

Los Angeles County  
Metropolitan Transportation Authority  
California

# OPERATIONS MONTHLY RAIL PERFORMANCE REPORT

JULY 2017



**M**  
Metro

# METRO RAIL PERFORMANCE – JULY 2017

<b>Contents</b>	<b>Page</b>
<b>Systemwide Performance</b>	
Rail Scorecard	3
Rail Mean Miles Between Major Failure by Vehicle Type	5
Fleet Distribution Report	10
Vehicle Availability by Division	11
Cleanliness	12
Lost Revenue Vehicle Hours by Category, by Division	13
Rail Service Performance	16
Workers Comp Claims	21
Lost Work Days	22
Vertical Transportation - Systemwide	23
<b>Blue Line Performance</b>	
Performance Summary	24
Major Incident Detail	25
Performance Charts	33
<b>Red / Purple Line Performance</b>	
Performance Summary	37
Major Incident Detail	38
Performance Charts	
<b>Green Line Performance</b>	
Performance Summary	45
Major Incident Detail	46
Performance Charts	47
<b>Gold Line Performance</b>	
Performance Summary	53
Major Incident Detail	54
Performance Charts	57
<b>Expo Line Performance</b>	
Performance Summary	61
Major Incident Detail	62
Performance Charts	64

## 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 2015	FY 2016	FY 2017	FY 2018 Target	FY 2018 YTD	FYTD Status	May Month	Jun Month	Jul Month
<b>Systemwide</b>									
On-Time Pullouts	99.67%	99.63%	99.61%	99.50%	99.77%	●	99.83%	99.42%	99.77%
Mean Miles Between Chargeable Mechanical Failures	34,524	30,482	29,711	32,550	29,212	●	35,775	30,999	29,212
In-Service On-time Performance	98.39%	98.10%	98.24%	98.99%	98.78%	●	98.89%	98.57%	98.78%
Service Delivery Ratio	99.35%	99.22%	99.23%	99.00%	99.29%	●	99.55%	99.37%	99.29%
Traffic Accidents Per 100,000 Train Miles	1.18	1.17	1.01	1.01	0.80	N/A	0.39	0.95	0.80
CPUC Reportable Accidents per 100,000 Train Miles	0.43	0.60	0.36	0.37	0.40	●	0.13	0.27	0.40
Passenger Accidents per 100,000 Boardings	0.013	0.016	0.023	0.010	0.032	●	0.021	0.010	0.032
Complaints per 100,000 Boardings	0.78	1.43	1.98	1.10	1.56	●	1.95	1.76	1.56
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours <sup>1,2</sup>	11.11	10.97	12.27	10.42	14.19	●	13.43	5.89	14.19
Lost Work Days per 200,000 Exposure Hours <sup>1,2</sup>	880	482	733	450.00	0	●	665	927	-
OSHA Injuries per 200,000 Exposure Hours <sup>1,2</sup>	6.68	6.32	8.53	6.00	0.00	●	7.67	3.92	-
<b>Wayside</b>									
Overdue Work Orders (Non-PMP) - Aging of Outstanding Work Orders	121	544	1,921	N/A	888	N/A	304	485	888
Past-Due Preventive Maintenance - Aging of Outstanding Work Orders	1	20	266	N/A	117	N/A	40	76	117
% of Completed Inspections	99.51%	99.57%	99.72%	N/A	100.00%	N/A	100.00%	100.00%	100.00%
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	9.07	4.77	5.35	4.53	12.76	●	8.09	12.17	12.76
Lost Work Days per 200,000 Exposure Hours <sup>1</sup>	309	148	194	138	-	●	295	373	0
OSHA Injuries per 200,000 Exposure Hours <sup>1</sup>	8.28	4.40	4.01	4.18	0.00	●	4.05	4.06	0
<b>Blue Line</b>									
On-Time Pullouts	99.41%	99.59%	99.60%	99.50%	99.26%	●	99.86%	98.99%	99.26%
Mean Miles Between Chargeable Mechanical Failures	23,716	19,240	15,405	22,825	12,132	●	17,208	13,927	12,132
In-Service On-time Performance	97.28%	96.10%	96.44%	98.80%	97.18%	●	97.17%	97.41%	97.18%
Service Delivery Ratio	98.88%	98.41%	98.54%	99.00%	98.21%	●	98.96%	98.77%	98.21%
Traffic Accidents Per 100,000 Train Miles	2.48	2.38	2.18	2.18	0.64	N/A	0.65	3.88	0.64
CPUC Reportable Accidents per 100,000 Train Miles	0.89	1.39	0.71	0.40	0.64	●	0.00	0.65	0.64
Passenger Accidents per 100,000 Boardings	0.034	0.016	0.046	0.010	0.056	●	0.055	0.000	0.056
Complaints per 100,000 Boardings	0.90	1.33	1.67	1.07	1.51	●	1.65	1.38	1.51
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	15.10	15.08	16.74	10.42	27.05	●	10.57	5.46	27.05
Lost Work Days per 200,000 Exposure Hours <sup>1</sup>	1,622	797	836	450	-	-	796	918	-
OSHA Injuries per 200,000 Exposure Hours <sup>1</sup>	10.64	6.79	10.40	6.00	-	-	10.57	0.00	-

<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 2015	FY 2016	FY 2017	FY 2018 Target	FY 2018 YTD	FYTD Status	May Month	Jun Month	Jul Month
<b>Red Line</b>									
On-Time Pullouts	99.91%	99.79%	99.95%	99.50%	100.00%	●	100.00%	99.59%	100.00%
Mean Miles Between Chargeable Mechanical	85,090	94,312	104,637	131,376	85,664	●	76,706	83,340	85,664
In-Service On-time Performance	99.13%	99.45%	99.39%	99.50%	99.45%	●	99.60%	99.29%	99.45%
Service Delivery Ratio	99.60%	99.71%	99.72%	100.00%	99.65%	●	99.77%	99.75%	99.65%
Traffic Accidents Per 100,000 Train Miles	0.47	0.75	0.57	0.57	0.85	N/A	0.00	0.00	0.85
CPUC Reportable Accidents per 100,000 Train Miles	0.07	0.07	0.14	0.21	0.00	●	0.00	0.00	0.00
Passenger Accidents per 100,000 Boardings	0.002	0.002	0.004	0.000	0.000	●	0.000	0.000	0.000
Complaints per 100,000 Boardings	0.54	0.57	1.19	0.55	1.22	●	1.43	1.50	1.22
New Workers' Compensation Indemnity Claims per	6.20	16.43	12.68	10.42	0.00	●	16.04	0.00	0.00
*Lost Work Days per 200,000 Exposure Hours	649	526	992	450	-	-	835	1,131	-
*OSHA Injuries per 200,000 Exposure Hours	3.54	7.99	7.52	6.00	-	-	5.35	0.00	-

<b>Green Line</b>									
On-Time Pullouts	99.32%	99.49%	99.69%	99.50%	100.00%	●	100.00%	99.76%	100.00%
Mean Miles Between Chargeable Mechanical Failures	21,054	19,238	16,375	23,220	37,988	●	21,450	18,864	37,988
In-Service On-time Performance	97.39%	98.52%	98.69%	98.80%	99.50%	●	99.48%	99.18%	99.50%
Service Delivery Ratio	99.50%	99.59%	99.61%	99.00%	99.78%	●	99.70%	99.65%	99.78%
Traffic Accidents Per 100,000 Train Miles	0.21	0.42	0.48	0.48	0.82	N/A	0.79	0.00	0.82
CPUC Reportable Accidents per 100,000 Train Miles	0.07	0.07	0.07	0.40	0.00	●	0.00	0.83	0.00
Passenger Accidents per 100,000 Boardings	0.024	0.034	0.048	0.010	0.000	●	0.000	0.123	0.000
Complaints per 100,000 Boardings	0.88	1.53	2.08	1.27	1.25	●	1.69	1.72	1.25
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	7.32	7.18	9.14	10.42	9.95	●	0.00	19.36	9.95
*Lost Work Days per 200,000 Exposure Hours	479	228	712	450	-	-	609	1,128	-
*OSHA Injuries per 200,000 Exposure Hours	4.07	3.19	6.65	6.00	-	-	0.00	29.04	-

<b>Gold Line</b>									
On-Time Pullouts	99.98%	99.68%	99.82%	99.50%	100.00%	●	99.88%	100.00%	100.00%
Mean Miles Between Chargeable Mechanical Failures	44,171	40,426	38,427	60,252	33,561	●	60,292	42,176	33,561
In-Service On-time Performance	98.56%	97.60%	97.61%	98.80%	98.70%	●	98.98%	97.49%	98.70%
Service Delivery Ratio	99.34%	99.11%	98.88%	99.00%	99.27%	●	99.52%	98.94%	99.27%
Traffic Accidents Per 100,000 Train Miles	1.14	0.99	0.61	0.61	0.44	N/A	0.42	0.44	0.44
CPUC Reportable Accidents per 100,000 Train Miles	0.30	0.60	0.25	0.40	0.00	●	0.42	0.00	0.00
Passenger Accidents per 100,000 Boardings	0.007	0.039	0.030	0.010	0.143	●	0.071	0.000	0.143
Complaints per 100,000 Boardings	1.01	2.73	2.78	2.22	1.79	●	3.47	2.18	1.79
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	15.96	11.87	14.31	10.42	17.37	●	21.73	0.00	17.37
*Lost Work Days per 200,000 Exposure Hours	1,068	766	1,055	450	-	●	564	985	-
*OSHA Injuries per 200,000 Exposure Hours	3.83	9.29	9.69	6.00	-	●	16.30	0.00	-

<b>Expo Line</b>									
On-Time Pullouts	-	99.53%	98.76%	99.50%	99.70%	●	99.43%	98.59%	99.70%
Mean Miles Between Chargeable Mechanical Failures	-	18,114	33,402	22,825	36,414	●	47,150	64,688	36,414
In-Service On-time Performance	99.14%	98.61%	98.48%	98.80%	98.94%	●	98.94%	99.17%	98.94%
Service Delivery Ratio	99.64%	99.56%	99.46%	99.00%	99.66%	●	99.79%	99.83%	99.66%
Traffic Accidents Per 100,000 Train Miles	1.02	0.74	1.26	1.26	1.59	N/A	0.00	0.00	1.59
CPUC Reportable Accidents per 100,000 Train Miles	1.02	0.50	0.63	0.40	1.59	●	0.00	0.00	1.59
Passenger Accidents per 100,000 Boardings	0.000	0.019	0.018	0.010	0.000	●	0.000	0.000	0.000
Complaints per 100,000 Boardings	1.13	3.38	3.68	1.83	2.32	●	2.32	2.44	2.32
New Workers' Compensation Indemnity Claims per	24.97	8.44	19.26	10.42	15.34	●	22.81	0.00	15.34
*Lost Work Days per 200,000 Exposure Hours	937	73	887	450	-	-	1,115	1,472	-
*OSHA Injuries per 200,000 Exposure Hours	-	5.63	16.60	6.00	-	-	7.60	-	-

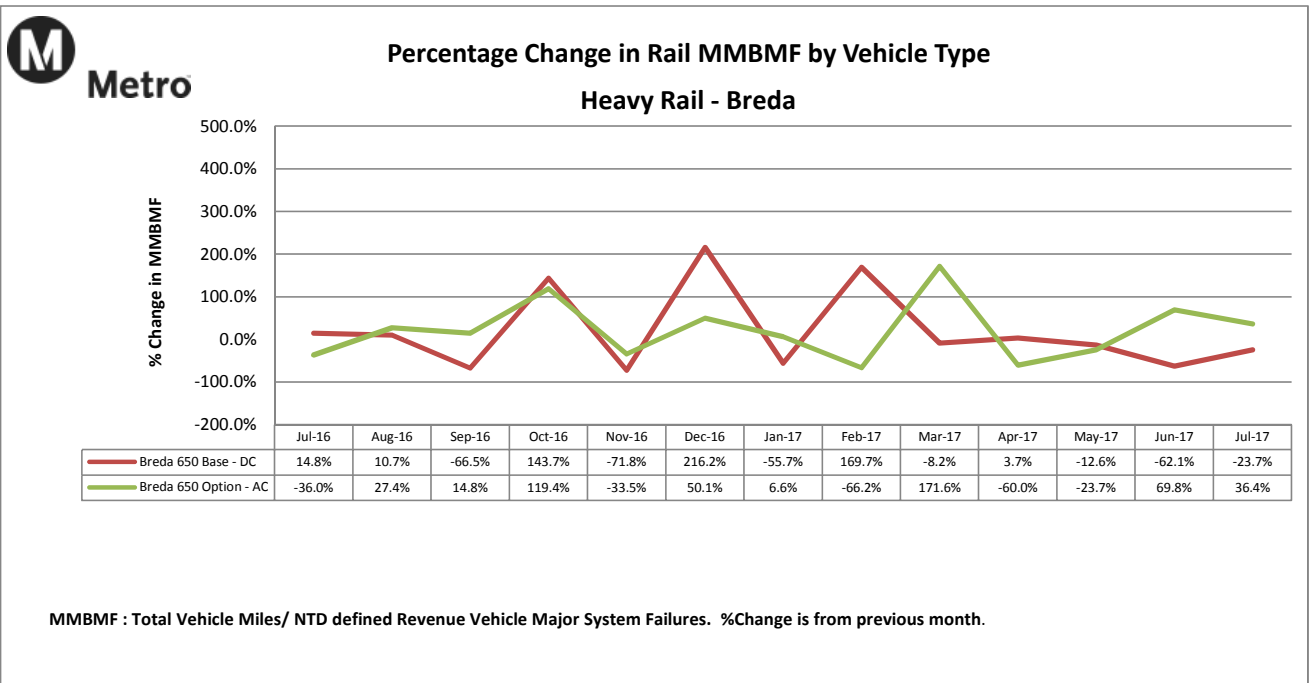
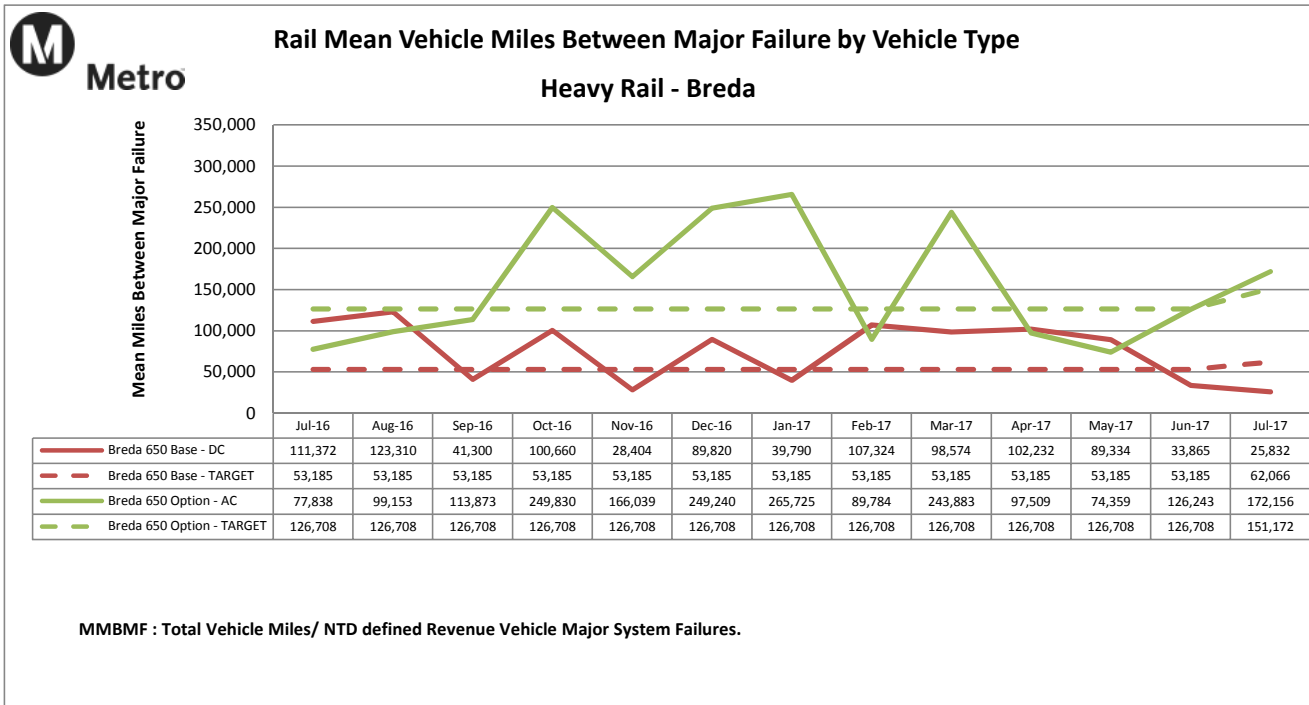
\* There is One Month lag in reporting this data

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

# METRO RAIL PERFORMANCE – JULY 2017

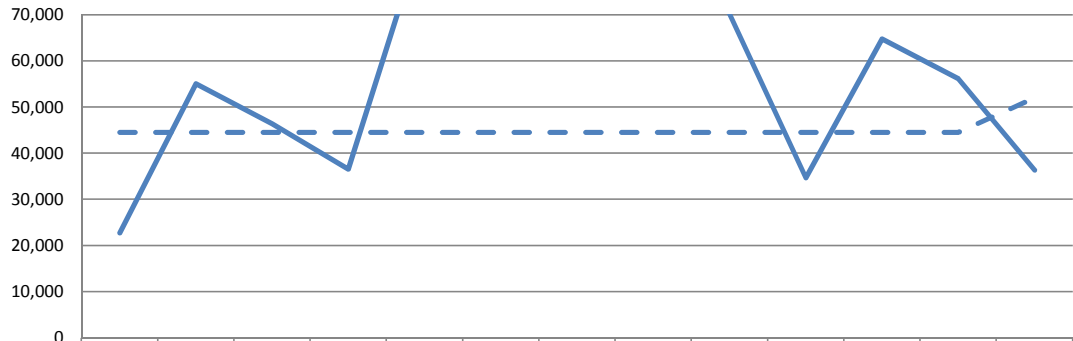
## Rail Performance by Vehicle Type





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

Mean Miles Between Major Failure



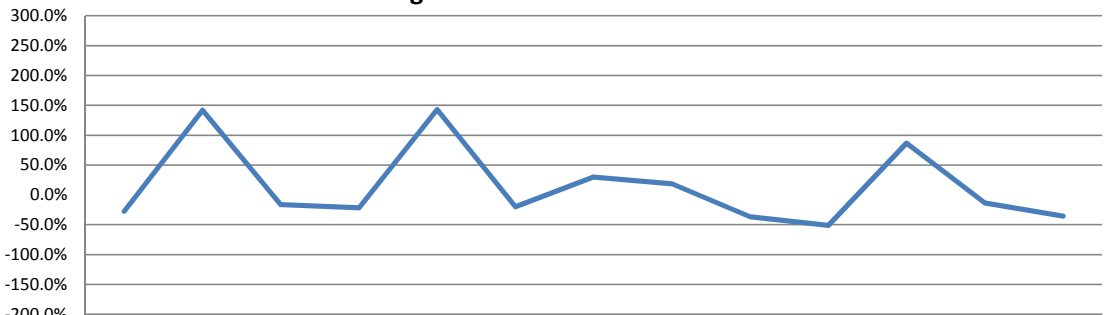
	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
— AnsaldoBreda 2550 Base - AC	22,741	55,074	46,395	36,556	88,934	71,550	92,980	110,322	70,117	34,678	64,769	56,193	36,347
- - AnsaldoBreda 2550 Base - TARGET	44,517	44,517	44,517	44,517	44,517	44,517	44,517	44,517	44,517	44,517	44,517	44,517	51,977

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



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

% Change in MMBMF



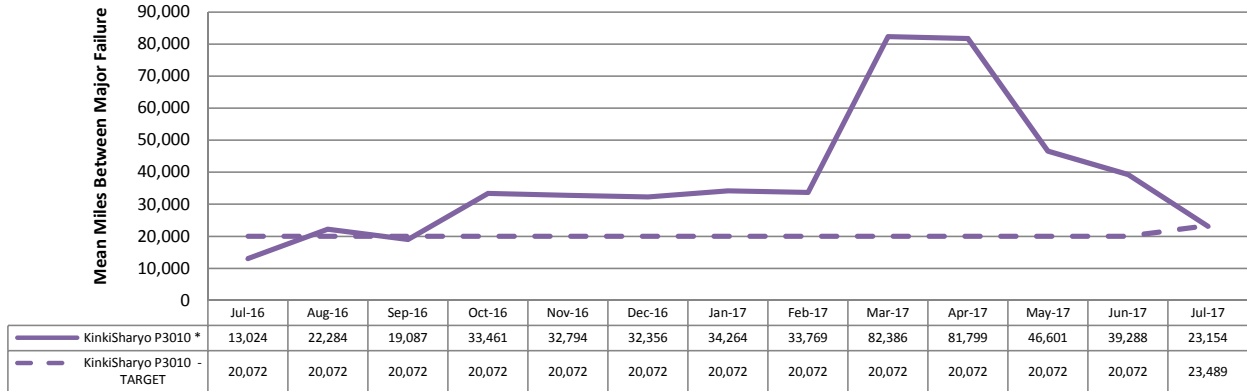
	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
— AnsaldoBreda 2550 Base - AC	-27.0%	142.2%	-15.8%	-21.2%	143.3%	-19.5%	30.0%	18.7%	-36.4%	-50.5%	86.8%	-13.2%	-35.3%

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



Metro

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

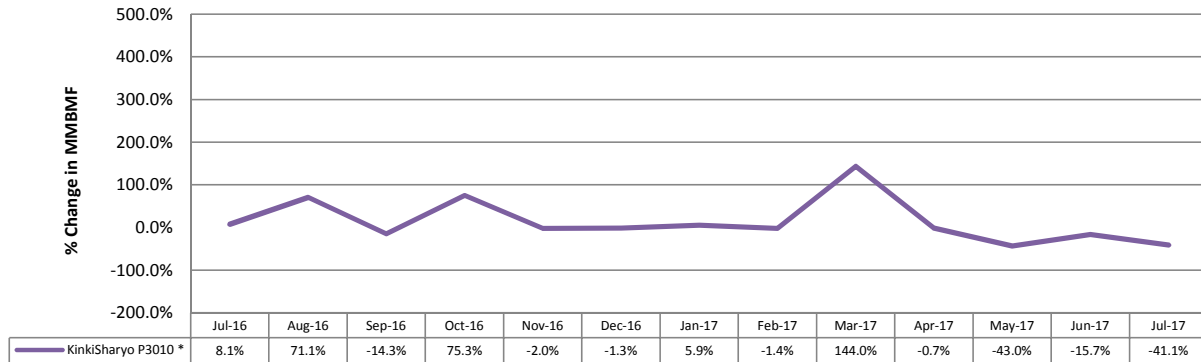


MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



Metro

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



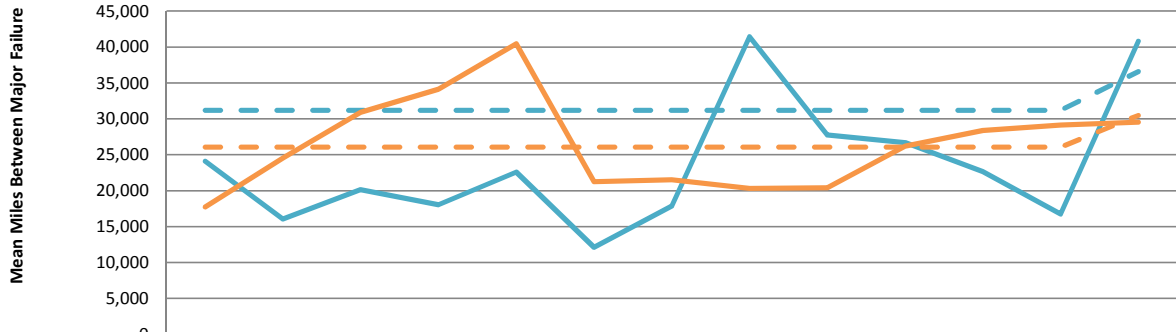
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures. %Change is from previous month.



Metro

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

#### Light Rail - NipponSharyo



	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
Nippon Sharyo 2020 - DC	24,134	16,076	20,161	18,085	22,626	12,147	17,872	41,450	27,775	26,695	22,633	16,760	40,831
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	36,599
Nippon Sharyo 865 - DC	17,735	24,571	30,938	34,155	40,460	21,270	21,543	20,319	20,422	26,238	28,410	29,160	29,577
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	30,478

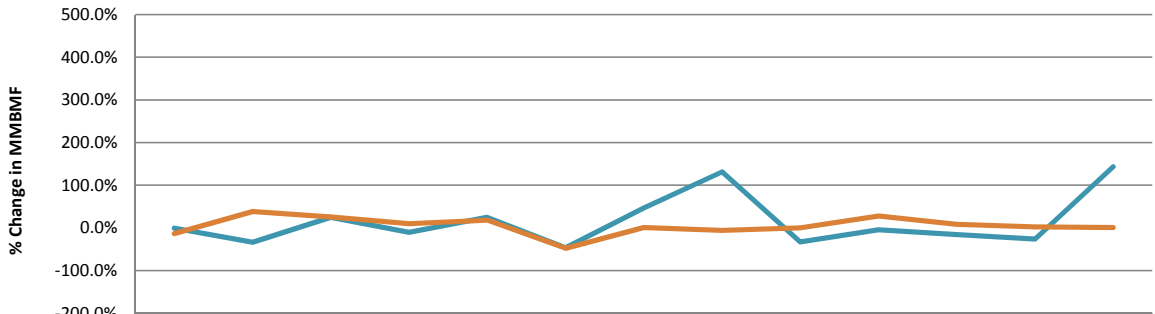
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



Metro

### Percentage Change in Rail MMBMF by Vehicle Type

#### Light Rail - NipponSharyo



	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
Nippon Sharyo 2020 - DC	-0.5%	-33.4%	25.4%	-10.3%	25.1%	-46.3%	47.1%	131.9%	-33.0%	-3.9%	-15.2%	-25.9%	143.6%
Nippon Sharyo 865 - DC	-13.1%	38.5%	25.9%	10.4%	18.5%	-47.4%	1.3%	-5.7%	0.5%	28.5%	8.3%	2.6%	1.4%

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

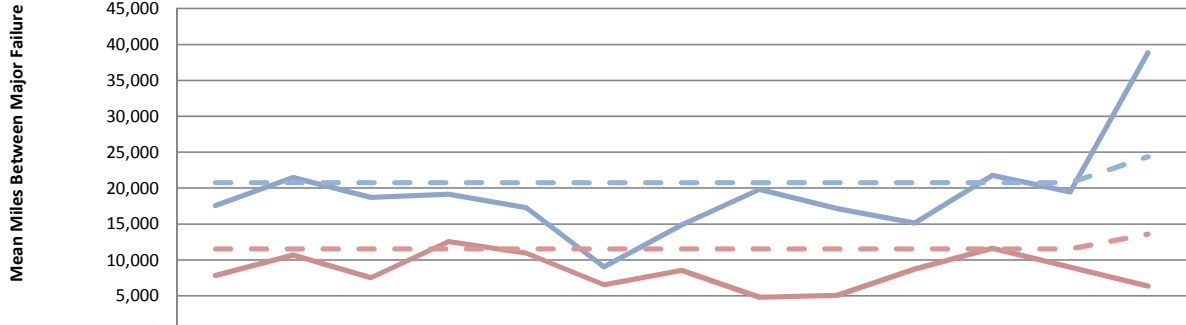




**Metro**

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

**Light Rail - Siemens**



	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
Siemens 2000 Base - AC	17,567	21,505	18,725	19,184	17,318	9,073	14,888	19,848	17,159	15,154	21,822	19,462	38,847
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	24,373
Siemens 2000 GE/ATP - AC	7,863	10,706	7,530	12,573	10,979	6,568	8,550	4,829	5,090	8,746	11,631	8,992	6,369
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	13,620

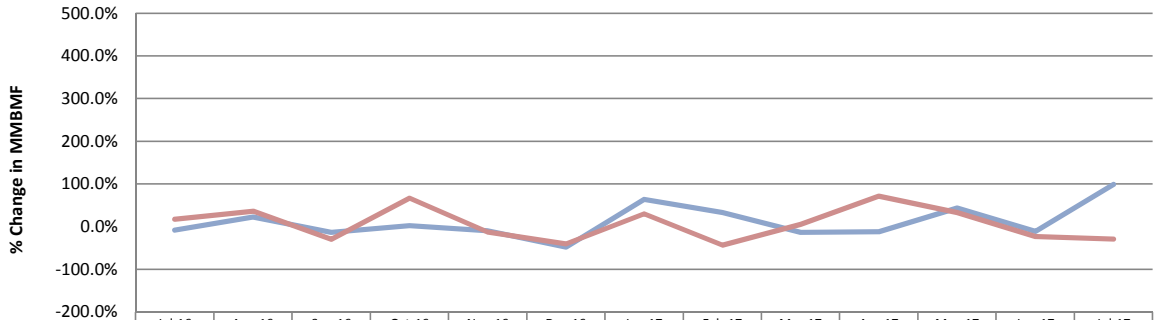
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



**Metro**

**Percentage Change in Rail MMBMF by Vehicle Type**

**Light Rail - Siemens**



	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
Siemens 2000 Base - AC	-7.7%	22.4%	-12.9%	2.5%	-9.7%	-47.6%	64.1%	33.3%	-13.6%	-11.7%	44.0%	-10.8%	99.6%
Siemens 2000 GE/ATP - AC	17.9%	36.2%	-29.7%	67.0%	-12.7%	-40.2%	30.2%	-43.5%	5.4%	71.8%	33.0%	-22.7%	-29.2%

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

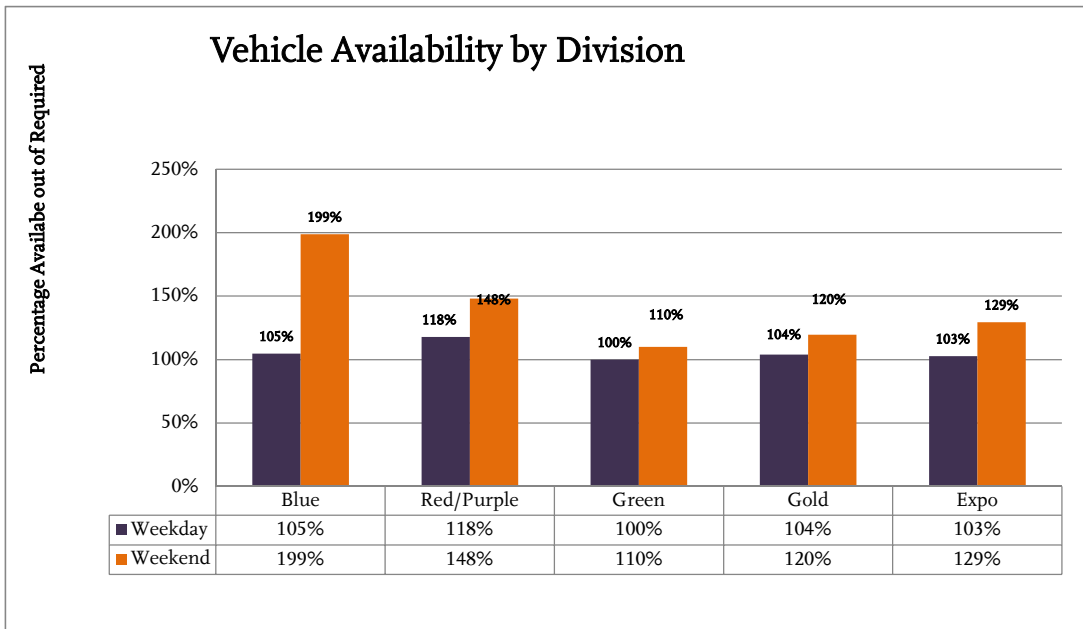
### Mean Miles Between Major Failures

	FY 2017	FY2018 Goal	FY2018 YTD
AnsaldoBreda2550Base - AC	42,292	51,977	51,977
Breda 650 Base - DC	50,526	62,066	68,962
Breda 650 Option - AC	120,372	151,172	123,655
Kinkisharyo P3010	19,068	23,489	35,793
Nippon Sharyo 2020 - DC	29,653	36,599	19,963
Nippon Sharyo 865 - DC	24,565	30,478	25,449
Siemens 2000 Base - AC	19,739	24,373	16,738
Siemens 2000 GE/ATP - AC	10,981	13,620	7,988

