

Los Angeles County  
Metropolitan Transportation Authority  
California

# OPERATIONS MONTHLY RAIL PERFORMANCE REPORT

NOVEMBER 2017



# METRO RAIL PERFORMANCE – NOVEMBER 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 2015	FY 2016	FY 2017	FY 2018 Target	FY 2018 YTD	FYTD Status	Sep Month	Oct Month	Nov Month
<b>Systemwide</b>									
On-Time Pullouts	99.67%	99.63%	99.61%	99.50%	99.60%	●	99.45%	99.36%	99.61%
Mean Miles Between Chargeable Mechanical Failures <sup>3</sup>	34,524	30,482	29,711	32,550	26,209	●	22,339	28,551	32,952
In-Service On-time Performance	98.39%	98.10%	98.24%	98.99%	98.39%	●	98.17%	97.65%	98.91%
Service Delivery Ratio	99.35%	99.22%	99.23%	99.00%	99.17%	●	99.30%	98.82%	99.33%
Traffic Accidents Per 100,000 Train Miles	1.18	1.17	1.01	1.01	1.07	●	1.09	1.59	0.68
CPUC Reportable Accidents per 100,000 Train Miles	0.43	0.60	0.36	0.37	0.72	●	0.68	1.19	0.68
Passenger Accidents per 100,000 Boardings	0.013	0.016	0.023	0.010	0.019	●	0.022	0.010	0.011
Complaints per 100,000 Boardings	0.78	1.43	1.98	1.10	1.82	●	2.02	1.95	1.77
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours <sup>1,2</sup>	11.11	10.97	12.27	10.42	13.35	●	10.95	14.79	17.47
Lost Work Days per 200,000 Exposure Hours <sup>1,2</sup>	880	482	733	450.00	810	●	734	950	-
OSHA Injuries per 200,000 Exposure Hours <sup>1,2</sup>	6.68	6.32	8.53	6.00	7.98	●	10.95	11.10	-
<b>Wayside</b>									
Overdue Work Orders (Non-PMP) - Aging of Outstanding Work Orders	88	437	1,145	N/A	1,656	N/A	292	376	569
Past-Due Preventive Maintenance - Aging of Outstanding Work Orders	1	11	120	N/A	234	N/A	53	41	98
% of Completed Inspections	99.51%	99.57%	99.72%	N/A	99.84%	N/A	99.73%	99.75%	100.00%
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	9.07	4.77	5.35	4.53	4.87	●	4.19	0.00	8.23
Lost Work Days per 200,000 Exposure Hours <sup>1</sup>	309	148	194	138	346	●	259	462	0
OSHA Injuries per 200,000 Exposure Hours <sup>1</sup>	8.28	4.40	4.01	4.18	3.03	●	4.19	0.00	0
<b>Blue Line</b>									
On-Time Pullouts	99.41%	99.59%	99.60%	99.50%	98.92%	●	98.33%	98.01%	99.26%
Mean Miles Between Chargeable Mechanical Failures <sup>3</sup>	23,716	19,240	15,405	22,825	11,610	●	10,558	14,121	13,164
In-Service On-time Performance	97.28%	96.10%	96.44%	98.80%	96.49%	●	94.11%	96.76%	97.73%
Service Delivery Ratio	98.88%	98.41%	98.54%	99.00%	98.22%	●	98.46%	97.69%	98.74%
Traffic Accidents Per 100,000 Train Miles	2.48	2.38	2.18	2.18	2.08	●	1.98	2.62	2.01
CPUC Reportable Accidents per 100,000 Train Miles	0.89	1.39	0.71	0.40	1.43	●	1.32	1.31	2.01
Passenger Accidents per 100,000 Boardings	0.034	0.016	0.046	0.010	0.054	●	0.055	0.052	0.000
Complaints per 100,000 Boardings	0.90	1.33	1.67	1.07	2.30	●	2.81	2.76	1.88
New Workers' Compensation Indemnity Claims per	15.10	15.08	16.74	10.42	18.62	●	15.87	19.96	20.63
Lost Work Days per 200,000 Exposure Hours <sup>1</sup>	1,622	797	836	450	811	●	837	768	-
OSHA Injuries per 200,000 Exposure Hours <sup>1</sup>	10.64	6.79	10.40	6.00	6.47	●	15.87	4.99	-

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

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

<sup>3</sup> MMBMF for each line is based on Actual Vehicle Revenue Miles since hub miles are not available by the line operated. Vehicles from Division 11 may operate on the Expo or Blue Line.

