injuries

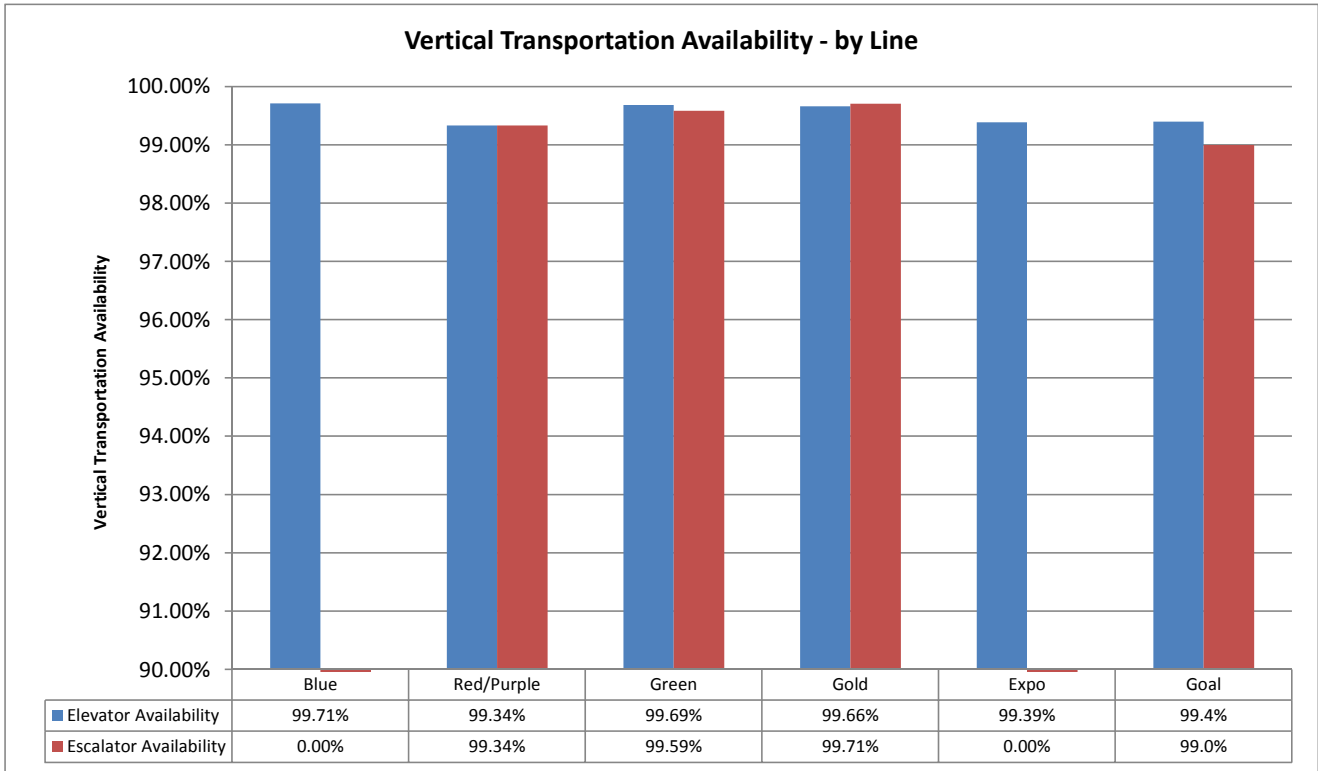
### Mar 2017 - May 2017

### 3 Month Comparison



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

## Systemwide Vertical Transportation Availability by Line



Note: No Escalators at Blue and Expo Lines

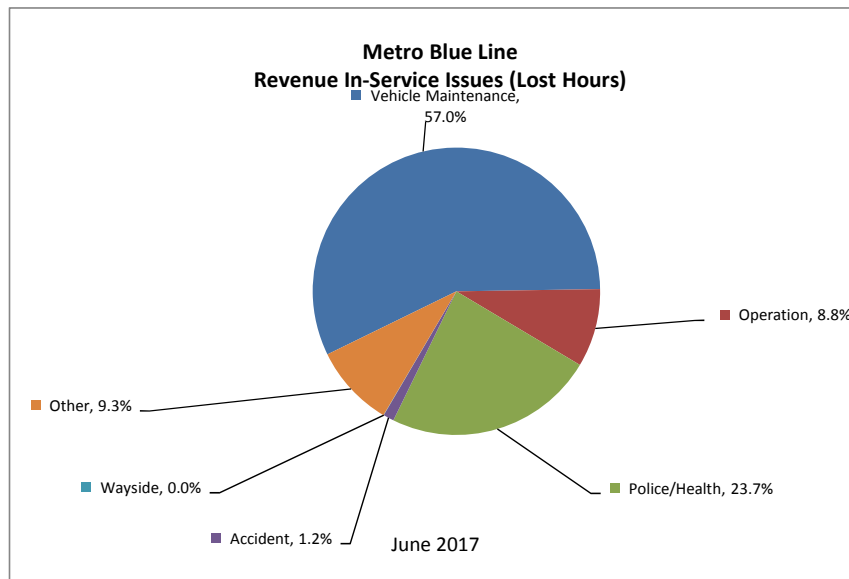
## BLUE LINE

Out of a total of 20,731 hours operated, there were approximately 255 total hours of service delays.

June 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	20,476	98.8%
Cancelled + Delayed Hours	255	1.2%
<b>Total Revenue Hours</b>	<b>20,731</b>	<b>100.0%</b>

Summary of the major contributors:	Count	Hours	Percent
Operations	4	22.5	8.8%
Accidents	1	3.0	1.2%
Vehicle Maintenance	53	145.5	57.0%
Wayside	1	0.1	0.0%
Police & Health	12	60.5	23.7%
Other	7	23.8	9.3%
<b>Total</b>	<b>78</b>	<b>255.3</b>	<b>100.0%</b>

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





## June 2017 Blue Line major delay contributors were as follows:

### Operations Incidents:

**6/1/2017 8:22:00 PM - Incident# 2872531 (0 lost trips, 8 lost minutes)**

2S Junction/Rule Violation/Train 126 took an improper route.

**6/11/2017 11:05:00 PM - Incident# 2875880 (7 lost trips, 1,144 lost minutes)**

Train turn backs due to car on the ROW.

**6/23/2017 8:57:00 AM - Incident# 2880227 (0 lost trips, 3 lost minutes)**

Passenger transfer and train replacement, due to unclearable propulsion faults.

Train#111

T#84

(233B),301,250

Track#2, Southbound, Willow Station.

**6/26/2017 5:45:00 PM - Incident# 2881199 (1 lost trip, 193 lost minutes)**

No Movement

Train # 109

T-547

167-128-165

SB, Washington Station, Track #2

### Accidents:

**6/19/2017 12:42:00 PM - Incident# 2878658 (1 lost trip, 183 lost minutes)**

Vehicle turns left in front of train.

Train #103.

T-308.

LRV-(118A), 158, 124.

Grand Grade , Track #2, Southbound.

### Vehicle Maintenance Incidents:

**6/1/2017 4:51:00 PM - Incident# 2872467 (1 lost trip, 181 lost minutes)**

Operator reports multiple friction brake applications that clear.

Cars 136, 164, (163)

Train 102

T-258

Portal TRK 2

**6/1/2017 6:26:00 PM - Incident# 2872508 (1 lost trip, 190 lost minutes)**

Operator reports propulsion fail and speed restriction Car 101A.

Cars 155, 167, 121

Train 101

T-183

Grand TRK 2, southbound

**6/3/2017 4:37:00 PM - Incident# 2873175 (0 lost trips, 10 lost minutes)**

Sweat shirt wrapped around the track brake.

Car 135A

Willow Station

Northbound

T-307

**6/4/2017 6:51:00 AM - Incident# 2873256 (0 lost trips, 5 lost minutes)**

Train 108 reports Dynamic Brake faults when the train goes in to braking.

Train 108

T-400

LRV'S (129A)-140-106

Grand Station, Track 2, southbound.

**6/4/2017 2:47:00 PM - Incident# 2873343 (0 lost trips, 8 lost minutes)**

Car 128 lost air after un-coupling at Del Amo Station.

**6/5/2017 3:43:00 PM - Incident# 2873746 (2 lost trips, 335 lost minutes)**

Train 111 reports propulsion faults and other problems.

Train 111

T-437

LRV'S 1068-( 1072 ) 1067

Firestone Station, track 2, southbound.

**6/5/2017 5:08:00 PM - Incident# 2873778 (1 lost trip, 168 lost minutes)**

Train 123 reports the door for the TV Screen is open with Exposed electrical wires and a broken hinge. On LRV 1063

Train 123

T-53

LRV'S ( 1063 ) 1064-1069

Willow Station track 2 northbound.

**6/7/2017 7:22:00 AM - Incident# 2874415 (1 lost trip, 180 lost minutes)**

Unclearable prop fault

Train 104

T-182

124-138-(120)

7th Metro Trk 2

6 min delay

**6/7/2017 3:55:00 PM - Incident# 2874608 (1 lost trip, 168 lost minutes)**

Operator reports re-occurring friction brake faults.

Cars 302, 232, 301

Train 119

T-473, M-171

41st Street, TRK 2 southbound

**6/8/2017 2:00:00 PM - Incident# 2874976 (2 lost trips, 335 lost minutes)**

Train-110

T-355

Cars (1072)-1068-1061

Southbound, Track #2

Willow Station

Propulsion / Dynamic Brakes no movement.

**6/9/2017 4:50:00 AM - Incident# 2875150 (0 lost trips, 20 lost minutes)**

Friction Brake Fault

Train 102, (229A)-247-248

T-118

Northbound Track 1 at Washington Interlocking

**6/9/2017 3:43:00 PM - Incident# 2875457 (1 lost trip, 166 lost minutes)**

Propulsion / Dynamic Brakes

(1064)-1062-1068

Train 107

T-201

Departing Transit Mall, Northbound, Track 1

**6/11/2017 7:14:00 AM - Incident# 2875746 (1 lost trip, 163 lost minutes)**

Train 105 reports No Movement at Washington Station southbound.

Train 105

T-256

LRV'S 138-148-(157 )

Washington Station, track 2, southbound.

**6/11/2017 5:21:00 PM - Incident# 2875841 (0 lost trips, 12 lost minutes)**

Door problem 138(163)(153), unable to proceed.

Grand Station

Train #110, T-494, track #1, northbound.

**6/11/2017 6:41:00 PM - Incident# 2875849 (1 lost trip, 174 lost minutes)**

No movement

Train 603

Metro Center tail track two, track 2

T-467

Cars 1054,1074,1020

**6/12/2017 6:07:00 AM - Incident# 2875957 (2 lost trips, 345 lost minutes)**

Propulsion / Dynamic Brakes

302-237-(235)

Train 115

T-495

Willow, Northbound, Track 1

**6/12/2017 3:27:00 PM - Incident# 2876196 (1 lost trip, 168 lost minutes)**

Car (155A) unclearable prop fault.

T-415

Train 105

Cars (155A)-141-135

Pacific Station, Track 1,northbound.

**6/12/2017 4:34:00 PM - Incident# 2876234 (1 lost trip, 168 lost minutes)**

Car (136A) prop fault with audible.

T-353

Train 104

Cars (136A)-107-126

Slauson Station, Track 2, southbound

**6/13/2017 9:24:00 AM - Incident# 2876466 (1 lost trip, 178 lost minutes)**

Train 103 reports no cab signals at washington station LRV 233B

Train 103

T-76

LRV'S ( 233B ) 234-229

Washington Station, Track 2, northbound.

**6/13/2017 10:20:00 AM - Incident# 2876511 (0 lost trips, 14 lost minutes)**

Train 101 reports Propulsion Faults at Transit Mall Station

Train 101

T-026

LRV'S 1071-1067-( 1072 )

Transit Mall Station, northbound.

**6/13/2017 2:30:00 PM - Incident# 2876597 (1 lost trip, 172 lost minutes)**

Train 108 reporting propulsion faults that will not clear on LRV 141A.

Train 108

T-376

LRV'S ( 141A ) 156-112

Pacific Station, track 1, northbound.

**6/13/2017 5:13:00 PM - Incident# 2876664 (0 lost trips, 6 lost minutes)**

Train 104 reporting re-occurring Propulsion Faults operating out of LRV 148A.

Train 104

T-353

LRV's ( 148A ) 138-129

Pacific Coast HWY, track 2, southbound.

**6/14/2017 8:00:00 AM - Incident# 2876824 (2 lost trips, 335 lost minutes)**

Friction Brakes

(159B)-111-128

Train 102

T-321

Southbound, Track 2, Willow

**6/14/2017 12:56:00 PM - Incident# 2877002 (1 lost trip, 168 lost minutes)**

Doors  
(230)-247-301  
Train 105  
T-201  
5th Street, Southbound, Track 2

**6/14/2017 8:06:00 PM - Incident# 2877141 (0 lost trips, 10 lost minutes)**

Operator reports ATP fail on Car 250A.  
Cars 250, 242, 248  
Train 110  
T-201  
Washington TRK 2, southbound

**6/15/2017 11:58:00 AM - Incident# 2877442 (1 lost trip, 178 lost minutes)**

Propulsion dynamic brake faults.  
Train# 104  
T#5  
(247B),301,245  
Track#2,Del Amo Station,Southbound

**6/15/2017 1:32:00 PM - Incident# 2877467 (1 lost trip, 168 lost minutes)**

Propulsion fault. No movement  
Train#105  
T#495  
127A,137,147  
Track#1,Del Amo,Northbound

**6/15/2017 3:00:00 PM - Incident# 2877510 (3 lost trips, 511 lost minutes)**

No movement.  
Train#111  
T#37  
(155B),106,120  
Track#2,Venice Interlocking,Southbound

**6/15/2017 3:50:00 PM - Incident# 2877580 (0 lost trips, 8 lost minutes)**

HSCB fault with no movement.  
Train#107  
T#201  
(1063B),1061  
Track#1,Northbound,Willow Station

**6/16/2017 9:15:00 PM - Incident# 2878026 (0 lost trips, 9 lost minutes)**

Propulsion / Dynamic Brakes.  
T-042  
128-143-(137)  
7TH Metro Center, track 2 Southbound.

**6/17/2017 4:40:00 AM - Incident# 2878059 (0 lost trips, 10 lost minutes)**

Train 107 reports propulsion faults that will not clear, with a speed restriction of 35mph.  
Train 107  
T-259  
LRV'S 148-138-129  
4N mainyard, southbound.

**6/17/2017 11:46:00 AM - Incident# 2878123 (0 lost trips, 20 lost minutes)**

Train 110 reports door problem on LRV 128B doors 7 and 8.  
Train 110  
T-281  
LRV'S ( 128B ) 143-161  
Slauson Station, track 1, reverse running.

**6/17/2017 2:40:00 PM - Incident# 2878154 (0 lost trips, 14 lost minutes)**

Door Problem: Train 107  
Train 107, T-307  
Cars (164), 167  
Slauson, Trk 1, NB  
Doors 1/2/3/4 placed out of service

**6/18/2017 5:25:00 AM - Incident# 2878261 (1 lost trip, 157 lost minutes)**

Reports of no movement  
Train # 104  
T-281  
(1068A)-1063-1072  
Pico Station, Track #2, SB

**6/19/2017 5:21:00 AM - Incident# 2878466 (0 lost trips, 5 lost minutes)**

Door problem.  
Train #104.  
T-335.  
LRV-( K1067B), K1071, K1073.  
Grand Station, Track #2, Southbound.

**6/19/2017 5:35:00 PM - Incident# 2878776 (0 lost trips, 12 lost minutes)**

Car 154A friction brakes not releasing.  
T-400  
Train 105  
Cars (154A)-112  
Promenade Switch, Track 2, southbound.

**6/19/2017 6:44:00 PM - Incident# 2878793 (0 lost trips, 6 lost minutes)**

Door Problem  
Train # 101  
T-183  
138-122-(141B)  
SB, 103rd Street Station, Track #2

**6/20/2017 5:27:00 AM - Incident# 2878870 (1 lost trip, 168 lost minutes)**

Self applying brakes  
Train 104 T-335  
(241A)-301-233  
Trk 2 Vernon S/B  
10 min service delay

**6/20/2017 7:52:00 PM - Incident# 2879219 (1 lost trip, 168 lost minutes)**

B/O Doors  
T-75  
Train 110  
(106),109,154  
Pico Station TK.1 North Bound

**6/21/2017 6:33:00 AM - Incident# 2879319 (1 lost trip, 175 lost minutes)**

Friction Brakes  
(302B)-240-241  
Train 111  
T-46  
Firestone, Track 2, Southbound,

**6/22/2017 5:50:00 AM - Incident# 2879674 (2 lost trips, 348 lost minutes)**

Friction Brakes no movement  
Train 607  
T-62  
(1039)-1030  
Trk 3 La Cienega  
+12

**6/22/2017 9:09:00 AM - Incident# 2879845 (0 lost trips, 5 lost minutes)**

Doors, Pulled "T", cars (233B)-301-250  
Train #106  
T-481  
Wardlow Station, Track #001, Northbound.

**6/23/2017 8:18:00 AM - Incident# 2880214 (0 lost trips, 9 lost minutes)**

Self applying brakes.  
Train#115  
T#90  
(241A),248,302  
Track#1,Northbound, 103rd Street Station

**6/25/2017 6:20:00 PM - Incident# 2880792 (1 lost trip, 174 lost minutes)**

Burnong brakes  
Train #108  
T-258  
(119A)-140-101  
SB, Compton Station, Track #2

**6/26/2017 1:38:00 PM - Incident# 2881083 (0 lost trips, 15 lost minutes)**

Train 102 reporting Propulsion faults with no movement on LRV 1071A.  
Train 102  
T-194  
LRV'S ( 1071 ) 1069-1062  
San Pedro Station, track 1, Northbound.

**6/26/2017 4:30:00 PM - Incident# 2881164 (4 lost trips, 686 lost minutes)**

Train 602 reports no movement with friction brakes problem at Pico Station.  
Train 602  
T-424  
LRV'S ( 133a ) 146-125  
Pico Station Track 2, Southbound.

**6/27/2017 8:19:00 AM - Incident# 2881373 (1 lost trip, 168 lost minutes)**

Operator reports of a propulsion fault  
Train 117  
T-201  
(115)147-162  
Wardlow station, Trk. 1, northbound

**6/28/2017 2:51:00 PM - Incident# 2881982 (2 lost trips, 336 lost minutes)**

Operator reports the ADU is dark on Car 247B.  
Cars (247B), 249, 229  
Train 107  
T-37  
Wardlow TRK 1, northbound

**6/28/2017 8:04:00 PM - Incident# 2882095 (1 lost trip, 168 lost minutes)**

Train Operator T-258 reports of having a brake fault with a speed restriction.

**6/29/2017 1:41:00 PM - Incident# 2882464 (1 lost trip, 168 lost minutes)**

Operator reports self applying brakes on Car 241A.  
Cas (241B), 231, 302  
Train 106  
T-307  
Wardlow TRK 1, northbound

**6/29/2017 5:08:00 PM - Incident# 2882534 (6 lost trips, 1,019 lost minutes)**

Operator reports doors open indicator unknown car.  
Cars 167, 162, 166  
Train 108  
T-547  
Grand Station TRK 2, southbound

**6/29/2017 6:37:00 PM - Incident# 2882563 (1 lost trip, 168 lost minutes)**

Operator T-59 reports of re-occurring propulsion faults and a strong smell of burning brakes.

Train 102

T-59

Cars (149A)-156-112

Willowbrook Station, Track 2, Southbound

**6/30/2017 4:17:00 PM - Incident# 2882933 (1 lost trip, 181 lost minutes)**

Train 608 loosing Cab Signals, operating LRV is 240A

Train 605

T-240

LRV'S ( 240A ) 255-250

Den Amo Station, track 1, northbound.

**Wayside Incidents:**

**6/15/2017 8:55:00 PM - Incident# 2877613 (0 lost trips, 5 lost minutes)**

Arinc System shows a false occupancy and power failure on tracks 1 and 2, between Elm St grade crossing and Greenleaf Grade Crossing.

**Police & Health Incidents:**

**6/3/2017 5:46:00 AM - Incident# 2873049 (0 lost trips, 5 lost minutes)**

Train 105 reports that a Male Hispanic was bleeding from his foot. Patron was on Board LRV 135A

**6/6/2017 6:27:00 PM - Incident# 2874268 (0 lost trips, 10 lost minutes)**

Suspects in question aboard

Train 103 Track #1 NB Wardlow

T-413

122-106-(135)

**6/7/2017 9:59:00 AM - Incident# 2874472 (0 lost trips, 18 lost minutes)**

Physical altercation on train 105

T-264

Southbound

Junction

**6/9/2017 12:27:00 PM - Incident# 2875329 (0 lost trips, 8 lost minutes)**

Sick Individual (14 yr old male hispanic, vomiting and unable to walk from train)

**6/14/2017 2:23:00 PM - Incident# 2877027 (17 lost trips, 2,850 lost minutes)**

Washington-Vernon/LAAPD called a 996-T adjacent to MTA tracks.

**6/15/2017 6:48:00 PM - Incident# 2877598 (0 lost trips, 6 lost minutes)**

Operator T-249 reports a physical altercation on board train 125, car 112B.

Train 125

T-249

Cars (1182B)-130-121

Compton Station, Track 2, Southbound

**6/18/2017 4:46:00 PM - Incident# 2878362 (0 lost trips, 10 lost minutes)**

Altercation on board

Train 106

T-075

138-(148)

Track 1 N/B at Slauson Station.

**6/19/2017 3:18:00 PM - Incident# 2878741 (2 lost trips, 347 lost minutes)**

Century Grade Crossing suicidal trespasser seating on Track 1.

**6/23/2017 4:50:00 PM - Incident# 2880410 (0 lost trips, 6 lost minutes)**

Assault  
Train 123  
T-053  
(127)-165-135  
Southbound, Track 2 Wardlow station.