### Rail Fleet Distribution – JULY 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		72			
KinkiSharyo P3010	24			15	41
Nippon Sharyo 2020 - DC	13				2
Nippon Sharyo 865 - DC	38				13
Siemens 2000 Base - AC			29		
Siemens 2000 GE/ATP - AC	22				
<b>TOTALS</b>	<b>97</b>	<b>102</b>	<b>29</b>	<b>65</b>	<b>56</b>

Blue			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	72	75	105%
Weekend	26	52	199%
Red/ Purple			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	64	75	118%
Weekend	40	59	148%
Green			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	22	22	100%
Weekend	14	15	110%
Gold			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	49	51	104%
Weekend	28	34	120%
Expo			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	42	43	103%
Weekend	30	39	129%

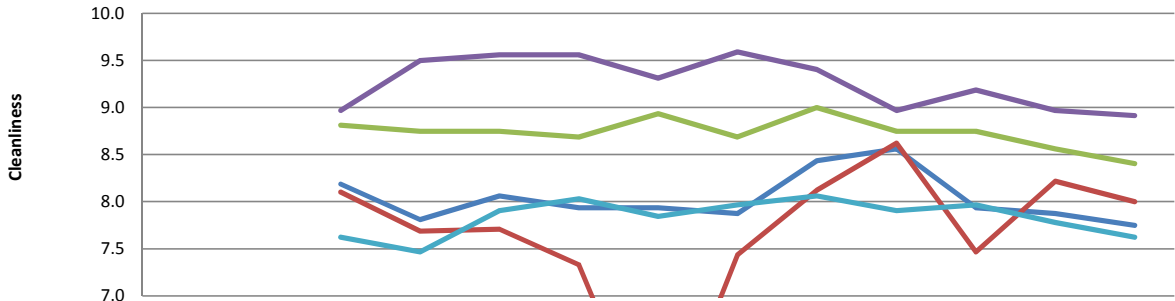


# Cleanliness by Vehicle Type



Metro

Rail Cleanliness by General Vehicle Type



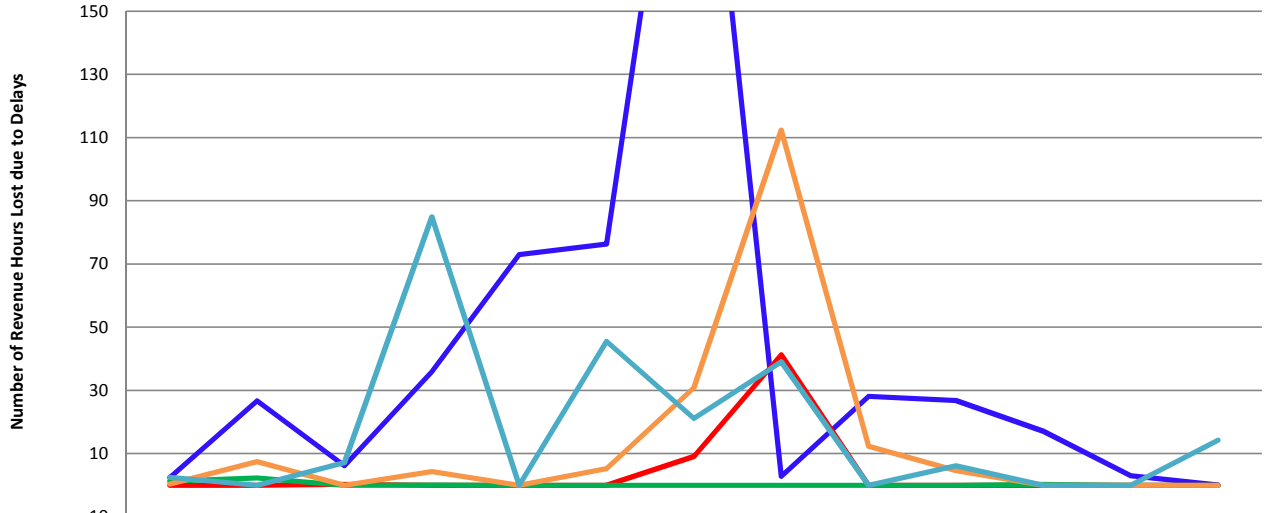
	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
A650			8.2	7.8	8.1	7.9	7.9	7.9	8.4	8.6	7.9	7.9	7.8
P2000			8.1	7.7	7.7	7.3	5.3	7.4	8.1	8.6	7.5	8.2	8.0
P2550			8.8	8.8	8.8	8.7	8.9	8.7	9.0	8.8	8.8	8.6	8.4
P3010			9.0	9.5	9.6	9.6	9.3	9.6	9.4	9.0	9.2	9.0	8.9
P865/P2020			7.6	7.5	7.9	8.0	7.8	8.0	8.1	7.9	8.0	7.8	7.6

Note: Data Collection Began September 2016

## RAIL DELAYS BY CATEGORY - SYSTEMWIDE

### Revenue Hours Lost Related to - ACCIDENTS

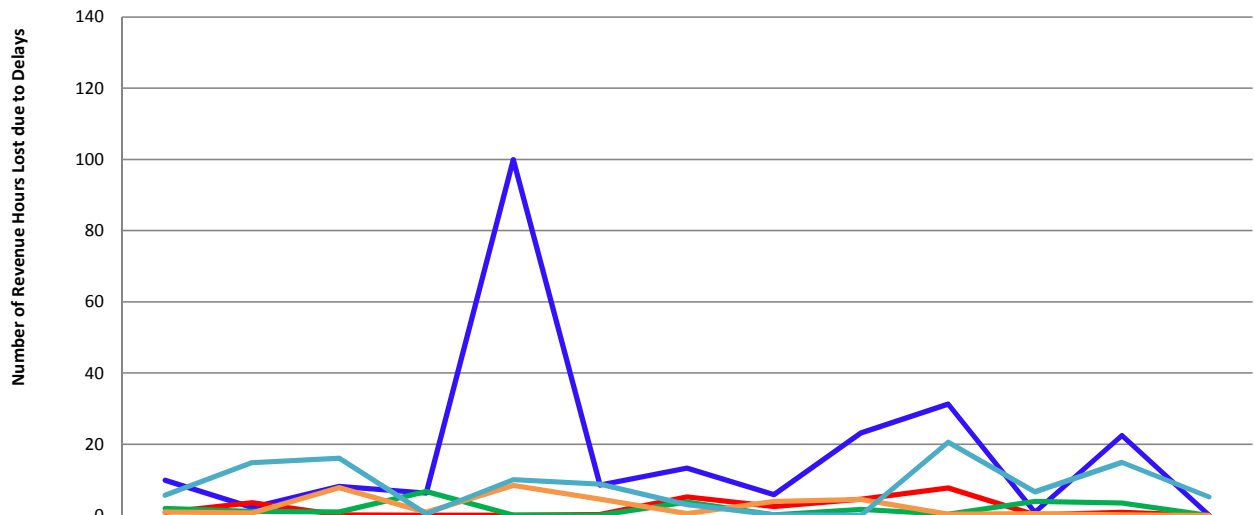
Blue, Red/Purple, Green, Gold & Expo Line Accident Delays



	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
Blue	2	27	6	36	73	76	263	3	28	27	17	3	0.13
Red	0	0	0	0	0	0	9	41	0	0	0	0	0
Green	1	2	0	0	0	0	0	0	0	0	0	0	0
Gold	0	7	0	4	0	5	31	112	12	5	0	0	0
Expo	3	0	7	85	0	46	21	39	0	6	0	0	14.23

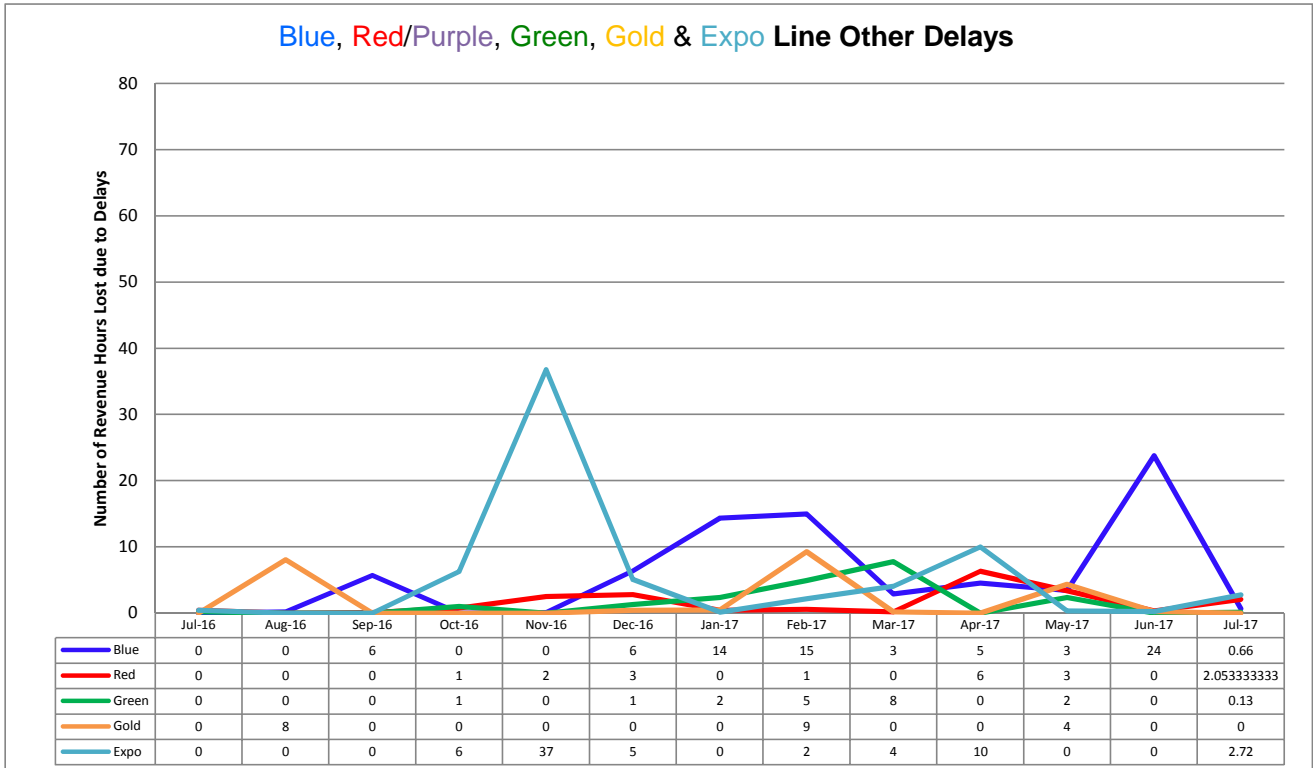
### Revenue Hours Lost Related to - OPERATIONS

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

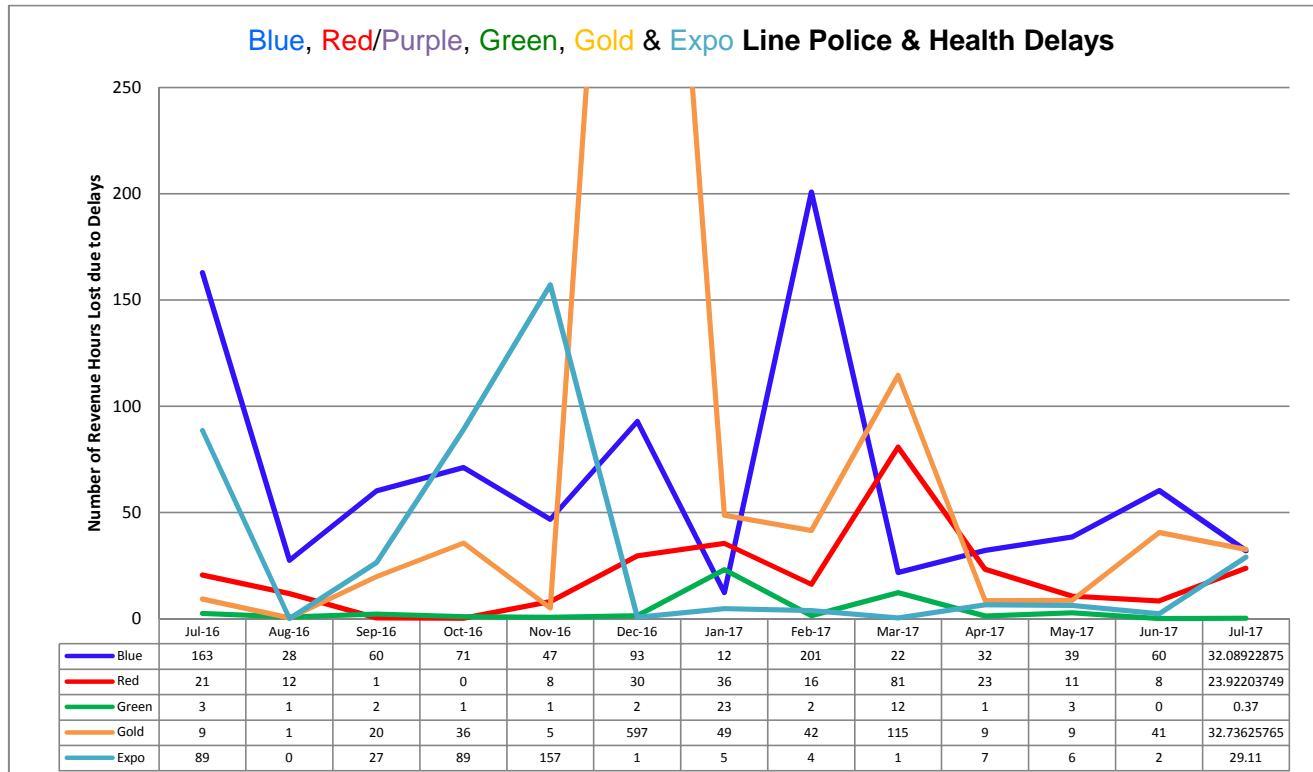


	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
Blue	10	2	8	6	100	9	13	6	23	31	1	22	0.13
Red	1	4	0	0	0	0	5	3	5	8	0	1	0
Green	2	1	1	7	0	0	4	0	2	0	4	3	0
Gold	1	1	8	1	8	5	1	4	4	0	1	0	0
Expo	6	15	16	0	10	9	3	0	0	21	7	15	5.18

### Revenue Hours Lost Related to - OTHER

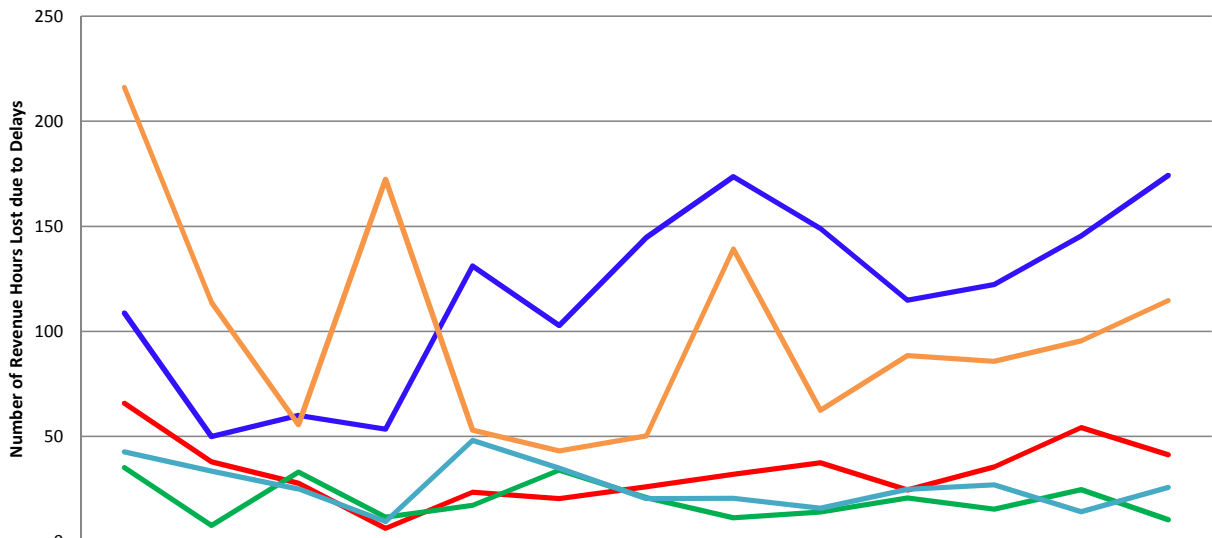


### Revenue Hours Lost Related to - POLICE & HEALTH



### Revenue Hours Lost Related to - Vehicle Delays

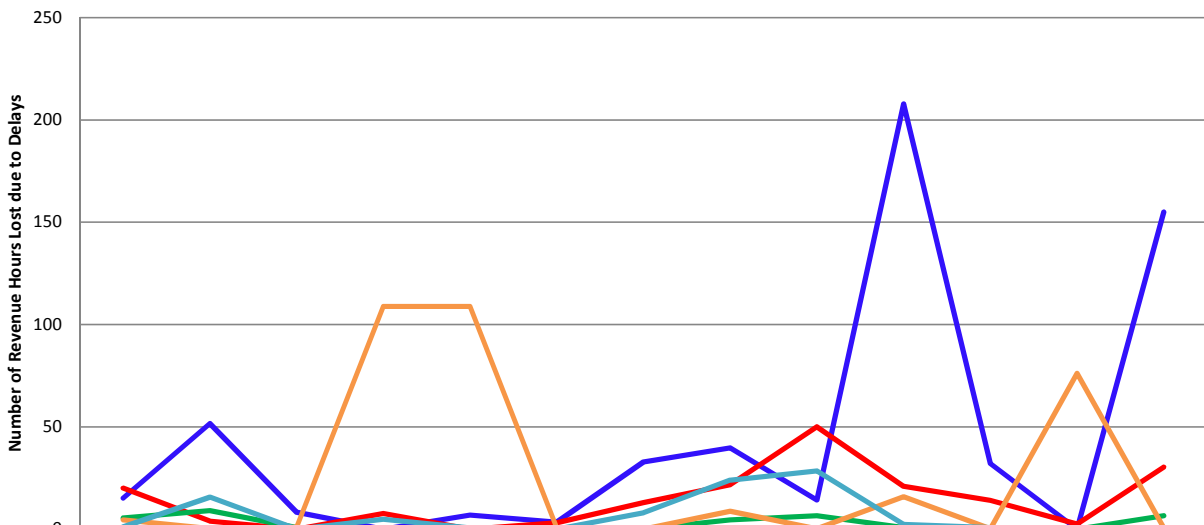
Blue, Red/Purple, Green, Gold & Expo Line Vehicle Delays



	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
Blue	109	50	60	54	131	103	145	174	149	115	122	145	174
Red	66	38	28	6	24	20	26	32	38	25	36	54	41
Green	35	8	33	12	17	34	21	11	14	21	15	25	10.43635864
Gold	216	114	56	172	53	43	50	139	63	89	86	96	114.6933577
Expo	43	34	25	10	48	35	21	21	16	25	27	14	25.73

Revenue Hours Lost Related to - WAYSIDE

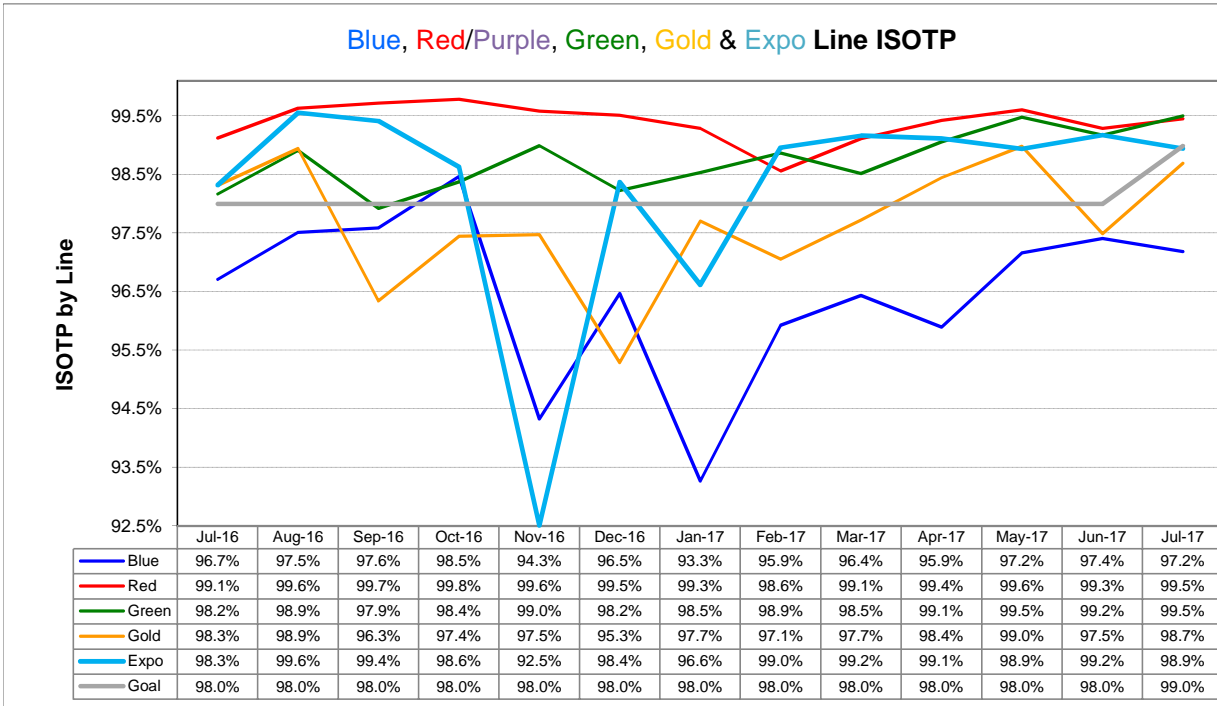
Blue, Red/Purple, Green, Gold & Expo Line Wayside Delays



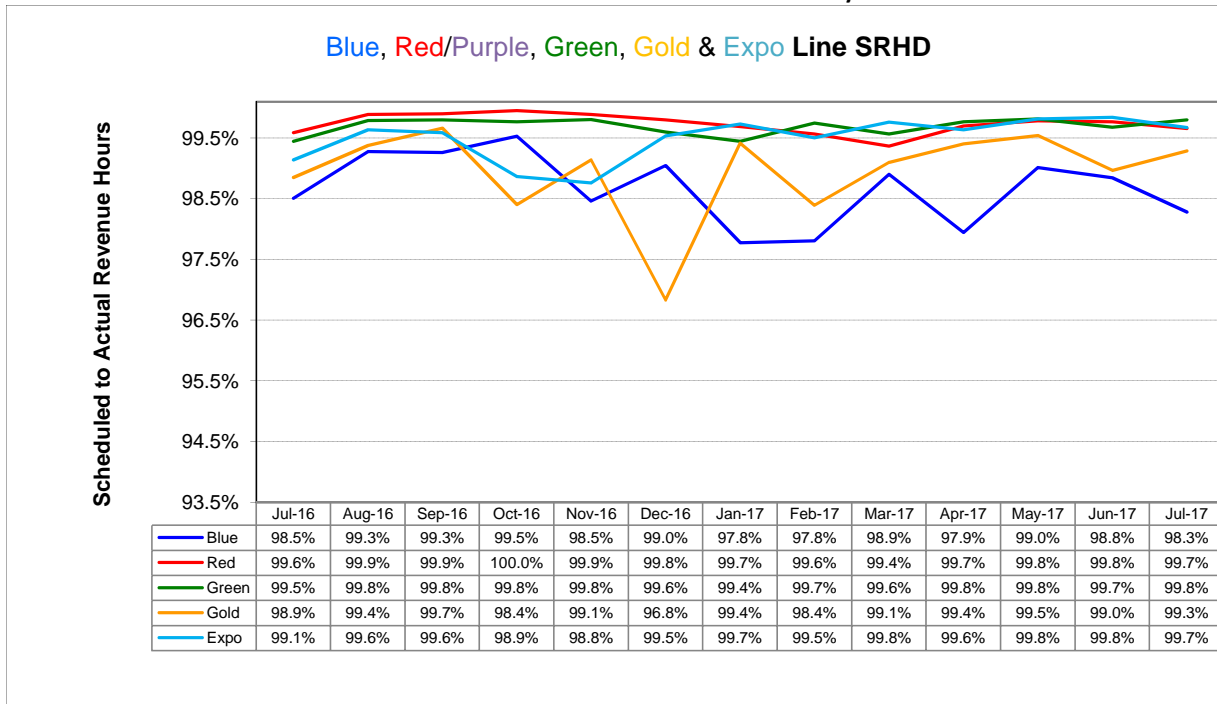
	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
Blue	15	52	8	0	7	4	33	40	14	208	32	0	155.0852337
Red	20	4	0	8	0	3	13	22	50	21	14	3	30.31891165
Green	6	9	1	1	1	1	0	5	7	1	0	0	6.683956837
Gold	5	0	1	109	109	1	0	9	0	16	0	76	0.62
Expo	1	16	0	5	1	0	8	24	28	2	1	0	0

# Rail Service Performance

## In Service On Time Performance by Line

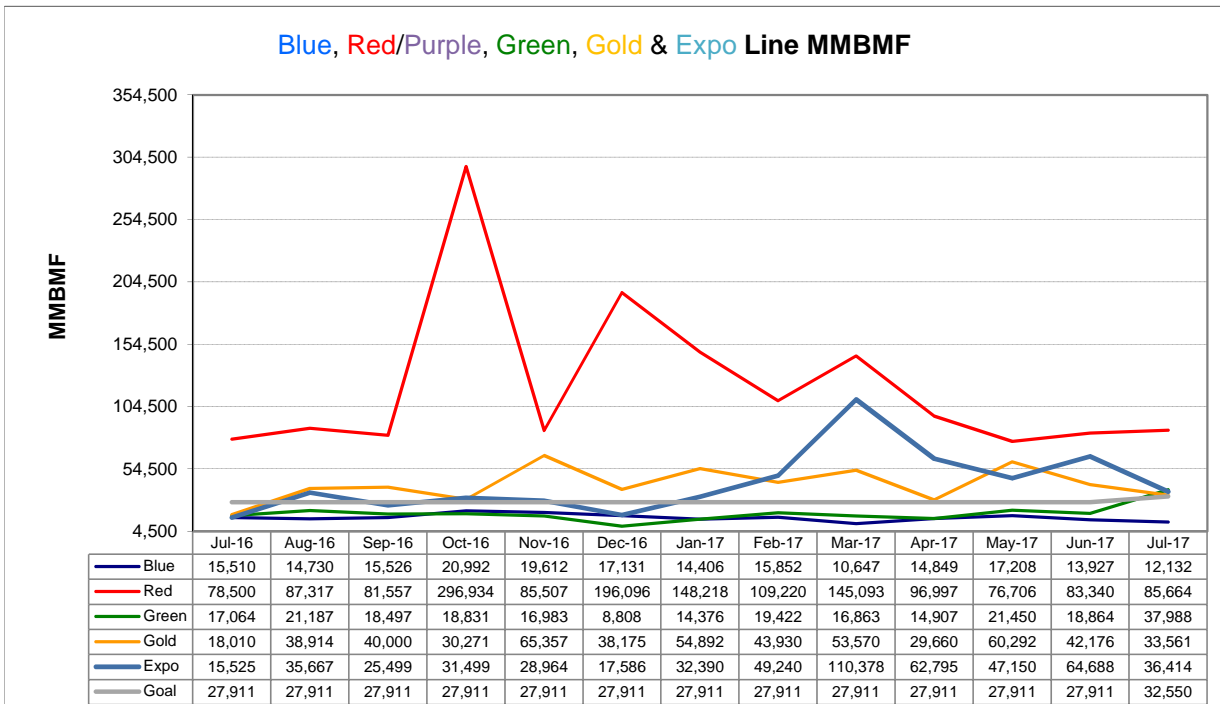


## Ratio of Scheduled to Revenue Hours Delivered by Line



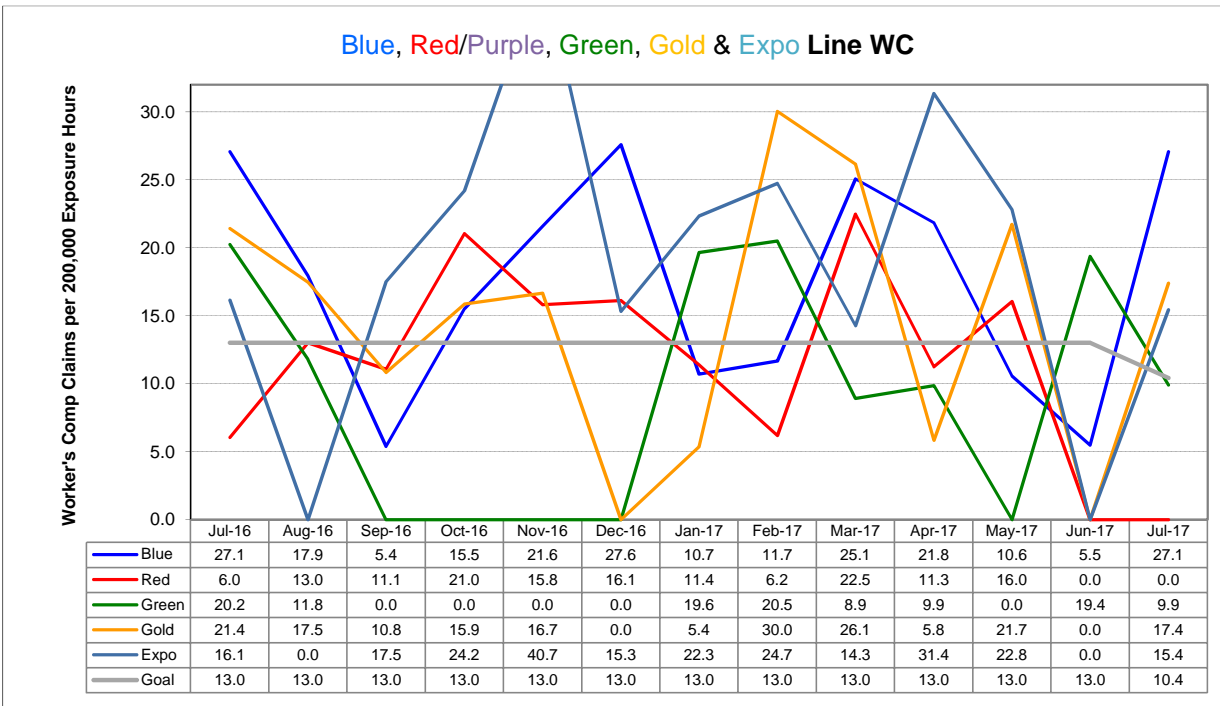


### Mean Miles Between Mechanical Failures by Line



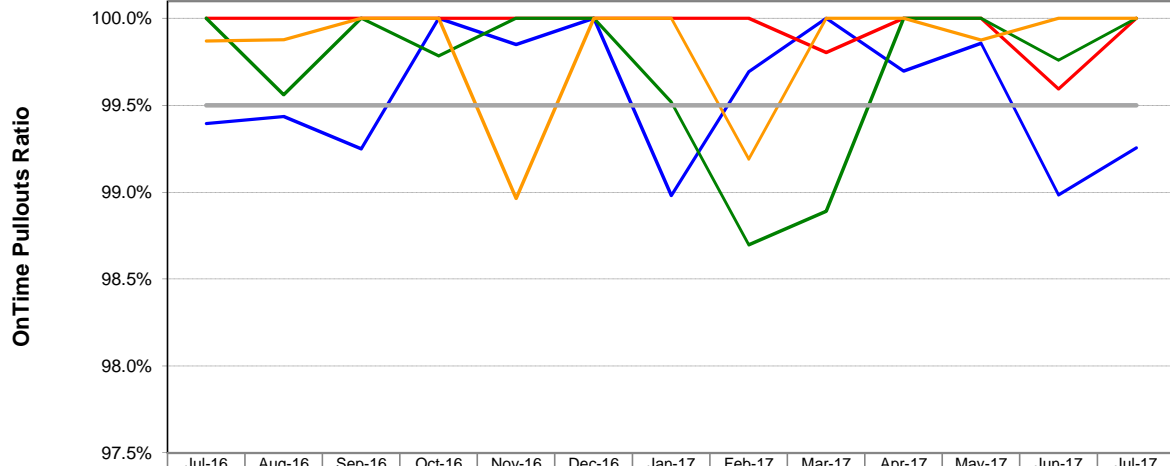
Expo Line Service began in March 2016.