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

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

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

N/A = Not Available

Measurement	FY 2015	FY 2016	FY 2017	FY 2018 Target	FY 2018 YTD	FYTD Status	Sep Month	Oct Month	Nov Month
<b>Red Line</b>									
On-Time Pullouts	99.91%	99.79%	99.95%	99.50%	99.92%	●	99.79%	100.00%	100.00%
Mean Miles Between Chargeable Mechanical Failures <sup>3</sup>	85,090	94,312	104,637	131,376	65,970	●	52,087	77,032	82,908
In-Service On-time Performance	99.13%	99.45%	99.39%	99.50%	99.18%	●	99.33%	98.63%	99.43%
Service Delivery Ratio	99.60%	99.71%	99.72%	100.00%	99.62%	●	99.67%	99.53%	99.63%
Traffic Accidents Per 100,000 Train Miles	0.47	0.75	0.57	0.57	0.34	●	0.88	0.00	0.00
CPUC Reportable Accidents per 100,000 Train Miles	0.07	0.07	0.14	0.21	0.17	●	0.88	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	1.17	●	1.11	1.26	1.04
New Workers' Compensation Indemnity Claims per	6.20	16.43	12.68	10.42	13.49	●	5.61	10.87	28.43
*Lost Work Days per 200,000 Exposure Hours	649	526	992	450	1,350	●	930	1,902	-
*OSHA Injuries per 200,000 Exposure Hours	3.54	7.99	7.52	6.00	4.20	●	0.00	5.44	-

<b>Green Line</b>									
On-Time Pullouts	99.32%	99.49%	99.69%	99.50%	99.57%	●	100.00%	98.58%	100.00%
Mean Miles Between Chargeable Mechanical Failures <sup>3</sup>	21,054	19,238	16,375	23,220	19,928	●	11,733	14,909	32,871
In-Service On-time Performance	97.39%	98.52%	98.69%	98.80%	98.95%	●	99.21%	98.22%	99.00%
Service Delivery Ratio	99.50%	99.59%	99.61%	99.00%	99.55%	●	99.68%	99.12%	99.46%
Traffic Accidents Per 100,000 Train Miles	0.21	0.42	0.48	0.48	0.49	●	0.83	0.00	0.00
CPUC Reportable Accidents per 100,000 Train Miles	0.07	0.07	0.07	0.40	0.00	●	0.00	0.00	0.00
Passenger Accidents per 100,000 Boardings	0.024	0.034	0.048	0.010	0.000	●	0.000	0.000	0.000
Complaints per 100,000 Boardings	0.89	1.54	2.08	1.27	1.64	●	2.30	1.59	0.83
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	7.32	7.18	9.14	10.42	15.28	●	19.89	18.01	18.53
*Lost Work Days per 200,000 Exposure Hours	479	228	712	450	925	●	826	1,019	-
*OSHA Injuries per 200,000 Exposure Hours	4.07	3.19	6.65	6.00	12.03	●	19.89	18.01	-

<b>Gold Line</b>									
On-Time Pullouts	99.98%	99.68%	99.82%	99.50%	99.92%	●	100.00%	100.00%	99.62%
Mean Miles Between Chargeable Mechanical Failures <sup>3</sup>	44,171	40,426	38,427	60,252	35,301	●	47,052	37,707	31,821
In-Service On-time Performance	98.56%	97.60%	97.61%	98.80%	98.74%	●	99.10%	97.76%	99.05%
Service Delivery Ratio	99.34%	99.11%	98.88%	99.00%	99.07%	●	99.27%	98.37%	99.20%
Traffic Accidents Per 100,000 Train Miles	1.14	0.99	0.61	0.61	0.43	●	0.88	0.43	0.00
CPUC Reportable Accidents per 100,000 Train Miles	0.30	0.60	0.25	0.40	0.26	●	0.44	0.43	0.00
Passenger Accidents per 100,000 Boardings	0.007	0.039	0.030	0.010	0.043	●	0.075	0.000	0.000
Complaints per 100,000 Boardings	1.01	2.73	2.78	2.22	2.30	●	2.38	2.32	3.53
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	15.96	11.87	14.31	10.42	13.43	●	17.45	15.91	5.61
*Lost Work Days per 200,000 Exposure Hours	1,068	766	1,055	450	927	●	1,028	1,001	-
*OSHA Injuries per 200,000 Exposure Hours	3.83	9.29	9.69	6.00	12.58	●	23.27	10.60	-