**6/25/2017 4:56:00 PM - Incident# 2880782 (0 lost trips, 14 lost minutes)**

Operator reported robbery on the train.  
Train 110.  
T-53  
119-140-(101).  
Track 1 N/B at Willowbrook Station.

**6/27/2017 9:01:00 PM - Incident# 2881659 (0 lost trips, 10 lost minutes)**

Other Felony/Misdemeanor Deputy Rogie notified ROC to hold train from servicing Willow station due to police activity near the ROW.

**6/28/2017 2:58:00 PM - Incident# 2881991 (2 lost trips, 345 lost minutes)**

Washington and Broadway/R-177 reports a TA at the intersection.

**Other Incidents:**

**6/14/2017 9:16:00 AM - Incident# 2876886 (0 lost trips, 11 lost minutes)**

Misc. Operator Problem

**6/19/2017 4:09:00 AM - Incident# 2878447 (0 lost trips, 5 lost minutes)**

Operator reports no movement.  
Train #103.  
T-115.  
LRV- K1064, K1072, K1063.  
Replacement cars; 118, 158, 124.  
4N Mainyard.

**6/19/2017 6:47:00 PM - Incident# 2878786 (1 lost trip, 174 lost minutes)**

Emergency: Patron Injured  
Wardlow Station, Track # 2, SB  
Train # 124, T-43  
Car #1063-1072-1064

**6/21/2017 9:39:00 PM - Incident# 2879615 (0 lost trips, 12 lost minutes)**

RTU: Lost Communication

From 7th & Metro to Florence IL

**6/23/2017 6:04:00 AM - Incident# 2880167 (2 lost trips, 348 lost minutes)**

Operator out late from Blue line yard due to mis reading his schedule.  
T-487  
Train#115  
Cars302-241-248  
Northbound TRk 1  
Mainyard

**6/25/2017 9:55:00 PM - Incident# 2880823 (5 lost trips, 870 lost minutes)**

Fire: Building Fire  
Home Depot  
LASD/ Deputy Ortiz

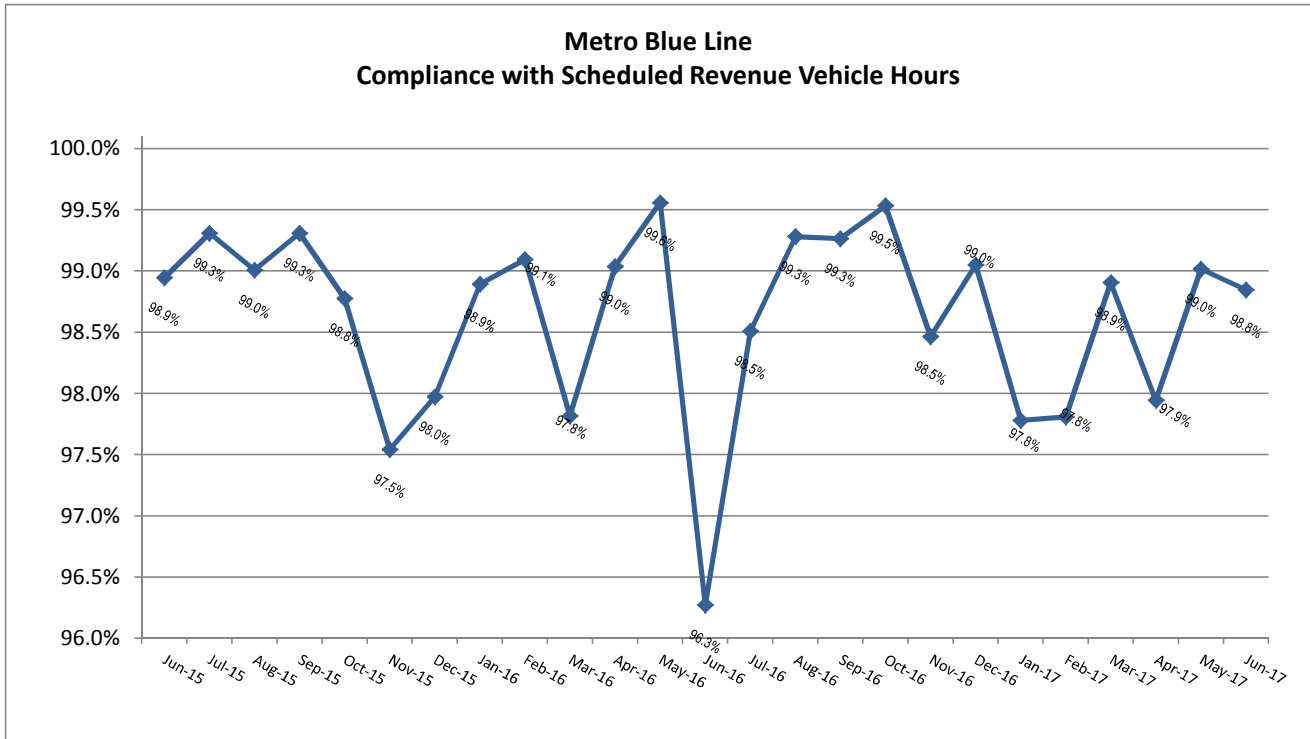
**6/27/2017 3:26:00 PM - Incident# 2881549 (0 lost trips, 6 lost minutes)**

False Signal Overrun (Arinc Scada Alarm)  
Train 101  
T-211  
(108A)-123-161  
7th Metro Center signal 5N Pico, Track 2.

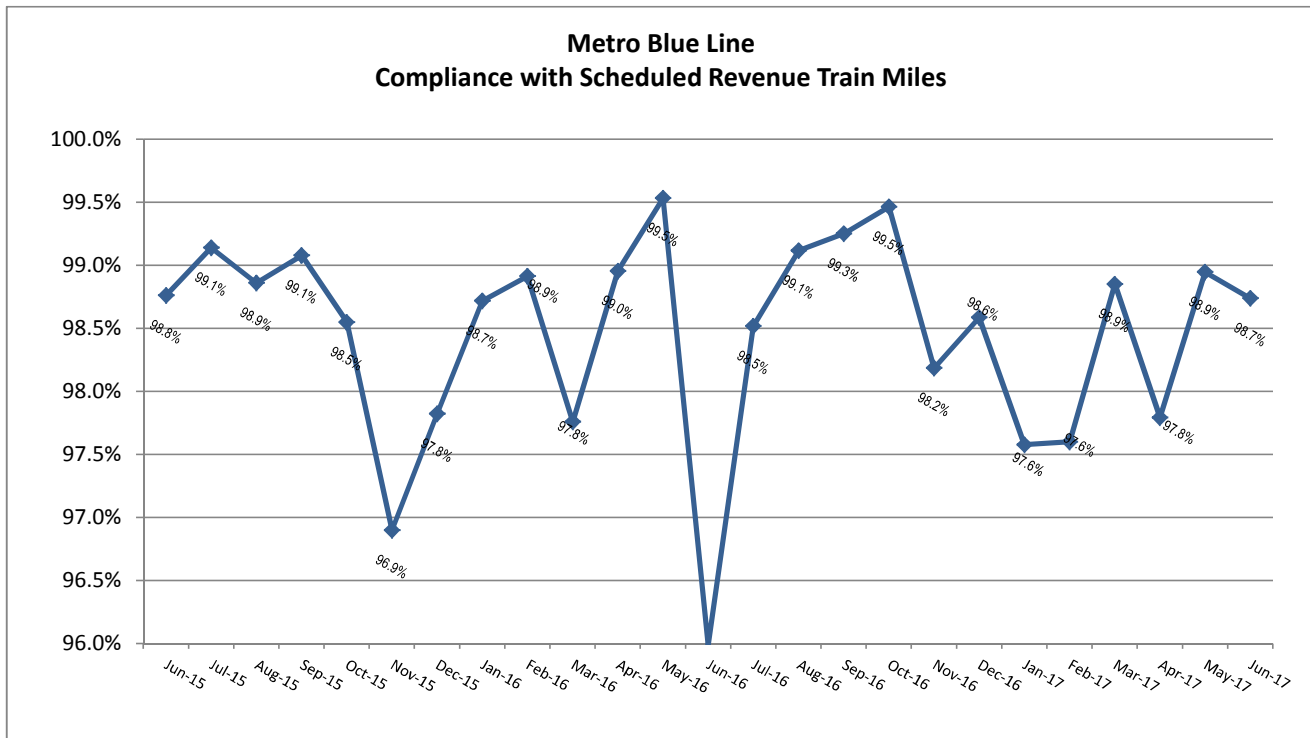


# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

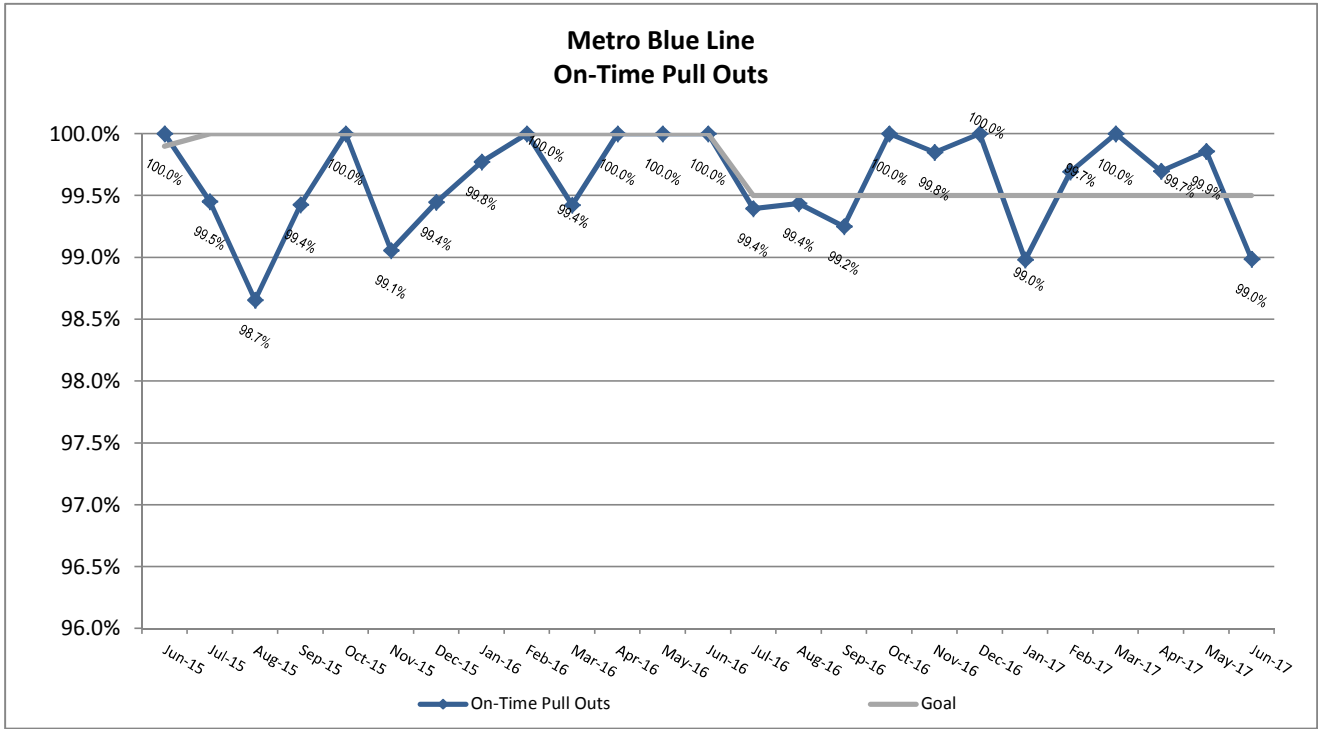
## COMPLIANCE WITH SCHEDULED VEHICLE HOURS



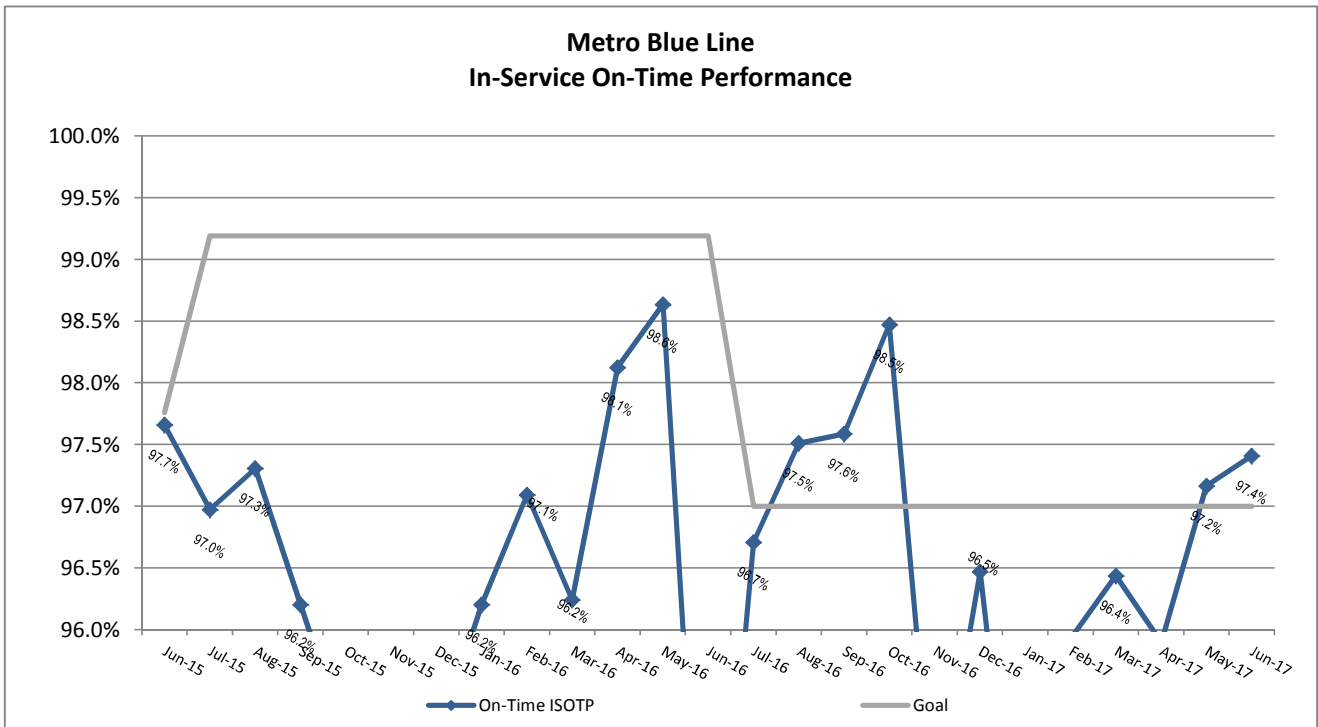
## COMPLIANCE WITH SCHEDULED TRAIN MILES



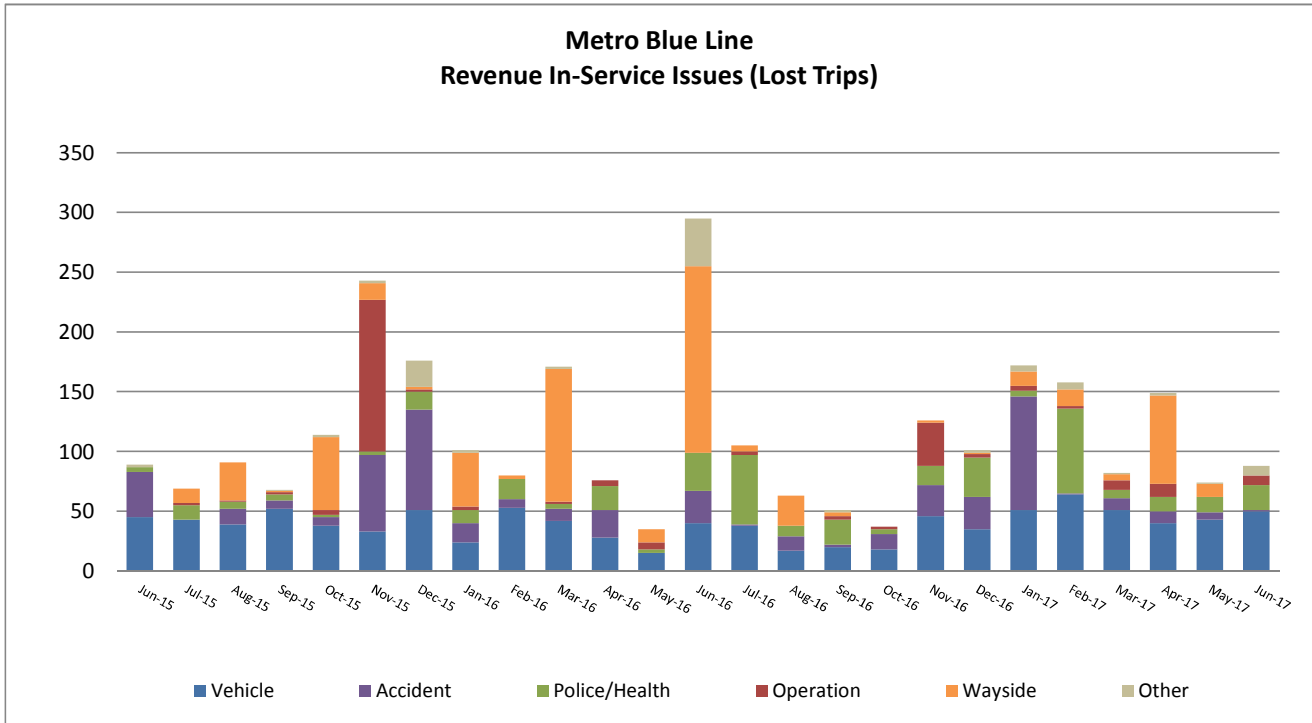
### ON-TIME PULL OUTS



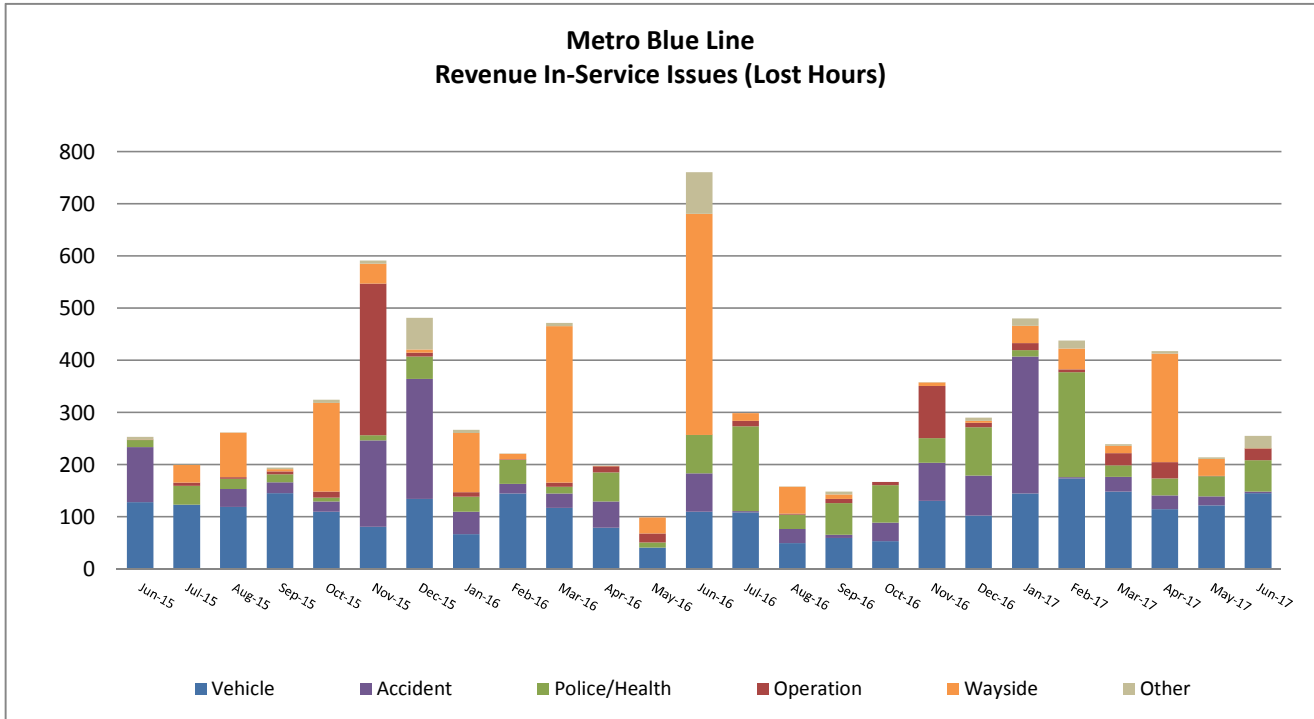
### IN-SERVICE ON-TIME PERFORMANCE CHART