### Workers Comp Claims by Line



### On-Time Pullouts Ratio by Line

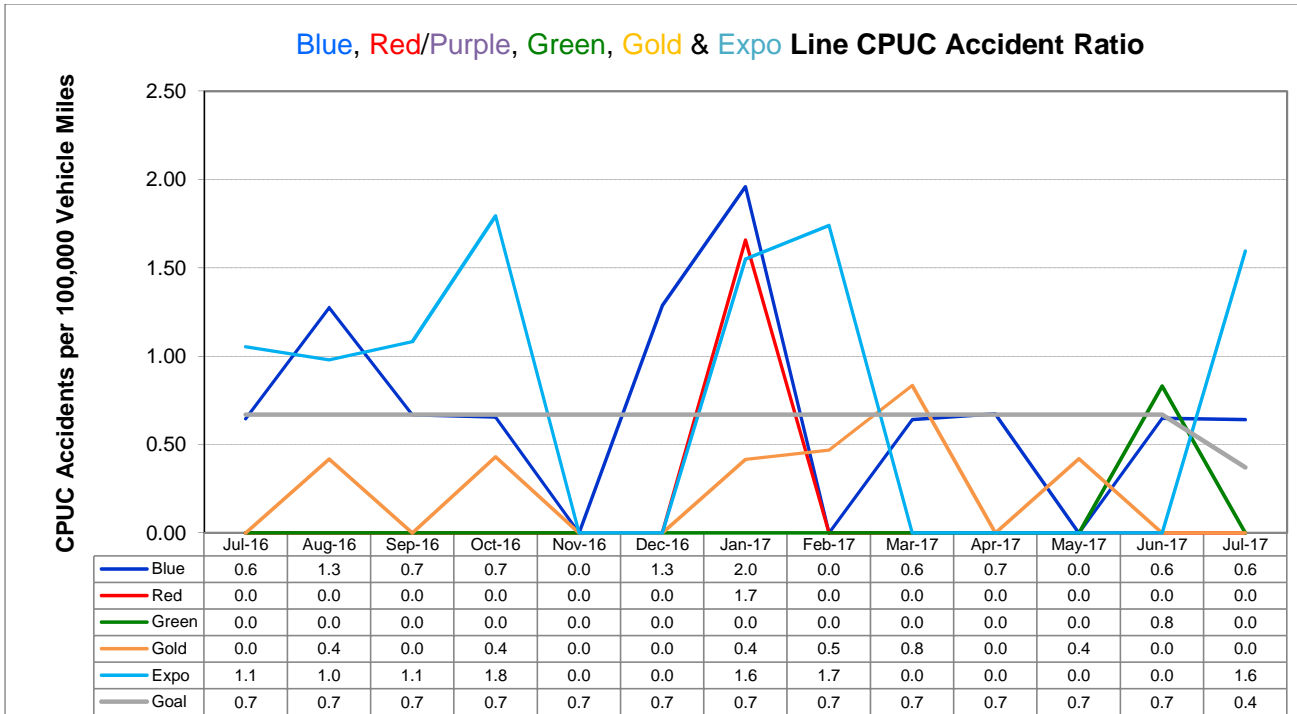
Blue, Red/Purple, Green, Gold & Expo Line OTP



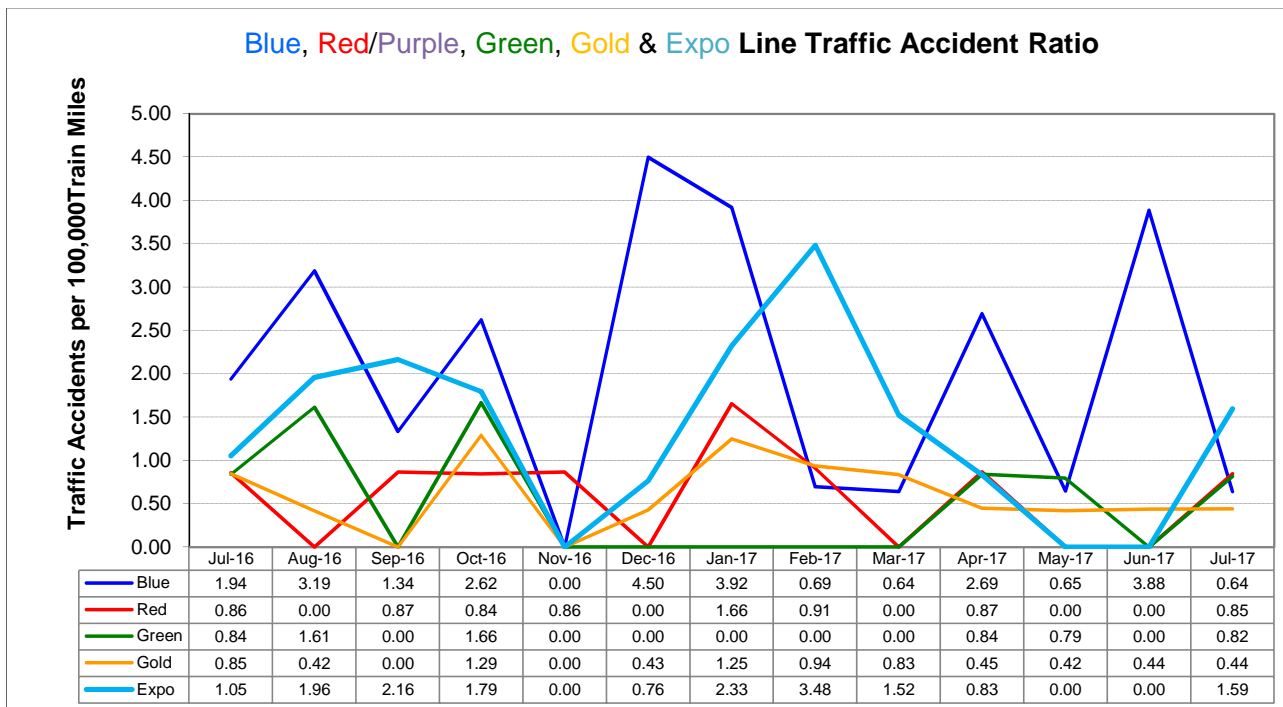
	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
Blue	99.4%	99.4%	99.2%	100.0%	99.8%	100.0%	99.0%	99.7%	100.0%	99.7%	99.9%	99.0%	99.3%
Red	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.8%	100.0%	100.0%	99.6%	100.0%
Green	100.0%	99.6%	100.0%	99.8%	100.0%	100.0%	99.5%	98.7%	98.9%	100.0%	100.0%	99.8%	100.0%
Gold	99.9%	99.9%	100.0%	100.0%	99.0%	100.0%	100.0%	99.2%	100.0%	100.0%	99.9%	100.0%	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%	99.5%
Goal	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%

# Rail Safety Performance

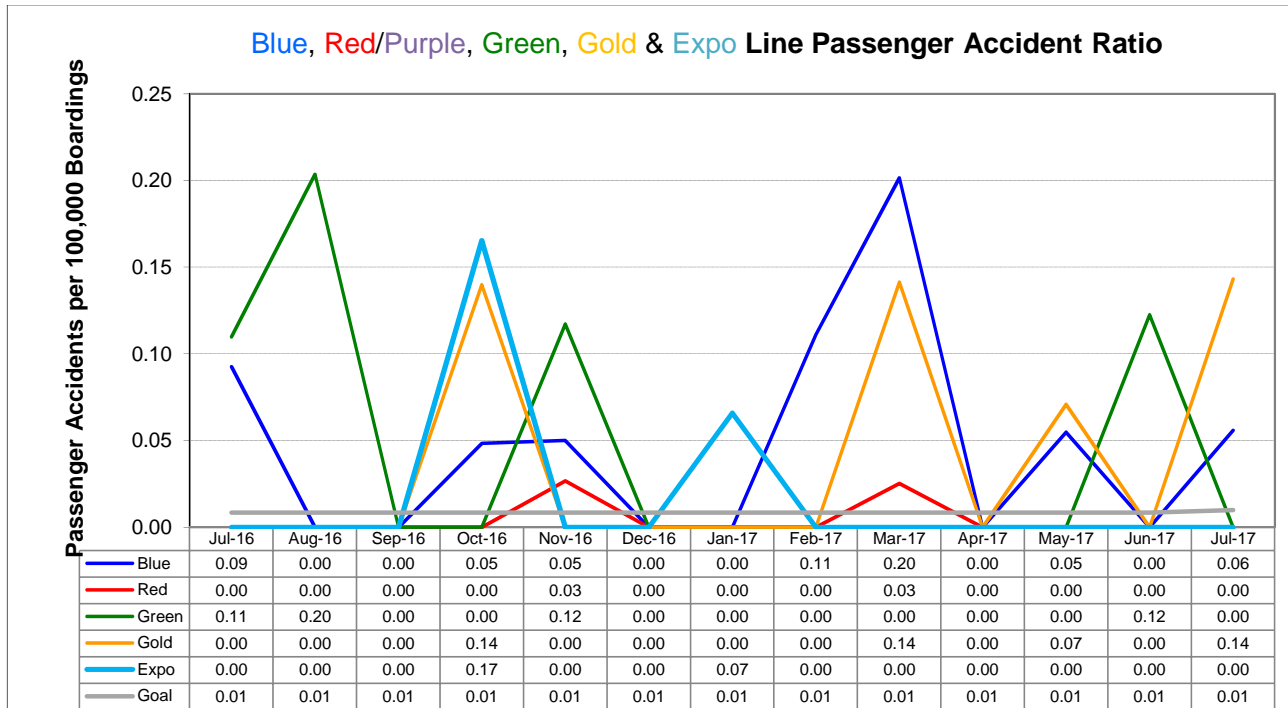
## CPUC REPORTABLE ACCIDENTS PER 100,000 TRAIN MILES



## TRAFFIC ACCIDENTS PER 100,000 TRAIN MILES



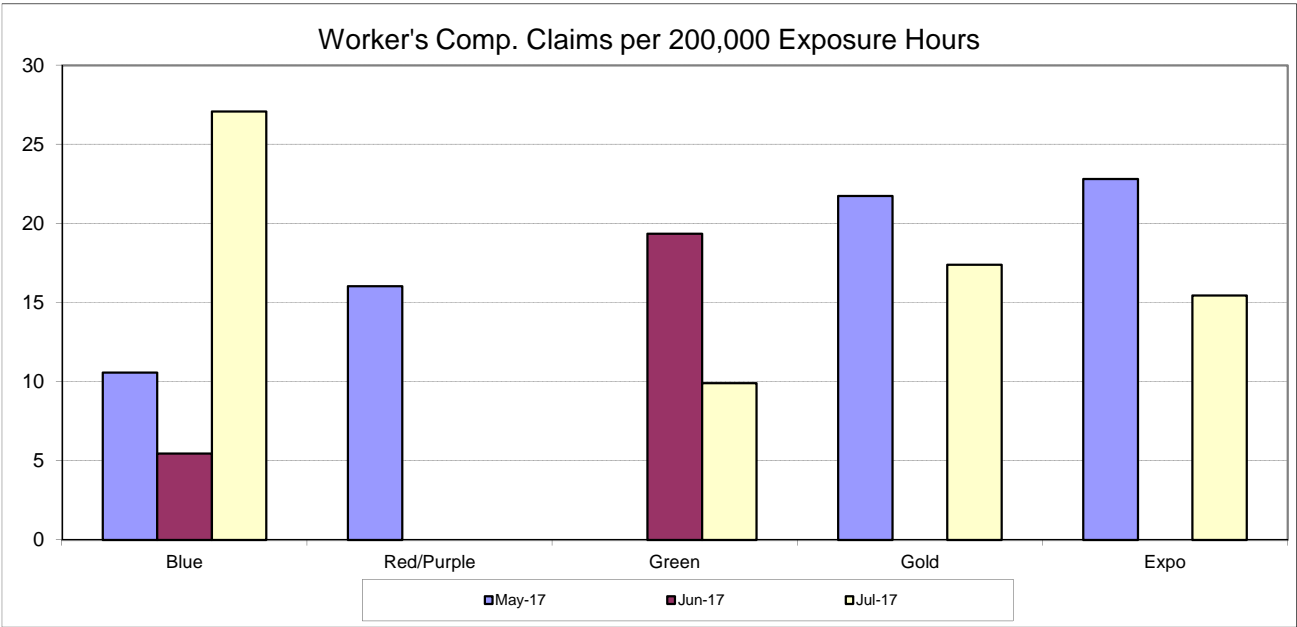
### PASSENGER ACCIDENTS PER 100,000 BOARDINGS



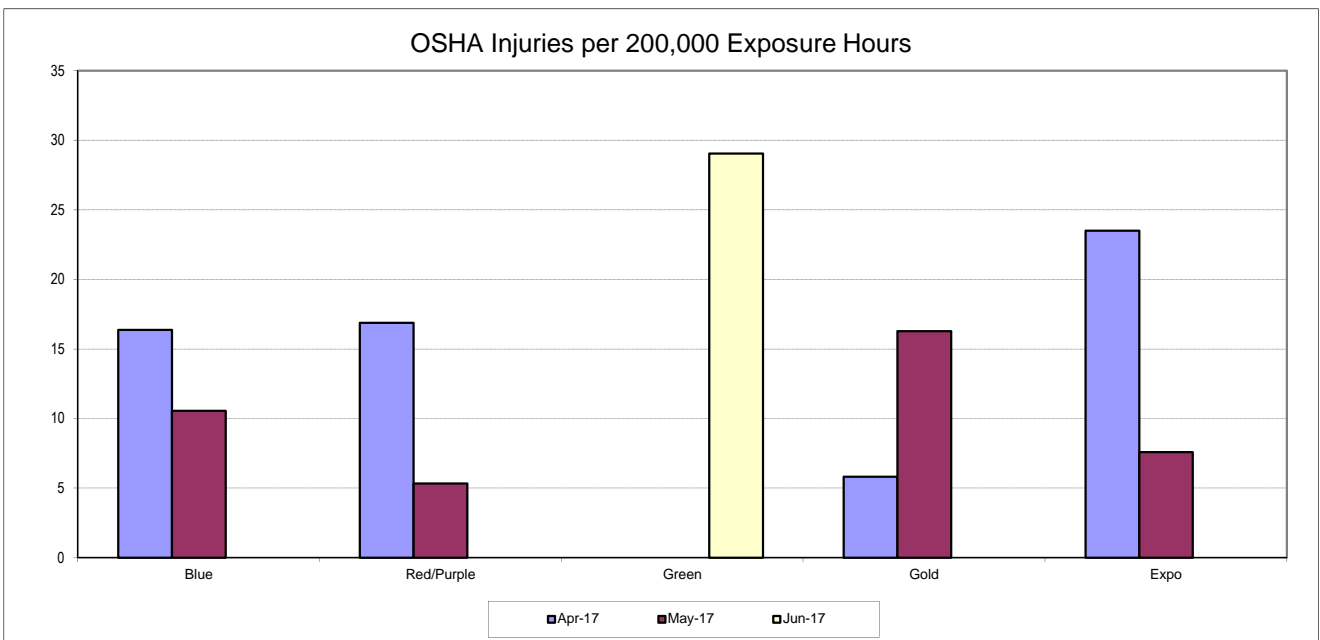
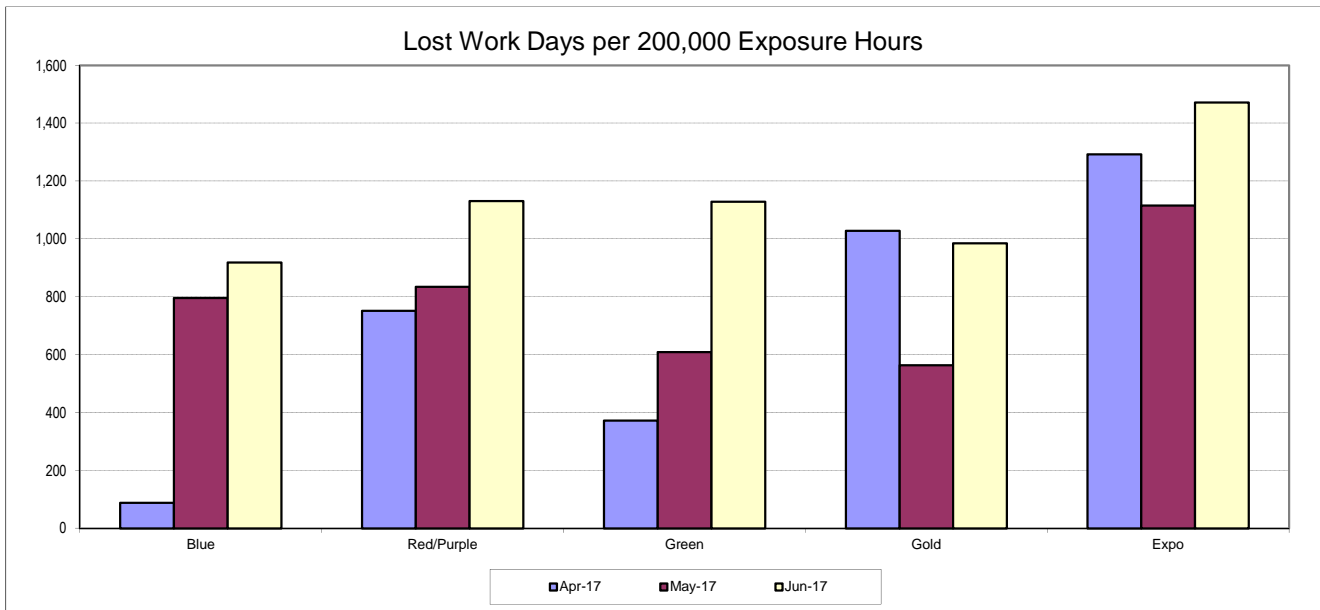
# Worker's Comp. Claims

May 2017 - Jul 2017

3 Month Comparison

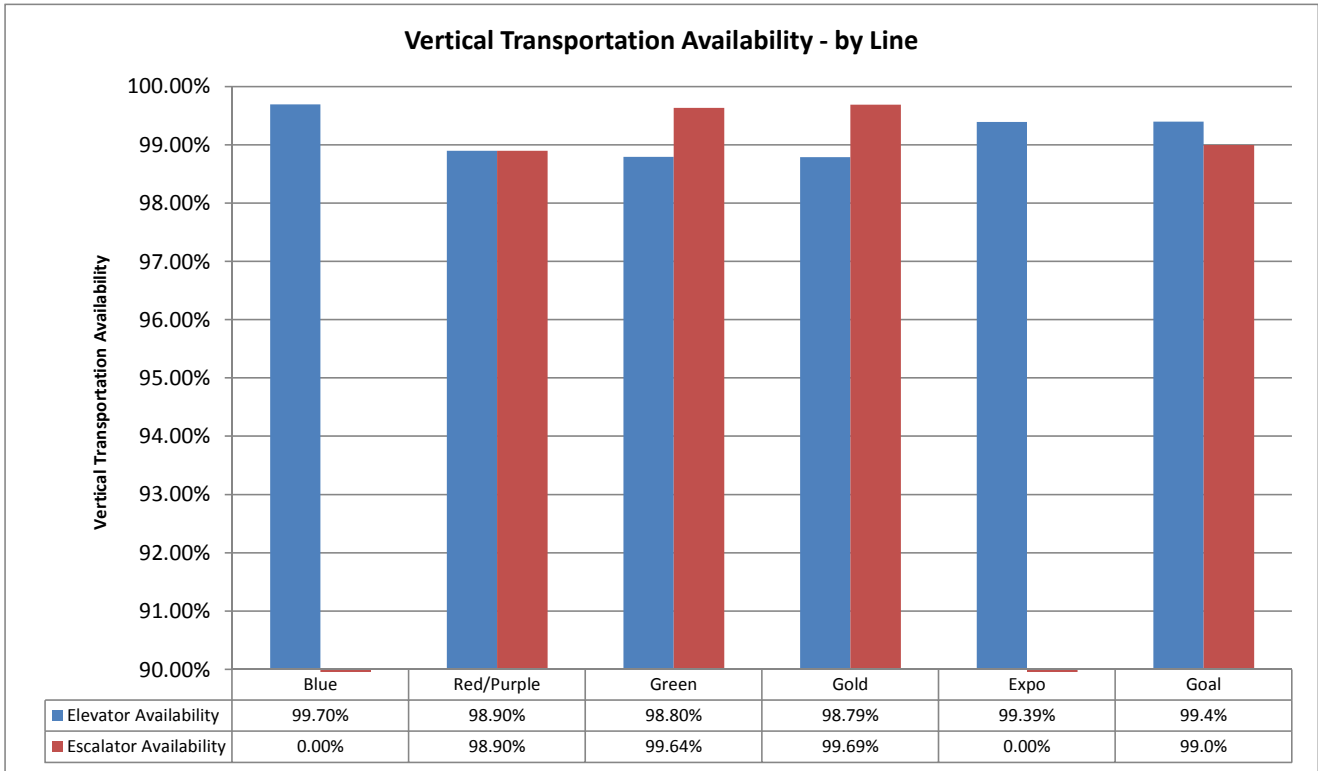


## Lost Work Days and OSHA Injuries Apr 2017 - Jun 2017 3 Month Comparison



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

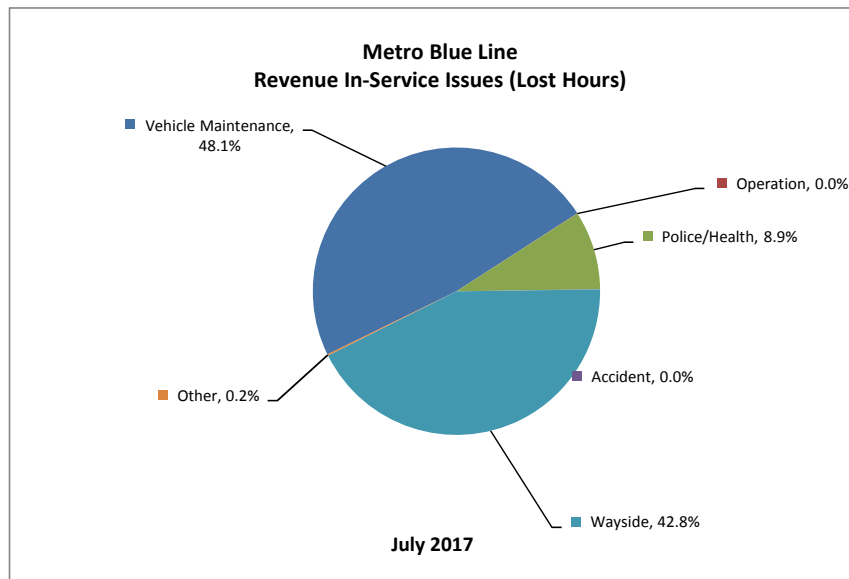
## BLUE LINE

Out of a total of 20,202 hours operated, there were approximately 362 total hours of service delays.

July 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	19,840	98.2%
Cancelled + Delayed Hours	362	1.8%
<b>Total Revenue Hours</b>	<b>20,202</b>	<b>100.0%</b>

Summary of the major contributors:	Count	Hours	Percent
Operations	1	0.1	0.0%
Accidents	1	0.1	0.0%
Vehicle Maintenance	58	174.4	48.1%
Wayside	5	155.1	42.8%
Police & Health	18	32.1	8.9%
Other	3	0.7	0.2%
<b>Total</b>	<b>86</b>	<b>362.5</b>	<b>100.0%</b>

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





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

### Operations Incidents:

**7/17/2017 8:40:00 PM - Incident# 2892091 (0 lost trips, 8 lost minutes)**  
Transit Watch call from train 108.

### Accidents:

**7/8/2017 7:30:00 AM - Incident# 2885551 (0 lost trips, 8 lost minutes)**  
Restricted speed implemented from 41st Place to Vernon Ave/Track#2, due to broken fence from a traffic accident.  
Train#101  
T#200  
1078,1077,1073  
Track#2,41st Place,Southbound

### Vehicle Maintenance Incidents:

**7/2/2017 3:51:00 PM - Incident# 2883374 (0 lost trips, 10 lost minutes)**  
Auto Train Protection (Speed Limit)  
Train 111  
T-293  
Cars (1060)-1064  
Washington track south bound

**7/3/2017 5:05:00 AM - Incident# 2883478 (0 lost trips, 14 lost minutes)**  
ATP Failure.  
Train #605.  
T-026  
,LRV- (156), 126, 130.  
3N Mainyard, Northbound.

**7/3/2017 7:52:00 AM - Incident# 2883596 (0 lost trips, 6 lost minutes)**  
codes won't clear in car 238-(234)-229  
Train 110  
T-262  
Northbound  
Anaheim

**7/3/2017 6:40:00 PM - Incident# 2883864 (1 lost trip, 168 lost minutes)**  
Friction Brakes activation  
Train 102  
T-43  
Cars (234B)-238-229  
Washington Tk2 South bound

**7/3/2017 9:56:00 PM - Incident# 2883894 (1 lost trip, 168 lost minutes)**  
HSCB Trip  
Train 104  
T-149  
Cars (1060)1076-1061  
Willow station Track 2 S/B

**7/4/2017 4:44:00 AM - Incident# 2883930 (0 lost trips, 9 lost minutes)**  
Friction Brakes  
(246)-236-234  
Train 109  
T-236  
Wardlow, Southbound, Track 2

**7/4/2017 12:12:00 PM - Incident# 2883994 (0 lost trips, 9 lost minutes)**  
Aux power (AC or MA Fault) (AC Inverter)  
(248)-249-233  
Train 101  
T-125  
Compton, Southbound, Track 2

**7/5/2017 5:58:00 AM - Incident# 2884116 (1 lost trip, 174 lost minutes)**

Operator reports of train getting propulsion faults  
Train 114  
T-201  
(156A)-126-122  
Wardlow Station, Trk. 2, southbound

**7/5/2017 7:39:00 AM - Incident# 2884179 (0 lost trips, 18 lost minutes)**

Operator reports of self applying brakes  
TRAIN 116  
T-037  
101-110-117  
San Pedro Station, Trk. 2, southbound

**7/5/2017 6:55:00 PM - Incident# 2884447 (2 lost trips, 345 lost minutes)**

Operator reports no movement northbound or southbound.  
Cars (302), 245, (246)  
T-300  
Train 124  
Willow TRK 2, southbound

**7/6/2017 5:31:00 AM - Incident# 2884555 (1 lost trip, 181 lost minutes)**

PA system problem  
Train 104  
T-79  
1077-(1063)-1062  
Willowbrook Station, Track1, Northbound

**7/6/2017 12:30:00 PM - Incident# 2884799 (1 lost trip, 168 lost minutes)**

Hot car and no movement.  
Train#106  
T#102  
(1077),1063.(1062)  
Track#2,Southbound,Vernon

**7/6/2017 1:09:00 PM - Incident# 2884755 (0 lost trips, 16 lost minutes)**

No movement,pulled T's.  
Train#111  
T#547  
109,116,(156)  
Track #2,Southbound,San Pedro Station.

**7/7/2017 6:51:00 AM - Incident# 2885049 (2 lost trips, 333 lost minutes)**

Auto Train Protection (Speed Limit)  
(156)-155-114  
Train 119  
T-400  
Main yard, Departure Track, Signal 4N

**7/7/2017 4:43:00 PM - Incident# 2885287 (0 lost trips, 8 lost minutes)**

Train-102  
T-037  
Cars (250)-237-242  
Southbound Track #2  
Willow Station  
Propulsion / Dynamic Brakes re occurring.

**7/9/2017 6:18:00 AM - Incident# 2885662 (1 lost trip, 139 lost minutes)**

Train 102 reports a propulsion fault with no movement.  
Train 102  
T-292  
LRV'S ( 1068A )1074-1062  
Vernon Station, Track 2, Southbound.

**7/9/2017 10:27:00 AM - Incident# 2885700 (1 lost trip, 139 lost minutes)**

Train 102 reports Propulsion Problem ( no power ) no movement.  
Train 102  
T-102  
LRV'S 1078-1077-1073  
Imperial Pocket.

**7/9/2017 11:35:00 AM - Incident# 2885713 (0 lost trips, 7 lost minutes)**

LRV 1078 is not making the transition from Cab Signals to Street Run Mode. Operator reports no movement with no other indications.  
Train 109  
T-079  
LRV'S ( 1078B ) 1077-10736  
Grand Station, Track 2, Southbound.

**7/9/2017 4:44:00 PM - Incident# 2885791 (1 lost trip, 139 lost minutes)**

Car 1060 not receiving voltage.  
T-300  
Train 102  
Cars 1071-1065-(1060)  
Willowbrook Station, Track 2, southbound.

**7/10/2017 7:10:00 AM - Incident# 2885904 (2 lost trips, 343 lost minutes)**

Operator reports of a propulsion brake fault.  
T-547  
Train#119  
Cars(127A)-166-101  
Northbound Trk#1  
Wardlow St.

**7/10/2017 12:59:00 PM - Incident# 2886107 (0 lost trips, 13 lost minutes)**

Propulsion / Dynamic Brakes  
(1070B)-1066-1064  
Train 106  
T-102  
Del Amo, Southbound, Track 2

**7/10/2017 1:57:00 PM - Incident# 2886112 (1 lost trip, 168 lost minutes)**

Propulsion faults 1070-1066-1064  
Train 106  
T-355  
Track 1  
Northbound  
Wardlow station

**7/10/2017 4:39:00 PM - Incident# 2886195 (1 lost trip, 168 lost minutes)**

AC fault car (248)-302-238  
Train 122  
T-300  
Track 2  
Southbound  
departing wardlow station

**7/11/2017 4:46:00 AM - Incident# 2886294 (3 lost trips, 507 lost minutes)**

Operator reports of faulty doors  
Train 106  
T-292  
234-229-236  
Del Amo station, Trk. 1, northbound

**7/11/2017 3:07:00 PM - Incident# 2886567 (1 lost trip, 168 lost minutes)**

Blown Motor Fuse  
Train 119  
T-293  
246-(235)-249  
7th/Metro tail Track 1

**7/11/2017 3:27:00 PM - Incident# 2886574 (1 lost trip, 168 lost minutes)**

Prop Fault with no Movement  
Train 122  
T-485  
(125)-142-151  
Firestone Station, Track 1, Northbound

**7/11/2017 5:31:00 PM - Incident# 2886631 (1 lost trip, 168 lost minutes)**

Self Applying Brakes  
Train 122  
T-233  
(247)-244  
7th/Metro Portal, Track 2, Southbound

**7/11/2017 6:30:00 PM - Incident# 2886663 (0 lost trips, 6 lost minutes)**

Prop Fault/Speed Restriction  
Train 602  
T-354  
(301)-241-230  
La Brea Station, Track 2, Southbound

**7/12/2017 4:33:00 PM - Incident# 2887021 (8 lost trips, 1,359 lost minutes)**

Train-605  
T-082  
Cars (302)-238-249  
Northbound, Track #1  
Vernon Station  
No Fault - No Movement at Vernon Station.