<b>Expo Line</b>									
On-Time Pullouts	-	99.53%	98.76%	99.50%	99.70%	●	99.34%	100.00%	99.41%
Mean Miles Between Chargeable Mechanical Failures <sup>3</sup>	-	18,114	33,402	22,825	38,088	●	29,559	46,590	120,115
In-Service On-time Performance	99.14%	98.61%	98.48%	98.80%	98.39%	●	98.88%	96.63%	99.12%
Service Delivery Ratio	99.64%	99.56%	99.46%	99.00%	99.45%	●	99.52%	99.29%	99.57%
Traffic Accidents Per 100,000 Train Miles	1.02	0.74	1.26	1.26	2.24	●	0.83	5.52	1.63
CPUC Reportable Accidents per 100,000 Train Miles	1.02	0.50	0.63	0.40	1.92	●	0.83	4.73	1.63
Passenger Accidents per 100,000 Boardings	0.000	0.019	0.018	0.010	0.012	●	0.000	0.000	0.063
Complaints per 100,000 Boardings	1.12	3.38	3.68	1.83	2.42	●	2.75	2.51	2.33
New Workers' Compensation Indemnity Claims per	24.97	8.44	19.26	10.42	19.68	●	7.96	36.88	30.51
*Lost Work Days per 200,000 Exposure Hours	937	73	887	450	704	●	725	743	-
*OSHA Injuries per 200,000 Exposure Hours	-	5.63	16.60	6.00	15.11	●	7.96	44.25	-

\* There is One Month lag in reporting this data

<sup>3</sup> MMBMF for each line is based on Actual Vehicle Revenue Miles since hub miles are not available by the line operated. Vehicles from Division 11 may operate on the Expo or Blue Line.