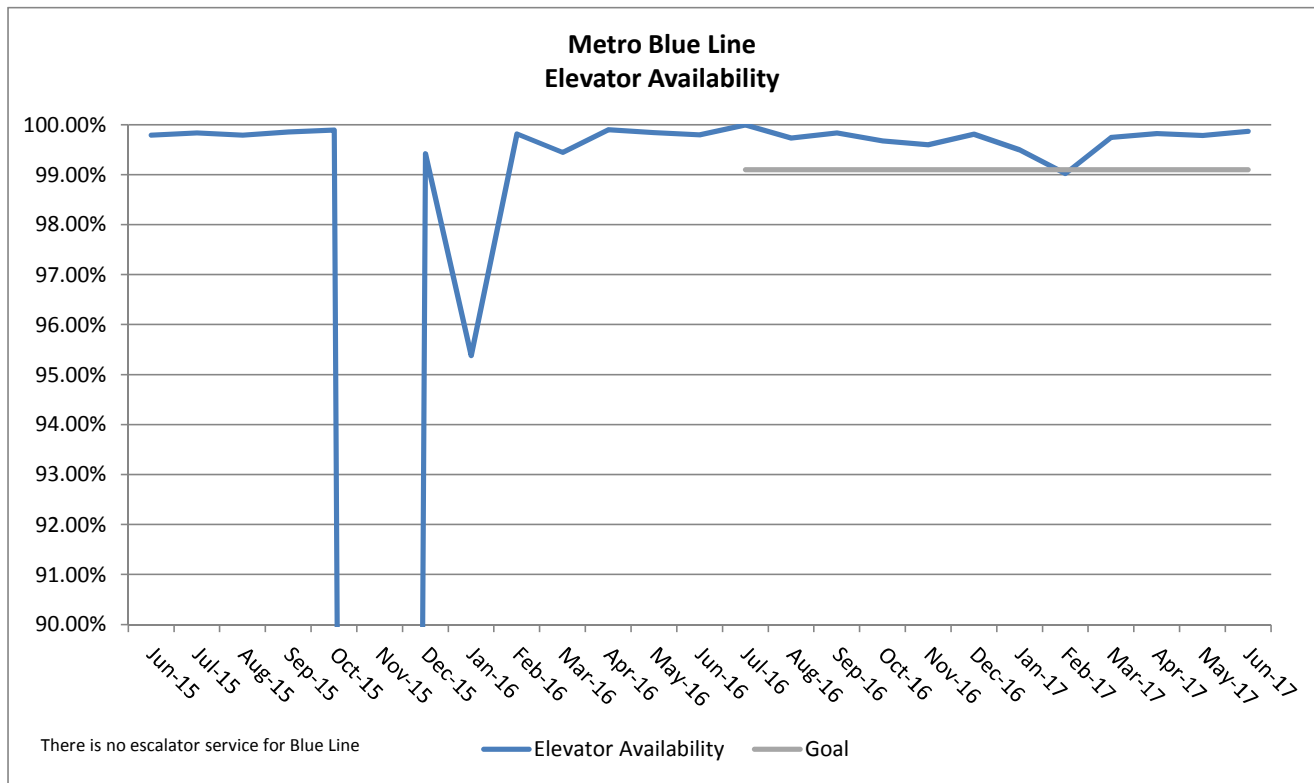
## LOST TRIPS



## LOST HOURS



## VERTICAL TRANSPORTATION AVAILABILITY



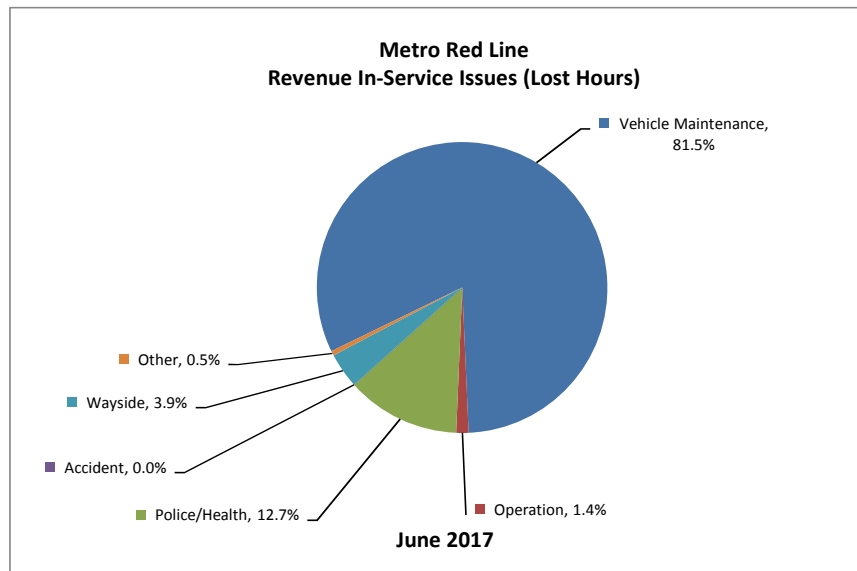
## RED LINE

Out of a total of 26,740 hours operated, there were approximately 67 total hours of service delays.

June 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	26,673	99.8%
Cancelled + Delayed Hours	67	0.2%
<b>Total Revenue Hours</b>	<b>26,740</b>	<b>100.0%</b>

Summary of the major contributors:	Count	Hours	Percent
Operations	3	0.9	1.4%
Accidents	0	0.0	0.0%
Vehicle Maintenance	14	54.3	81.5%
Wayside	3	2.6	3.9%
Police & Health	7	8.5	12.7%
Other	1	0.3	0.5%
<b>Total</b>	<b>28</b>	<b>66.7</b>	<b>100.0%</b>

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



**June 2017 Red Line major delay contributors were as follows:**

**Operations Incidents:**

**6/8/2017 12:10:00 AM - Incident# 2874728 (0 lost trips, 30 lost minutes)**

Loss of SCADA

**6/10/2017 8:38:00 PM - Incident# 2875694 (0 lost trips, 18 lost minutes)**

Train delay due to police activity at Wilshire Vermont AL track.

**6/28/2017 3:32:00 PM - Incident# 2881996 (0 lost trips, 7 lost minutes)**

Operator error

**Vehicle Maintenance Incidents:**

**6/1/2017 8:55:00 AM - Incident# 2872274 (0 lost trips, 11 lost minutes)**

Train 205 (539,540, 573,574,541,542) T-333, Vermont Beverly, AR reports service brake failure indication followed by friction brakes not releasing.

**6/3/2017 9:59:00 AM - Incident# 2873102 (1 lost trip, 158 lost minutes)**

Report of emergency brake won't released.

T-254

Train 203

Cars 511-512-513-(514)

Wilshire Western BL eastbound.

**6/3/2017 3:45:00 PM - Incident# 2873170 (2 lost trips, 317 lost minutes)**

Report of service brake failure, no movement.

T-384

Train 208

Cars 587-(588)-551-552-597-598

CP 1 AL eastbound.

**6/5/2017 5:16:00 AM - Incident# 2873441 (2 lost trips, 297 lost minutes)**

Union Station AL Track (departing), Train-203 T-364 cars 529/520/525/524 experienced "Emergency Brake" application while in Union West IL with lead car 529.

**6/5/2017 6:05:00 AM - Incident# 2873477 (0 lost trips, 12 lost minutes)**

Emergency Brake Application

Train 204

T-364

Cars (537)-538-541-542-561-562

Union Station West Interlocking West

**6/5/2017 7:40:00 AM - Incident# 2873534 (1 lost trip, 168 lost minutes)**

Loss of Cab Signals

Train 209

T-009

Cars (575)-576-603-604-571-572

Union West Interlocking West

**6/6/2017 7:19:00 PM - Incident# 2874278 (2 lost trips, 307 lost minutes)**

Report of friction brake won't release.

T-023

Train 206

Cars 507-510-527-(510)

Civic Center AL eastbound.

**6/8/2017 7:23:00 PM - Incident# 2875092 (7 lost trips, 1,039 lost minutes)**

Emergency Brake not releasing, request EMO.

Train 215

T-166

Cars 519,526,(509),(508), 521,530

Union Station West Interlocking

**6/16/2017 11:58:00 AM - Incident# 2877832 (4 lost trips, 595 lost minutes)**

Train 206 (525,524,509,508) T-278, 7th & Metro reports doors would not open, when they did open, once he closed the doors, friction brakes on remained illuminated.

**6/18/2017 4:30:00 AM - Incident# 2878254 (2 lost trips, 328 lost minutes)**

Emergency Brake Application  
Train 205  
T-254  
Cars (585)-586-573-574-575-576  
Union Station AR East Interlocking

**6/20/2017 10:59:00 AM - Incident# 2879000 (0 lost trips, 14 lost minutes)**

T-107 reports train 207 (cars 571, 572, 549, 550) at North Hollywood, AR Platform, Eastbound has flashing cab signals and emergency brakes applied and will not release.

**6/23/2017 6:06:00 PM - Incident# 2880414 (0 lost trips, 5 lost minutes)**

Service brake failure (559)560,597,598.  
Union Station  
Train #206, T-006, AR, westbound.

**6/25/2017 3:18:00 PM - Incident# 2880772 (0 lost trips, 5 lost minutes)**

Recurring Emergency Brake Application.  
Train # 201  
T-320  
Cars #575-576-545-546-565-(566).  
E/Bound North Hollywood A/R Track.

**6/26/2017 4:08:00 PM - Incident# 2881129 (0 lost trips, 5 lost minutes)**

Report of emergency brake won't release.  
T-333  
Train 214  
Cars 559-560-597-598-595-(596)  
Hollywood Western AL eastbound.

**Wayside Incidents:**

**6/3/2017 8:00:00 AM - Incident# 2873076 (0 lost trips, 5 lost minutes)**

Loss of Auxiliary Power due to breakers opening at 7th Metro. Fault generated ATC blown fuse indication for Signaling System.

**6/15/2017 5:11:00 AM - Incident# 2877227 (0 lost trips, 3 lost minutes)**

TRACS indicates DC Feeder Breaker opened at Vermont/Beverly.

**6/26/2017 4:00:00 AM - Incident# 2880855 (1 lost trip, 149 lost minutes)**

YL/AL Track Yard Limit to Union Station East IL (de-energized), pull-out train/sweep train Train-212 trapped inside no power zone. ROC bumped line however, miscommunications and/or misunderstood instructions Operator failed to service Union to Pershing.

**Police & Health Incidents:**

**6/3/2017 9:38:00 AM - Incident# 2873088 (0 lost trips, 10 lost minutes)**

Train 201 T-364 reports an individual experiencing a seizure.

**6/15/2017 5:05:00 AM - Incident# 2877226 (0 lost trips, 5 lost minutes)**

LAPD held train at North Hollywood station due to unruly patron.  
Train # 211  
T-10  
North Hollywood terminal station, eastbound  
595 596 569 570 553 554

**6/17/2017 10:58:00 AM - Incident# 2878116 (1 lost trip, 153 lost minutes)**

Report of LAPD holding Train 207 at North Hollywood.

**6/17/2017 11:16:00 AM - Incident# 2878118 (0 lost trips, 12 lost minutes)**

Train 207/T-22 on approach to North Hollywood AR track, emergency intercomm activated from car 574.

**6/23/2017 9:44:00 PM - Incident# 2880449 (2 lost trips, 298 lost minutes)**

Altercation on board consist.  
Westlake Station  
Train #215, T-41, AL, eastbound.  
601,602,541,542,583,584.

**6/24/2017 12:38:00 PM - Incident# 2880565 (0 lost trips, 20 lost minutes)**

Trespasser entered AR east gates leading to the trackway.

**6/25/2017 10:50:00 AM - Incident# 2880706 (0 lost trips, 10 lost minutes)**

Train 205 Car 541 Male Hispanic experiencing a seizure.

**Other Incidents:**

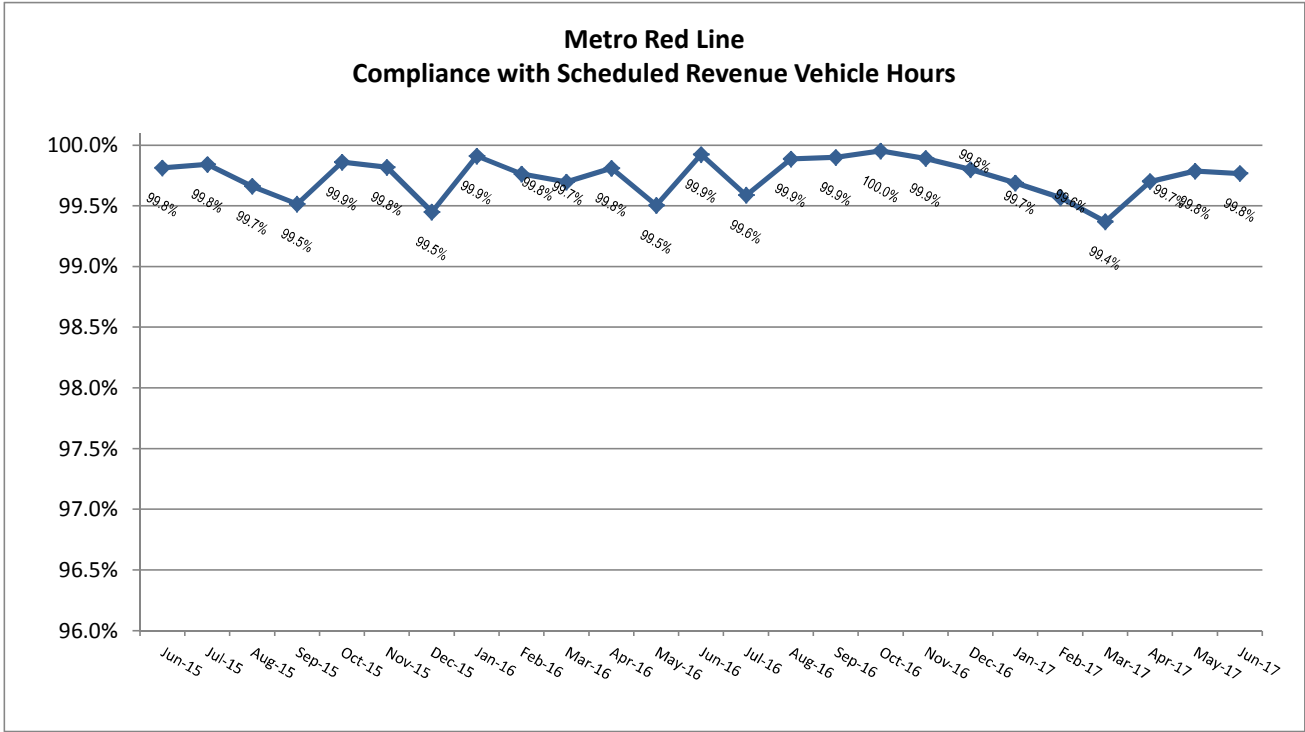
**6/21/2017 6:38:00 PM - Incident# 2879618 (0 lost trips, 20 lost minutes)**

TRACS indicates total loss of the remote terminal units and radio communications throughout the mainline.

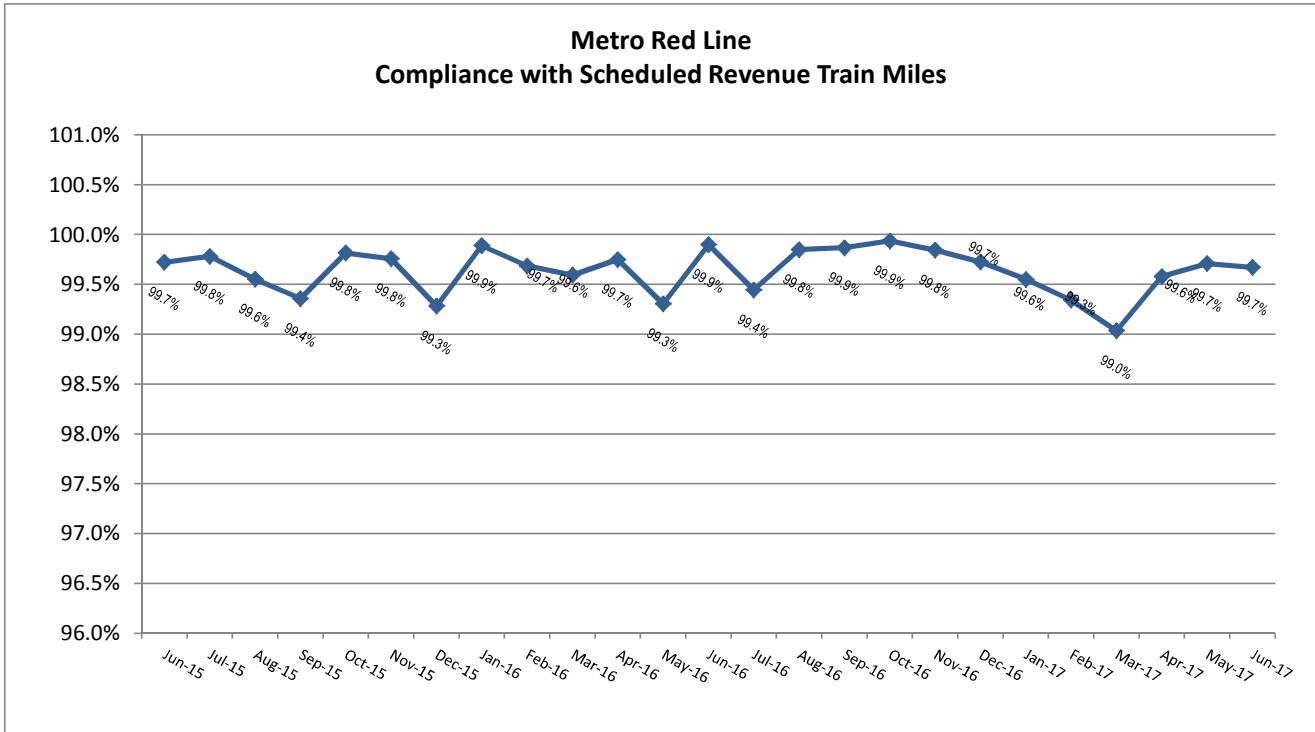


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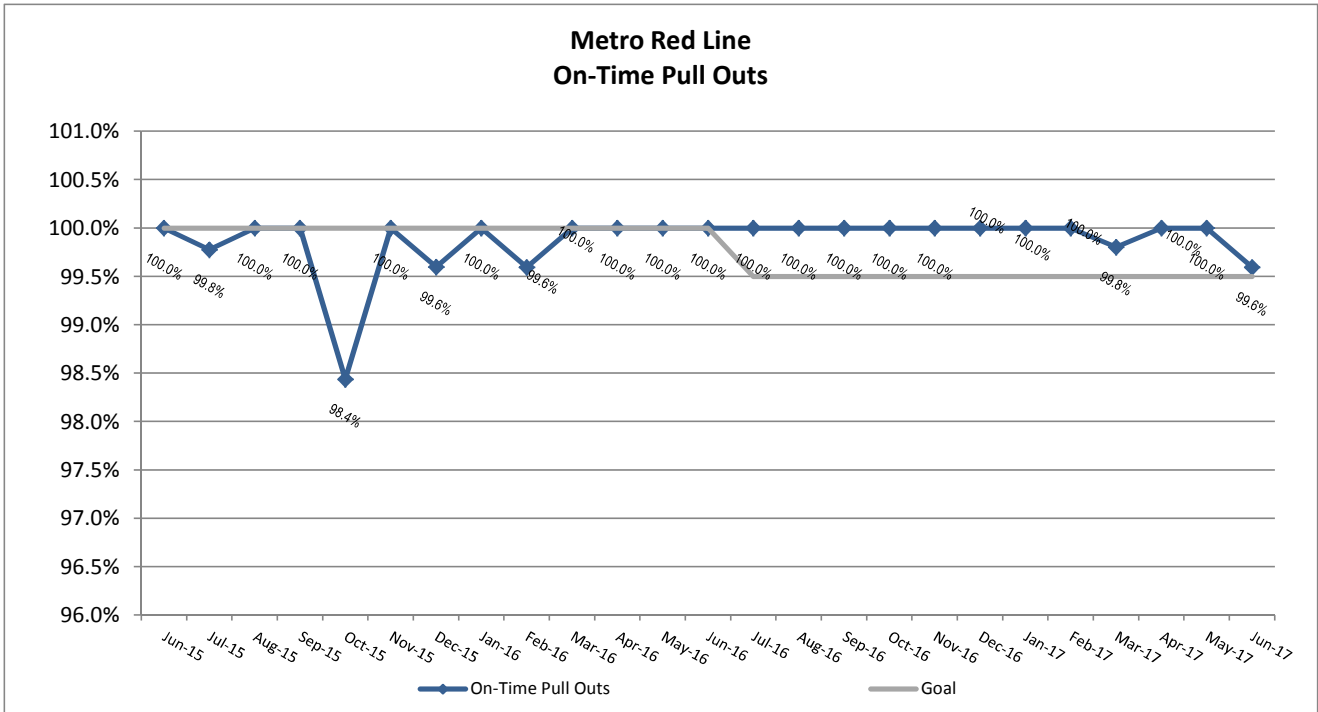
## COMPLIANCE WITH SCHEDULED VEHICLE HOURS



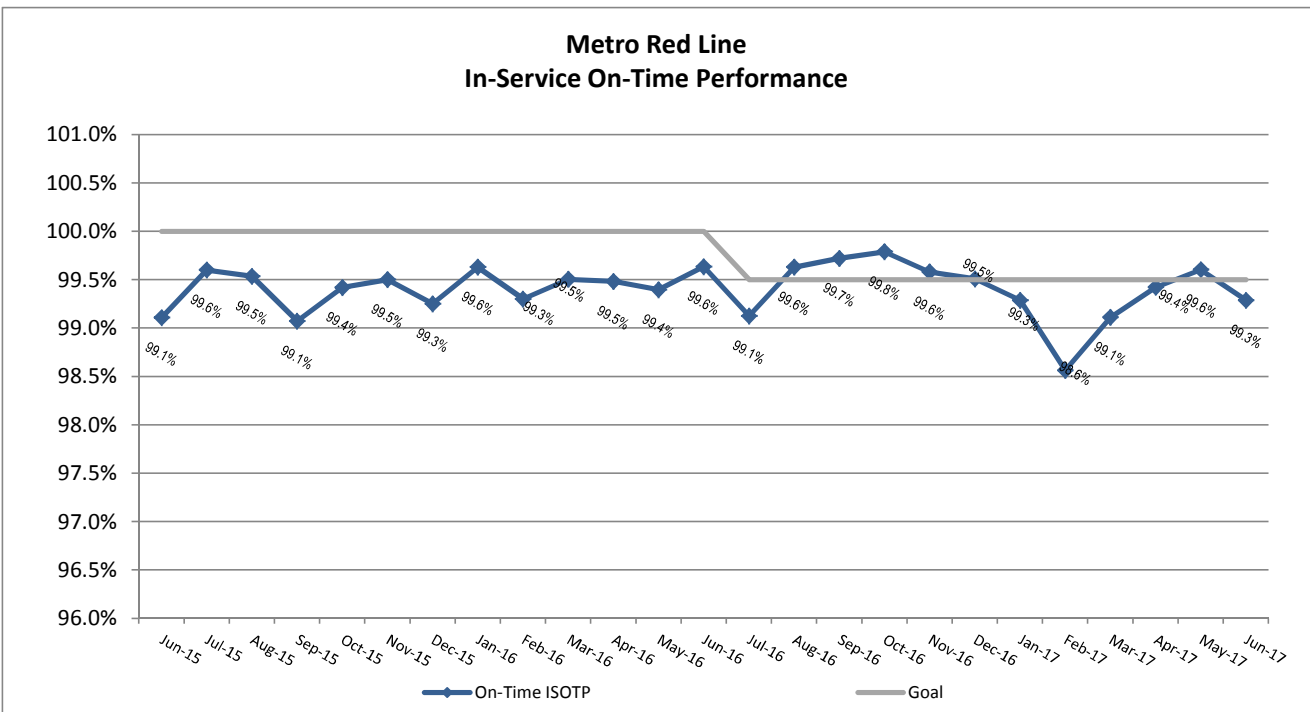
## COMPLIANCE WITH SCHEDULED TRAIN MILES