**7/13/2017 6:51:00 AM - Incident# 2887205 (2 lost trips, 336 lost minutes)**

Train 119 did not pull out of yard due to no equipment. Last Pull out train.

**7/13/2017 4:47:00 PM - Incident# 2887453 (0 lost trips, 10 lost minutes)**

Door issue,no movement.  
Train#110  
T#81  
(101B),156,122  
LB loop,Pacific Station,Northbound

**7/14/2017 5:47:00 AM - Incident# 2887597 (0 lost trips, 6 lost minutes)**

Train Operator reports no movement in the portal.  
Train 108  
T-46  
Cars 1062-1065-1071  
Portal, Track 2, Southbound

**7/14/2017 7:45:00 AM - Incident# 2887673 (3 lost trips, 518 lost minutes)**

Train 117 reports no movement.  
Train 117  
T-201  
LRV'S ( 230A ) 246-248  
Washington Station, Track 2, Southbound.

**7/14/2017 10:31:00 AM - Incident# 2887727 (0 lost trips, 7 lost minutes)**

Train 105 reporting re-occurring Propulsion Faults.  
Train 105  
T-102  
LRV'S 1061-1070-107  
San Pedro Station. track 2, southbound.

**7/14/2017 4:30:00 PM - Incident# 2887895 (3 lost trips, 499 lost minutes)**

Train 101 reporting Propulsion Faults, unable to clear.  
Train 101  
T-240  
LRV'S 148-153-149  
Willow Station, track 2, southbound.

**7/15/2017 7:50:00 AM - Incident# 2888028 (1 lost trip, 123 lost minutes)**

ATP/Friction and Dynamic brake faults.  
Train#105  
T#415  
(233A),242  
Track#2,Southbound,Firestone Station

**7/15/2017 12:22:00 PM - Incident# 2888083 (1 lost trip, 116 lost minutes)**

Unclearable propulsion fault.  
Train#109  
T#293  
(120A),141  
Track#1,Grand Station,Southbound

**7/15/2017 6:00:00 PM - Incident# 2888165 (1 lost trip, 116 lost minutes)**

No Movement  
Train #108  
T-81  
(113A)-112  
NB, Firestone Station, Track #1

**7/16/2017 9:53:00 PM - Incident# 2888363 (0 lost trips, 15 lost minutes)**

No movement. Propulsion fault. 141-139  
T-81  
Track 1  
Northbound  
Del Amo station

**7/17/2017 6:38:00 AM - Incident# 2888437 (3 lost trips, 523 lost minutes)**

No Fault - No Movement (Operator unable to transition to street run)  
(1068A)-1060-169  
Train 108  
T-079  
16th and Long Beach,Southbound, Track 2

**7/18/2017 5:10:00 AM - Incident# 2888802 (1 lost trip, 168 lost minutes)**

Car Body (Interior/Exterior) Headlights B/O  
(1065A)-1072-1061  
Train 103  
T-50  
Willow Station, Northbound, Track 1

**7/18/2017 7:26:00 AM - Incident# 2888925 (0 lost trips, 20 lost minutes)**

Propulsion / Dynamic Brakes  
(250)-247  
Train 118  
T-034  
Los Angeles, Northbound, Track 1

**7/19/2017 6:19:00 AM - Incident# 2889246 (2 lost trips, 336 lost minutes)**

Car 249A unable to get cab signal  
T-281  
Train-115  
Consist (249A)244-242  
Warlow Station, Track #1, Northbound

**7/19/2017 7:12:00 AM - Incident# 2889333 (0 lost trips, 6 lost minutes)**

Car 247A unable to get cab signal  
T-046  
Train-115  
Consist (247A)250-233  
Compton, Track #1, Northbound

**7/19/2017 9:28:00 AM - Incident# 2889386 (0 lost trips, 5 lost minutes)**

Train 101 Propulsion Fault unable to clear, Speed restriction.  
Train 101  
T-262  
LRV'S ( 231A ) 236-248  
Grand Station, Track 2, Southbound.

**7/19/2017 4:22:00 PM - Incident# 2891989 (1 lost trip, 168 lost minutes)**

Train 109 reports recurring Propulsion Faults.

Train 109

T-357

LRV'S ( 155A ) 115-116

Anaheim Station, Track 1, Northbound.

**7/20/2017 4:14:00 AM - Incident# 2889707 (1 lost trip, 168 lost minutes)**

Friction Brakes

115-116-119

Train 104

T-079

Main Yard, Southbound, Track 1

**7/20/2017 6:36:00 PM - Incident# 2890074 (5 lost trips, 839 lost minutes)**

Train Operator reported No Movement at Pacific Station Track #1. Northbound.

Train 109

T-355246-301-(302)

**7/23/2017 4:55:00 AM - Incident# 2890688 (0 lost trips, 19 lost minutes)**

Train 104 reports friction brakes, No movement.

Train 104

T-079

LRV'S 236-245-302

Wardlow Station, track 1, northbound.

**7/23/2017 5:23:00 AM - Incident# 2890692 (0 lost trips, 6 lost minutes)**

Train 108 reports no movement after departing Willowbrook Station.

Train 108

T-043

LRV'S 1087-1079

Willowbrook Station, track 1, southbound.

**7/25/2017 6:35:00 AM - Incident# 2891341 (1 lost trip, 175 lost minutes)**

Self-applying brakes

Train 108

T-308

(301B)-247-240

T-308

5th Street Station, Long Beach Loop, Southbound

**7/25/2017 5:13:00 PM - Incident# 2891579 (1 lost trip, 168 lost minutes)**

No Fault - No Movement

T-042

Train 103

1065-1060-1076

Southbound Platform 2, Metro Center.

**7/27/2017 11:18:00 AM - Incident# 2892390 (1 lost trip, 168 lost minutes)**

Doors

(1079)-1077-1066

Train 116

T-164

Artesia, Northbound, Track 1

**7/30/2017 4:13:00 PM - Incident# 2893297 (1 lost trip, 138 lost minutes)**

No cab signals.

Train 110

T-237

Track 2

Southbound

Vernon station

**7/31/2017 5:54:00 AM - Incident# 2893429 (1 lost trip, 168 lost minutes)**

Operator reports of friction brake faults departing the Willow Station.  
T-037  
Train#108  
Cars(111B)-107-117  
Northbound Trk# 1  
Del Amo St.

**7/31/2017 2:05:00 PM - Incident# 2893617 (1 lost trip, 168 lost minutes)**

Friction brake fault 301B-238-230  
T-249  
Train 111  
Track 1  
Northbound  
Washington station

**7/31/2017 2:54:00 PM - Incident# 2893626 (2 lost trips, 346 lost minutes)**

Doors off track. 240-(247B)-250  
T-307  
Train 101  
Track 2  
Wardlow station

**7/31/2017 5:58:00 PM - Incident# 2893673 (0 lost trips, 10 lost minutes)**

Friction brake fault 301-238-230  
T-82  
Train 110  
Willow station  
Southbound

**Wayside Incidents:**

**7/11/2017 7:35:00 PM - Incident# 2886713 (1 lost trip, 168 lost minutes)**

7th and Metro south interlocking.

**7/18/2017 4:48:00 PM - Incident# 2889129 (16 lost trips, 2,685 lost minutes)**

DC Breaker: Deenergized tracks between Florence and Slauson Station.

**7/26/2017 6:04:00 AM - Incident# 2891721 (0 lost trips, 9 lost minutes)**

Out Late from Blue line Yard.  
Train 603  
T-528  
9 minute delay.

**7/26/2017 7:16:00 PM - Incident# 2892110 (37 lost trips, 6,438 lost minutes)**

Multiple fires in the in tail tracks 1 and 2.

**7/30/2017 3:19:00 PM - Incident# 2893286 (0 lost trips, 5 lost minutes)**

Del Amo TPSS, Battery Charger alarm, AC SWGEAR Control Power alarm.

**Police & Health Incidents:**

**7/1/2017 7:50:00 AM - Incident# 2883079 (0 lost trips, 10 lost minutes)**

R-427 stated that a female patron reported that there was an African American in the Train with a Gun on LRV 145.

**7/1/2017 5:56:00 PM - Incident# 2883223 (0 lost trips, 9 lost minutes)**

Operator T-438 reports a male individual on board with a gun.

Train 652  
T-438  
Cars (1025)-1042-1025  
LaBrea Station, Track 3, Northbound

**7/4/2017 8:47:00 AM - Incident# 2883957 (0 lost trips, 19 lost minutes)**

Sick Individual (Possible Seizure) at Willowbrook Station

**7/9/2017 4:28:00 AM - Incident# 2885644 (0 lost trips, 10 lost minutes)**

Train 104 reports a trespasser sleeping south of Warlow Station near track 1 approximately 6 feet from the running rail.

**7/9/2017 1:07:00 PM - Incident# 2885739 (2 lost trips, 289 lost minutes)**

Train 655 reporting an African American and two Hispanic. males fighting on the ROW south of Pico Station.

**7/10/2017 6:07:00 PM - Incident# 2886220 (0 lost trips, 6 lost minutes)**

Individual assaulted at artesia station

Train 119

T-130

230-241

Track 1

Northbound

Artesia station

**7/13/2017 4:47:00 AM - Incident# 2887184 (0 lost trips, 8 lost minutes)**

CCTV reports Husky canine on the ROW at Willow station track 1. Train 108 was unable to proceed to the station due to canine fouling track. Operator T-522, Cars 148-153-149

**7/14/2017 12:37:00 PM - Incident# 2887808 (1 lost trip, 166 lost minutes)**

Operator reports a fight between an African American female and a White female on board train 104, LRV 1061

**7/14/2017 8:56:00 PM - Incident# 2887955 (1 lost trip, 166 lost minutes)**

Robbery suspect

Willowbrook Station

**7/15/2017 9:04:00 PM - Incident# 2888182 (0 lost trips, 20 lost minutes)**

Weapon Possession

Train # 105

T-528

1076-1077

NB, 103rd St. Station, Track #1

**7/19/2017 11:42:00 PM - Incident# 2889661 (0 lost trips, 12 lost minutes)**

Patron reported being robbed on the train.

**7/21/2017 4:16:00 PM - Incident# 2890422 (4 lost trips, 665 lost minutes)**

Blockade at 1st Street due to Traffic Accident MTA not involved.

**7/23/2017 8:13:00 PM - Incident# 2890831 (0 lost trips, 20 lost minutes)**

Patron reported with a sword. 1072-1064-1067

Train 102

T-042

Track 2

Southbound

Vernon station

**7/25/2017 9:38:00 AM - Incident# 2891467 (1 lost trip, 168 lost minutes)**

Assault reported by LASD at Florence Station platform.

**7/26/2017 12:20:00 PM - Incident# 2891670 (0 lost trips, 7 lost minutes)**

Theft

T-413

Train 104

Cars (1073)A-1071-1075

T-Mall North Side

**7/28/2017 4:26:00 PM - Incident# 2894581 (0 lost trips, 10 lost minutes)**

Train 609 reports a trespasser walking in the Portal track 1 from Pico Station to 7th Metro.

**7/29/2017 12:55:00 PM - Incident# 2893068 (0 lost trips, 4 lost minutes)**

Train 106 reports an altercation on board LRV 1071.

**7/31/2017 8:34:00 PM - Incident# 2893718 (2 lost trips, 336 lost minutes)**

Fight on board train 1042B-1036-1025

T-300

Track 2

Southbound

103rd station



**Other Incidents:**

**7/13/2017 1:48:00 PM - Incident# 2887344 (0 lost trips, 6 lost minutes)**

Train operator reports of a possible passenger problem aboard his consist  
Train 110

T-130

101-156-122

Compton Station, Trk. 2, southbound

**7/17/2017 10:56:00 PM - Incident# 2888757 (0 lost trips, 20 lost minutes)**

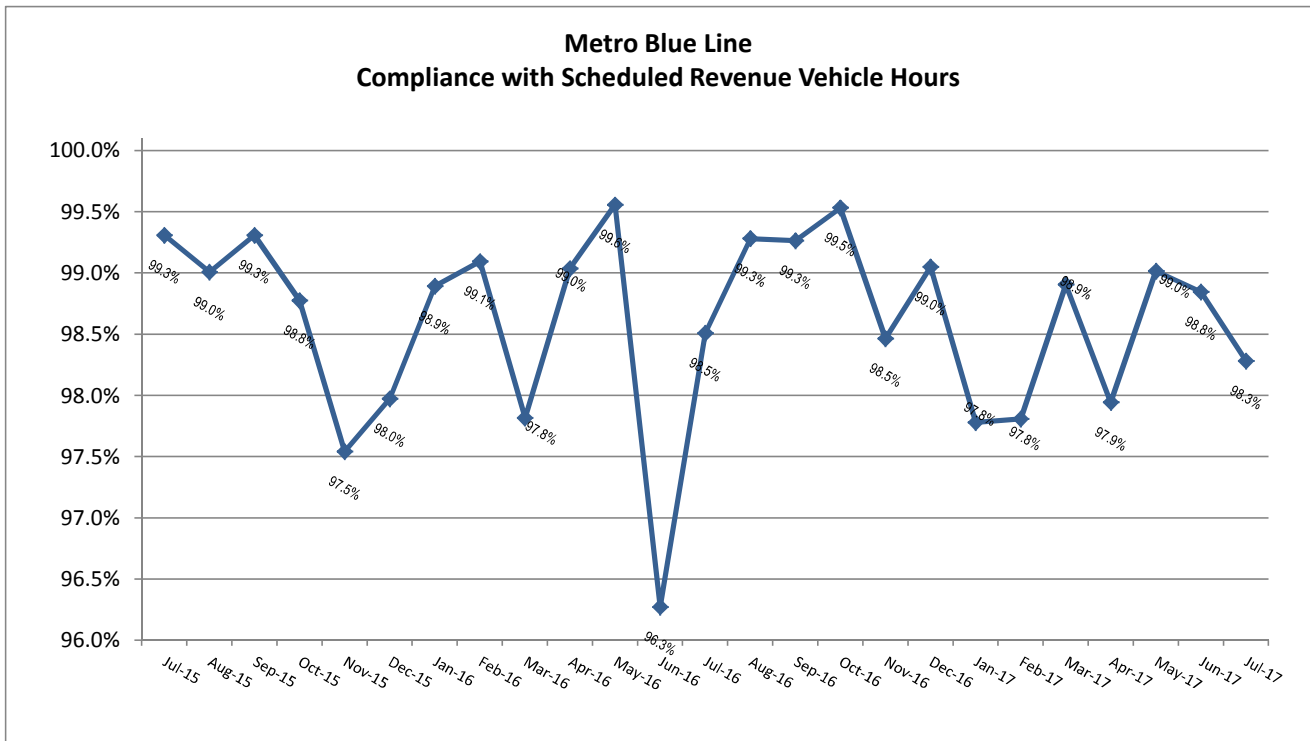
LASD held train at Del Amo.

**7/20/2017 4:49:00 AM - Incident# 2889710 (0 lost trips, 14 lost minutes)**

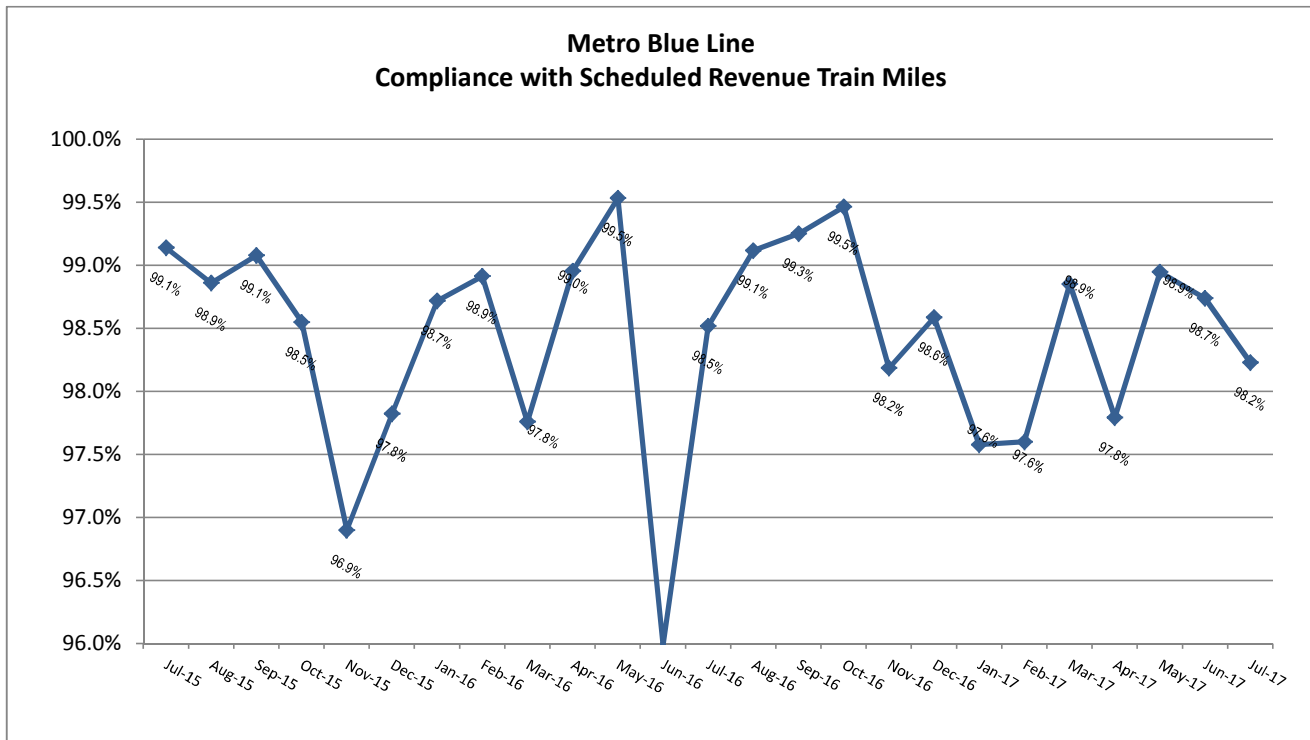
Out Late: Due to operator miss out

# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

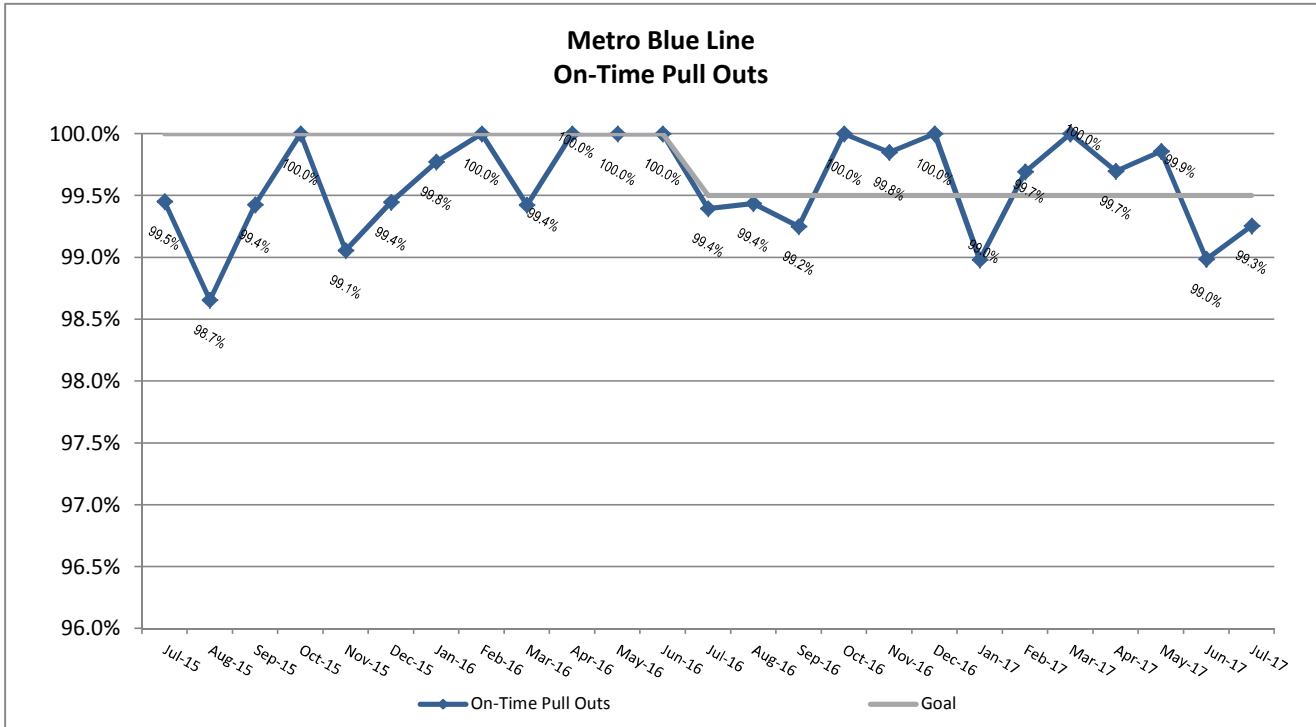
## COMPLIANCE WITH SCHEDULED VEHICLE HOURS



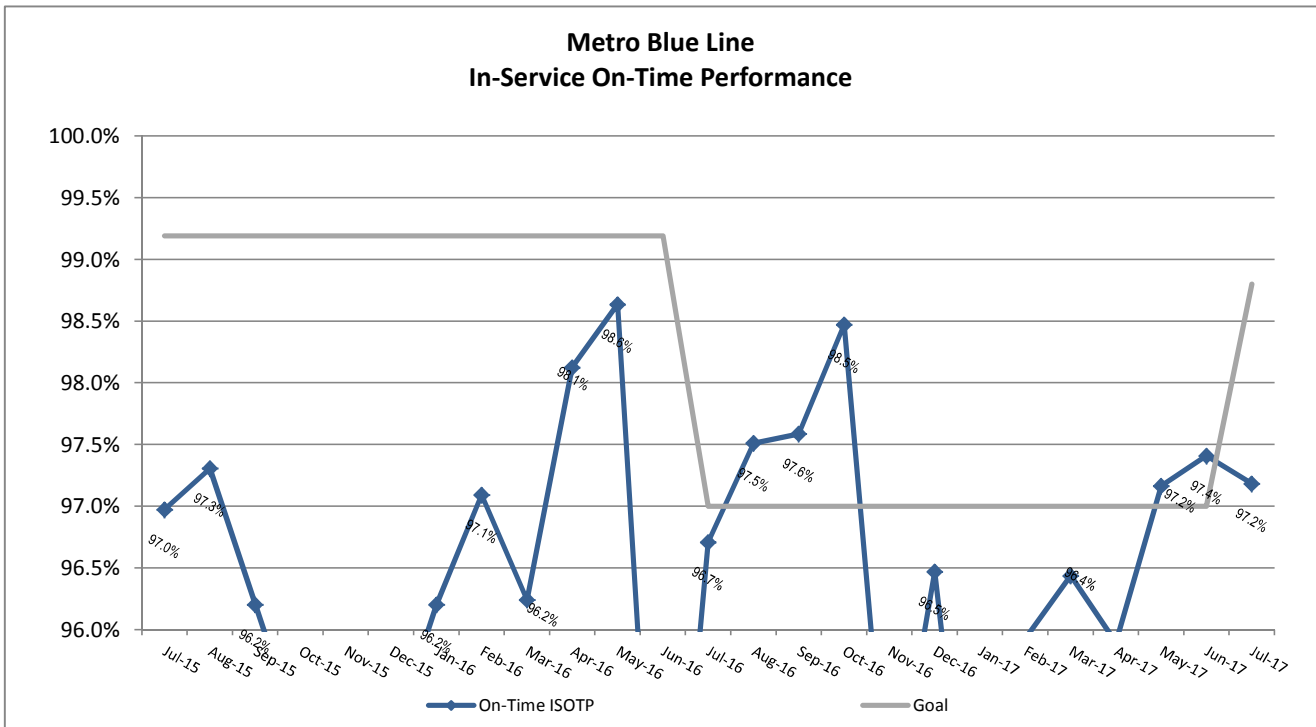
## COMPLIANCE WITH SCHEDULED TRAIN MILES



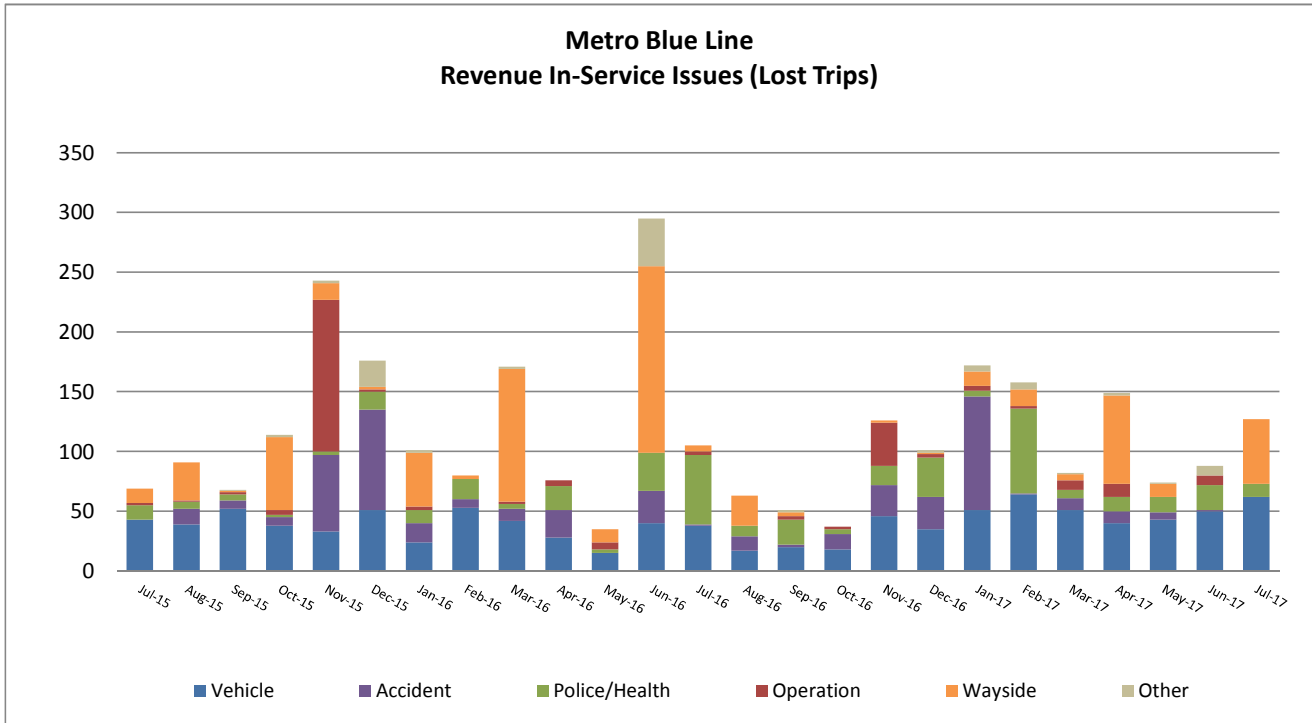
### ON-TIME PULL OUTS



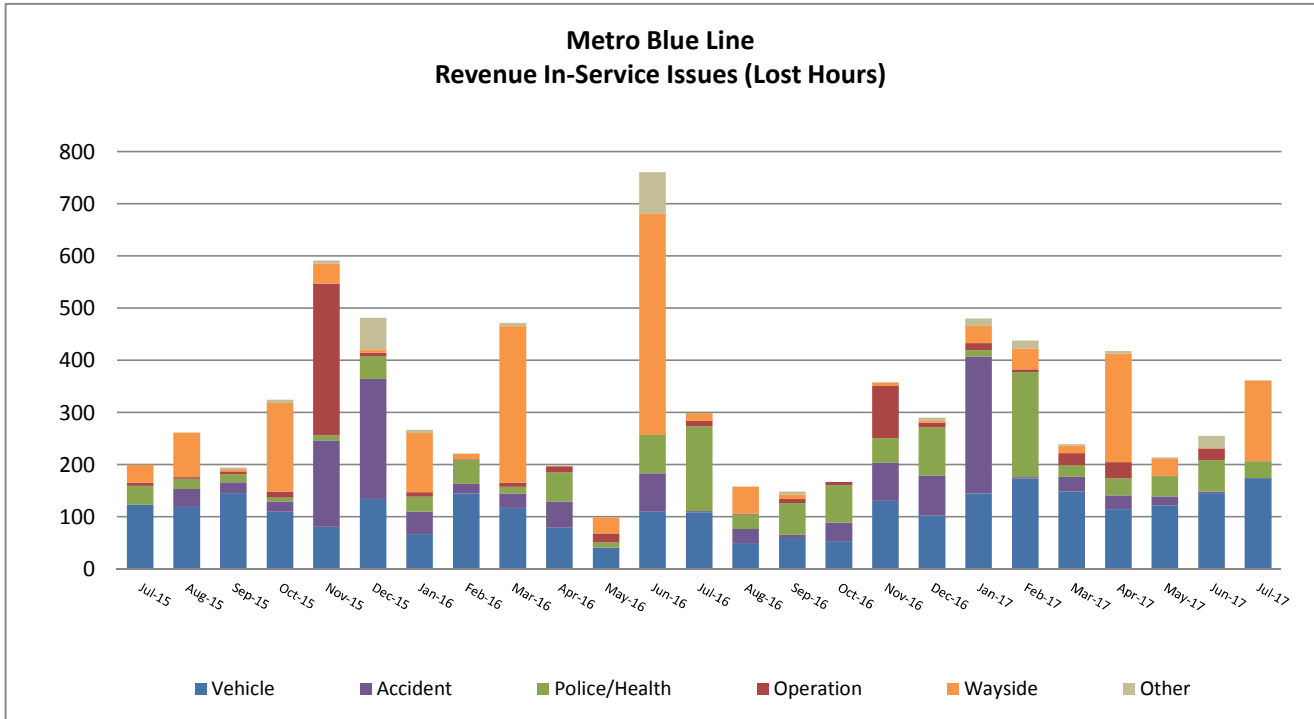
### IN-SERVICE ON-TIME PERFORMANCE CHART



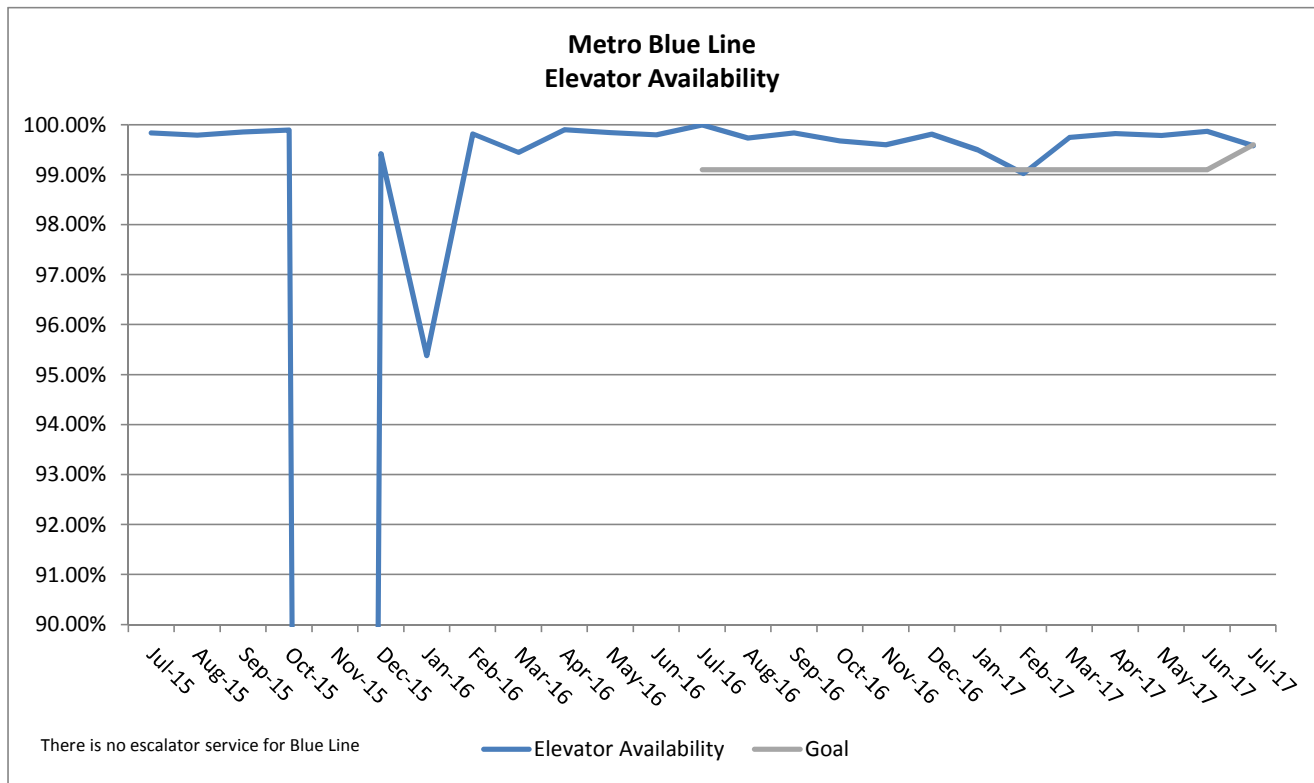
## LOST TRIPS



## LOST HOURS



## VERTICAL TRANSPORTATION AVAILABILITY



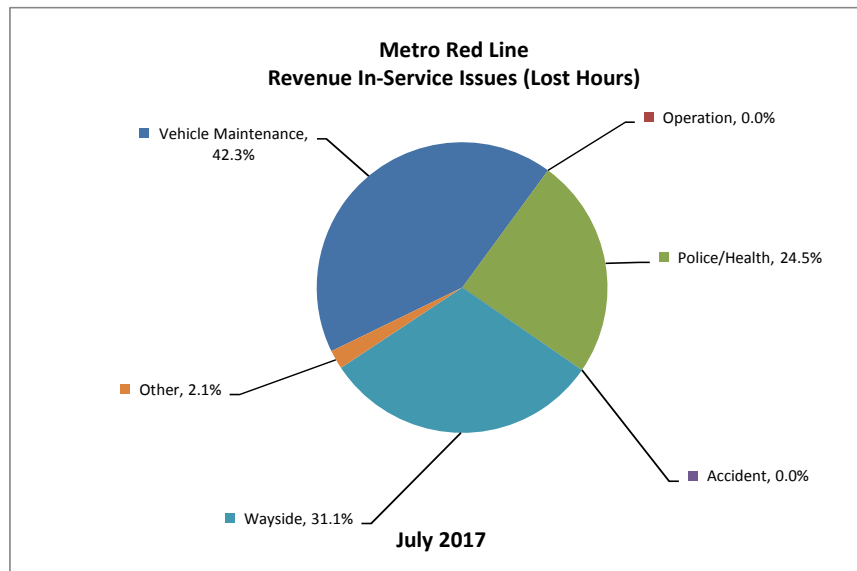
## RED LINE

Out of a total of 27,642 hours operated, there were approximately 98 total hours of service delays.