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

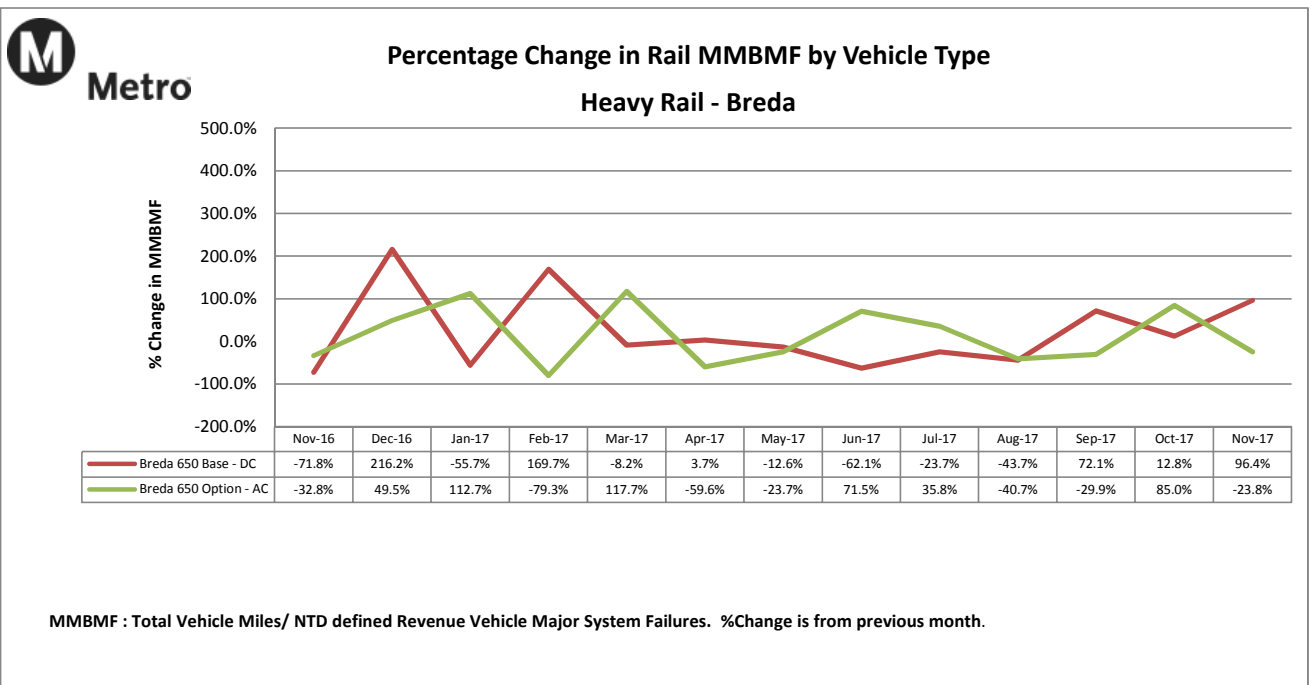
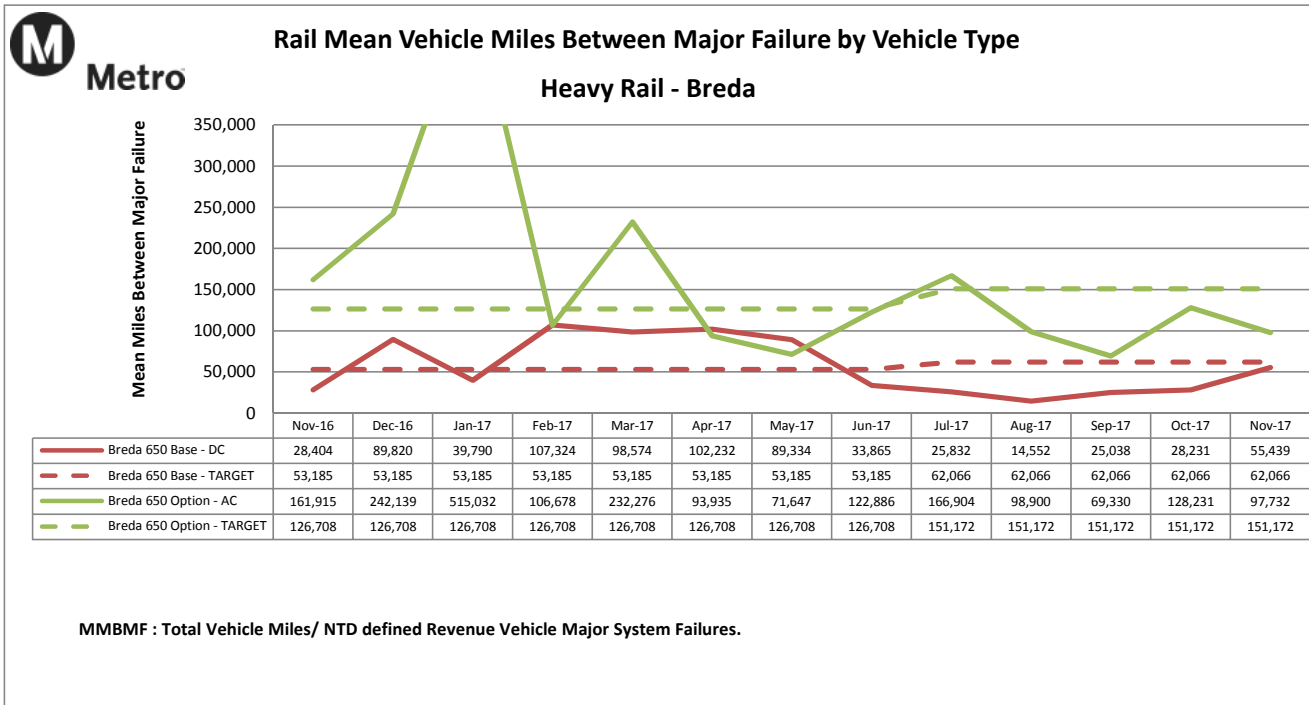
● Yellow - Uncertain if the target will be achieved -- slight problems, delays or management issues. Falls below Target 70 - 99%.