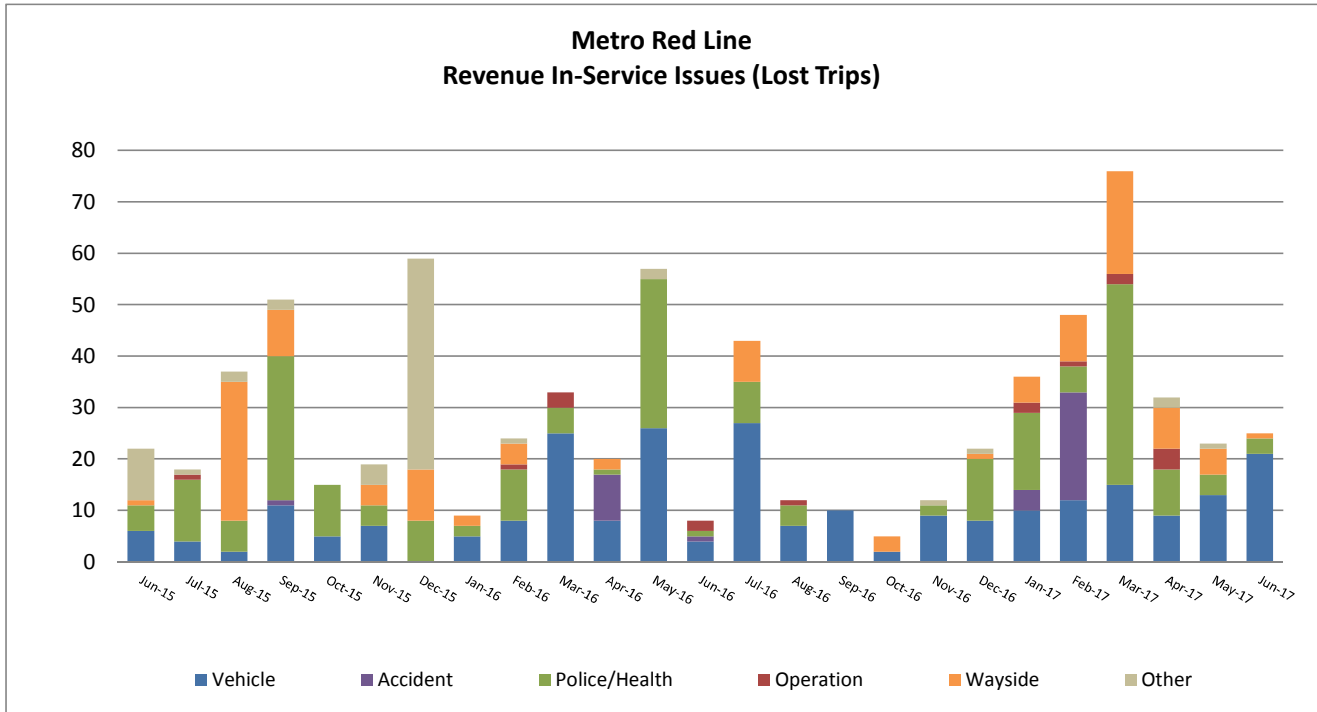
## ON-TIME PULL OUTS



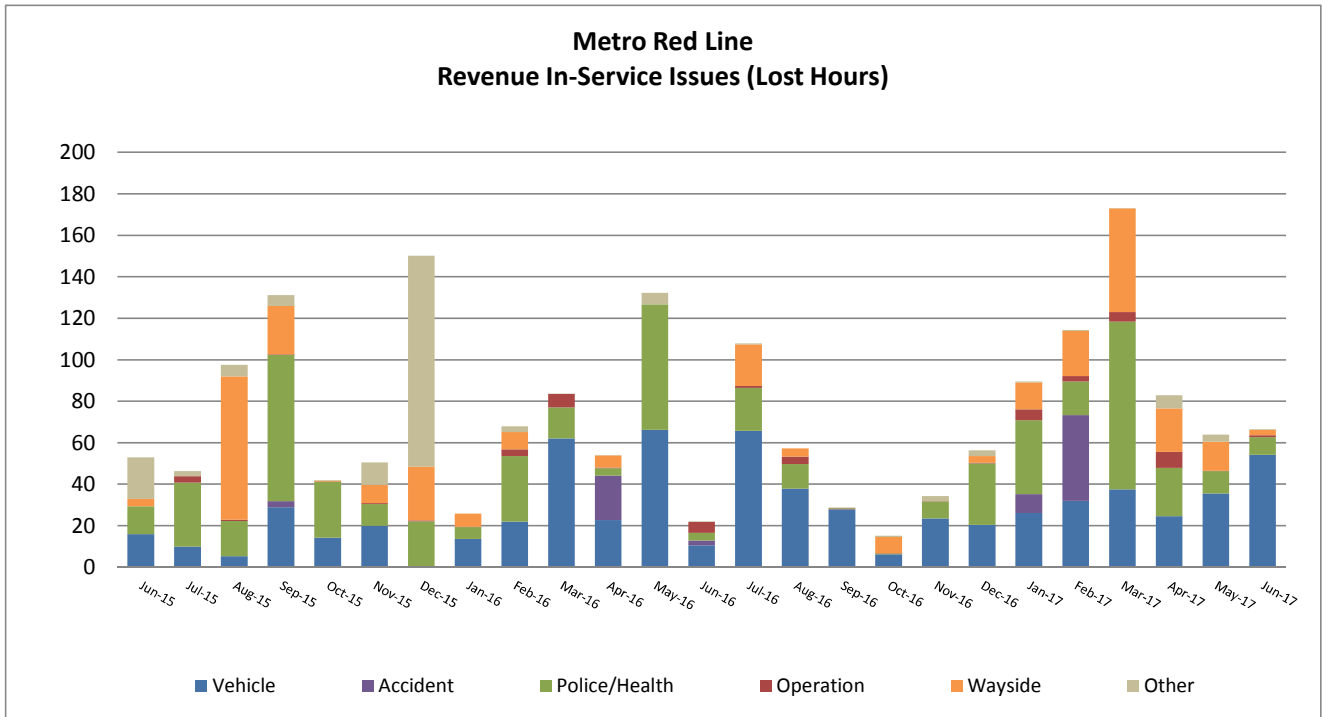
## IN-SERVICE ON-TIME PERFORMANCE



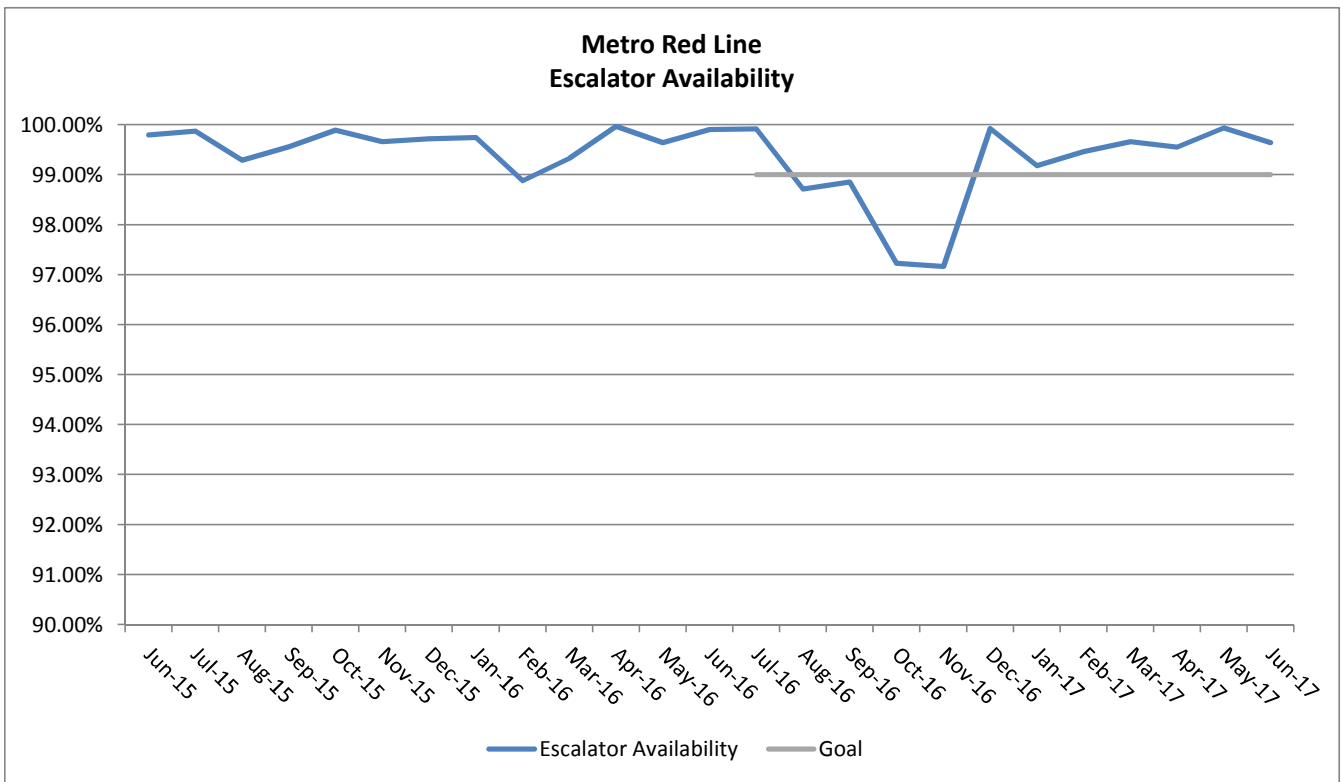
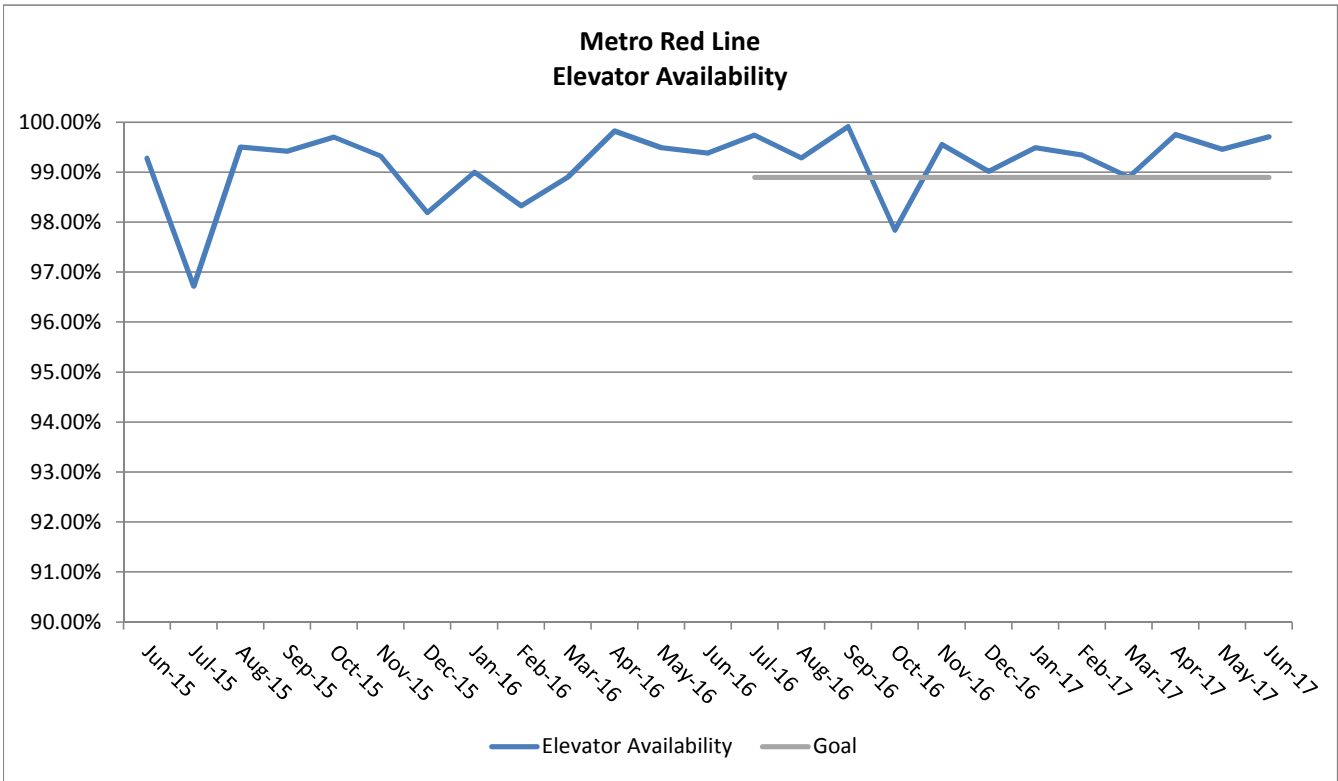
### LOST TRIPS



### LOST TRIPS



## VERTICAL TRANSPORTATION AVAILABILITY



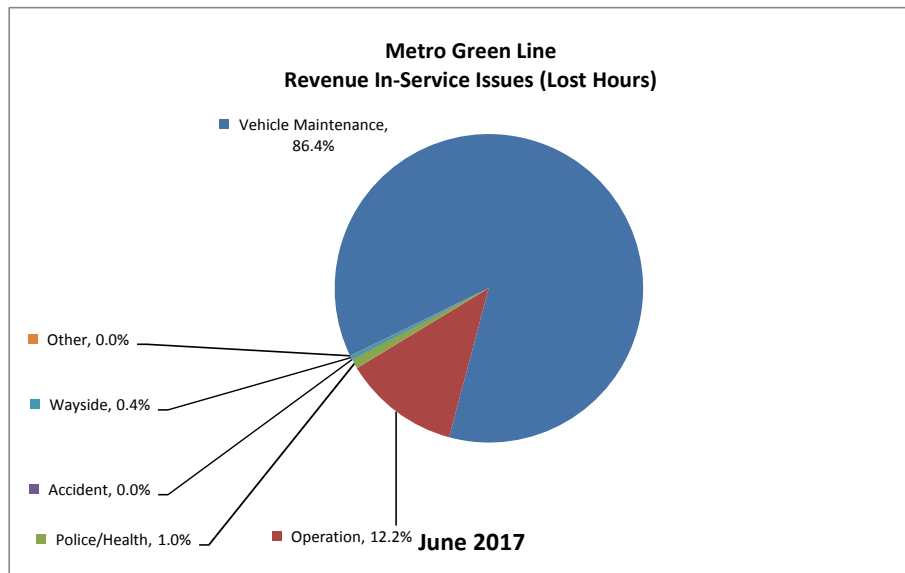
## GREEN LINE

Out of a total of 8,198 hours operated, there were approximately 29 total hours of service delays.

June 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	8,169	99.7%
Cancelled + Delayed Hours	29	0.3%
<b>Total Revenue Hours</b>	<b>8,198</b>	<b>100.0%</b>

Summary of the major contributors:	Count	Hours	Percent
Operations	4	3.5	12.2%
Accidents	0	0.0	0.0%
Vehicle Maintenance	21	24.7	86.4%
Wayside	1	0.1	0.4%
Police & Health	3	0.3	1.0%
Other	0	0.0	0.0%
<b>Total</b>	<b>29</b>	<b>28.6</b>	<b>100.0%</b>

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



## June 2017 Green Line major delay contributors were as follows:

### Operations Incidents:

**6/2/2017 6:31:00 AM - Incident# 2872680 (0 lost trips, 10 lost minutes)**

Train 337, T-148, track 2 over shot Long Beach Station by approximately 3 car lengths.

**6/9/2017 6:45:00 AM - Incident# 2875200 (2 lost trips, 129 lost minutes)**

Operator reports marijuana smoker on train affected him, unable to continue

Train # 337

T-070

Norwalk terminal station

(223) 210

**6/22/2017 6:24:00 AM - Incident# 2879695 (0 lost trips, 4 lost minutes)**

Roll out, Train #341

R-091

Green Line Yard.

**6/27/2017 3:53:00 AM - Incident# 2881521 (1 lost trip, 66 lost minutes)**

Norwalk/Train 335, T-496 passed a red signal.

### Vehicle Maintenance Incidents:

**6/1/2017 4:19:00 AM - Incident# 2872204 (0 lost trips, 10 lost minutes)**

Train 331 reports no movement ATP problems

T-40, Train 331

Track 1, Norwalk

**6/1/2017 5:16:00 AM - Incident# 2872201 (2 lost trips, 142 lost minutes)**

Train 337 reports propulsion faults

T-113, Train 337

Track 2, Long Beach, East

(220A)-218

**6/3/2017 6:54:00 AM - Incident# 2873060 (0 lost trips, 7 lost minutes)**

Auto Train Protection (Speed Limit) Loss of Cab Signal 224

T-013

Train 331

LRV 224-225

Norwalk Station, Track 1, westbound.

**6/6/2017 9:53:00 PM - Incident# 2874311 (1 lost trip, 66 lost minutes)**

Operator reports a problem with the coupler on Car 222.

Cars (222), 226

Train 356

T-78

Marine TRK 1, eastbound

**6/10/2017 4:42:00 AM - Incident# 2875544 (0 lost trips, 13 lost minutes)**

Train 332 reports propulsion faults on 220A

T-279, Train 332

Track 2, Avalon, East

(220A)-205

**6/11/2017 7:59:00 PM - Incident# 2875857 (2 lost trips, 124 lost minutes)**

Propulsion FAult in car 202 also the consist lost air pressure due to the pantograph did not raise causing no movement.

Train 335

(202)-205

T-193

Vermont Station Track #2 Eastbound.

**6/12/2017 6:51:00 AM - Incident# 2875976 (0 lost trips, 8 lost minutes)**

Propulsion / Dynamic Brakes, Cars #(220A)-224

Train #336

T-279

Lakewood Station, Westbound, Track #001.

**6/14/2017 3:31:00 PM - Incident# 2877057 (2 lost trips, 133 lost minutes)**

Friction Brakes, cars #(219A)-223

Train #346

T-136

Yardinterface Interlocking Signal #14, track #001.

**6/15/2017 5:40:00 AM - Incident# 2877256 (1 lost trip, 66 lost minutes)**

Propulsion / Dynamic Brakes  
(203)-214  
Train 331  
T-20  
Lakewood, Westwood, Track 1

**6/15/2017 6:33:00 AM - Incident# 2877289 (0 lost trips, 11 lost minutes)**

Propulsion / Dynamic Brakes  
(221)-210  
Train 337  
T-141  
Lakewood, Eastwood, Track 2

**6/16/2017 11:04:00 PM - Incident# 2878029 (0 lost trips, 15 lost minutes)**

Train 342 lost Air Pressure in car 212B  
212B  
Train 342  
El Segundo Station Track #2. Eastbound.  
T-343

**6/18/2017 7:45:00 AM - Incident# 2878286 (3 lost trips, 186 lost minutes)**

EMI Fault, along with Propulsion Fault. Speed Restriction of 20mph.

**6/19/2017 5:45:00 AM - Incident# 2878464 (0 lost trips, 7 lost minutes)**

Door problem on car (227A) doors 3/4.  
Train # 333  
T-13  
El Segundo, track #2, eastbound  
(227A) 219

**6/19/2017 5:05:00 PM - Incident# 2878757 (0 lost trips, 7 lost minutes)**

Operator reports having re-occurring propulsion faults braking.  
Cars (221B), 211  
Train 334  
T-112  
Wilmington TRK1, westbound.

**6/19/2017 10:26:00 PM - Incident# 2878819 (1 lost trip, 76 lost minutes)**

Operator reports Car 209 is losing air on approach to El Segundo.  
Car 209  
Train 345  
T-055  
El Segundo TRK 2, eastbound.

**6/20/2017 5:24:00 PM - Incident# 2879186 (1 lost trip, 66 lost minutes)**

Operator reports propulsion failure with a speed restriction in Car 222.  
Cars (222), 218  
Train 334  
T-55  
Douglas TRK 2, eastbound

**6/21/2017 4:35:00 AM - Incident# 2879277 (4 lost trips, 263 lost minutes)**

Car 207 friction brake fault with no movement.  
T-279  
Train 334  
Consist (207)219  
Yard Limits Signal #8, Eastbound

**6/21/2017 5:14:00 AM - Incident# 2879317 (2 lost trips, 132 lost minutes)**

Dirty car #211-201  
Train #332  
T-040  
Marine Station, Track #002, Eastbound.