July 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	27,544	99.6%
Cancelled + Delayed Hours	98	0.4%
<b>Total Revenue Hours</b>	<b>27,642</b>	<b>100.0%</b>

Summary of the major contributors:	Count	Hours	Percent
Operations	0	0.0	0.0%
Accidents	0	0.0	0.0%
Vehicle Maintenance	9	41.3	42.3%
Wayside	3	30.3	31.1%
Police & Health	10	23.9	24.5%
Other	1	2.1	2.1%
<b>Total</b>	<b>23</b>	<b>97.6</b>	<b>100.0%</b>

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



## July 2017 Red Line major delay contributors were as follows:

### Operations Incidents:

#### Vehicle Maintenance Incidents:

**7/1/2017 12:00:00 PM - Incident# 2883118 (0 lost trips, 20 lost minutes)**

Recurring emergency brake application.

Train #202

T-329

Cars #553-554-581-582-547-(548).

E/Bound Hollywood Vine Interlocking.

**7/3/2017 5:01:00 AM - Incident# 2883474 (1 lost trip, 154 lost minutes)**

Train 203 reports no movement at Wilshire Vermont

T-7, Train 203

Track AL, East, WV

Cars 510/507/516/515

**7/8/2017 6:54:00 PM - Incident# 2885589 (0 lost trips, 10 lost minutes)**

Report of emergency brake won't released.

T-365

Train 202

Cars (503)-504-519-526-509-508

Union Station AR westbound.

**7/17/2017 8:37:00 PM - Incident# 2888742 (0 lost trips, 21 lost minutes)**

Reports Friction Brake applied on car 539.

T-199

Train 219

Vermont Beverly, AR, Westbound

Cars: (539) 540 567 568 585 586

**7/18/2017 4:18:00 AM - Incident# 2888799 (0 lost trips, 7 lost minutes)**

Emergency brake application Car # 565

Union Station AR Platform

Train # 210 T-10

Car # (565)-566-567-568-585-586

**7/18/2017 3:08:00 PM - Incident# 2889096 (5 lost trips, 766 lost minutes)**

Reports self applying friction brakes on car 509.

T-107

Train 216

Hollywood Western, AR, Westbound

Cars: (509) 508 517 518 513 514

**7/22/2017 1:48:00 PM - Incident# 2890601 (4 lost trips, 696 lost minutes)**

Reports door problem on car 529.

T-389

Train 206

Eastbound, AL, 7th Metro

Cars: 503 504 (529) 520 519 526

**7/23/2017 7:05:00 AM - Incident# 2890713 (1 lost trip, 174 lost minutes)**

TWilshire/Western Station BR Track, Train-206 T-145 cars 528/523/508/509/518/517 without vehicle fault indications and no movement.

**7/29/2017 6:50:00 PM - Incident# 2893116 (4 lost trips, 628 lost minutes)**

Doors not closing car # 533

Hollywood Highland AL East

Train # 202 T-544

Car # 539-540-(533)-534-573-574

**Wayside Incidents:**

**7/9/2017 4:05:00 PM - Incident# 2885779 (5 lost trips, 764 lost minutes)**  
Wilshire Western Interlocking switches out of correspondence

**7/17/2017 12:07:00 AM - Incident# 2888381 (0 lost trips, 10 lost minutes)**  
UPS 5201 N and 5202 N trip alarm North Hollywood.

**7/26/2017 7:17:00 PM - Incident# 2892105 (7 lost trips, 1,045 lost minutes)**  
Report of fire at the switch machine at Blue Line tail track 1.

**Police & Health Incidents:**

**7/6/2017 8:00:00 PM - Incident# 2884937 (2 lost trips, 311 lost minutes)**  
Report of a female patron having a seizure on car 510.

**7/6/2017 10:10:00 PM - Incident# 2884953 (0 lost trips, 4 lost minutes)**  
Report of a man with a hammer threatening private security officers on car 569.

**7/7/2017 2:45:00 PM - Incident# 2885233 (2 lost trips, 302 lost minutes)**  
Train 206 T-329 reports a passenger experiencing a seizure.

**7/10/2017 1:08:00 PM - Incident# 2886105 (0 lost trips, 12 lost minutes)**  
Train 201 T-179 reports a discharged of pepper spray onboard car 580.

**7/13/2017 12:52:00 PM - Incident# 2887322 (0 lost trips, 14 lost minutes)**  
Problem passenger onboard Train 207  
T-127, Train 207  
Track AR, West, 7th MC  
539-540-585-586-601-602

**7/14/2017 11:01:00 AM - Incident# 2887751 (0 lost trips, 9 lost minutes)**  
Elderly female patron reports being assaulted on train 203 at Westlake MacArthur Station

**7/17/2017 12:27:00 PM - Incident# 2888604 (4 lost trips, 612 lost minutes)**  
CCTV R-460 called Red Line Control reporting possible Suicidal Person at 7th/Metro Station on the AR east end of the platform.

**7/21/2017 1:30:00 AM - Incident# 2890136 (1 lost trip, 150 lost minutes)**  
1:30hrs. SCADA indicates CC ETSS0 with D-03, D-05 open then at 01:33hrs. CC ETS 49 activated with D-02, D-04 open AR/ALtracks deenergized between Civic Ctr and Union Station. Also immediately after the AL track deenergized. Train 219 impacted.

**7/27/2017 4:17:00 PM - Incident# 2892492 (0 lost trips, 12 lost minutes)**  
Report of altercation on board Train 215.

**7/27/2017 7:13:00 PM - Incident# 2892538 (0 lost trips, 10 lost minutes)**  
Train 217 (603,604,587,588,573,574) T-041 in approach to Hollywood Highland on the AL reports PIC report of altercation between 5-6 individuals.

**Other Incidents:**

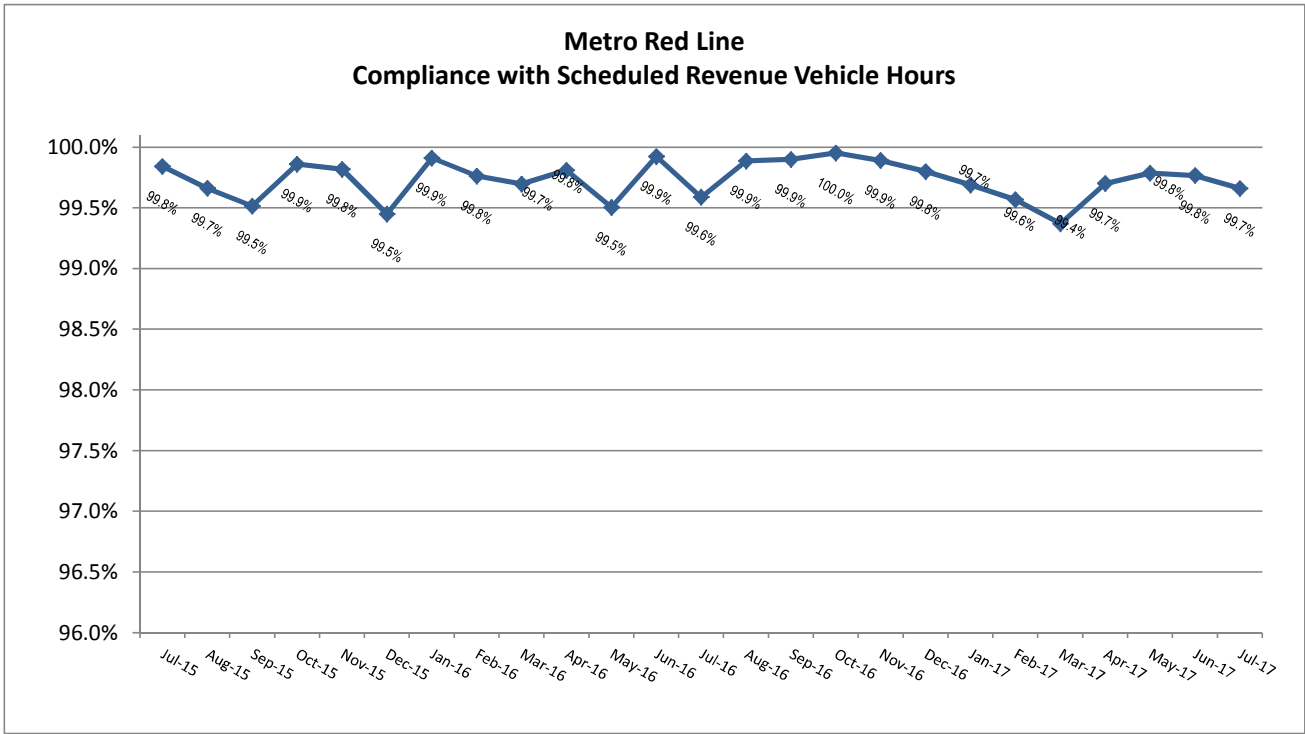
**7/16/2017 11:18:00 AM - Incident# 2888273 (1 lost trip, 123 lost minutes)**  
Operator reports he is too fatigued to operate.

Train # 203  
T-254  
Vermont/Beverly, track AR, westbound  
599 600 577 578

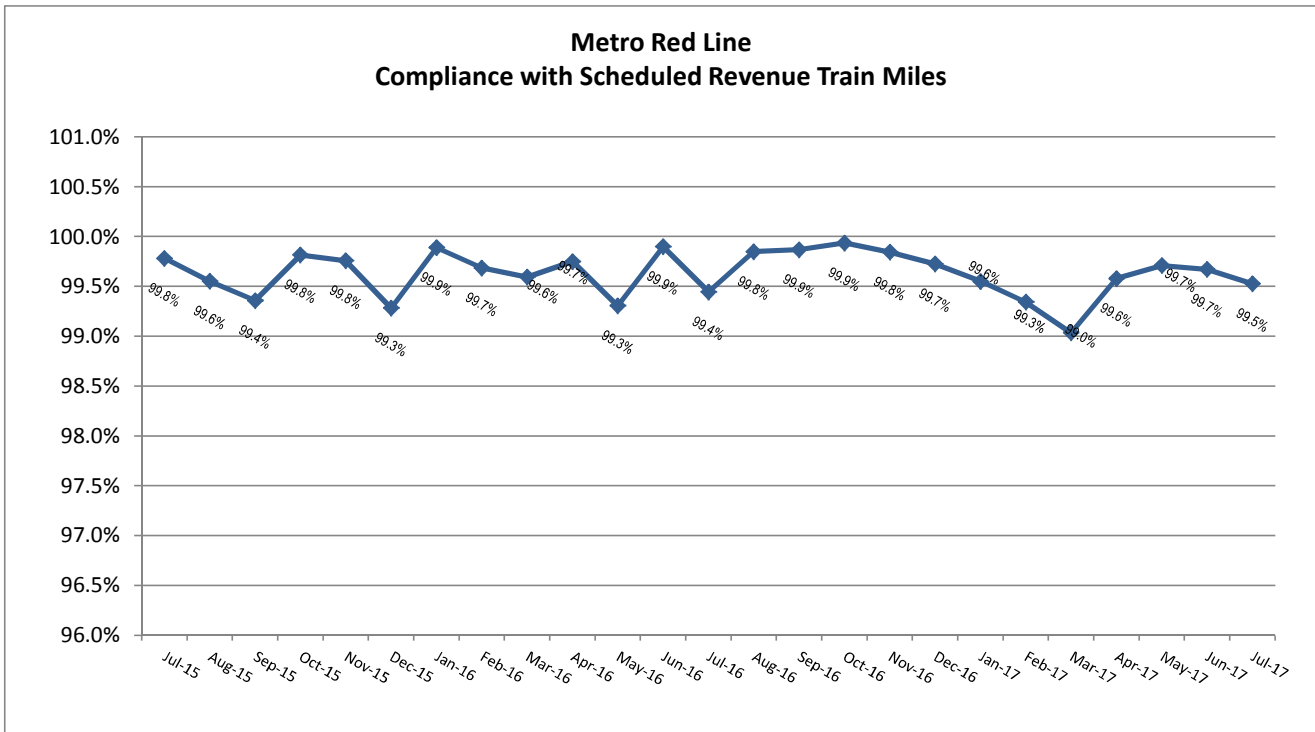


# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

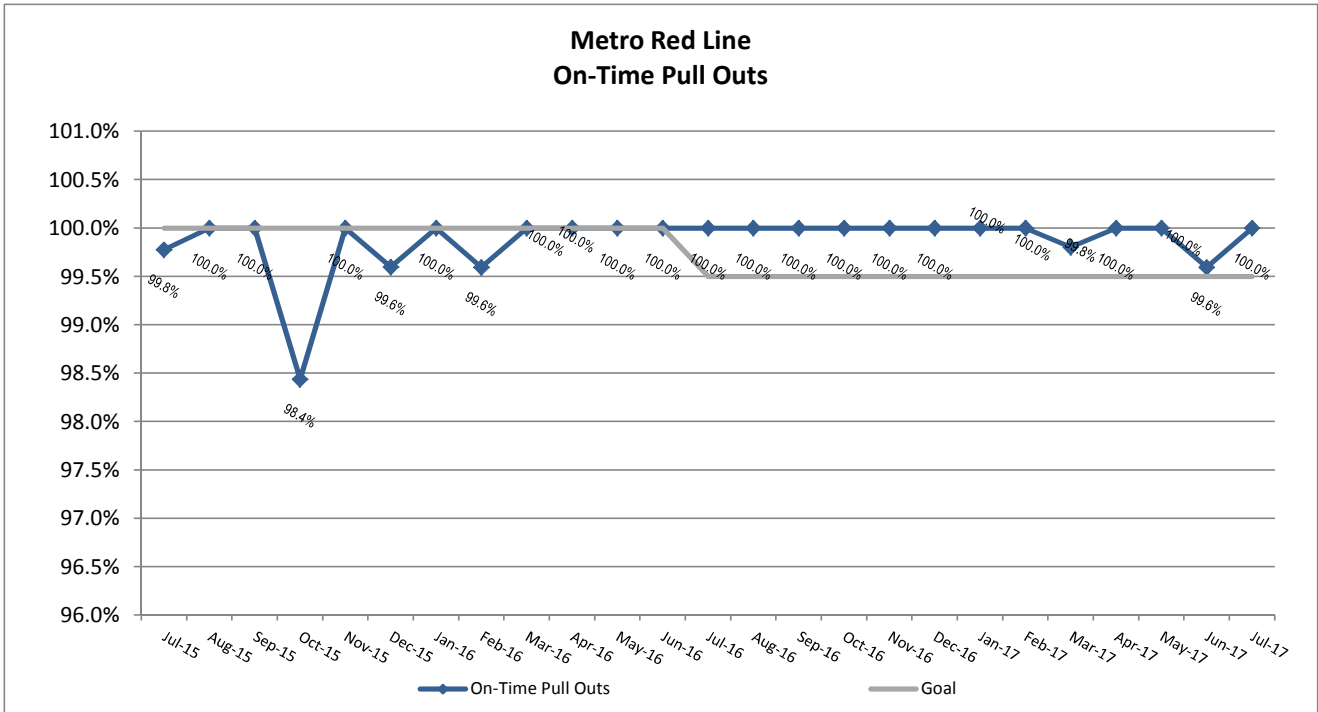
## COMPLIANCE WITH SCHEDULED VEHICLE HOURS



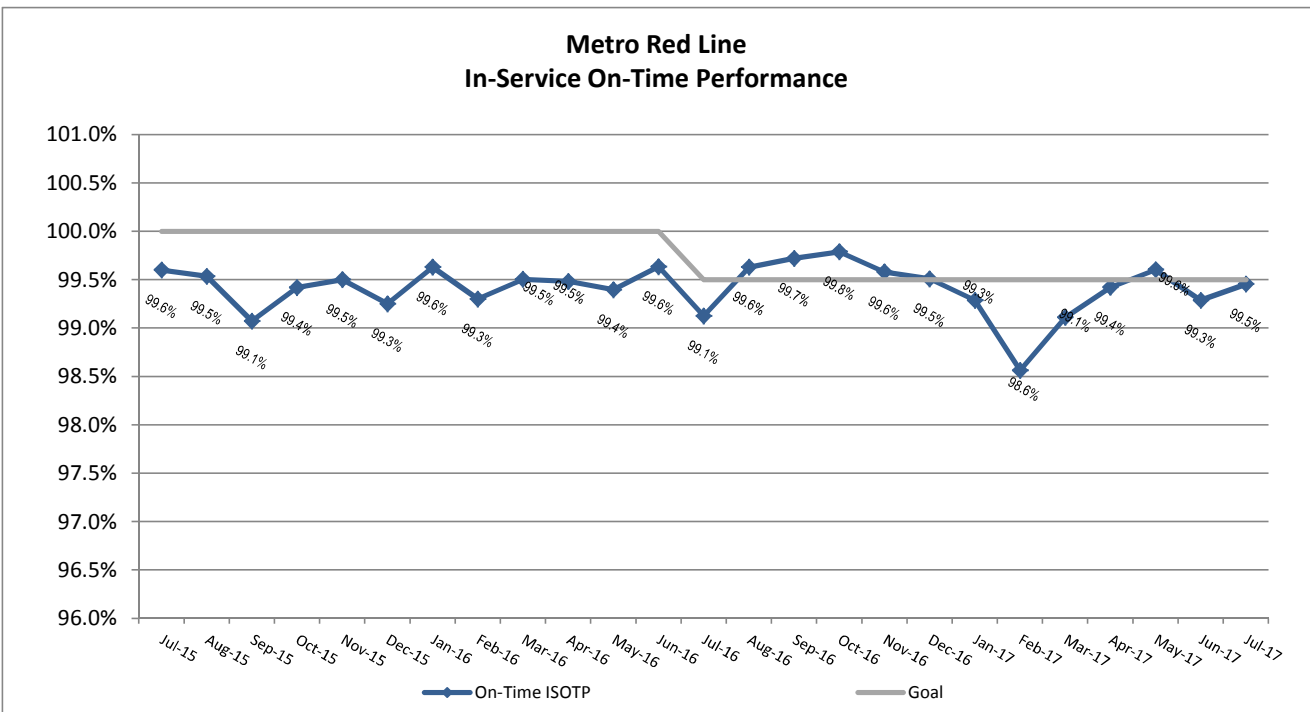
## COMPLIANCE WITH SCHEDULED TRAIN MILES



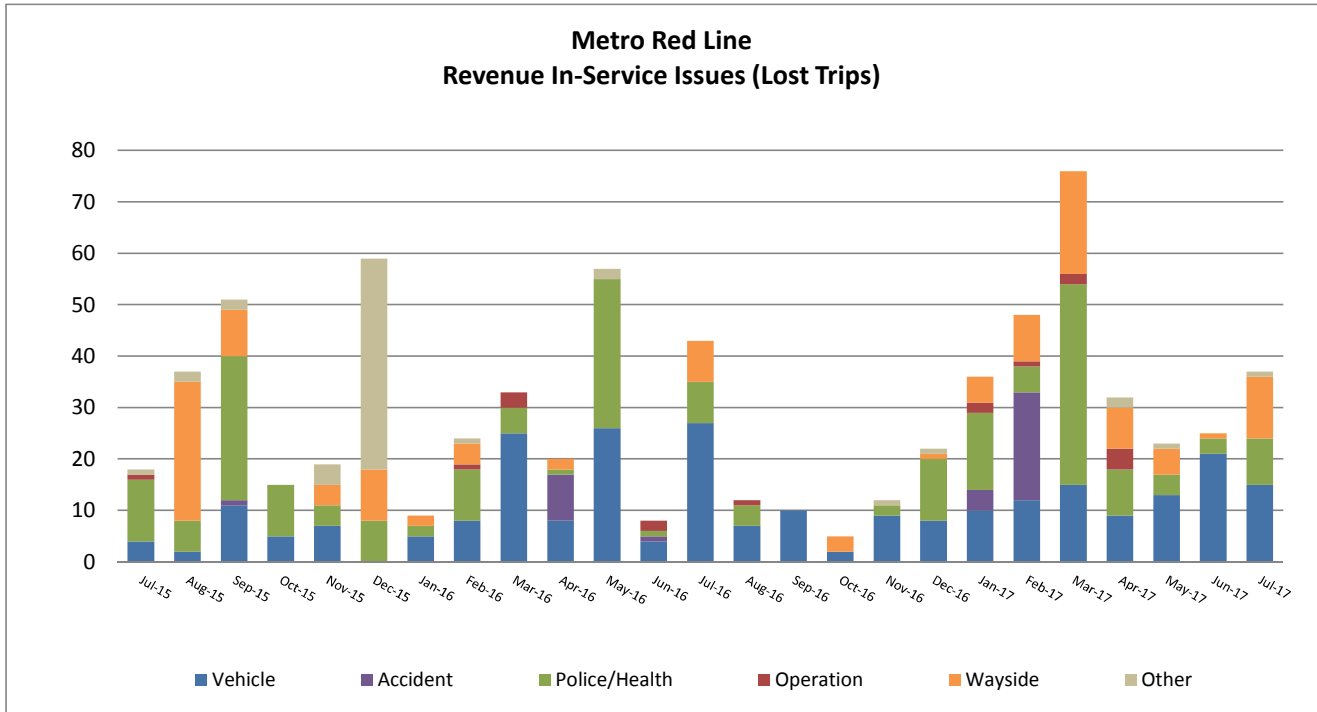
### ON-TIME PULL OUTS



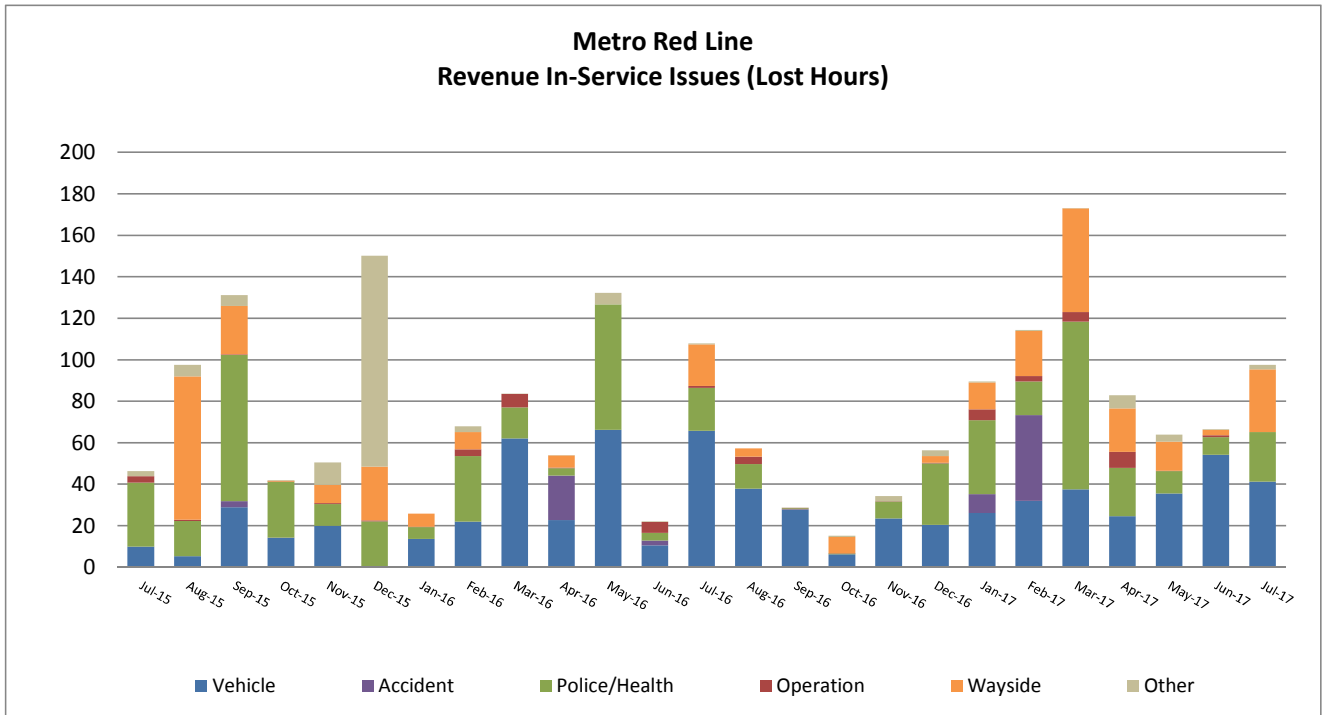
### IN-SERVICE ON-TIME PERFORMANCE



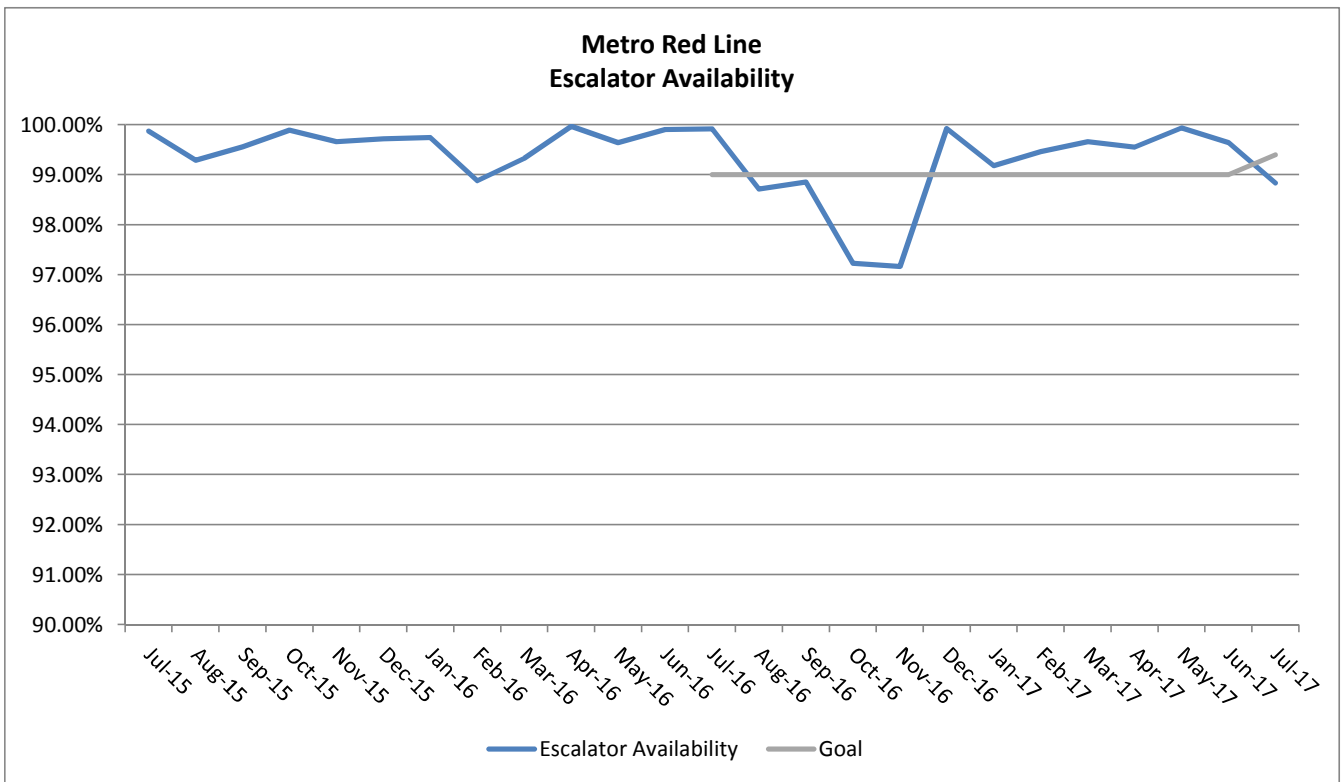
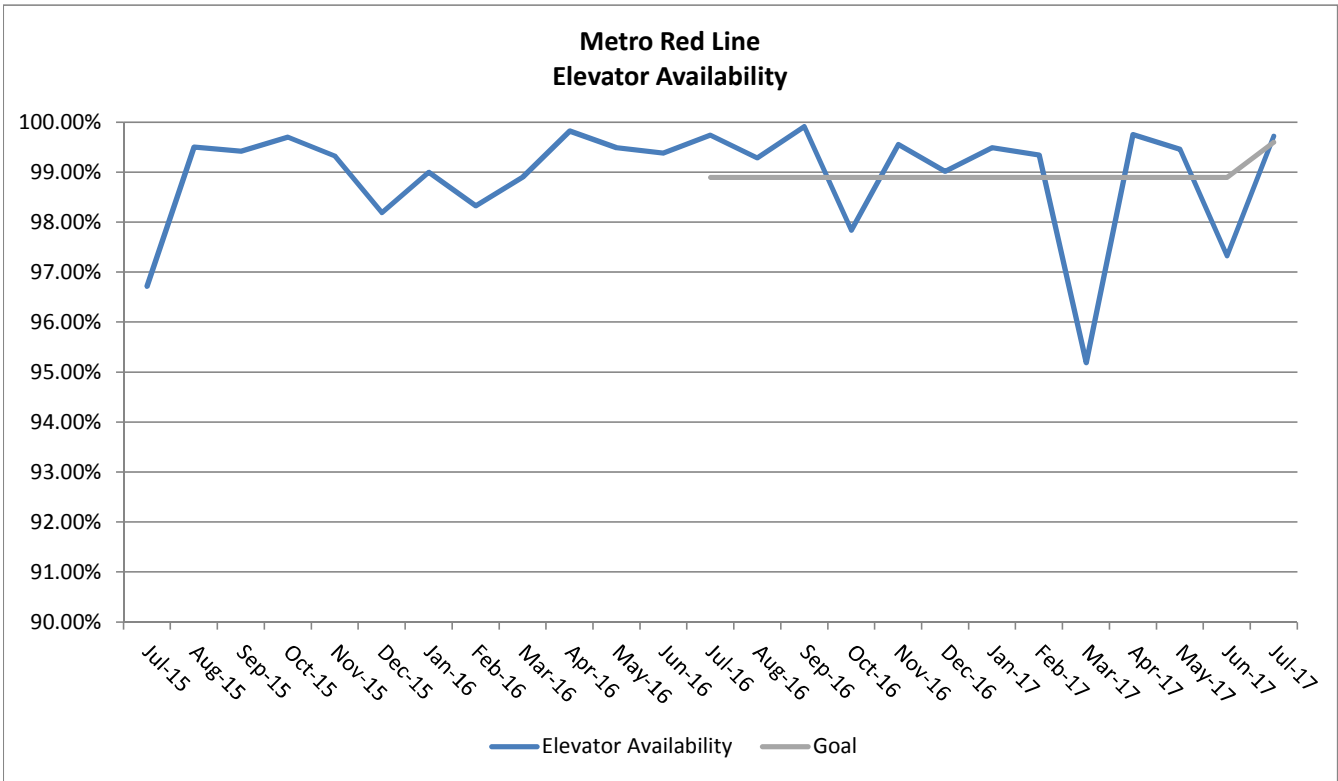
### LOST TRIPS



### LOST TRIPS



## VERTICAL TRANSPORTATION AVAILABILITY



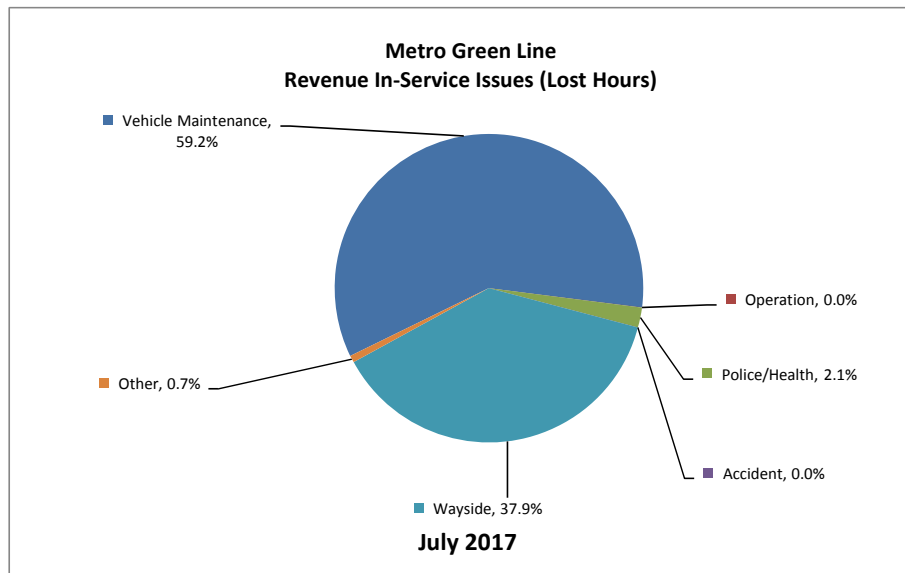
## GREEN LINE

Out of a total of 8,158 hours operated, there were approximately 18 total hours of service delays.