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

N/A = Not Available

# METRO RAIL PERFORMANCE – NOVEMBER 2017

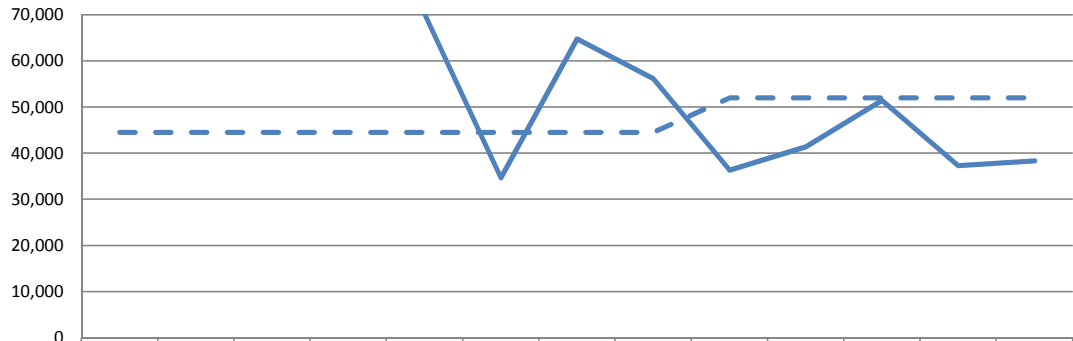
## Rail Performance by Vehicle Type





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

Mean Miles Between Major Failure



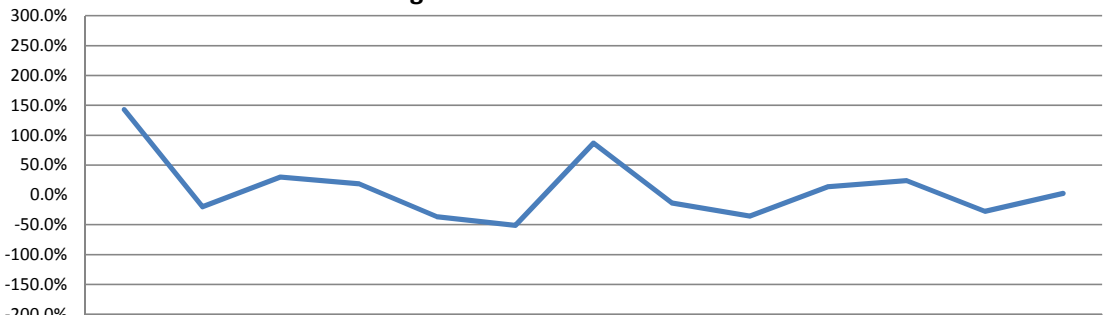
	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17
— AnsaldoBreda 2550 Base - AC	88,934	71,550	92,980	110,322	70,117	34,678	64,769	56,193	36,347	41,380	51,475	37,331	38,376
- - AnsaldoBreda 2550 Base - TARGET	44,517	44,517	44,517	44,517	44,517	44,517	44,517	44,517	51,977	51,977	51,977	51,977	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



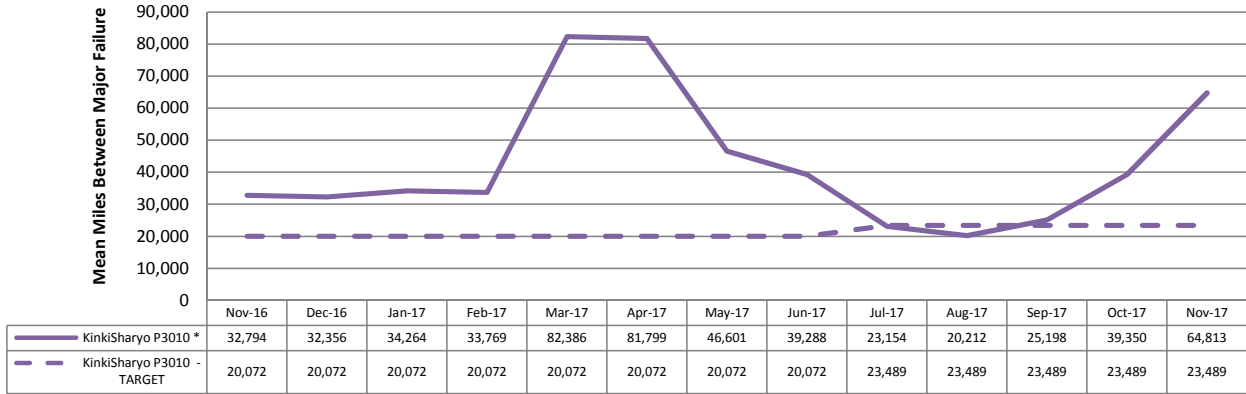
	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17
— AnsaldoBreda 2550 Base - AC	143.3%	-19.5%	30.0%	18.7%	-36.4%	-50.5%	86.8%	-13.2%	-35.3%	13.8%	24.4%	-27.5%	2.8%