**6/23/2017 6:25:00 AM - Incident# 2880172 (0 lost trips, 14 lost minutes)**

Propulsion / Dynamic Brakes  
(211A)-203  
Train 336  
T-193  
Approach to Lakewood, Eastbound, Track 2

**6/23/2017 1:38:00 PM - Incident# 2880330 (1 lost trip, 68 lost minutes)**

No fault/ no movement car 214A-207  
T-057  
Train 333  
Westbound  
Track 1  
Wilmington west signal 16  
MTO MODE

**6/25/2017 10:50:00 AM - Incident# 2880707 (1 lost trip, 68 lost minutes)**

Route selector pushed in on cat (215 A)  
Train # 332  
T-261  
Marine Station, track #2, eastbound  
(215A) 207

**Wayside Incidents:**

**6/14/2017 3:54:00 PM - Incident# 2877069 (0 lost trips, 7 lost minutes)**

Track Circuit: 13, False Occupancy  
ARINC  
Yard Interface, Track #001

**Police & Health Incidents:**

**6/7/2017 2:17:00 PM - Incident# 2874557 (0 lost trips, 4 lost minutes)**

Lost Passenger, Cars #(218)-211  
CCTV-416  
Crenshaw Station Platform.

**6/18/2017 11:50:00 AM - Incident# 2878310 (0 lost trips, 9 lost minutes)**

LASD requested train to hold at Wilmington Station for Assault suspect.

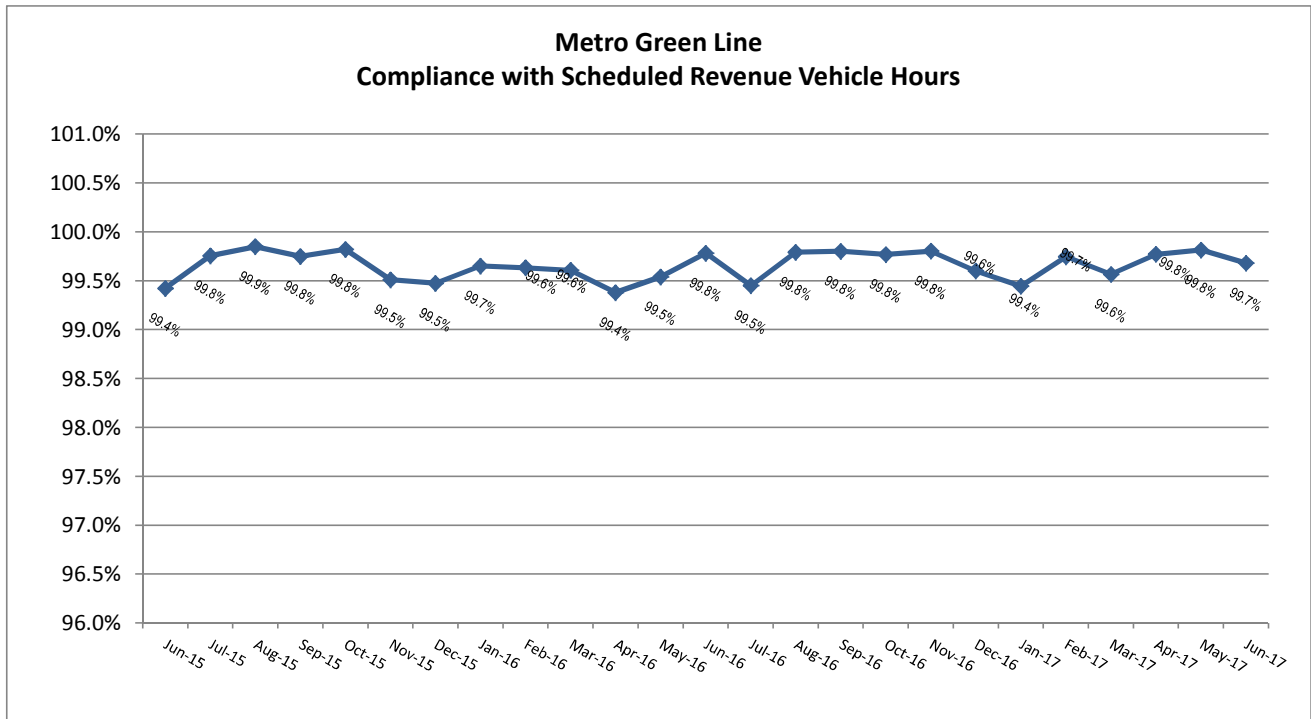
**6/30/2017 6:59:00 PM - Incident# 2882986 (0 lost trips, 4 lost minutes)**

LASD Requested to hold Train 346 at Hawthorne Station ,Eastbound Track #2, for a Robbery Suspect.  
Train 346  
(203)-225  
T-55

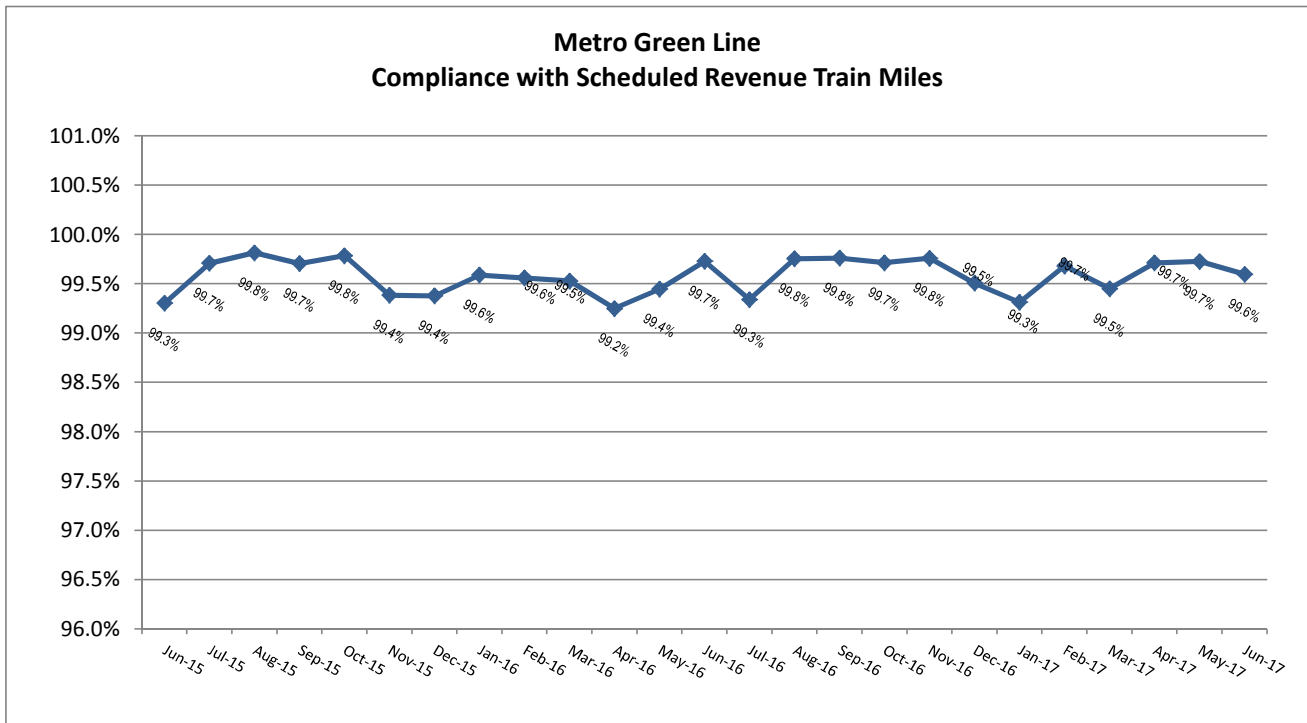


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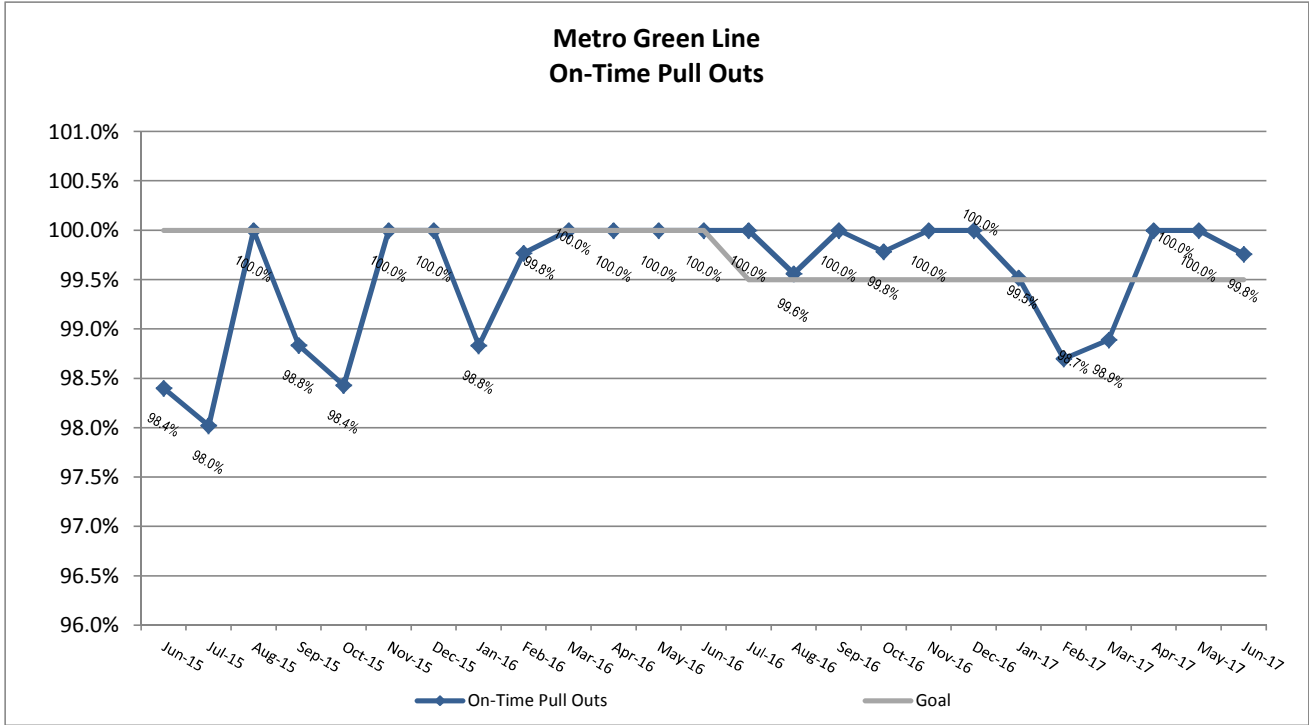
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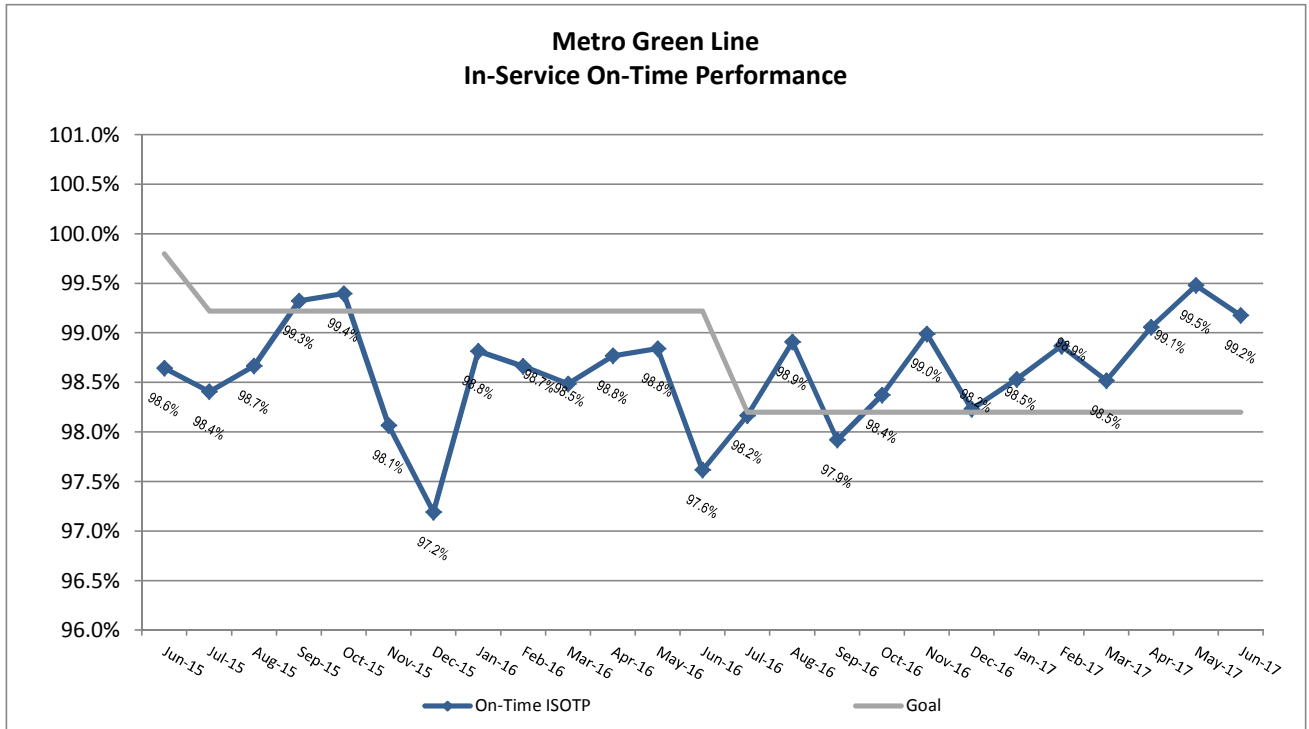
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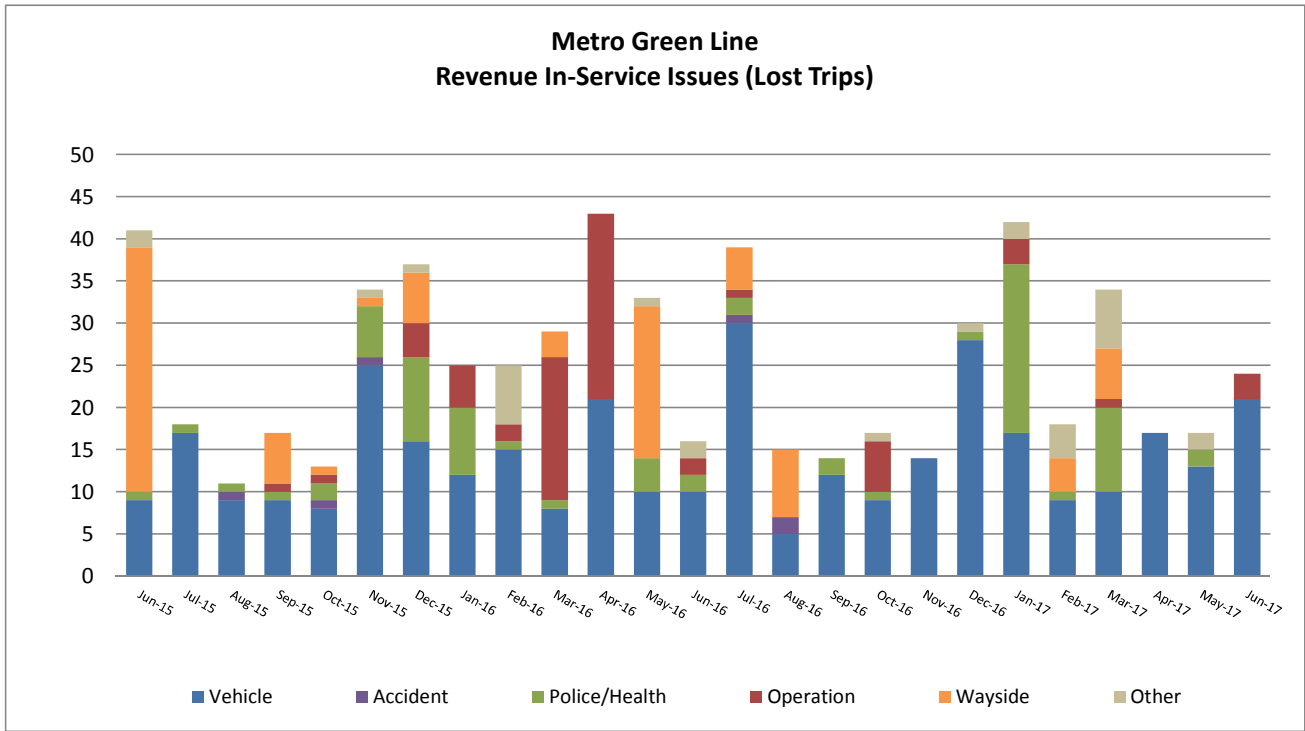
## ON-TIME PULL OUTS