July 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	8,140	99.8%
Cancelled + Delayed Hours	18	0.2%
<b>Total Revenue Hours</b>	<b>8,158</b>	<b>100.0%</b>

Summary of the major contributors:	Count	Hours	Percent
Operations	0	0.0	0.0%
Accidents	0	0.0	0.0%
Vehicle Maintenance	11	10.4	59.2%
Wayside	2	6.7	37.9%
Police & Health	2	0.4	2.1%
Other	1	0.1	0.7%
<b>Total</b>	<b>16</b>	<b>17.6</b>	<b>100.0%</b>

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



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

### Operations Incidents:

#### Vehicle Maintenance Incidents:

**7/3/2017 7:23:00 PM - Incident# 2883874 (0 lost trips, 15 lost minutes)**

Train 345, LRV's 207B & 205.  
Harbor Station, Track 2 eastbound.  
ATP failure and no movement.

**7/6/2017 4:44:00 PM - Incident# 2884885 (2 lost trips, 132 lost minutes)**

Spin/Slide fault on car 224A  
Train 334  
(224A)-212  
T-85  
Norwalk Station

**7/6/2017 5:34:00 PM - Incident# 2884917 (2 lost trips, 132 lost minutes)**

Train 343 reported a Propulsion Fault with Speed restriction.  
Train 343  
(223)-222  
T-57  
Crenshaw Station Track #2. Eastbound.

**7/6/2017 5:36:00 PM - Incident# 2884913 (1 lost trip, 66 lost minutes)**

Train 331 the doors on the trailing car did not open. at Marine Station Platform #2.  
Train 331  
(220)-216  
T-136  
Marine Station Track #2 Eastbound.

**7/7/2017 5:51:00 AM - Incident# 2885032 (2 lost trips, 129 lost minutes)**

Train 332, LRV's (218A) and 210.  
Norwalk Station. Platform 1 westbound.  
Prop fault unclearable with speed restriction.

**7/10/2017 8:15:00 AM - Incident# 2885934 (0 lost trips, 7 lost minutes)**

Propulsion / Dynamic Brakes, cars #(218A)-219  
Train #340  
T-202  
Norwalk Station, Track #001, Westbound.

**7/16/2017 2:04:00 PM - Incident# 2888305 (1 lost trip, 62 lost minutes)**

ADU is dark  
Train 334  
T-96  
Cars (206B)-220  
Marine station track 2 Eastbound

**7/24/2017 7:16:00 AM - Incident# 2890951 (0 lost trips, 5 lost minutes)**

Operator T-458 reports of not being able to get cab signal.  
Train 341  
T-40  
Cars (225)-201  
Norwalk Station, Track 1, Westbound

**7/24/2017 3:28:00 PM - Incident# 2891155 (0 lost trips, 3 lost minutes)**

Train 342  
Car 226A  
Marine Station  
Eastbound  
No Cab Signal

**7/25/2017 9:47:00 AM - Incident# 2891409 (0 lost trips, 10 lost minutes)**

Last doors won't close on car (215B doors 1/2).

Train # 331  
T-40  
Wilmington, track #1, westbound  
203 (215B doors 1/2)

**7/27/2017 6:52:00 AM - Incident# 2892223 (1 lost trip, 66 lost minutes)**

Unclearable propulsion faultt

Train 338

T-202

243-205

Mariposa Trk 2

**Wayside Incidents:**

**7/6/2017 5:36:00 PM - Incident# 2884908 (0 lost trips, 6 lost minutes)**

Traction Power requested to open B12 at Hawthorne

TPSS to perform breaker maintenance. B14 at Aviation TPSS did not back feed the line. Arinc indicates de-energized track 1 at Hawthorne.

**7/11/2017 11:41:00 AM - Incident# 2886467 (6 lost trips, 395 lost minutes)**

Switch #7 at Vermont east interlocking out of correspondence.

**Police & Health Incidents:**

**7/19/2017 2:51:00 PM - Incident# 2889523 (0 lost trips, 7 lost minutes)**

Operator reports altercation on the platform which ended up on the track at Vermont Station, track #2.

Train # 343

T-55

Vermont, track #2, eastbound

219 206

**7/23/2017 3:27:00 PM - Incident# 2890795 (0 lost trips, 15 lost minutes)**

Patron Threatening other patrons

Train 331

T-20

Cars 202-214

Harbor station East bound

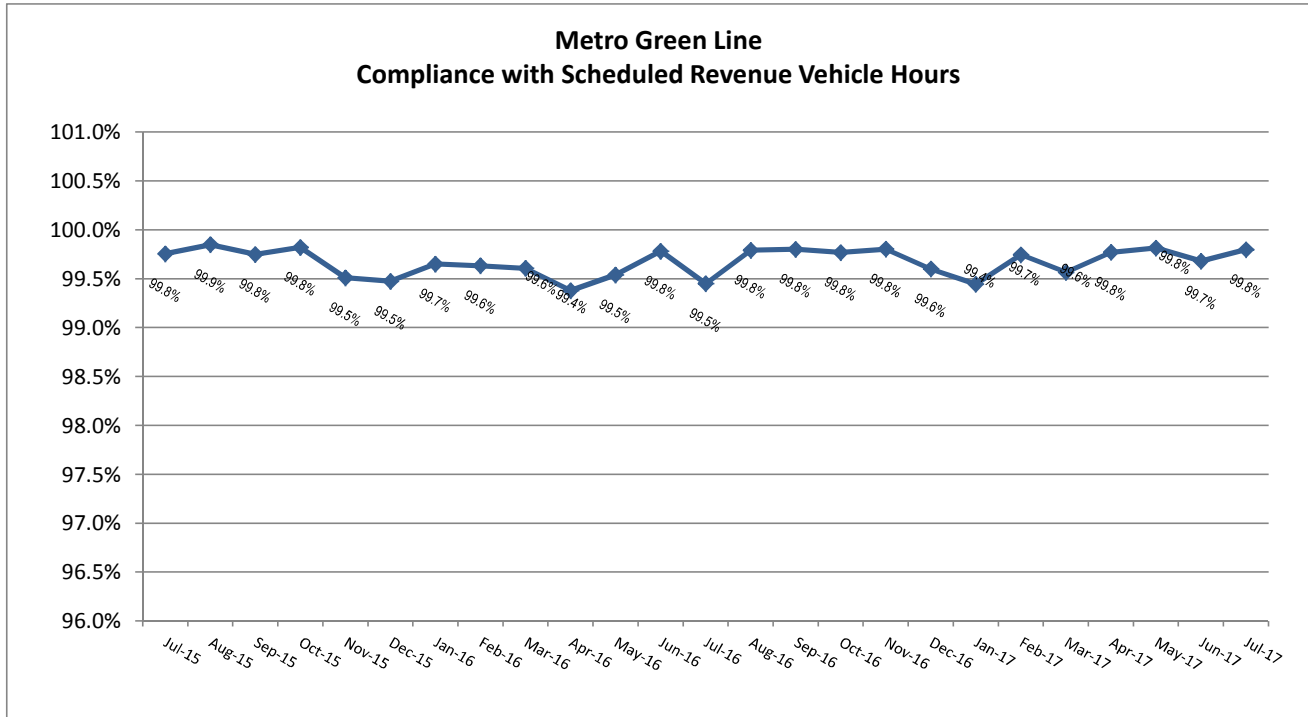
**Other Incidents:**

**7/3/2017 5:16:00 AM - Incident# 2883477 (0 lost trips, 8 lost minutes)**

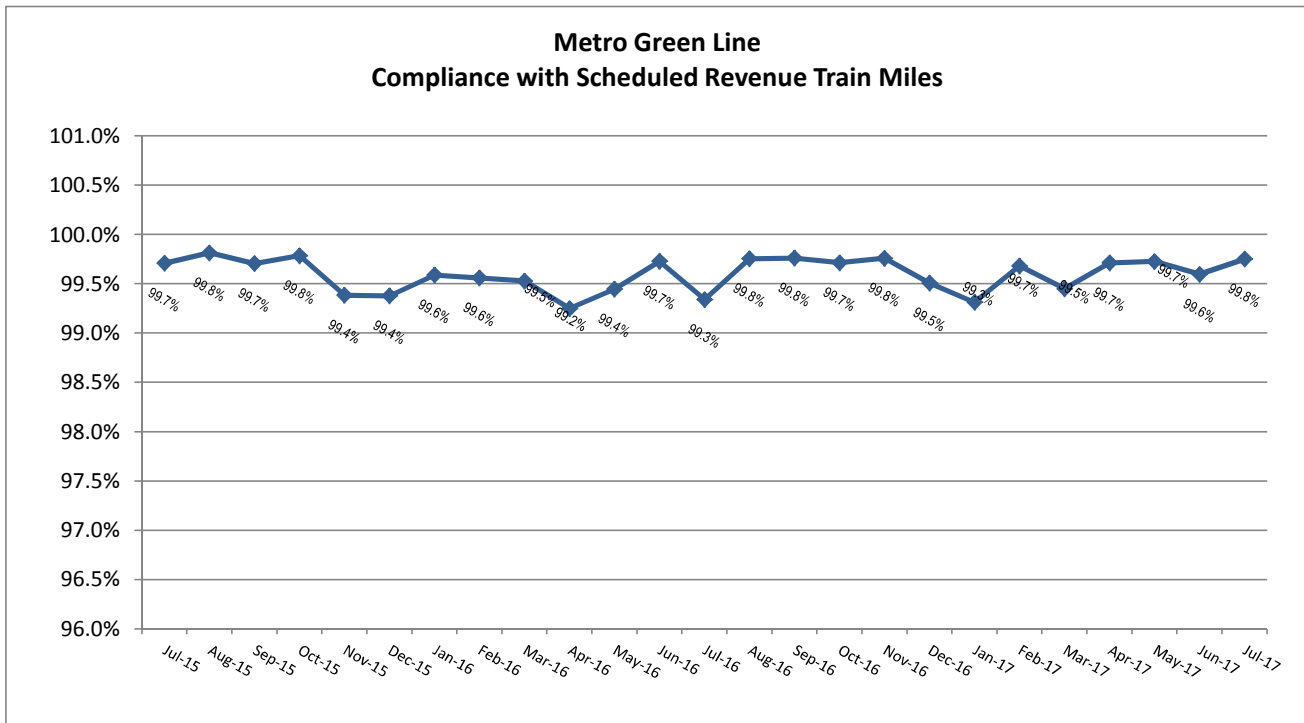
Sleepers aboard trains (LASD must remove from train) at Willowbrook Station

# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

## COMPLIANCE WITH SCHEDULED VEHICLE HOURS

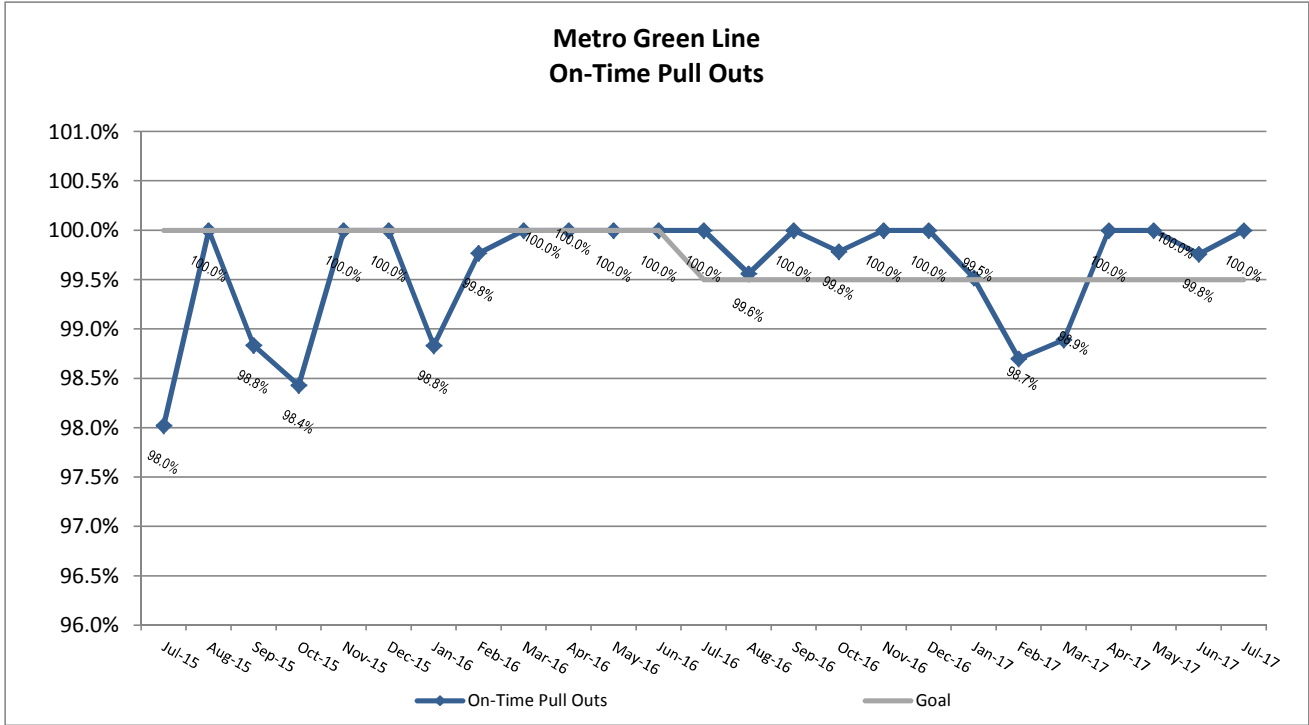


## COMPLIANCE WITH SCHEDULED TRAIN MILES

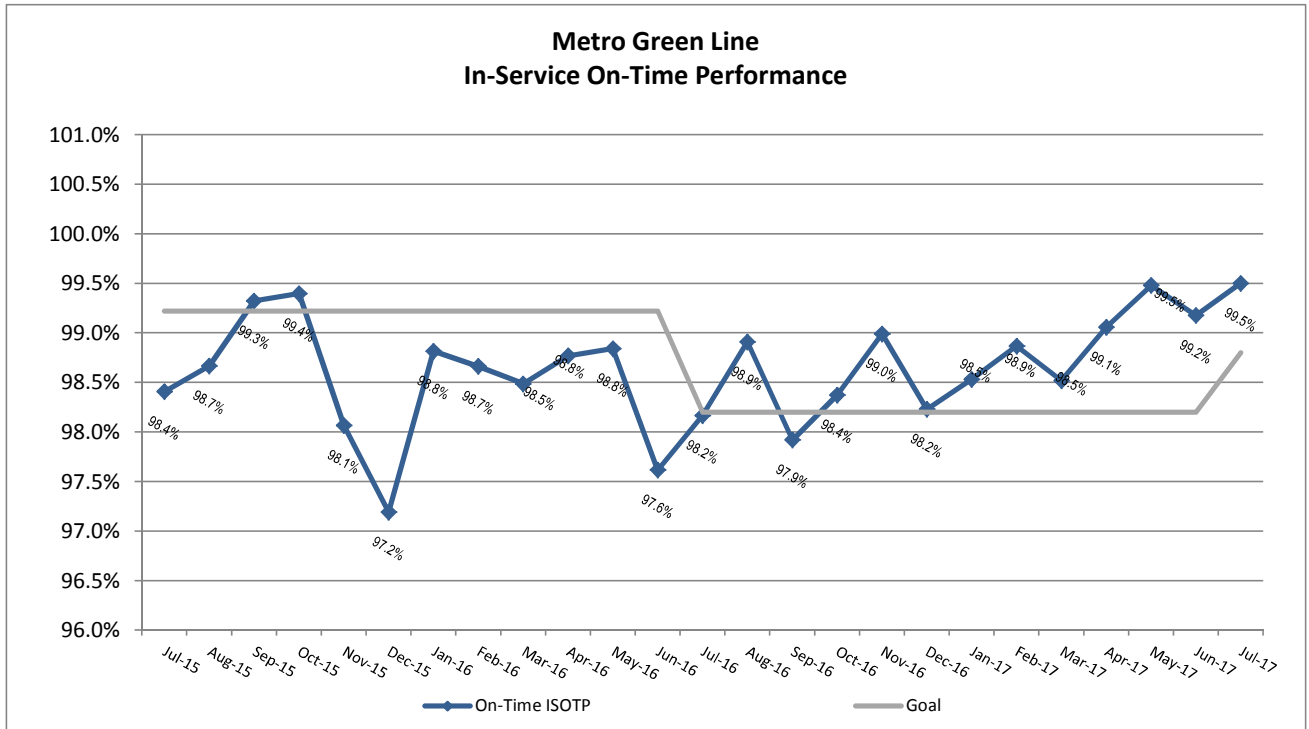




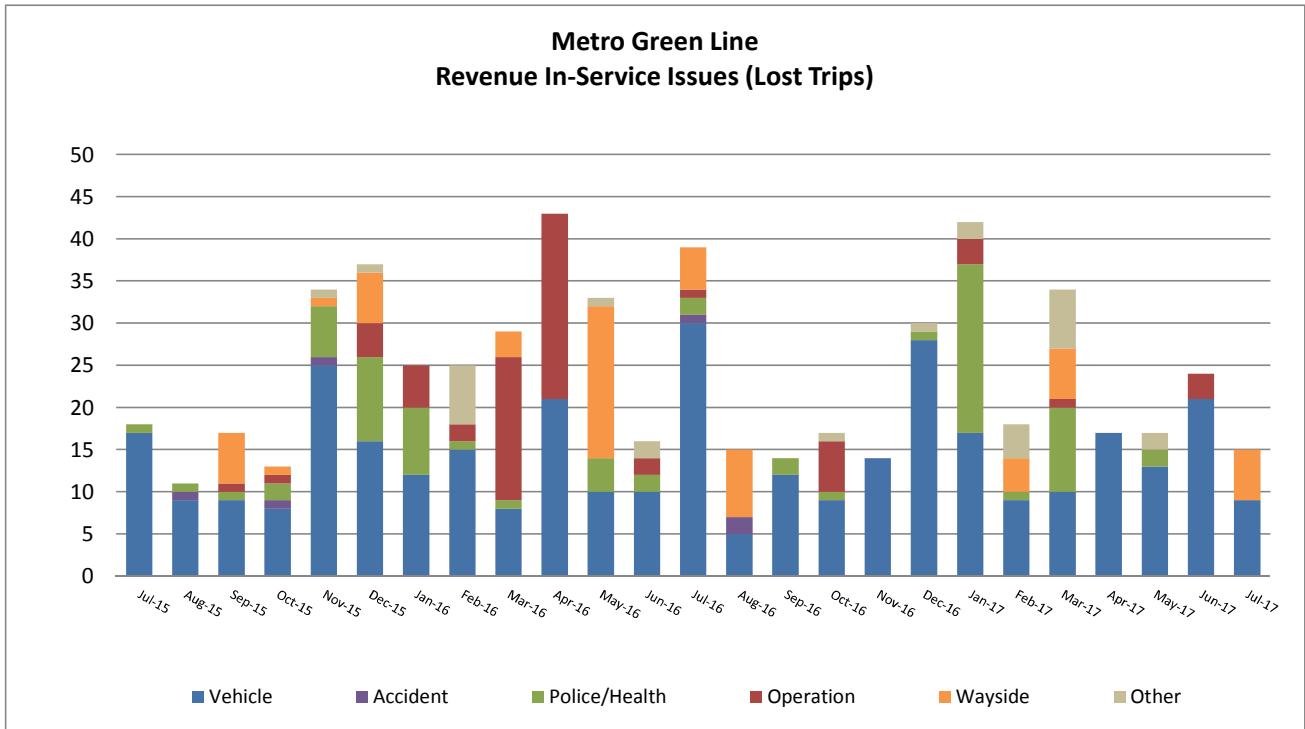
## ON-TIME PULL OUTS



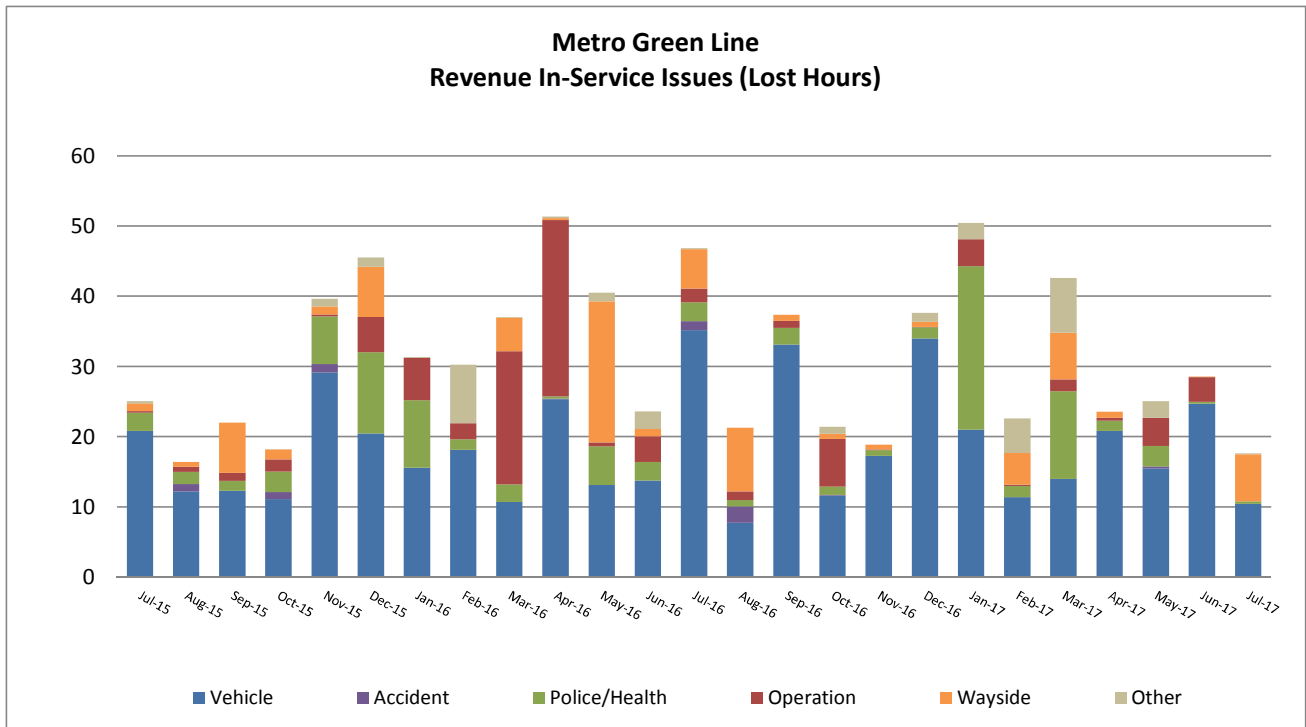
## IN-SERVICE ON-TIME PERFORMANCE



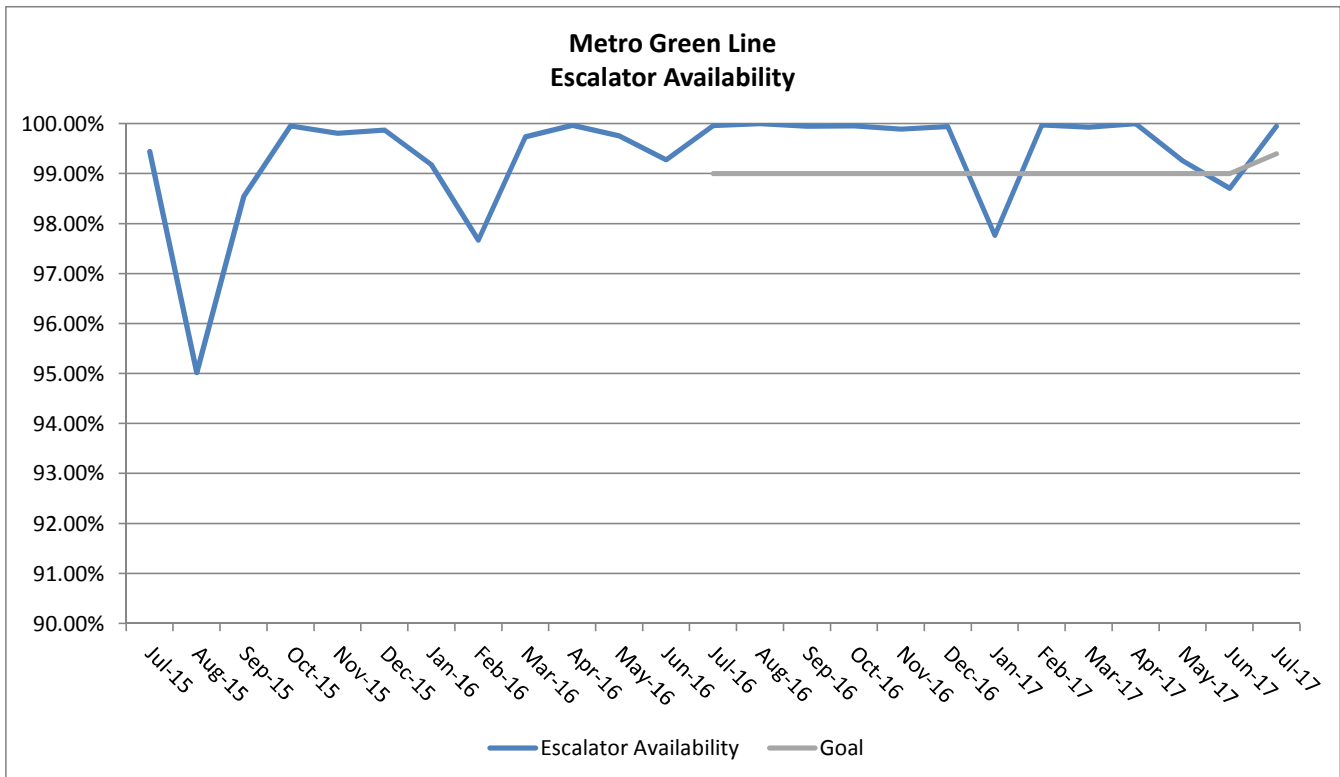
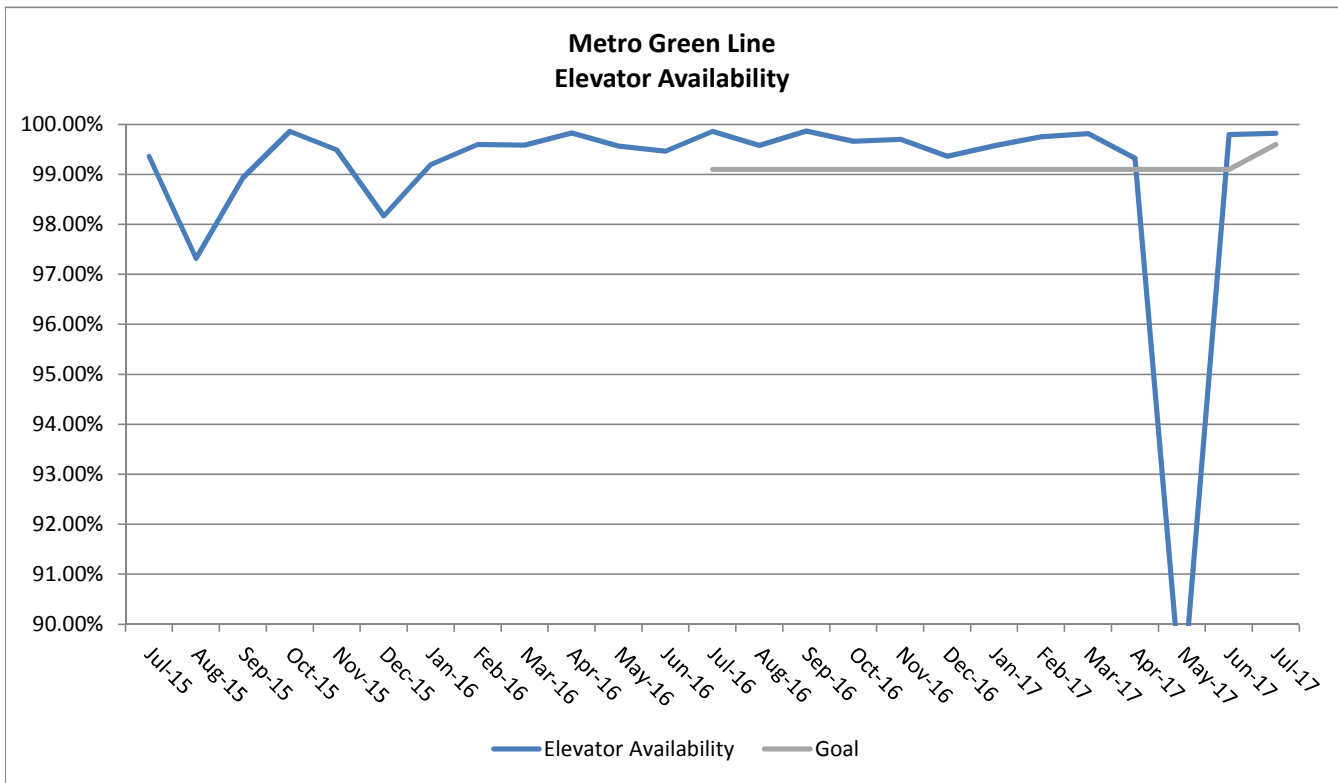
## LOST TRIPS



## LOST HOURS



## VERTICAL TRANSPORTATION AVAILABILITY



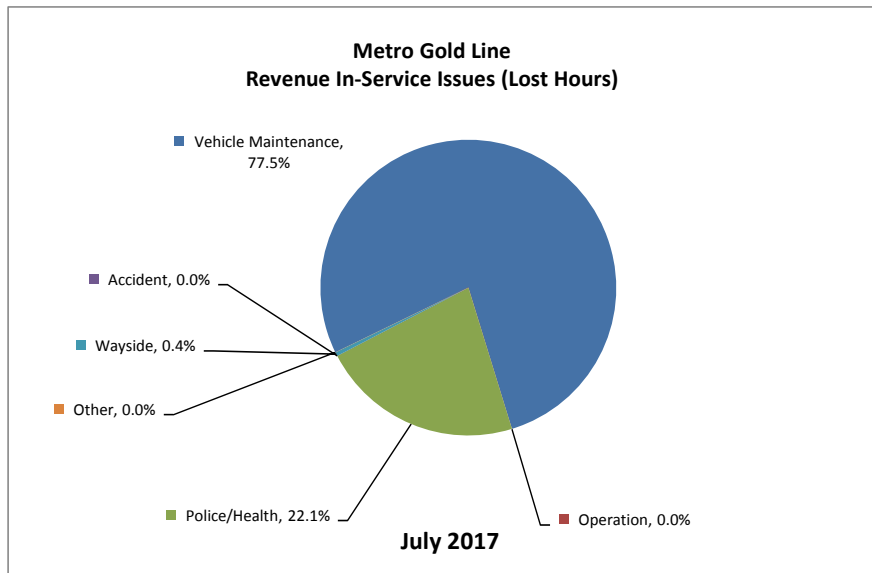
## GOLD LINE

Out of a total of 20,276 hours operated, there were approximately 148 total hours of service delays.