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 - KinkiSharyo

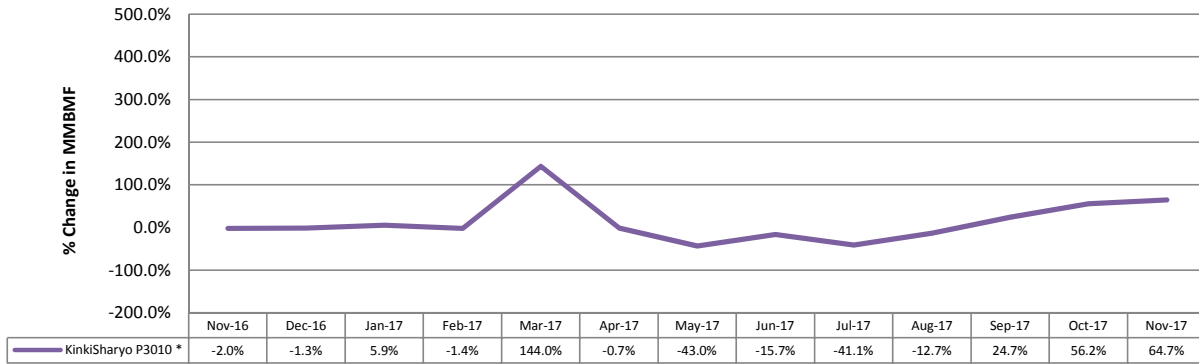


MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



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.

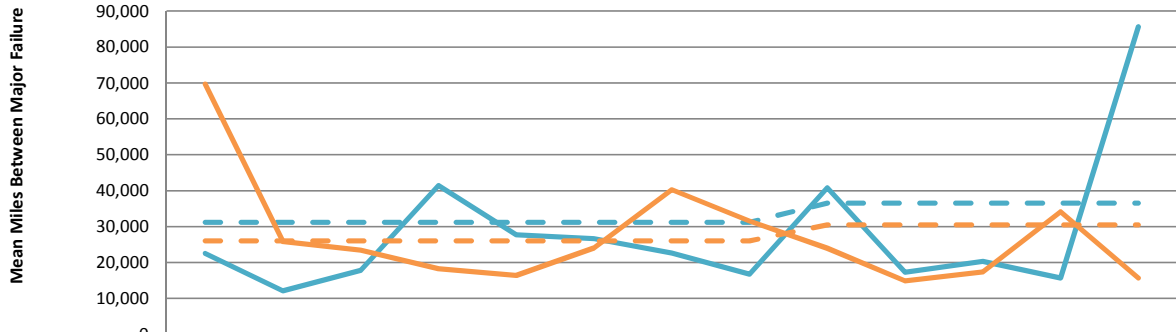
\* KinkiSharyo rolling stock began service March 2016



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

#### Light Rail - NipponSharyo



	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17
Nippon Sharyo 2020 - DC	22,626	12,147	17,872	41,450	27,775	26,695	22,633	16,760	40,831	17,363	20,372	15,702	85,687
Nippon Sharyo 2020 - TARGET	31,214	31,214	31,214	31,214	31,214	31,214	31,214	31,214	36,599	36,599	36,599	36,599	36,599
Nippon Sharyo 865 - DC	69,714	25,864	23,518	18,328	16,448	24,130	40,316	31,559	24,011	14,910	17,371	34,179	15,762
Nippon Sharyo 865 - TARGET	26,062	26,062	26,062	26,062	26,062	26,062	26,062	26,062	30,478	30,478	30,478	30,478	30,478