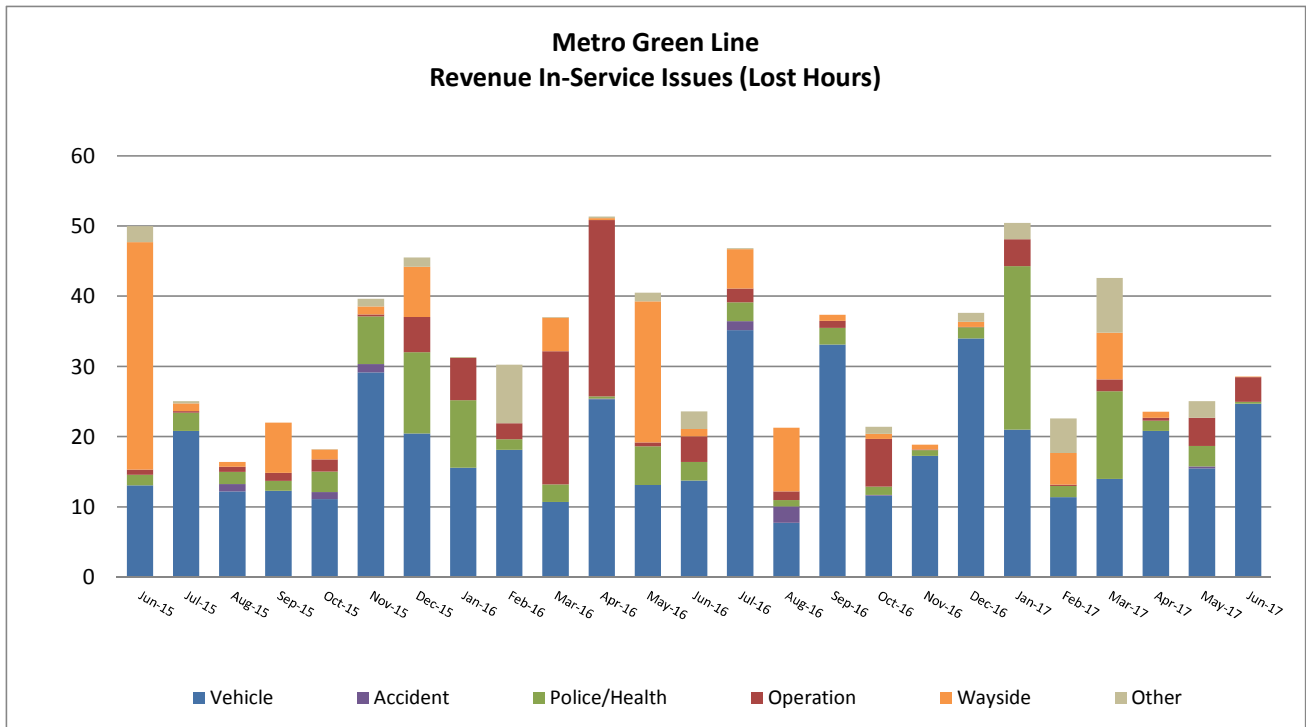
## IN-SERVICE ON-TIME PERFORMANCE



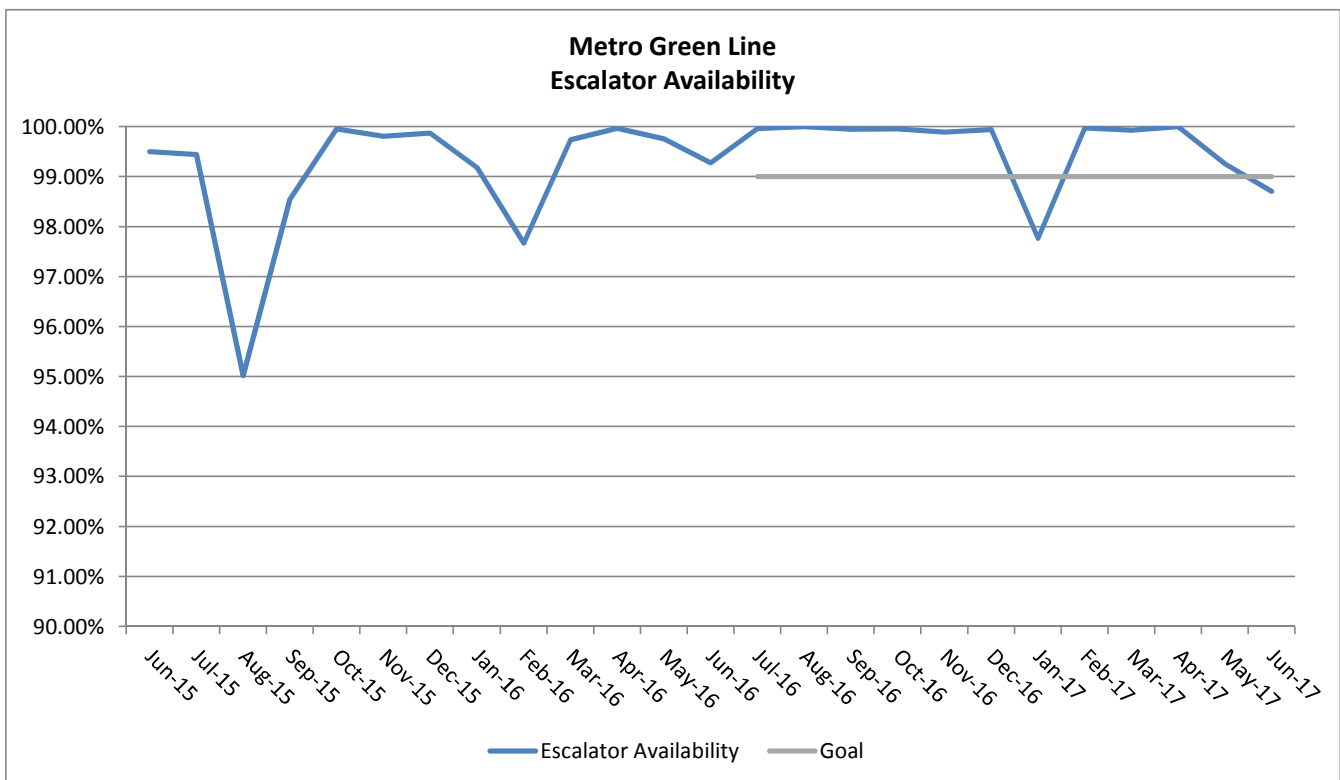
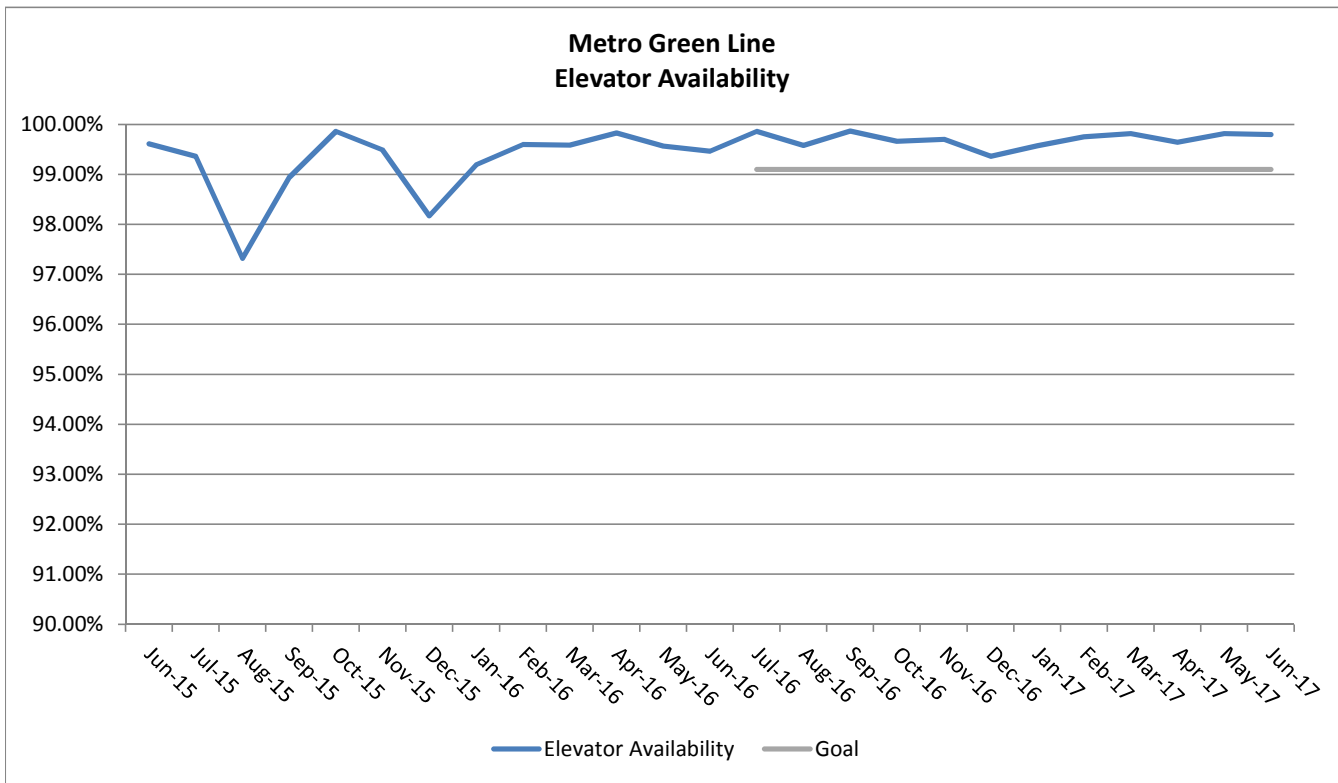
## LOST TRIPS



## LOST HOURS



## VERTICAL TRANSPORTATION AVAILABILITY



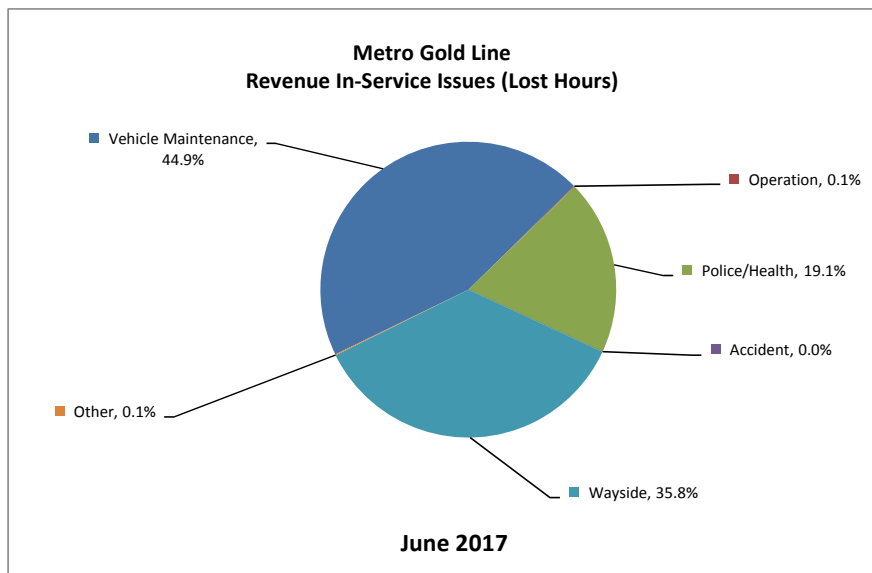
## GOLD LINE

Out of a total of 20,014 hours operated, there were approximately 213 total hours of service delays.

June 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	19,801	98.9%
Cancelled + Delayed Hours	213	1.1%
<b>Total Revenue Hours</b>	<b>20,014</b>	<b>100.0%</b>

Summary of the major contributors:	Count	Hours	Percent
Operations	1	0.2	0.1%
Accidents	0	0.0	0.0%
Vehicle Maintenance	20	95.6	44.9%
Wayside	4	76.3	35.8%
Police & Health	6	40.8	19.1%
Other	1	0.2	0.1%
<b>Total</b>	<b>32</b>	<b>213.1</b>	<b>100.0%</b>

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



**June 2017 Gold Line major delay contributors were as follows:**

**Operations Incidents:**

**6/14/2017 9:36:00 AM - Incident# 2876912 (0 lost trips, 12 lost minutes)**  
TP-176 with Hi rail vehicle conducting OCS inspection from 2s Pico Aliso to 2n Alameda

**Vehicle Maintenance Incidents:**

**6/1/2017 3:06:00 PM - Incident# 2872420 (1 lost trip, 239 lost minutes)**  
Urine on seat and floor (745A)720.  
Monrovia Station  
Train #406, T-163, track #1, northbound.

**6/1/2017 3:16:00 PM - Incident# 2872447 (0 lost trips, 5 lost minutes)**  
Propulsion fault 728,726(718).  
Lake Station  
Train #423, T-232, track #2, southbound.

**6/2/2017 4:37:00 PM - Incident# 2872920 (1 lost trip, 245 lost minutes)**  
Train 452 no movement/no power  
Track 2 south Duarte  
(701) 712

**6/6/2017 9:50:00 PM - Incident# 2874312 (1 lost trip, 240 lost minutes)**  
Car 726 HSCB tripped no movement.  
Train 402  
T-189  
Cars 726, 733  
Monrovia Station Track 1 NB.

**6/7/2017 1:43:00 PM - Incident# 2874559 (0 lost trips, 14 lost minutes)**  
Propulsion fault (1012A)1015.  
Union Station  
Train #454, T-232, track #1, northbound.

**6/12/2017 2:39:00 PM - Incident# 2876235 (2 lost trips, 479 lost minutes)**  
(703)-705  
ATP faults  
NB Lil Tokyo  
T-106  
Train 455

**6/13/2017 8:44:00 AM - Incident# 2876472 (8 lost trips, 1,968 lost minutes)**  
(1005)-1007-1058  
Friction brake fault/ No movement  
SB Ditman I/L  
Train 415  
T-480

**6/15/2017 7:14:00 PM - Incident# 2877596 (1 lost trip, 239 lost minutes)**  
Car 1013 has prop faults with speed restrcition.  
T-215  
Train-433  
Consist 1055(1013)  
Allen, Northbound, Track #1

**6/16/2017 5:05:00 AM - Incident# 2877661 (1 lost trip, 237 lost minutes)**  
Operator reports of no cab signal  
Train 417  
(717)718  
T-466  
Monrovia yard, trk. 1, northbound

**6/16/2017 2:40:00 PM - Incident# 2877907 (0 lost trips, 20 lost minutes)**

Aux power supply inverter failure.

Train 454

T-159

708 (702)

Union Station Southbound

**6/16/2017 5:35:00 PM - Incident# 2877962 (1 lost trip, 243 lost minutes)**

Smoking brakes

Train 423

T-228

Southbound Highland Park

730 (744) 738

**6/16/2017 7:24:00 PM - Incident# 2877997 (1 lost trip, 237 lost minutes)**

Smoking brakes

Train 408

T-451

Cars 728, (733)

SB, Heritage Square Station, Track 2

**6/19/2017 5:04:00 PM - Incident# 2878775 (1 lost trip, 244 lost minutes)**

PA not working 1008-1056-1055

Train 427

T-159

Northbound

Union Station

**6/20/2017 5:00:00 AM - Incident# 2878862 (0 lost trips, 12 lost minutes)**

Prop Fault with a speed restriction car 1006

Train 401

T-216

Tk 1 NB Chinatown

1006-1010

**6/21/2017 1:09:00 PM - Incident# 2879468 (1 lost trip, 244 lost minutes)**

IDU reading doors open (708B)-709

Train 454

T-151

Southbound

Maravilla

**6/22/2017 6:36:00 AM - Incident# 2879708 (2 lost trips, 488 lost minutes)**

No Movement train shows doors open but they are closed on car 746

Train 453

T-92

Tk 2 SB Arcadia

746-709

**6/22/2017 4:45:00 PM - Incident# 2880028 (1 lost trip, 256 lost minutes)**

Door closed indicator lamp dark. No movement

Train 406

T-88

Track 2 south at Highland Park

(740) 709

**6/25/2017 6:33:00 AM - Incident# 2880667 (1 lost trip, 301 lost minutes)**

Operator reports of propulsion fault with a speed restriction

Train 404

T-128

(728)739-733

Allen station, Trk. 1, northbound

**6/27/2017 11:04:00 AM - Incident# 2881451 (0 lost trips, 16 lost minutes)**

no movement with friction brake fault (736A)-719

Train 403

T-39

Northbound

Indiana Station

**6/28/2017 6:16:00 PM - Incident# 2882072 (0 lost trips, 10 lost minutes)**

T-92 operating Train 452 reports multiple door faults at Chinatown and train has no movement. Track 1,

Northbound.

**Wayside Incidents:**

**6/2/2017 7:42:00 AM - Incident# 2872715 (5 lost trips, 1,169 lost minutes)**

ETS activation at Lorena resulting in de-energized tracks.

DWP reports power glitch affecting the area.

**6/9/2017 2:35:00 PM - Incident# 2875377 (8 lost trips, 1,923 lost minutes)**

Monrovia Yard TPSS, A04 opened/locked out and B02 opened, Yrad deenergized.

**6/27/2017 4:48:00 AM - Incident# 2881282 (4 lost trips, 988 lost minutes)**

False occupancy inside Citrus interlocking track 1.

**6/30/2017 4:52:00 AM - Incident# 2882643 (2 lost trips, 497 lost minutes)**

ARINC SYSTEM indicates a false occupancy on track 1, Memorial Station and track 2 Lake station.

This in turn caused Train 403 to encounter a no movement

**Police & Health Incidents:**

**6/7/2017 5:58:00 PM - Incident# 2874647 (0 lost trips, 4 lost minutes)**

LASD requests no train movement due to Pasadena Police on the right of way.

Memorial Park Station

**6/15/2017 9:39:00 PM - Incident# 2877618 (10 lost trips, 2,394 lost minutes)**

Blockade tracks 1 and 2 at California crossing.

**6/20/2017 8:55:00 AM - Incident# 2878954 (0 lost trips, 12 lost minutes)**

Physical altercation car 1012-(1059)

Train 407

T-28

Southbound

Highland

**6/21/2017 6:47:00 PM - Incident# 2879622 (0 lost trips, 15 lost minutes)**

LASD Payne called ROC requesting to hold trains at Indiana Station northbound and Soto Southbound. Reports of a male trespassing on the tracks while holding a knife north of Indiana station.

**6/22/2017 7:39:00 PM - Incident# 2880067 (0 lost trips, 15 lost minutes)**

Patron at Little Tokyo Station platform claim injury while boarding the southbound train.

**6/29/2017 12:15:00 AM - Incident# 2882133 (0 lost trips, 6 lost minutes)**

T-192 operating train 422 (732, 740) reports male patron laying down on the train floor at Arcadia Station, Track 1, Northbound.

**Other Incidents:**

**6/30/2017 2:38:00 PM - Incident# 2882869 (0 lost trips, 12 lost minutes)**

Roll-Out

Yard Controoler R-080

Train #424

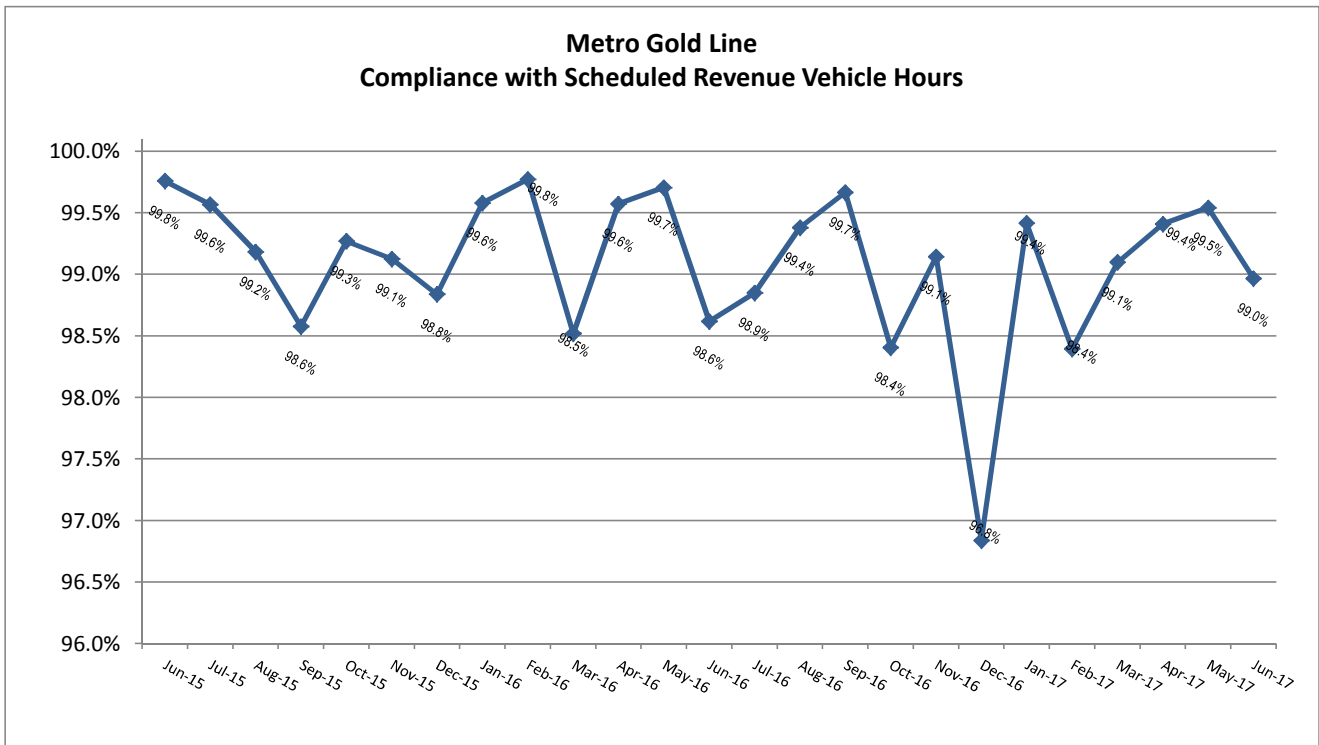
T-146

Monrovia Yard.

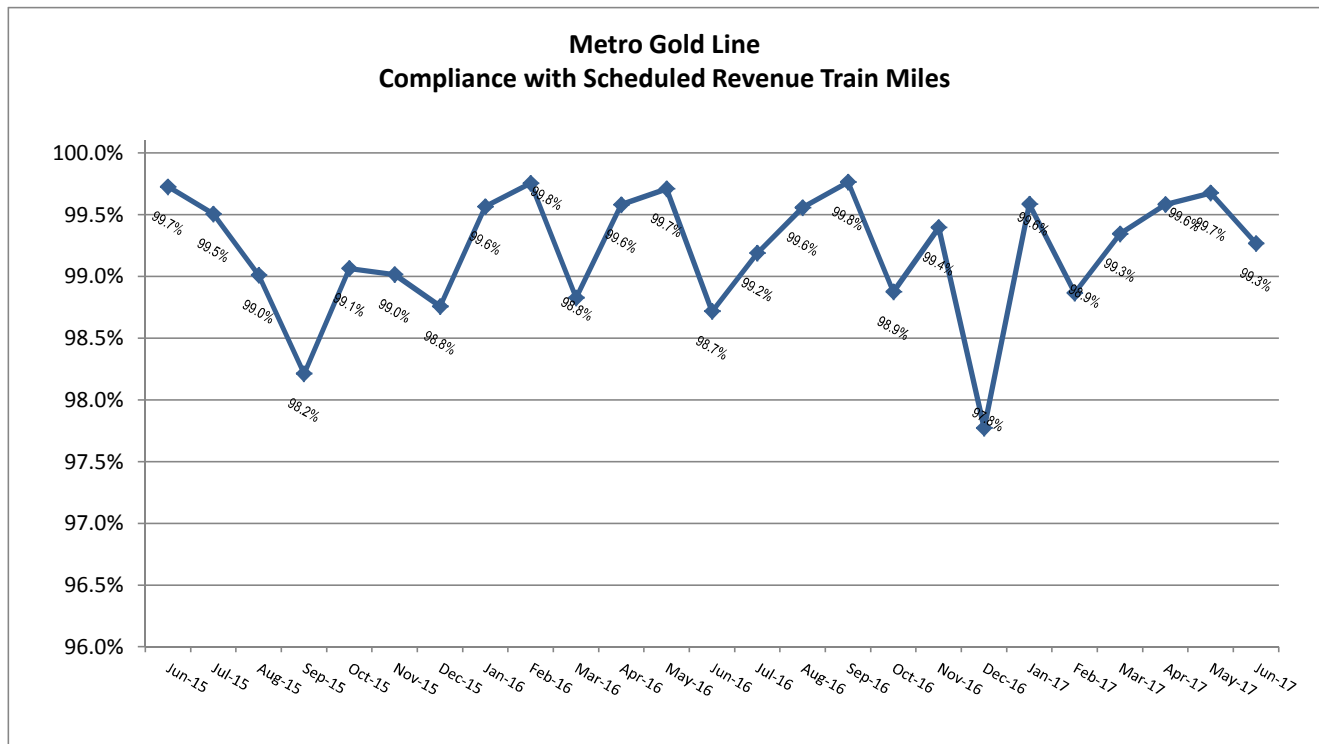


# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

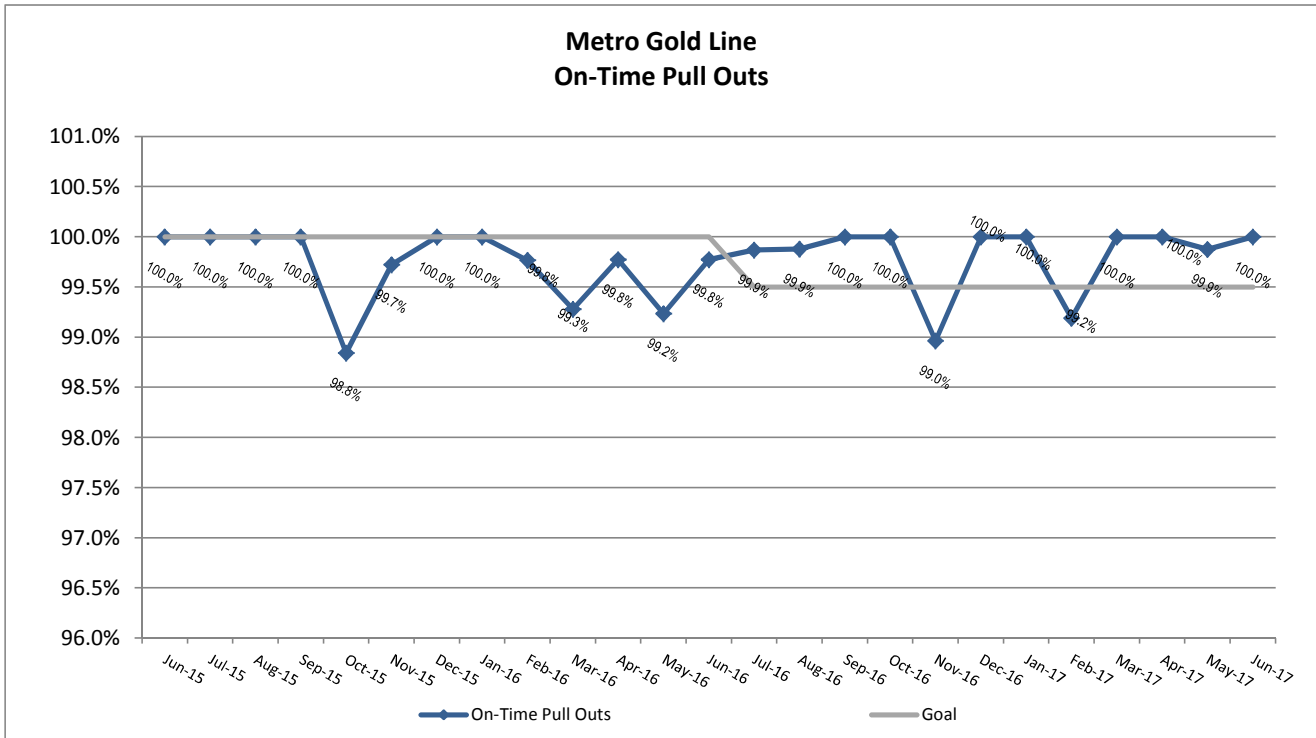
## COMPLIANCE WITH SCHEDULED VEHICLE HOURS