July 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	20,128	99.3%
Cancelled + Delayed Hours	148	0.7%
<b>Total Revenue Hours</b>	<b>20,276</b>	<b>100.0%</b>

Summary of the major contributors:	Count	Hours	Percent
Operations	0	0.0	0.0%
Accidents	0	0.0	0.0%
Vehicle Maintenance	24	114.7	77.5%
Wayside	2	0.6	0.4%
Police & Health	5	32.7	22.1%
Other	0	0.0	0.0%
<b>Total</b>	<b>31</b>	<b>148.0</b>	<b>100.0%</b>

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



## July 2017 Gold Line major delay contributors were as follows:

### Vehicle Maintenance Incidents:

**7/1/2017 6:21:00 PM - Incident# 2883225 (1 lost trip, 224 lost minutes)**

Smoking brakes  
T-267  
Cars (723b), 727  
SB, South Pasadena Station, Track 2

**7/2/2017 8:54:00 PM - Incident# 2883425 (1 lost trip, 229 lost minutes)**

Rear pantograph of consist 719(736) has come down.  
Alameda Interlocking  
Train #402, T-466, track #1, northbound.

**7/3/2017 8:18:00 AM - Incident# 2883614 (1 lost trip, 242 lost minutes)**

Propulsion failure  
Train 407  
T-11  
Track 1 north Lincoln Cypress  
743 740 (733)

**7/3/2017 6:55:00 PM - Incident# 2883866 (0 lost trips, 8 lost minutes)**

ATP fault - no movement, cab 1059B  
Train 430  
T-106  
Consist 1059-1006  
Citrus - APU, Track 2 southbound

**7/6/2017 1:30:00 PM - Incident# 2884840 (1 lost trip, 262 lost minutes)**

LVPS failure (702)704.  
Southwest Museum Station  
Train #451, T-106, Track #2, southbound.

**7/6/2017 1:51:00 PM - Incident# 2884884 (2 lost trips, 484 lost minutes)**

Propulsion fault consist 1009(1007)1012.  
South Pasadena Station  
Train #406, T-35, track #2, southbound.

**7/6/2017 2:50:00 PM - Incident# 2884932 (0 lost trips, 18 lost minutes)**

Unable to close doors (738)(718).  
Allen Station  
Train #455, T-382, track #1, northbound.

**7/6/2017 4:12:00 PM - Incident# 2884893 (2 lost trips, 484 lost minutes)**

Propulsion fault (736)706.  
Duarte Station  
Train #406, T-106, track #2, southbound.

**7/16/2017 5:58:00 AM - Incident# 2888227 (0 lost trips, 5 lost minutes)**

Aux power (AC or MA Fault), cars (720)-746  
Train #413  
T-453  
Azusa/Citrus Station, Track #002, Southbound.

**7/16/2017 4:45:00 PM - Incident# 2888334 (1 lost trip, 224 lost minutes)**

Doors cut out, but would not stay closed

**7/17/2017 5:44:00 AM - Incident# 2888417 (2 lost trips, 483 lost minutes)**

Reports of no AC with a speed restriction  
Train # 412  
T-39  
(1055)-1011  
Arcadia Station, Track #2, SB

**7/18/2017 4:45:00 AM - Incident# 2888801 (1 lost trip, 241 lost minutes)**

Reports of HSCB fault with no Movement  
Train #452  
T-109  
(711)-709  
Atlantic Station, Track #1, NB

**7/18/2017 7:20:00 PM - Incident# 2889157 (0 lost trips, 6 lost minutes)**

Recurring ATP failure (704B)702.  
Pico Aliso Station  
Train #451, T-457, track #1, northbound.

**7/20/2017 2:51:00 PM - Incident# 2890020 (0 lost trips, 10 lost minutes)**

LVPS fault on car (701)  
Train # 451  
T-470  
Monrovia, track #1, northbound  
708 (701)

**7/21/2017 2:18:00 PM - Incident# 2890376 (0 lost trips, 5 lost minutes)**

734 Prop fault with 35mph speed restriction  
Train 422  
T-129  
Tk 2 SB Allen  
734-721-748

**7/21/2017 6:27:00 PM - Incident# 2890468 (5 lost trips, 1,288 lost minutes)**

LVPS/APS fault 1006  
Train 429  
T-441  
Tk 2 SB Temple/Alameda  
1006-1058

**7/21/2017 8:20:00 PM - Incident# 2890485 (4 lost trips, 1,028 lost minutes)**

Prop fault with speed restriction of 35mph on 722  
Train 421  
T-215  
Tk 2 SB Lake Station  
747-722-737

**7/23/2017 8:21:00 AM - Incident# 2890720 (2 lost trips, 594 lost minutes)**

Train 402 was reported by another operator to have smoke coming from the intermediate car 718.  
Train 402  
T-501  
Tk 1 NB SMV  
713-718-717

**7/24/2017 3:17:00 PM - Incident# 2891157 (0 lost trips, 7 lost minutes)**

Friction brake fault (708B)740,722.  
Atlantic tail track  
Train #430, T-205, track #1, northbound.

**7/26/2017 12:55:00 PM - Incident# 2891922 (1 lost trip, 249 lost minutes)**

Smoking brakes 718B  
  
Train 406  
T-106  
Tk 1 NB Sierra Madre  
718-740

**7/28/2017 7:45:00 PM - Incident# 2892878 (1 lost trip, 241 lost minutes)**

736-(716)-727  
Burining Smell  
NB Indiana Station  
T-186  
Train 428

**7/29/2017 5:50:00 AM - Incident# 2892920 (0 lost trips, 6 lost minutes)**

Reports of friction brake faults.  
Train # 405  
T-341  
(717B)-745-746  
Civic Center, Track #2, SB

**7/29/2017 1:53:00 PM - Incident# 2893076 (1 lost trip, 302 lost minutes)**

Middle Car 748A prop fault/speed restricted.  
T-66  
Train 409  
Cars 743-(748A)-746  
Arcadia Station, Track 2, southbound.

**7/31/2017 10:50:00 PM - Incident# 2893732 (1 lost trip, 241 lost minutes)**

Cab 727b cab door will not unlock, operator unable to enter.

Train 421

T-151

Consist 727-737

Atlantic terminal

**Wayside Incidents:**

**7/2/2017 8:07:00 AM - Incident# 2883290 (0 lost trips, 7 lost minutes)**

Fairview TPSS B-15 tripped.

**7/15/2017 11:33:00 PM - Incident# 2888198 (0 lost trips, 30 lost minutes)**

Signal ELOX alarm Citrus station.

**Police & Health Incidents:**

**7/3/2017 12:53:00 PM - Incident# 2883732 (0 lost trips, 15 lost minutes)**

Trespasser reported on the ROW between Baker and Lincoln.

**7/6/2017 7:55:00 AM - Incident# 2884618 (6 lost trips, 1,453 lost minutes)**

Arroyo Verde crossing vehicle blocking both tracks.

**7/14/2017 1:57:00 PM - Incident# 2887818 (1 lost trip, 246 lost minutes)**

Elderly male and his dog attempting to access station via track #2 at Little Tokyo. Train # 405 unable to proceed.

Train # 405

T-207

Little Tokyo, track #2, southbound

1009 1010

**7/20/2017 4:15:00 PM - Incident# 2890046 (0 lost trips, 9 lost minutes)**

Report of a male masturbator on car (729).

Train #426

T-151

Indiana Station, track #2, southbound

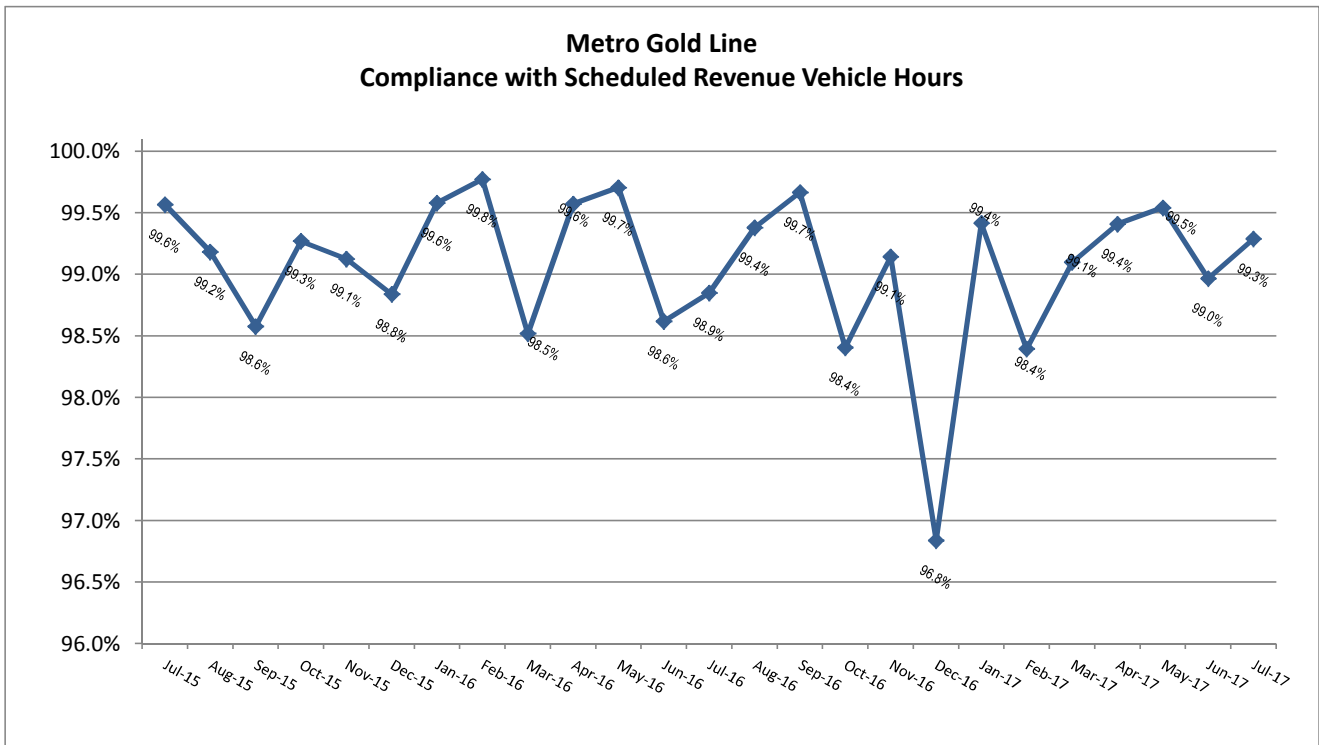
(729) 747

**7/31/2017 11:51:00 AM - Incident# 2893547 (1 lost trip, 241 lost minutes)**

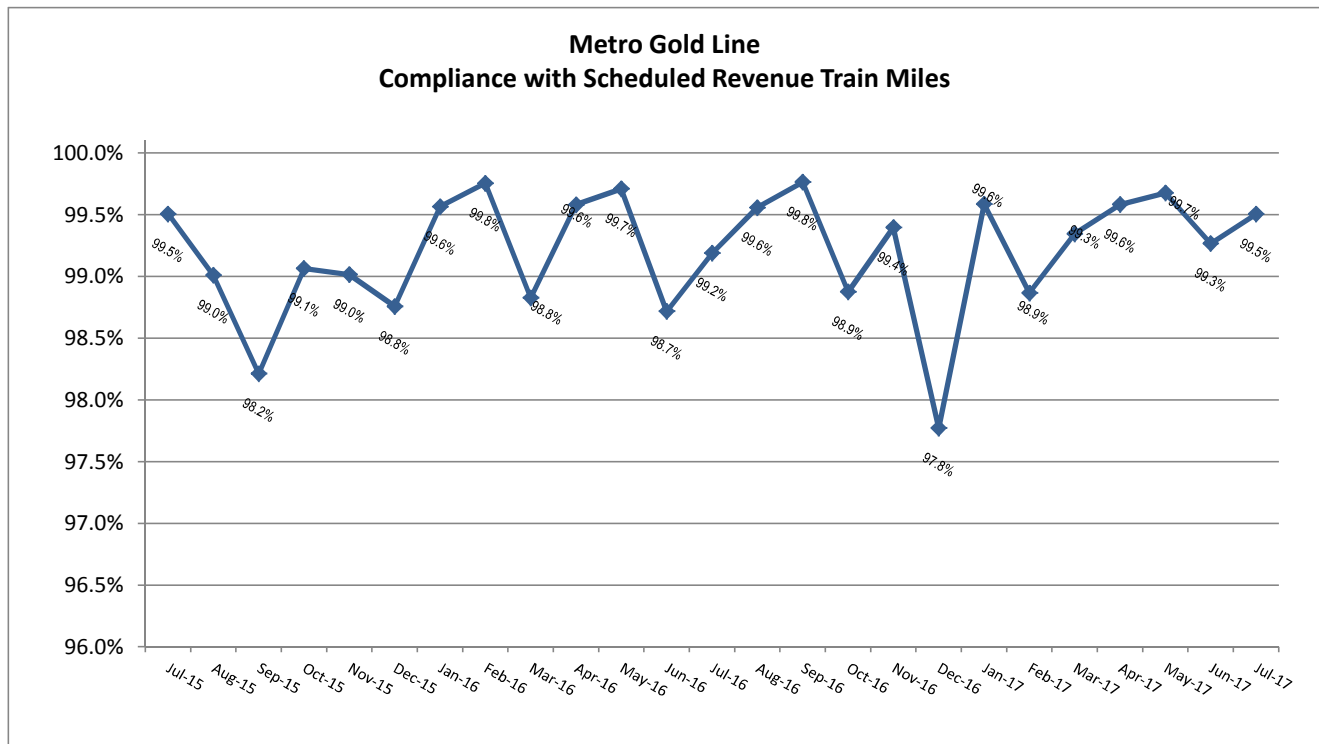
Female patron suffered a seizure onboard train 451 car 703B at Union Station.

# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

## COMPLIANCE WITH SCHEDULED VEHICLE HOURS

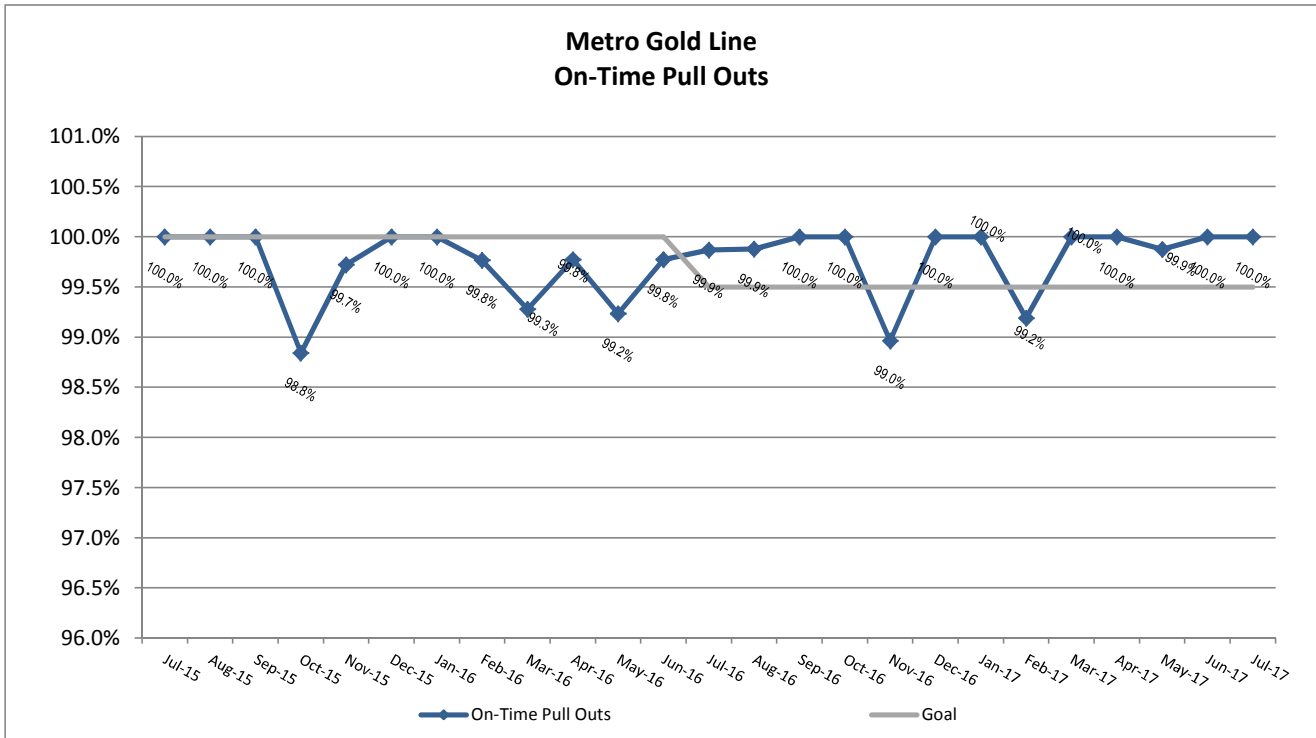


## COMPLIANCE WITH SCHEDULED TRAIN MILES

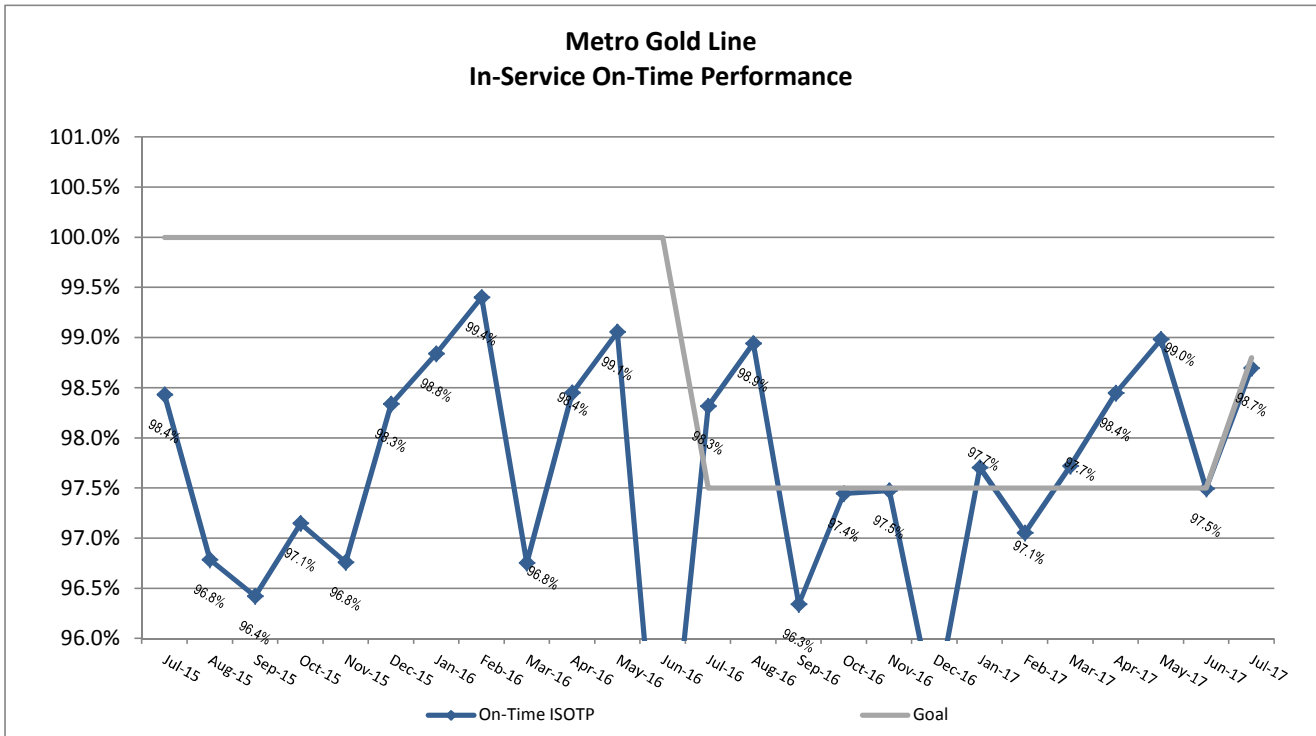




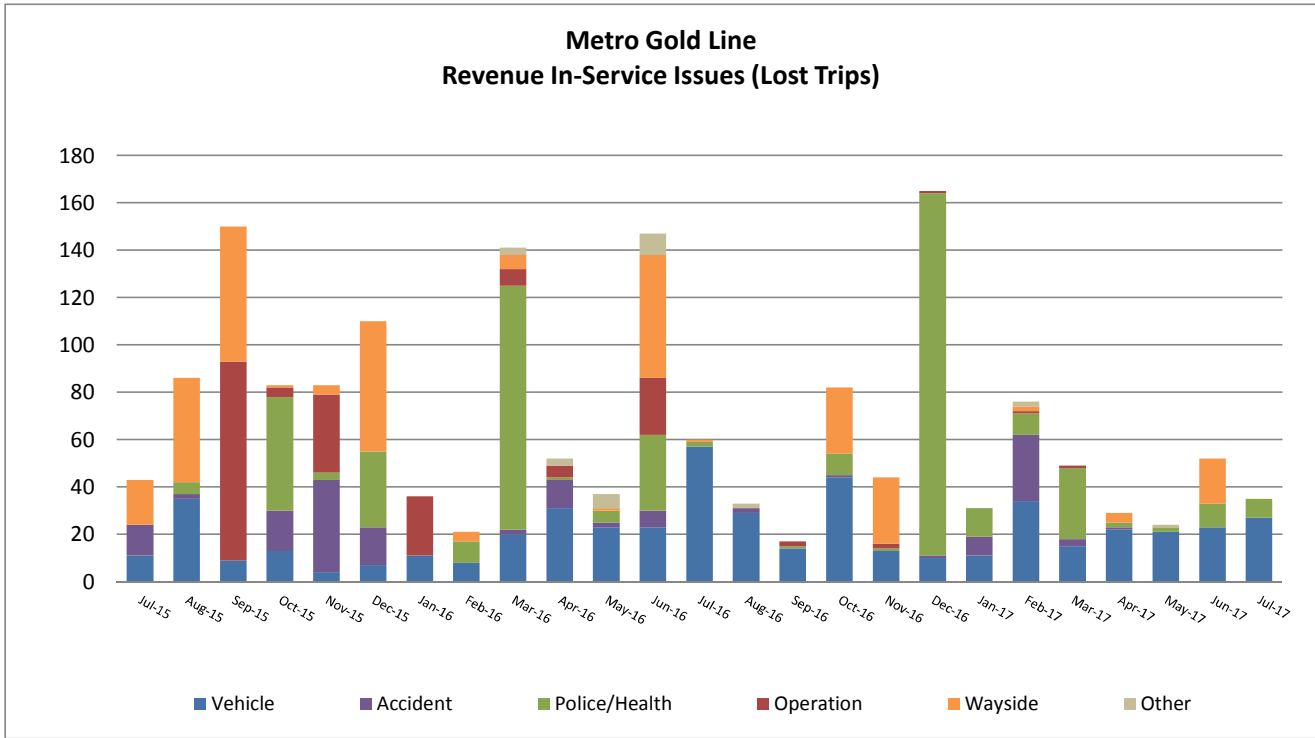
## ON-TIME PULL OUTS



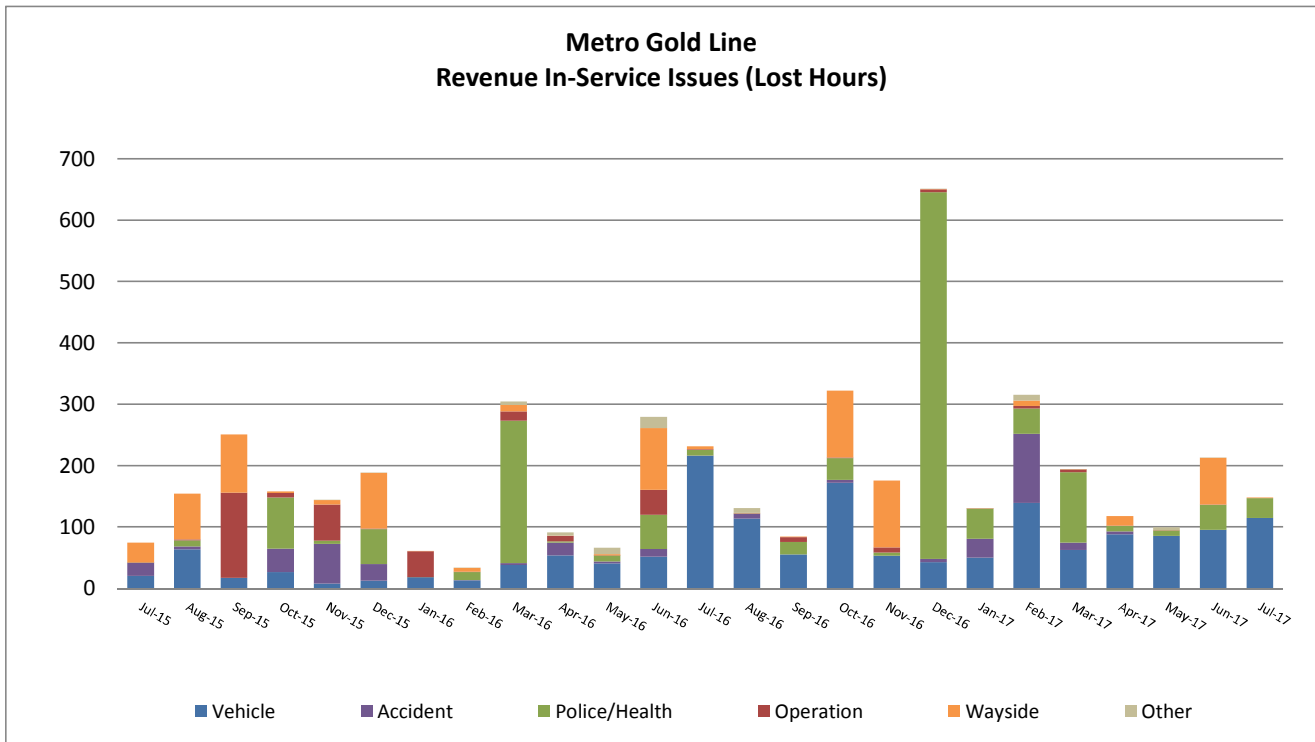
## IN-SERVICE ON-TIME PERFORMANCE



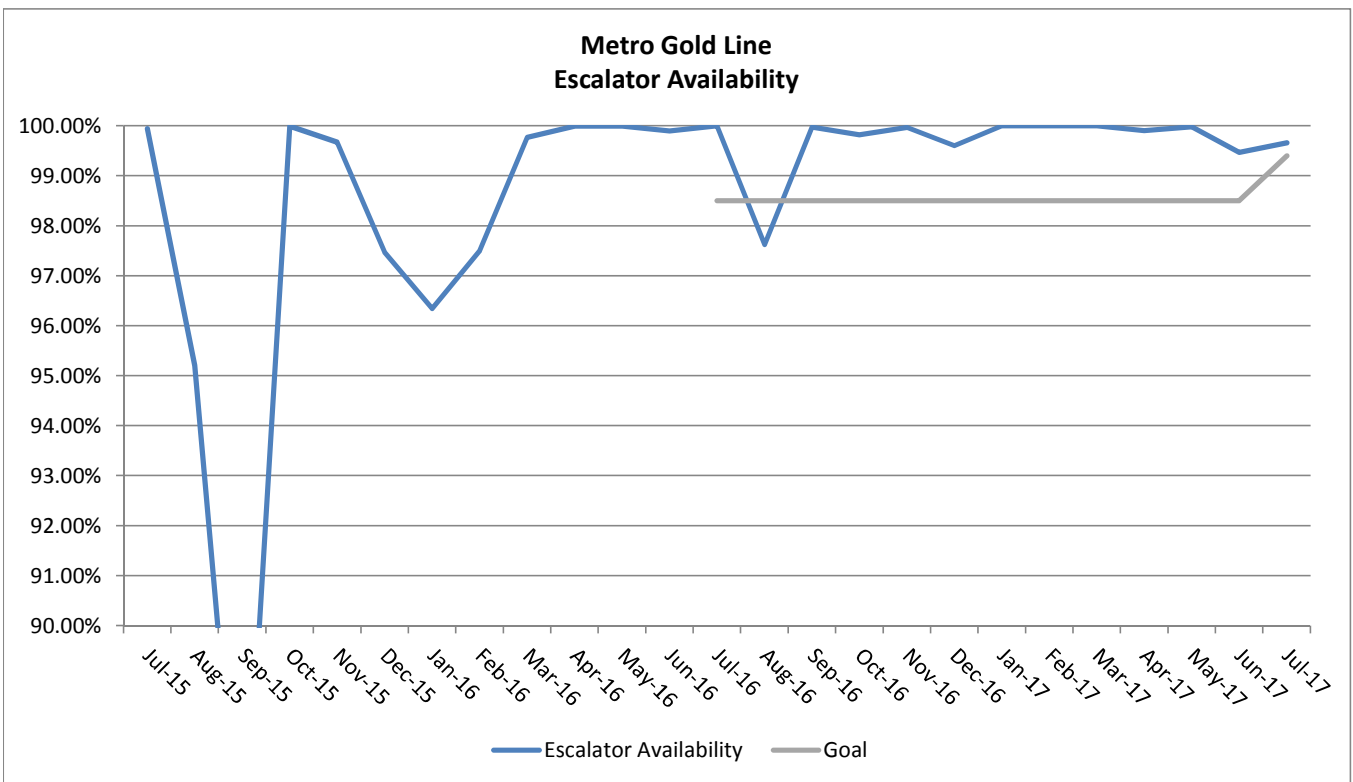
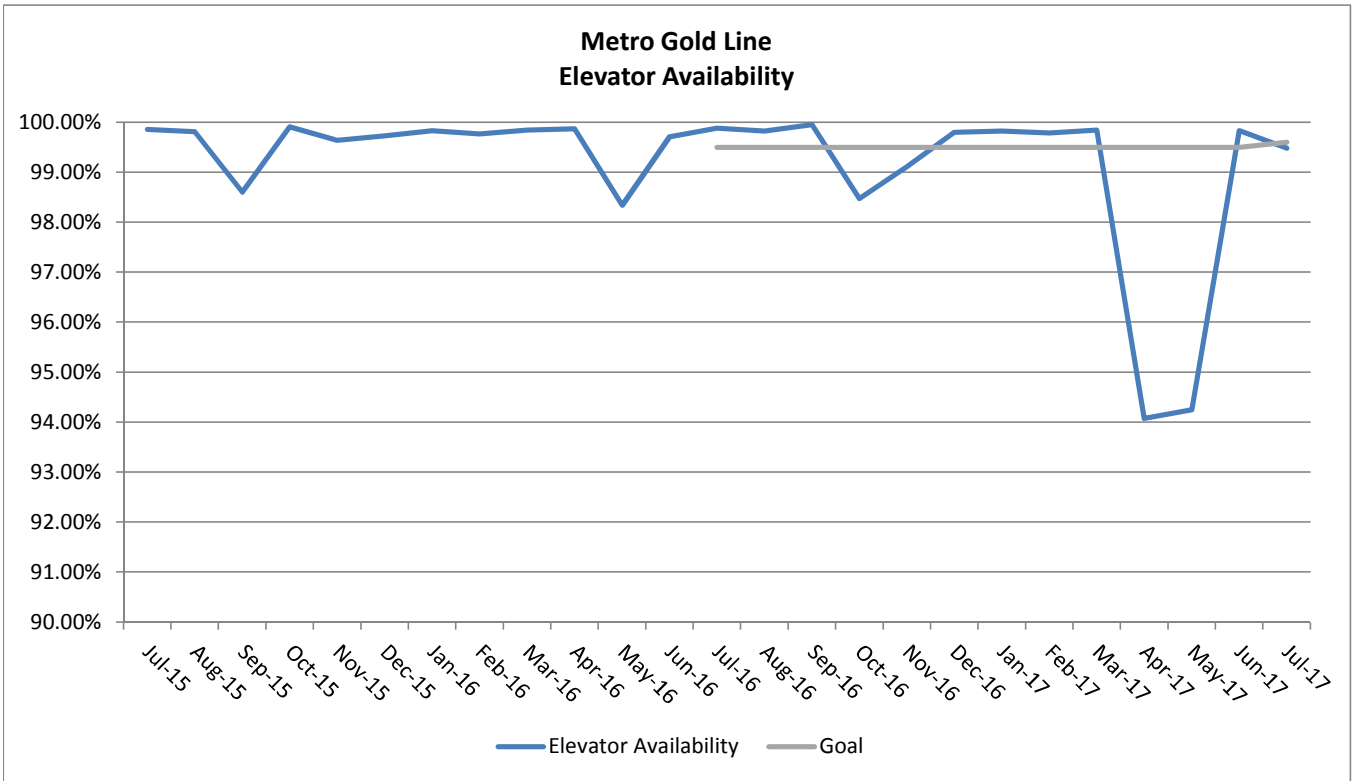
## LOST TRIPS