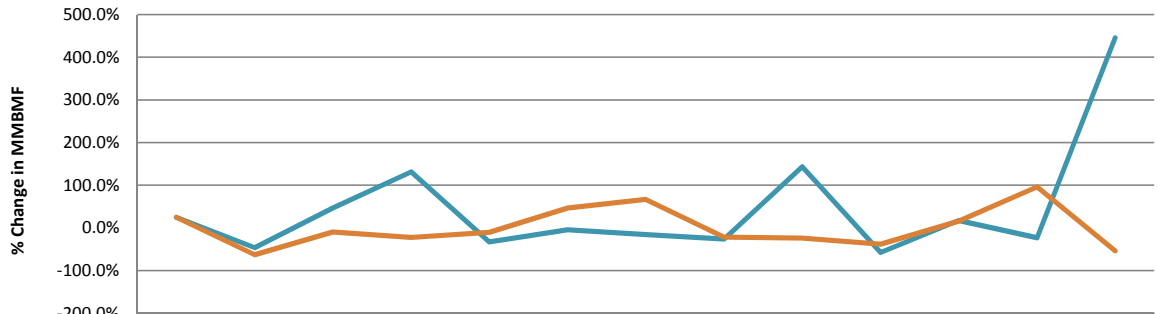
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



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### Percentage Change in Rail MMBMF by Vehicle Type

#### Light Rail - NipponSharyo



	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17
Nippon Sharyo 2020 - DC	25.1%	-46.3%	47.1%	131.9%	-33.0%	-3.9%	-15.2%	-25.9%	143.6%	-57.5%	17.3%	-22.9%	445.7%
Nippon Sharyo 865 - DC	25.2%	-62.9%	-9.1%	-22.1%	-10.3%	46.7%	67.1%	-21.7%	-23.9%	-37.9%	16.5%	96.8%	-53.9%

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

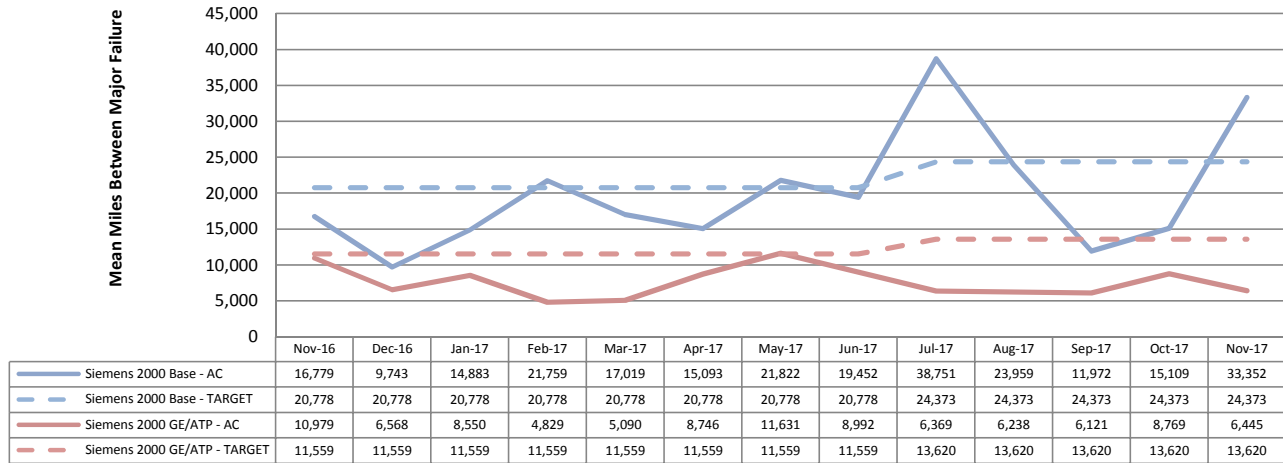




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### Rail Mean Vehicle Miles Between Major Failure by Vehicle Type

#### Light Rail - Siemens



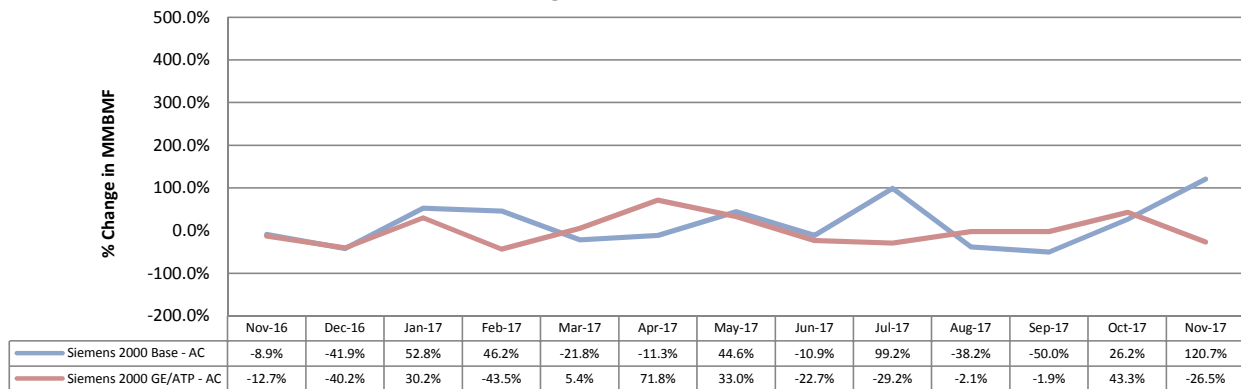
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