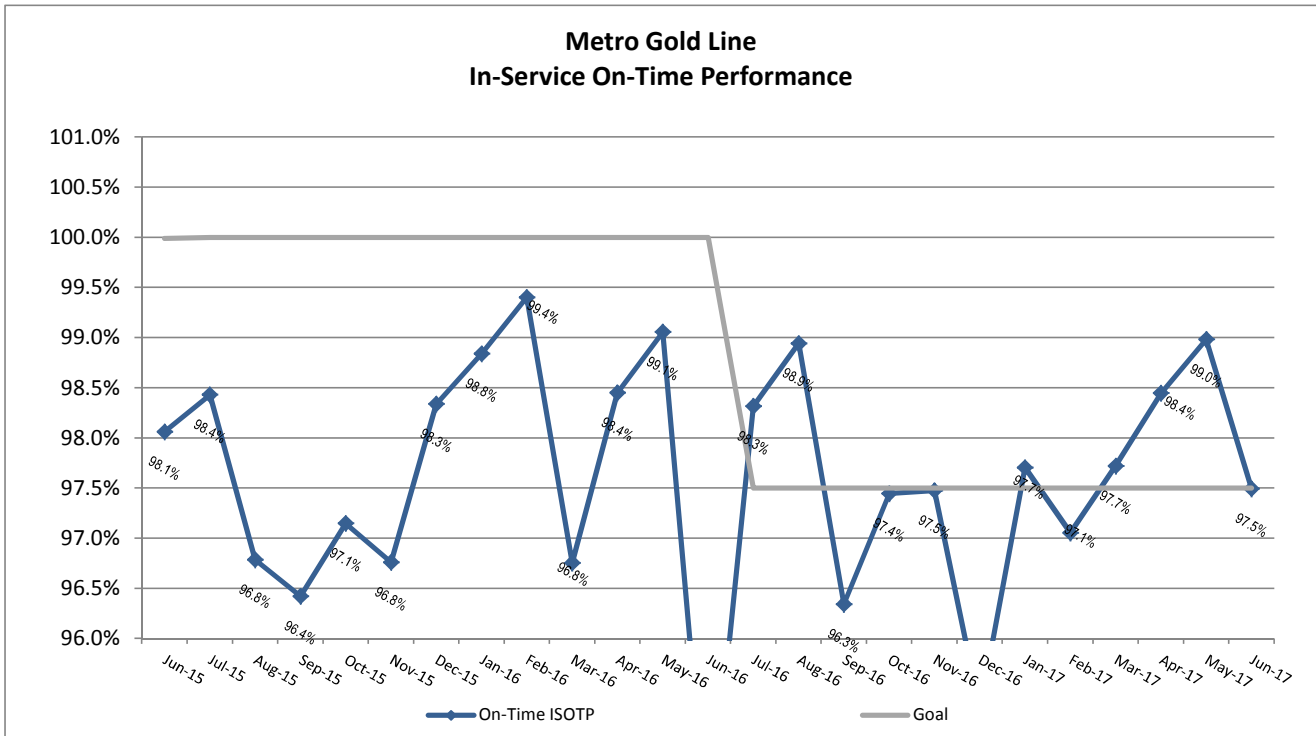
## COMPLIANCE WITH SCHEDULED TRAIN MILES



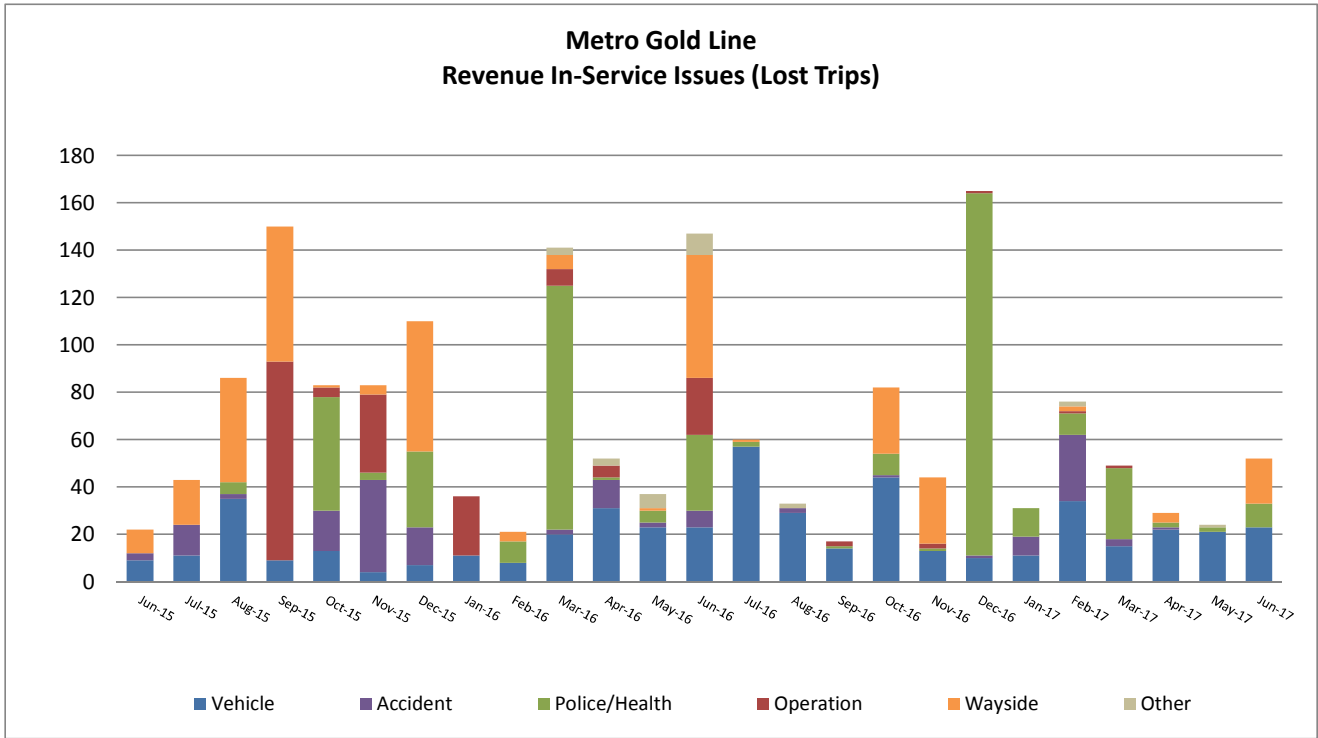
## ON-TIME PULL OUTS



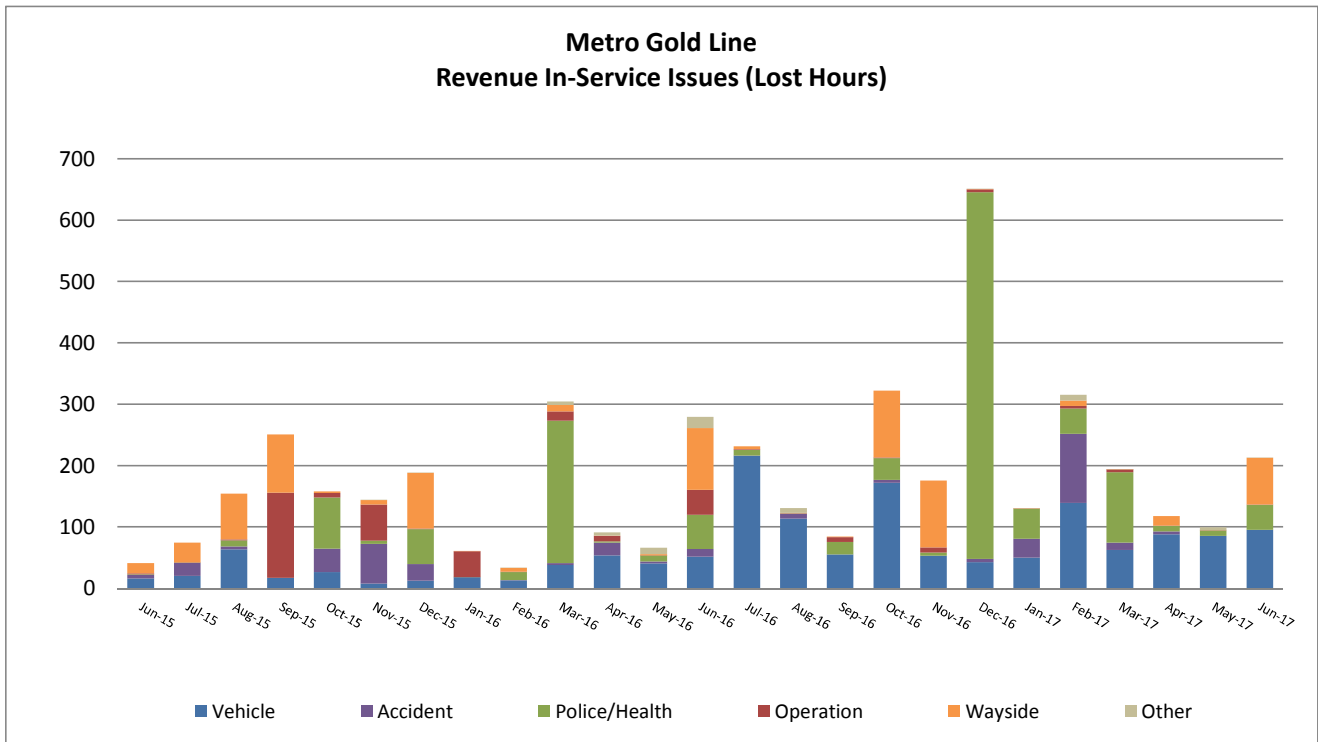
## IN-SERVICE ON-TIME PERFORMANCE



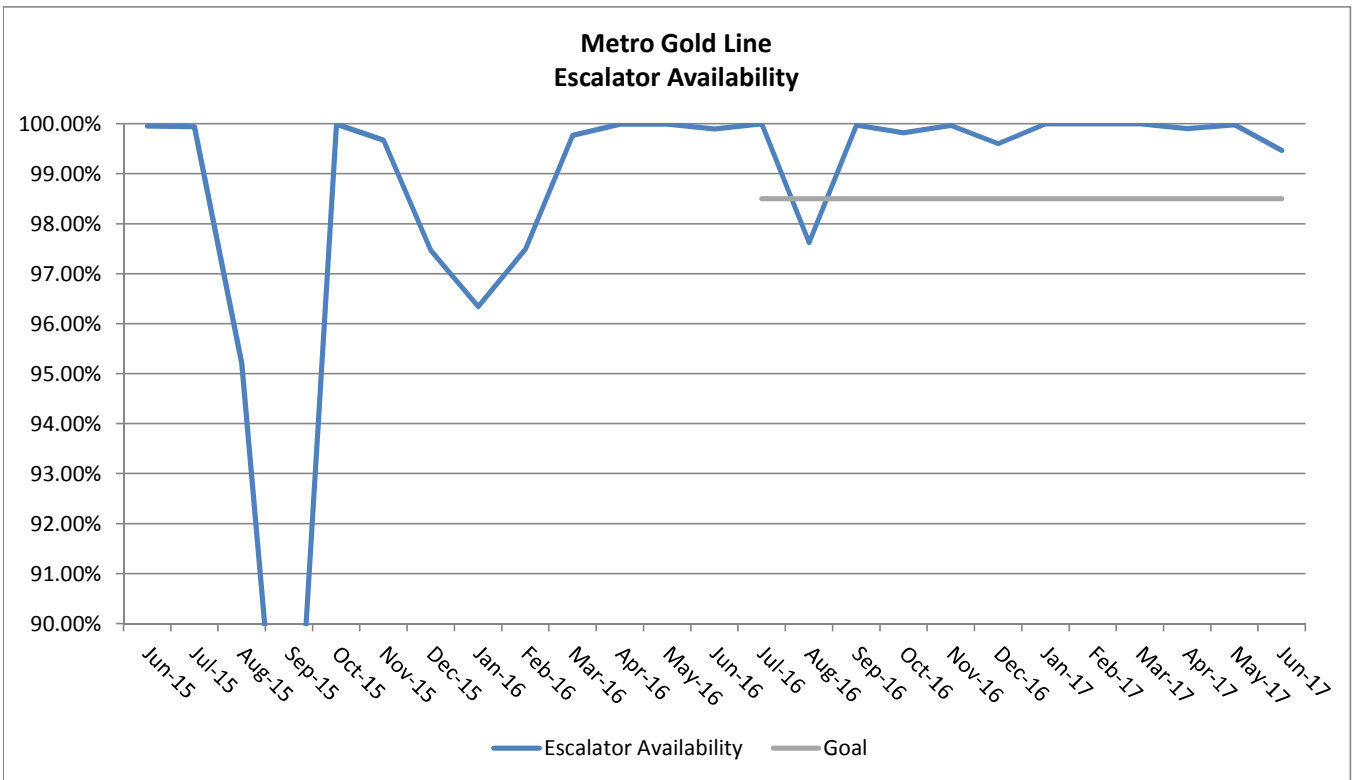
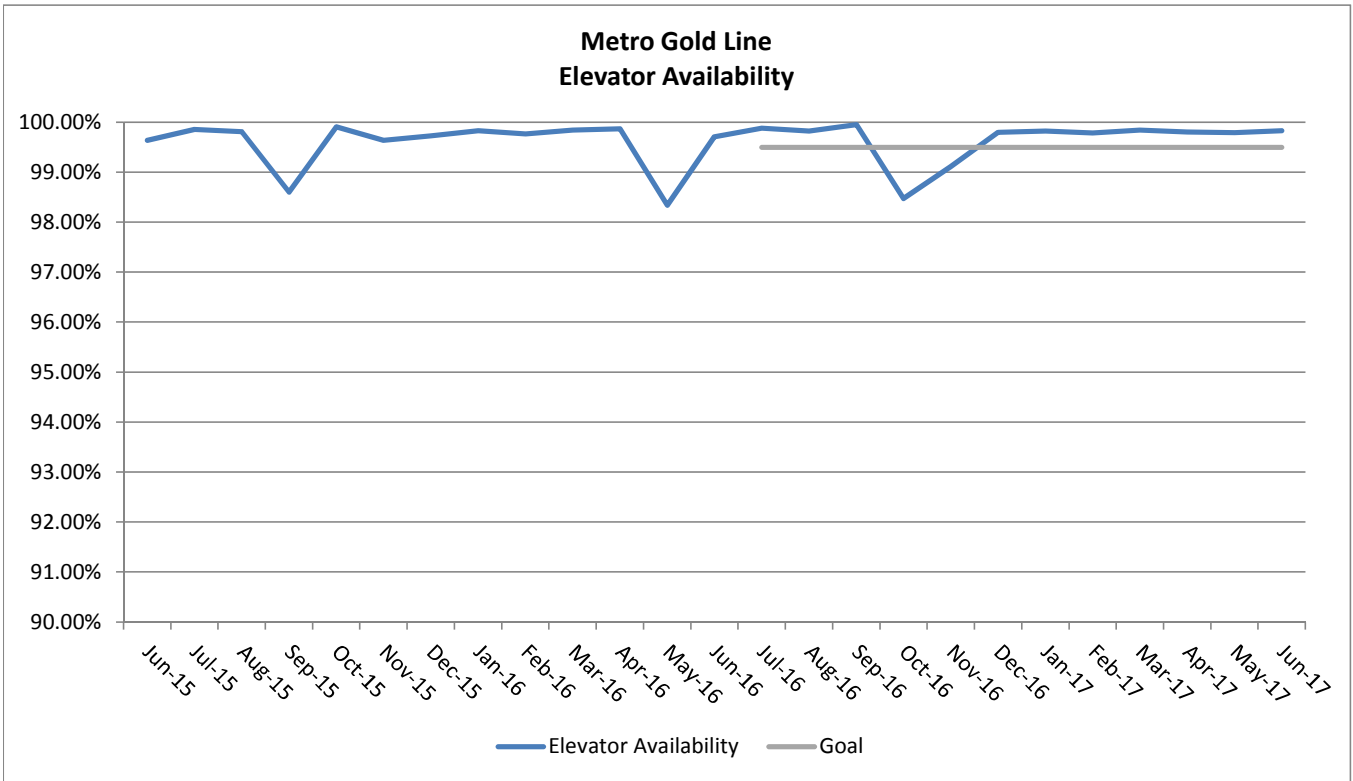
## LOST TRIPS



## LOST HOURS



## VERTICAL TRANSPORTATION AVAILABILITY



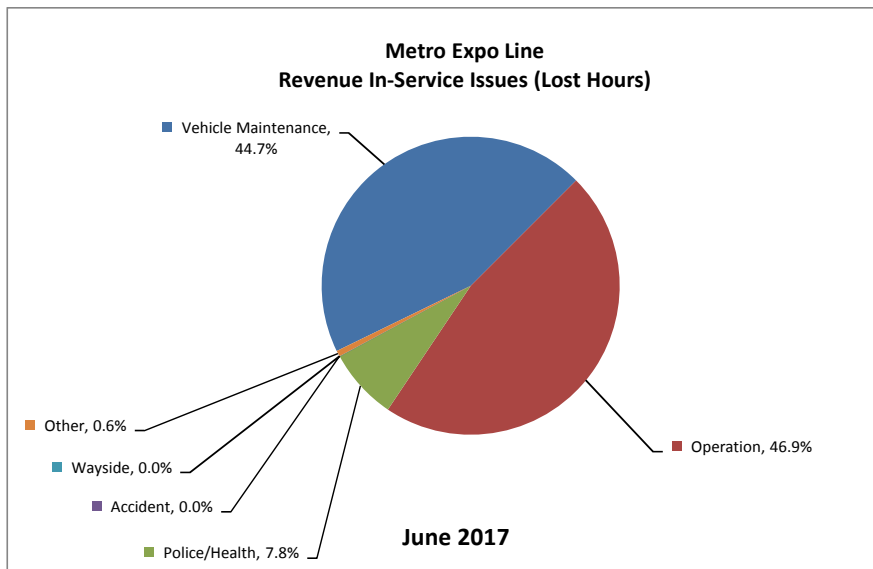
## EXPO LINE

Out of a total of 19,012 hours operated, there were approximately 32 total hours of service delays.

June 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	18,980	99.8%
Cancelled + Delayed Hours	32	0.2%
<b>Total Revenue Hours</b>	<b>19,012</b>	<b>100.0%</b>

Summary of the major contributors:	Count	Hours	Percent
Operations	4	14.9	46.9%
Accidents	0	0.0	0.0%
Vehicle Maintenance	13	14.2	44.7%
Wayside	0	0.0	0.0%
Police & Health	2	2.5	7.8%
Other	1	0.2	0.6%
<b>Total</b>	<b>20</b>	<b>31.8</b>	<b>100.0%</b>

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



## June 2017 Expo Line major delay contributors were as follows:

### Operations Incidents:

**6/12/2017 11:47:00 PM - Incident# 2876312 (0 lost trips, 20 lost minutes)**  
Train delays due to extended single tracking area

**6/15/2017 3:20:00 PM - Incident# 2877498 (6 lost trips, 719 lost minutes)**  
Train Delay ( refer to M3#2,877,510 )  
Train #111  
T-037  
Venice interlocking, Track #001, Southbound

**6/19/2017 12:52:00 PM - Incident# 2878674 (0 lost trips, 15 lost minutes)**  
Due to a 10-73 at Grand & Washington Expo trains are departing 15 minutes late southbound from Metro Center.

**6/30/2017 5:37:00 AM - Incident# 2882683 (1 lost trip, 141 lost minutes)**  
Rule violation #4061 Attentiveness and #4065 Pre-departure inspection.

### Vehicle Maintenance Incidents:

**6/3/2017 9:24:00 AM - Incident# 2873084 (0 lost trips, 7 lost minutes)**  
Propulsion / Dynamic Brakes, cars #(236)-238-249  
Train #604  
T-089  
7th and Metro Station, Track #002, Southbound.

**6/4/2017 5:39:00 AM - Incident# 2873246 (0 lost trips, 8 lost minutes)**  
Train operator reports a reoccurring fault on the train.  
Train 604, T-417  
(132A)-131-146  
Track 4, Bundy, South

**6/5/2017 8:43:00 AM - Incident# 2873547 (1 lost trip, 137 lost minutes)**  
No Movement.  
Train #617.  
T-214.  
LRV- (1042A), 1043.  
Hauser Grade Crossing, Track #3, Northbound.