## LOST HOURS



## VERTICAL TRANSPORTATION AVAILABILITY



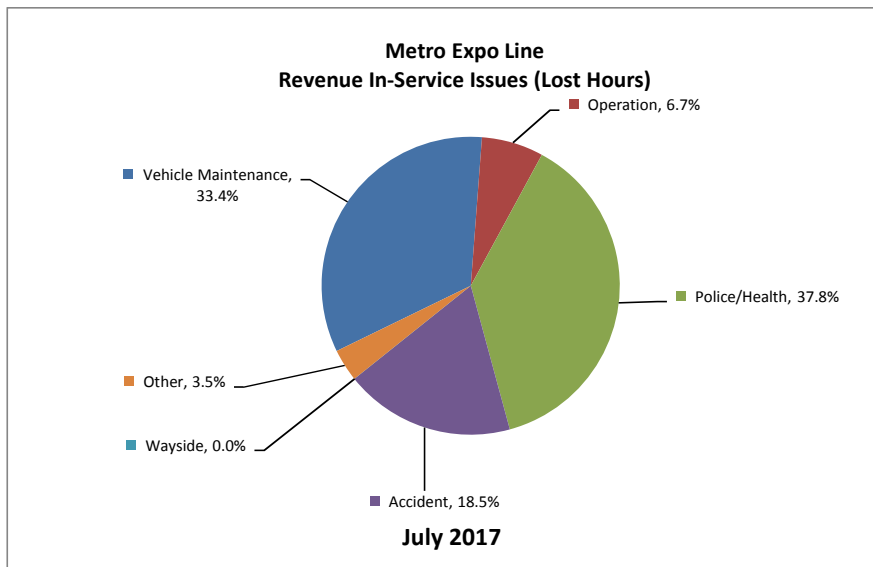
## EXPO LINE

Out of a total of 22,373 hours operated, there were approximately 77 total hours of service delays.

July 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	22,296	99.7%
Cancelled + Delayed Hours	77	0.3%
<b>Total Revenue Hours</b>	<b>22,373</b>	<b>100.0%</b>

Summary of the major contributors:	Count	Hours	Percent
Operations	2	5.2	6.7%
Accidents	1	14.2	18.5%
Vehicle Maintenance	18	25.7	33.4%
Wayside	0	0.0	0.0%
Police & Health	5	29.1	37.8%
Other	2	2.7	3.5%
<b>Total</b>	<b>28</b>	<b>77.0</b>	<b>100.0%</b>

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



**July 2017 Expo Line major delay contributors were as follows:**

**Operations Incidents:**

**7/11/2017 6:11:00 AM - Incident# 2886318 (0 lost trips, 5 lost minutes)**  
Operator departs Santa Monica 5 minutes late due to mis reading the summary.

**7/18/2017 3:26:00 PM - Incident# 2889101 (2 lost trips, 306 lost minutes)**  
Service delay encountered southbound with a +19 minute delay or less- to include, Train#'s 662,656,665,602,666 etc.  
Train#662  
T#162  
(1052B),1019,1047  
Track#4,Southbound,USC-EXPO

**Accidents:**

**7/31/2017 7:19:00 PM - Incident# 2893709 (6 lost trips, 854 lost minutes)**  
Hit and run accident.

**Vehicle Maintenance Incidents:**

**7/9/2017 9:37:00 AM - Incident# 2885693 (0 lost trips, 10 lost minutes)**  
Train 656 reports no movement with Propulsion Faults and Friction Brakes not releasing.  
Train 656  
T-510  
LRV'S ( 1050 ) 1023-1054  
Metro Center, track 2, southbound.

**7/10/2017 6:50:00 AM - Incident# 2885902 (2 lost trips, 294 lost minutes)**  
Reports of friction brake fault.  
Train#651  
T-208  
1049-1045-1046  
Bundy Station, Track #4, SB

**7/10/2017 3:35:00 PM - Incident# 2886174 (1 lost trip, 147 lost minutes)**  
Doors won't open 1035-(1039)-1032  
Train 370  
T-374  
Northbound  
Palms Station

**7/10/2017 7:43:00 PM - Incident# 2886228 (1 lost trip, 151 lost minutes)**  
Doors unable to cut out  
Train 655  
Track #4 SB 26th ST  
T-133  
1022-1030-(1016A)

**7/11/2017 9:48:00 AM - Incident# 2886419 (0 lost trips, 6 lost minutes)**  
Doors  
(1063)-1076-1075  
Train 604  
T135  
Santa Monica, Northbound, Track 3

**7/13/2017 6:46:00 AM - Incident# 2887199 (0 lost trips, 5 lost minutes)**  
Train departs late due to bumping the line in Santa Monica.

**7/18/2017 10:50:00 AM - Incident# 2889034 (0 lost trips, 12 lost minutes)**  
Doors  
(231B)-242-233  
Train 604  
T-198  
Metro Center, Southbound, Track 2

**7/19/2017 4:27:00 PM - Incident# 2889560 (0 lost trips, 5 lost minutes)**  
Propulsion / Dynamic Brakes, Cars #(137A)-166-135  
Train #601  
T-241  
Downtown Santa Monica Station, Track #003, Northbound.

**7/20/2017 12:18:00 PM - Incident# 2889942 (0 lost trips, 10 lost minutes)**  
Train 603 was delay 10 minutes southbound due to a Blue Line train breakdown at Grand Station, track 2.

**7/22/2017 10:57:00 AM - Incident# 2890579 (1 lost trip, 141 lost minutes)**

Middle car pantograph will not raise, causing a 35 mph speed restriction.  
Train#654  
T#414  
1026,(1033),1041  
Track#4,Southbound,23rd Street Station

**7/24/2017 7:18:00 AM - Incident# 2890960 (0 lost trips, 6 lost minutes)**

Operator T-417 was not able to place LRV 240A in to Street Run Mode.  
Train 602  
T-417  
LRV'S ( 240A ) 247-301  
Santa Monica Station, Northbound.

**7/25/2017 5:12:00 AM - Incident# 2891300 (2 lost trips, 282 lost minutes)**

Prop Fault  
Train 661  
T-226  
(146A)-131-106  
7th/Metro, Tail Track 1, Southbound

**7/25/2017 7:03:00 AM - Incident# 2891354 (0 lost trips, 20 lost minutes)**

Operator reports that she had a spin slide and train had no movement.  
T-349  
Train#603  
Cars(250)-236-241  
Crenshaw St.  
Southbound Trk#4

**7/25/2017 10:54:00 AM - Incident# 2891443 (0 lost trips, 15 lost minutes)**

Self-applying friction brakes.  
Train#126  
T#126  
(106);131,141  
Track#3,Relief Platform,Northbound

**7/26/2017 2:52:00 PM - Incident# 2891969 (0 lost trips, 5 lost minutes)**

Train 601 lost movement at the I-10 box track number 3. System Check Light Indication.  
Train 601  
T-369  
LRV'S ( 236A ) 234-236  
I-10 Box, track number 3, northbound.

**7/26/2017 5:42:00 PM - Incident# 2892076 (2 lost trips, 282 lost minutes)**

Train 665 reports a door problem at USC/Expo Park Station. All doors cut-out on LRV 1020  
Train 665  
T-424  
LRV'S 1027 ( 1020 ) 1037  
USC/Expo Station, track 4, Southbound.

**7/29/2017 10:40:00 PM - Incident# 2894566 (1 lost trip, 141 lost minutes)**

Train 657 reports no movement without indications northbound at Palms Station.

**7/30/2017 5:40:00 AM - Incident# 2893173 (0 lost trips, 12 lost minutes)**

Train Operator T-510 reports no movement.  
Train 654  
T-510  
Cars (1022B)-1051-1044  
Bundy Station, Track 4, Southbound

**Police & Health Incidents:**

**7/9/2017 12:28:00 AM - Incident# 2885630 (0 lost trips, 11 lost minutes)**

Theft/Robberies  
Downtown Santa Monica  
Train# 659, T-535

**7/12/2017 7:58:00 PM - Incident# 2887113 (0 lost trips, 6 lost minutes)**

Male exposing himself.

**7/18/2017 4:00:00 PM - Incident# 2889120 (0 lost trips, 29 lost minutes)**

Caucasian man jogging on Track#3,Westwood Station,Northbound.

**7/19/2017 3:47:00 PM - Incident# 2889549 (0 lost trips, 9 lost minutes)**

Sick Individual, seizure, cars #(135A)-166-137

Train #601

T-241

Crenshaw Station, Track #004, Southbound.

**7/21/2017 9:46:00 PM - Incident# 2890499 (12 lost trips, 1,692 lost minutes)**

Car blocking both tracks

DenkerAve. & Exposition Blvd.

**Other Incidents:**

**7/16/2017 11:11:00 PM - Incident# 2888374 (0 lost trips, 10 lost minutes)**

T handle pulled while train departed station

Train 654

Track #4 SB Expo/Vermont Station

T-518

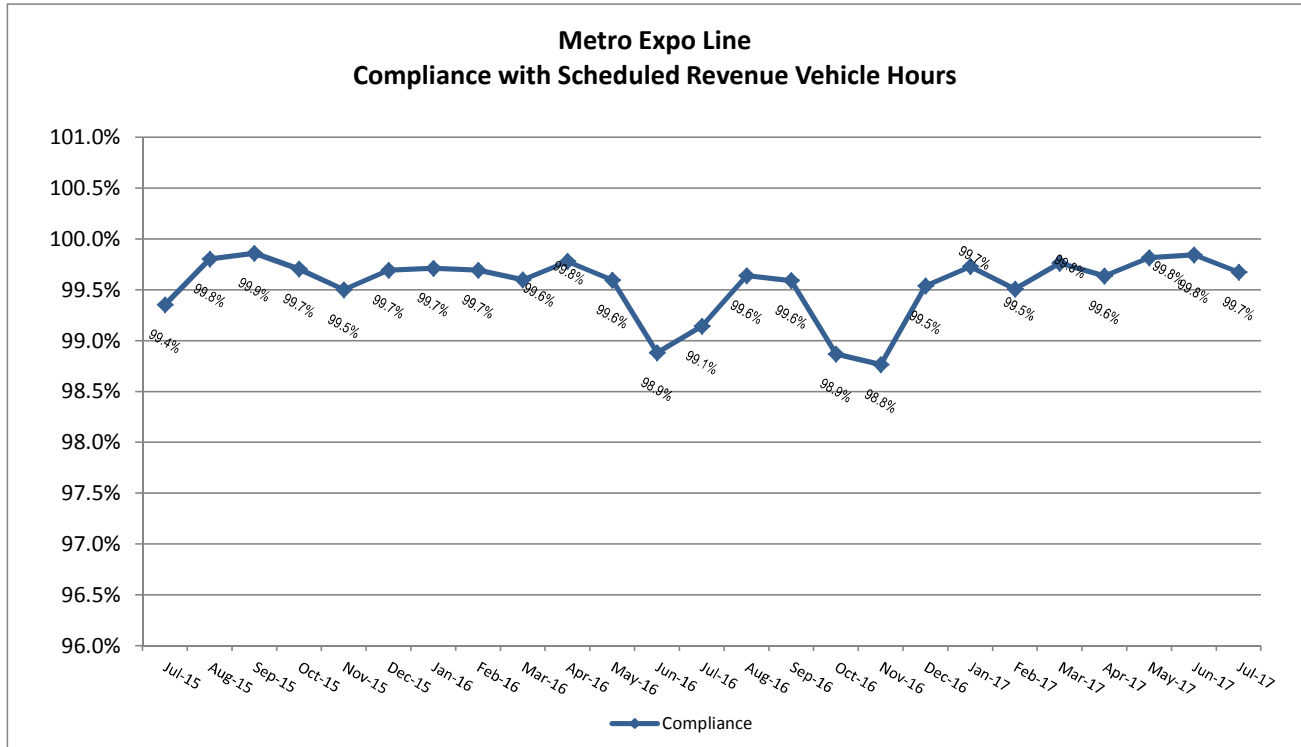
(1023)-1054-1050

**7/23/2017 4:29:00 AM - Incident# 2890689 (1 lost trip, 153 lost minutes)**

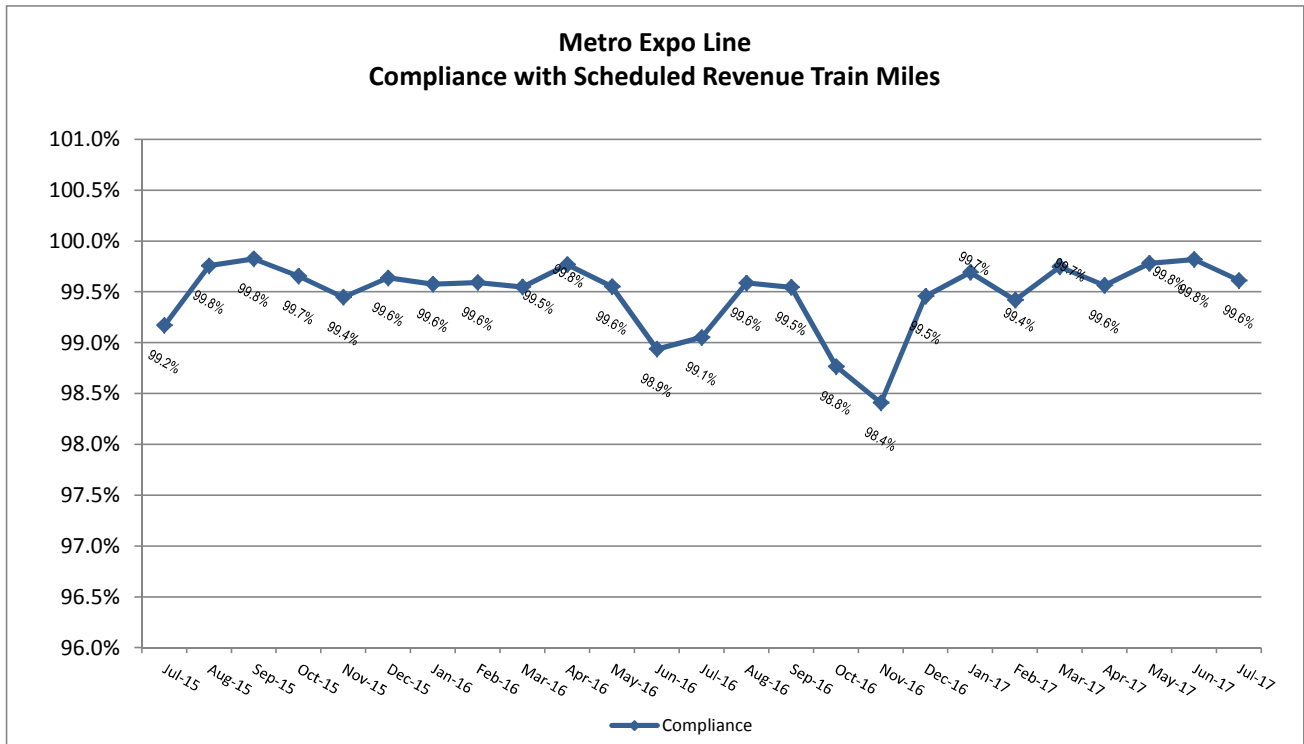
Trains 658 and 659 pulled out of Expo Yard late.

# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

## COMPLIANCE WITH SCHEDULED VEHICLE HOURS

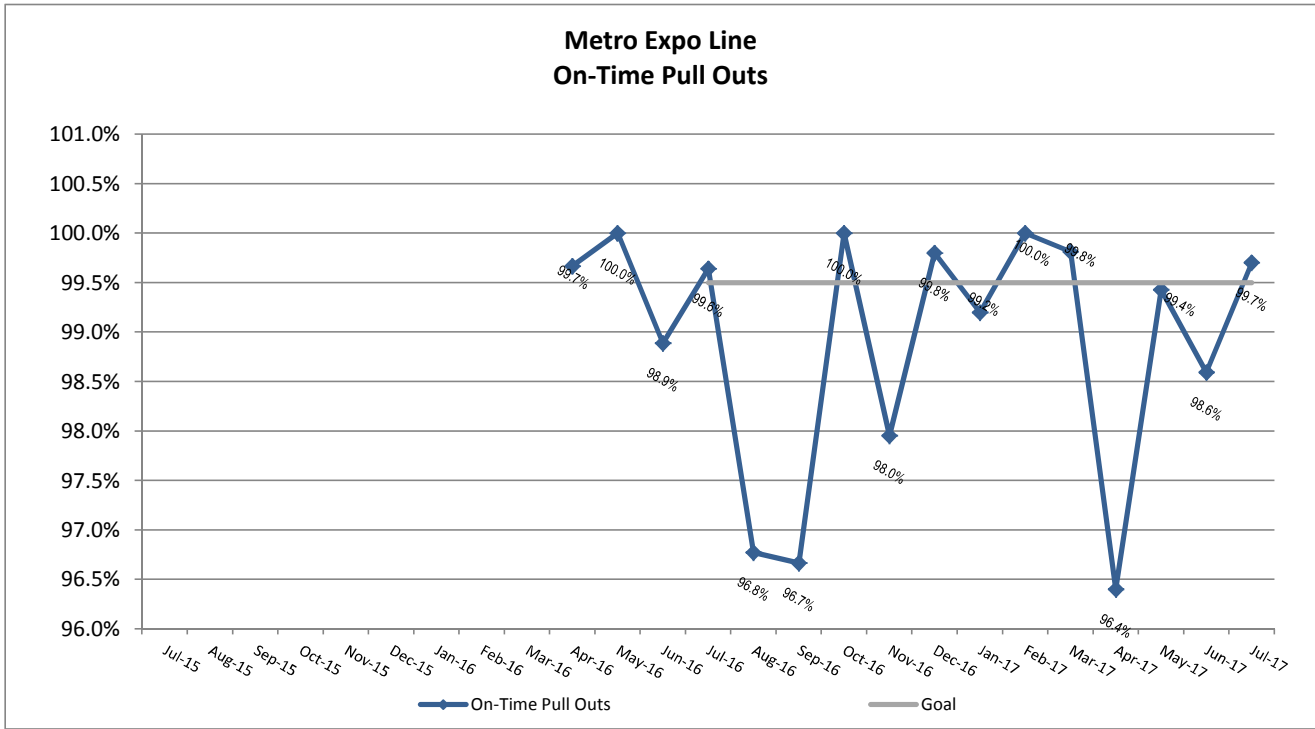


## COMPLIANCE WITH SCHEDULED TRAIN MILES

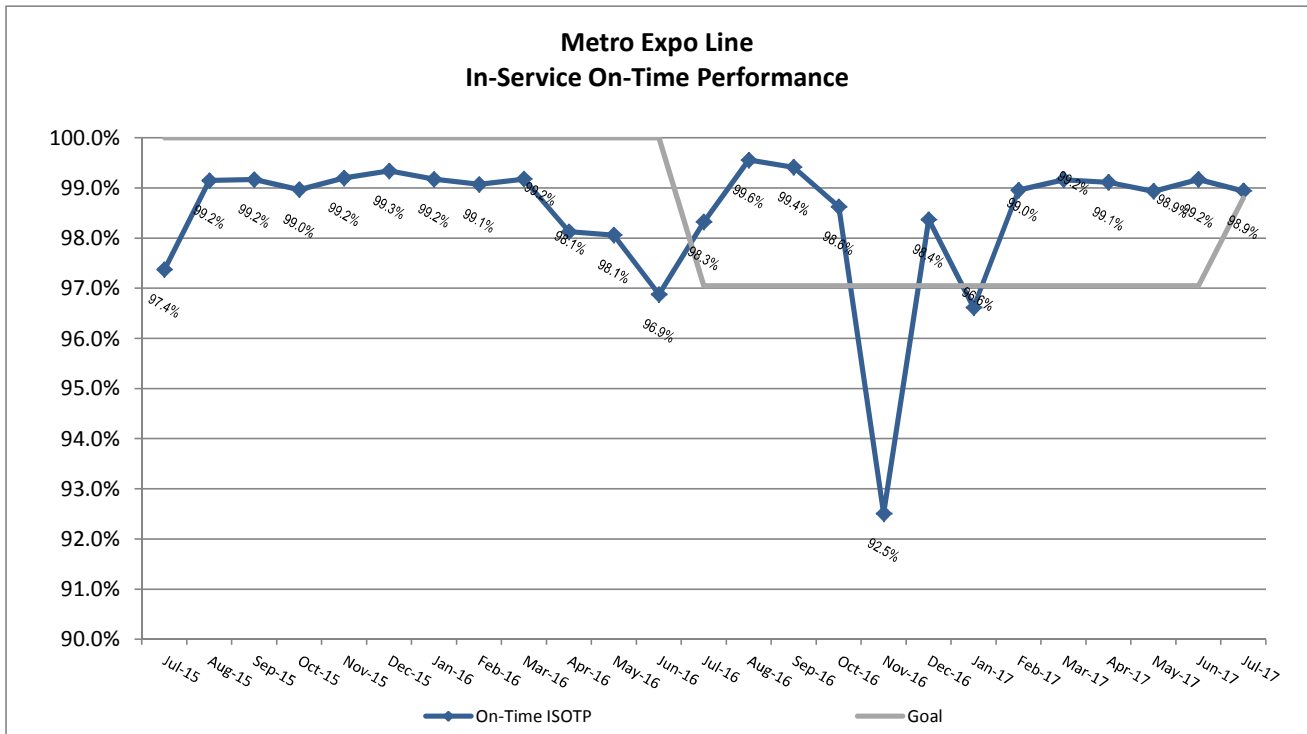




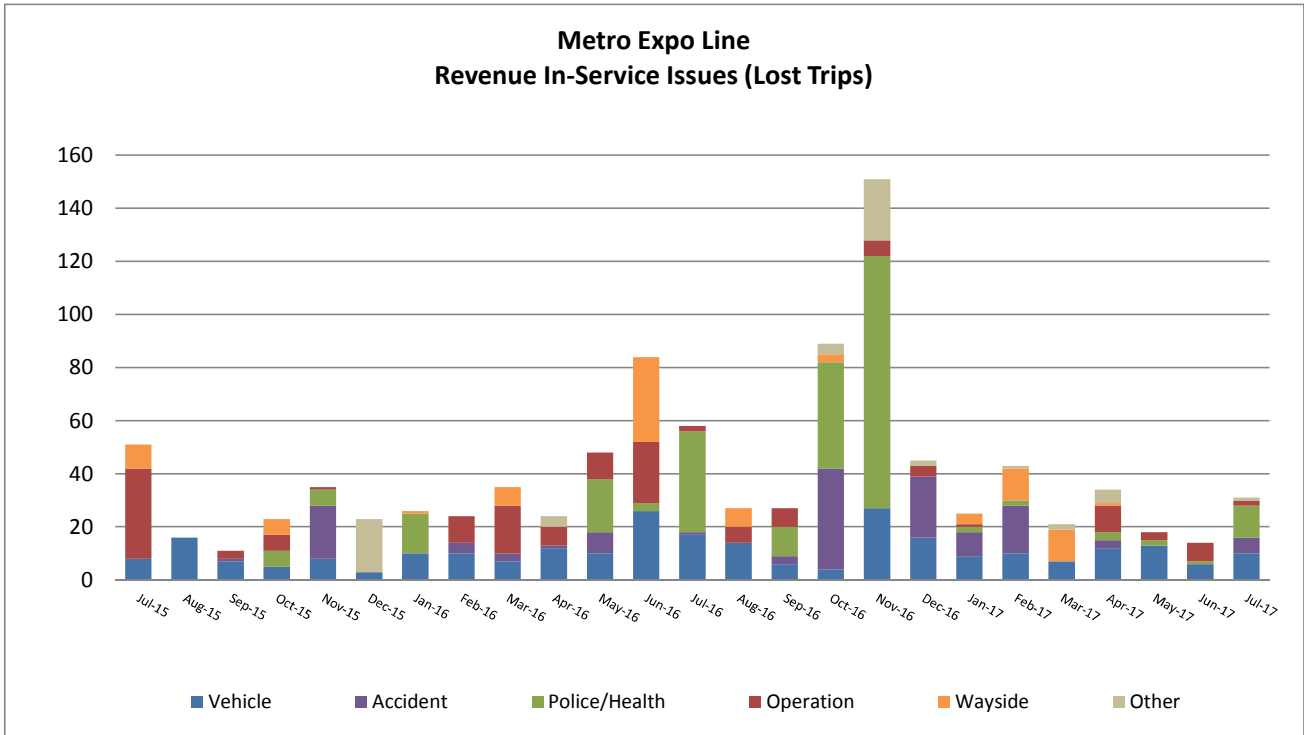
## ON-TIME PULL OUTS



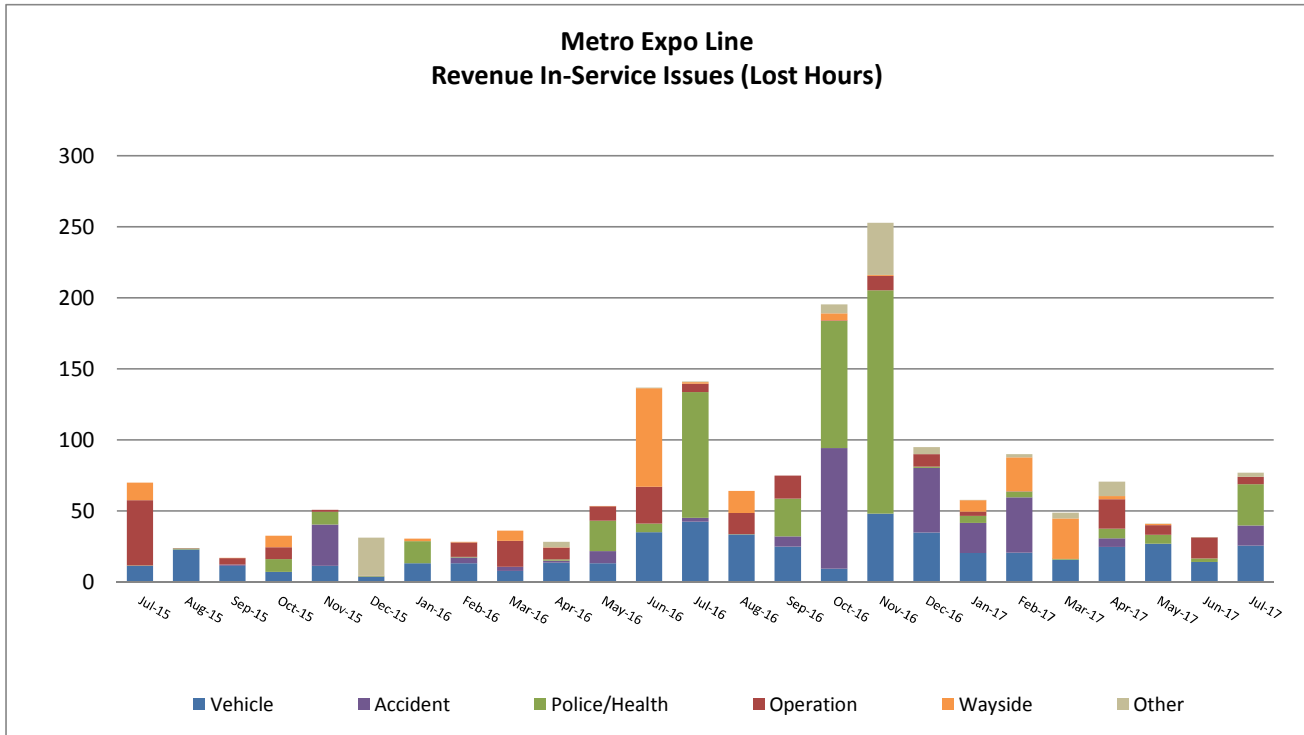
## IN-SERVICE ON-TIME PERFORMANCE



## LOST TRIPS



## LOST HOURS



## VERTICAL TRANSPORTATION AVAILABILITY