**6/6/2017 4:33:00 PM - Incident# 2874243 (0 lost trips, 10 lost minutes)**  
Door problem  
Train 626  
T-509  
(1033),1025  
Pico Station, TK4, South Bound

**6/6/2017 5:31:00 PM - Incident# 2874263 (0 lost trips, 8 lost minutes)**  
Propulsion Dynamic brake fault that caused no movement.  
Train 621  
T-204  
(1032A),1031  
Pico Blvd. TK2 South Bound

**6/8/2017 5:48:00 PM - Incident# 2875063 (0 lost trips, 6 lost minutes)**  
Propulsion / Dynamic Brakes, cars #(1039)-1060-1036  
Train #604  
T-510  
Palms Statyion, Track #003, Northbound.

**6/10/2017 2:07:00 PM - Incident# 2875655 (0 lost trips, 2 lost minutes)**  
Doors cut out  
Train 606  
Cars (152A), 114,125  
, M-326  
Santa Monica Station, TK3, North Bound

**6/19/2017 4:24:00 PM - Incident# 2878743 (0 lost trips, 3 lost minutes)**

Train 121 reports Propulsion Faults that will not clear.

Train 621

T-459

LRV'S ( 142 ) 133

Santa Monica, track 4, northbound.

**6/20/2017 4:15:00 PM - Incident# 2879139 (1 lost trip, 118 lost minutes)**

Train-624

T-268

Cars (1054B)-1022

Southbound, Track #4

23rd Street Station

No Fault - No Movement unknown car.

**6/22/2017 4:43:00 AM - Incident# 2879667 (2 lost trips, 246 lost minutes)**

Low Air pressure/Doors

Train 606

T-463

(1047)-1060

Trk 3 La ceinega

-12 min.

**6/27/2017 6:30:00 PM - Incident# 2881624 (0 lost trips, 7 lost minutes)**

Friction Brakes/Prop Fault

Train 651

T-369

(1054)-1022-1033

Track 4 S/B at 23rd St. Station

**6/29/2017 1:59:00 PM - Incident# 2882469 (2 lost trips, 282 lost minutes)**

Train-602

T-180

Cars (100B)-148-122

Northbound, Track #3

Palms Station

Propulsion / Dynamic Brakes. Operator reported smell of burning brakes aboard car 100B.

**6/29/2017 7:17:00 PM - Incident# 2882575 (0 lost trips, 20 lost minutes)**

Operator T-126 reports of no movement.

Train 666

T-126

Cars 1024-1032-1023

Pico Station, Track 1, Northbound

**Police & Health Incidents:**

**6/29/2017 1:53:00 AM - Incident# 2882151 (1 lost trip, 141 lost minutes)**

Sick patron

T-525

(1021)

Western Station trk 4 S/B

**6/30/2017 8:54:00 PM - Incident# 2883008 (0 lost trips, 7 lost minutes)**

Sick Individual

Train 671

T-265

Cars (1048)-1028-1027

Sepulveda station track 4 South

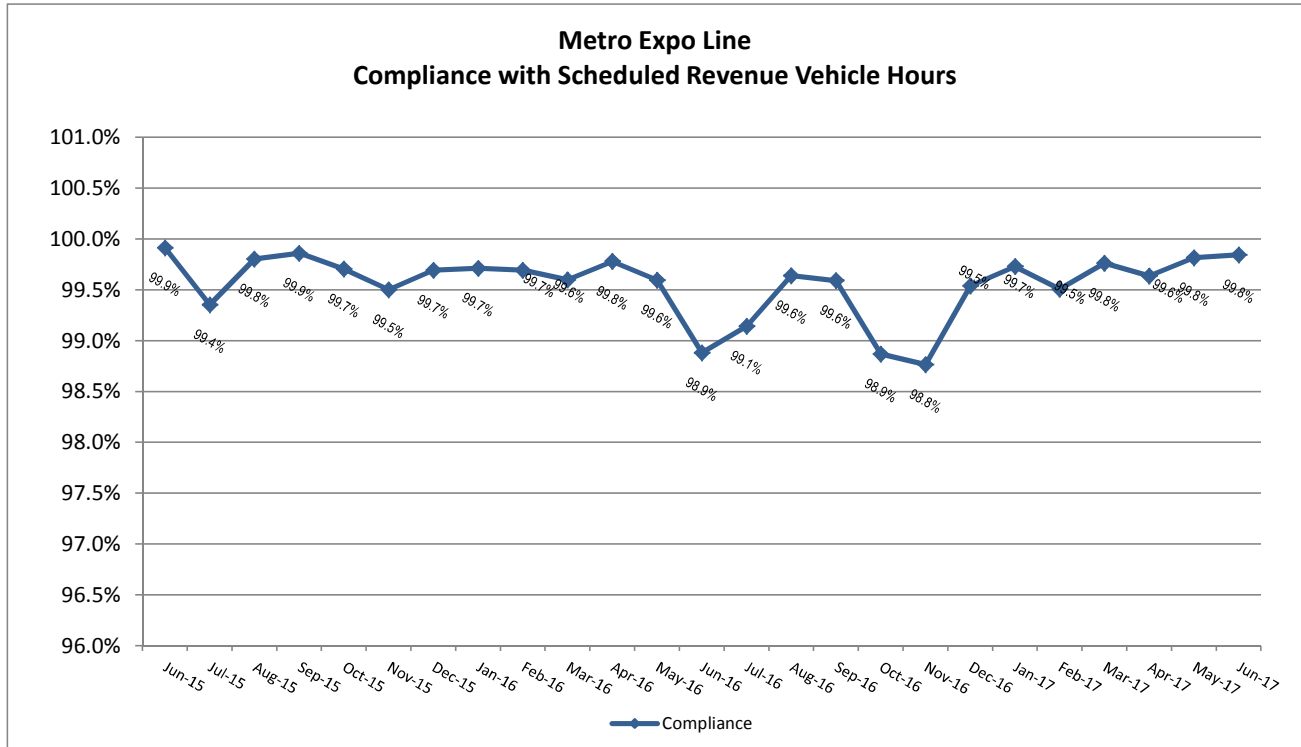
**Other Incidents:**

**6/13/2017 10:50:00 PM - Incident# 2876729 (0 lost trips, 12 lost minutes)**

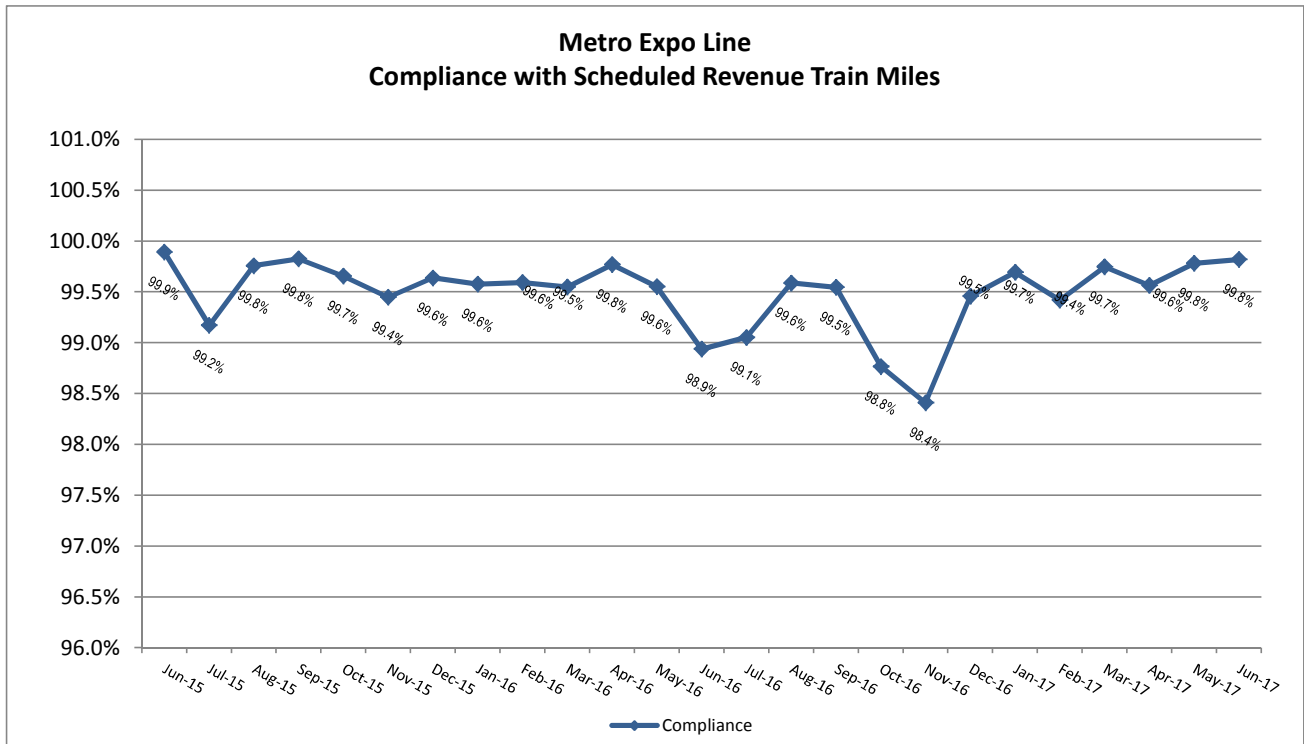
Emergency: Patron Injured at Western station.

# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

## COMPLIANCE WITH SCHEDULED VEHICLE HOURS

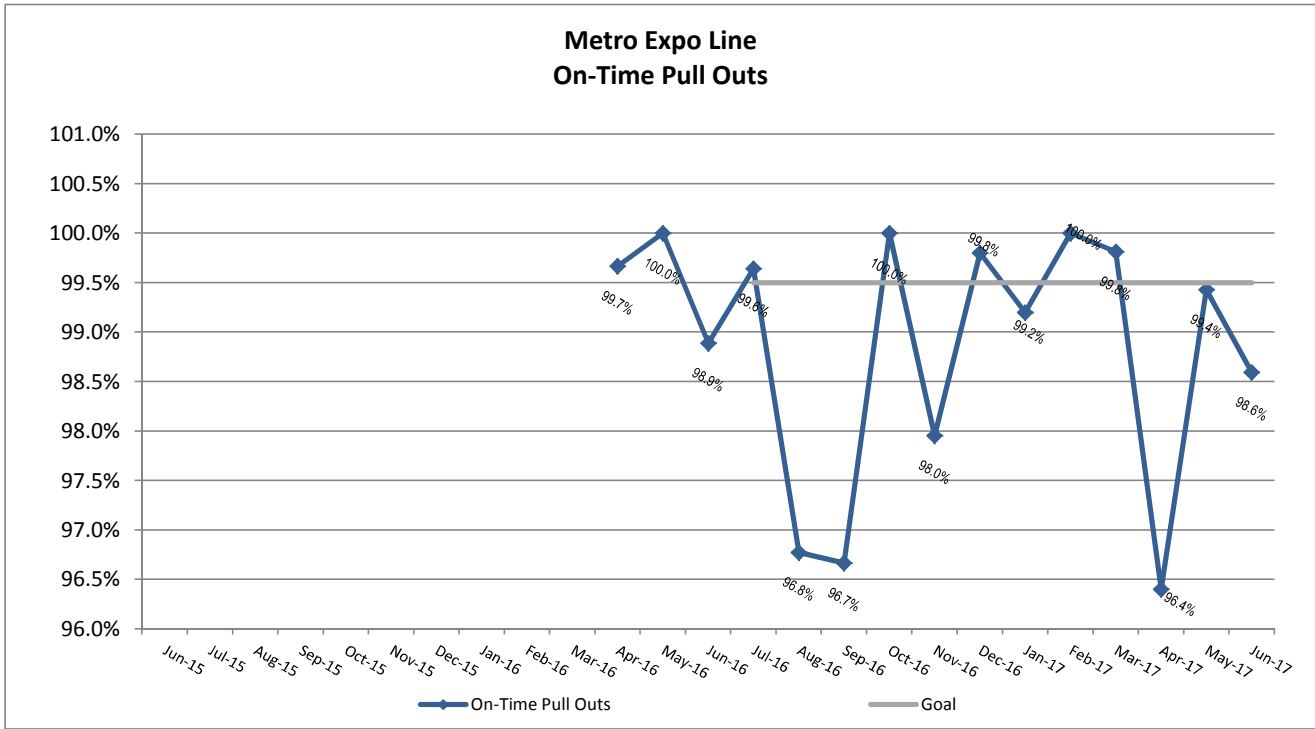


## COMPLIANCE WITH SCHEDULED TRAIN MILES

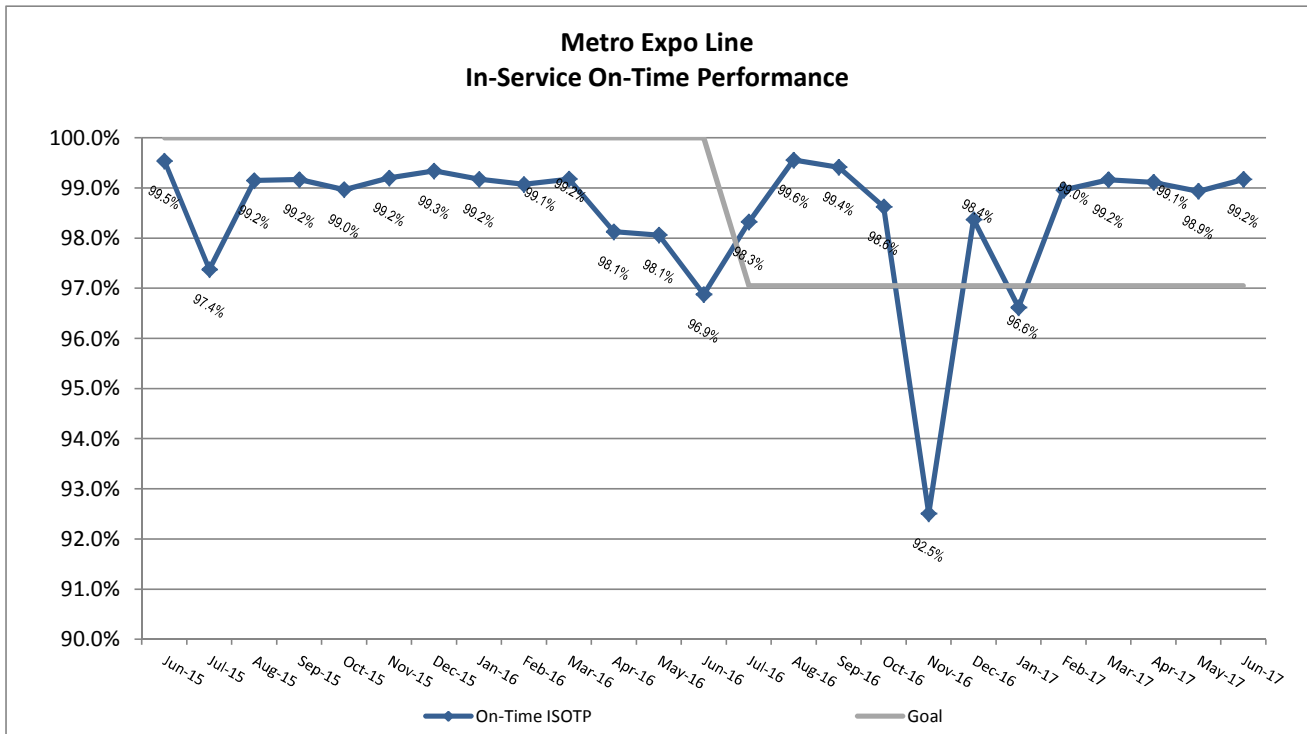




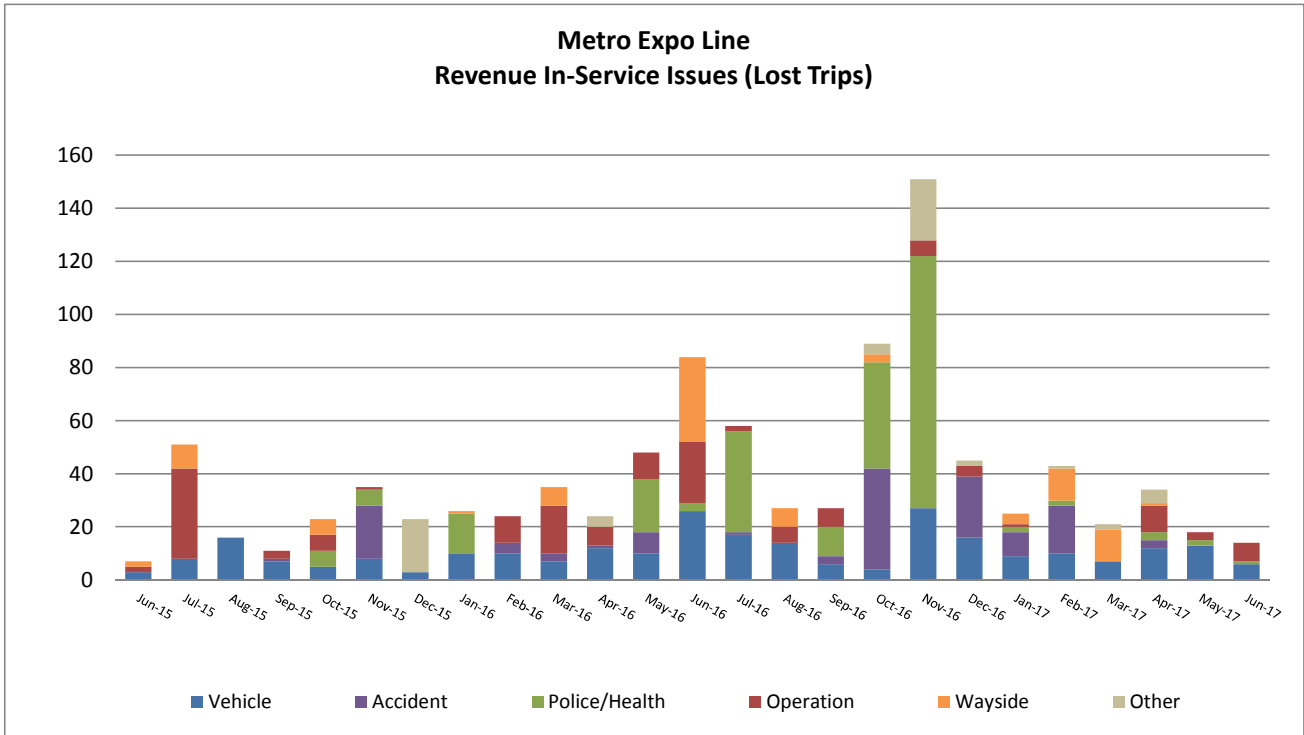
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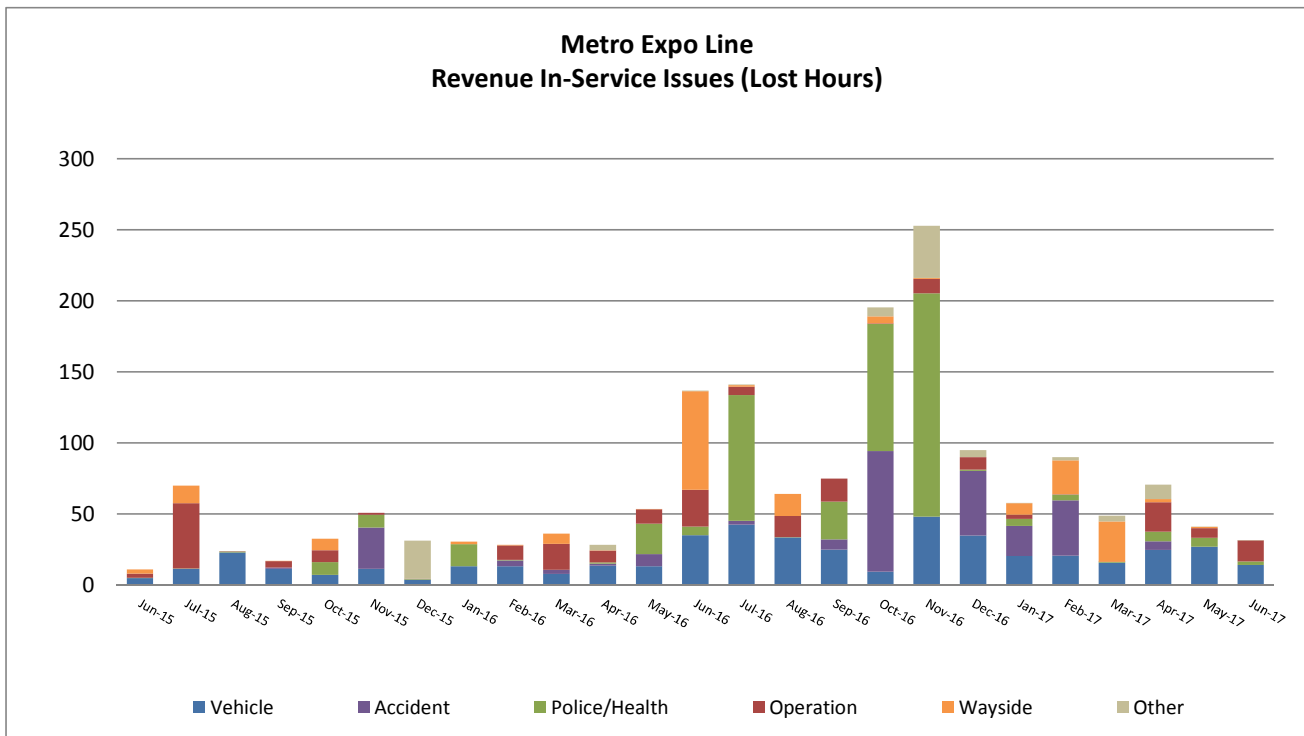
## IN-SERVICE ON-TIME PERFORMANCE



## LOST TRIPS



## LOST HOURS



## VERTICAL TRANSPORTATION AVAILABILITY