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### Percentage Change in Rail MMBMF by Vehicle Type

#### Light Rail - Siemens



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

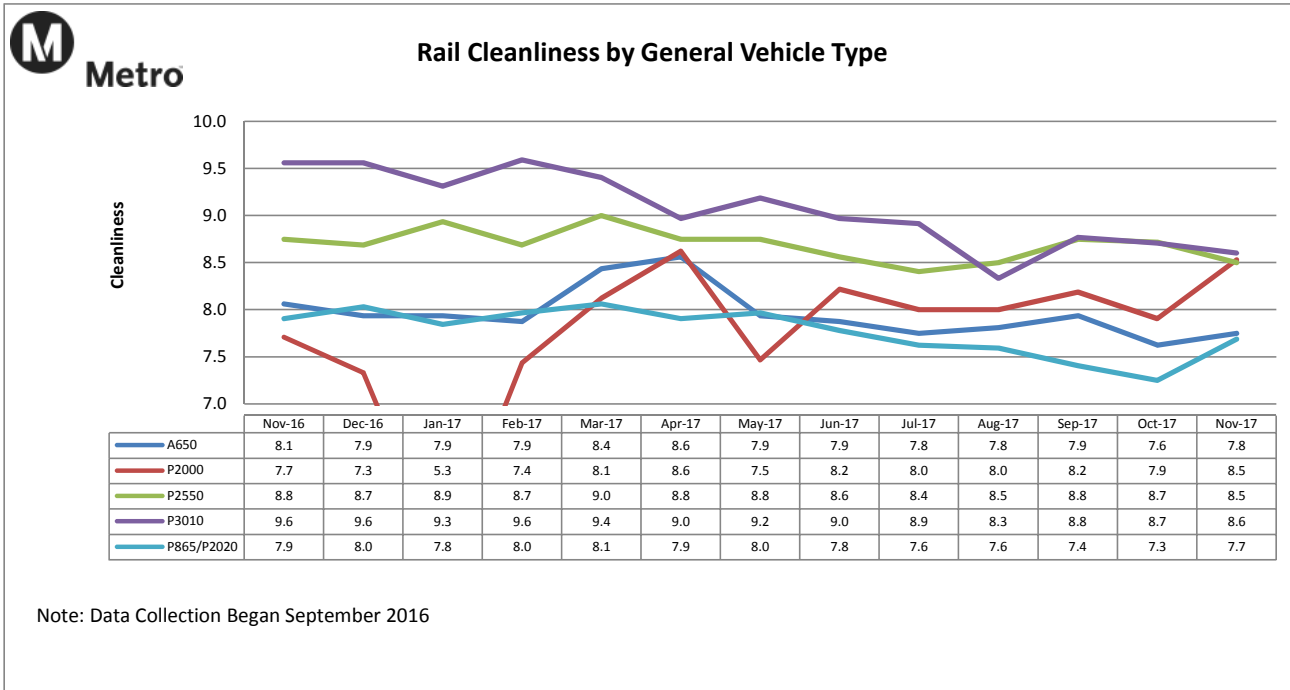
### Mean Miles Between Major Failures

	FY 2017	FY 2018 Goal	FY 2018 YTD
AnsaldoBreda2550Base - AC	41,082	44,517	51,977
Breda 650 Base - DC	50,638	53,185	68,962
Breda 650 Option - AC	105,343	126,708	129,159
Kinkisharyo P3010	19,068	20,072	35,793
Nippon Sharyo 2020 - DC	29,665	31,214	19,963
Nippon Sharyo 865 - DC	24,967	26,062	24,307
Siemens 2000 Base - AC	17,769	20,778	16,722
Siemens 2000 GE/ATP - AC	9,701	13,620	6,652

### Rail Fleet Distribution – NOVEMBER 2017

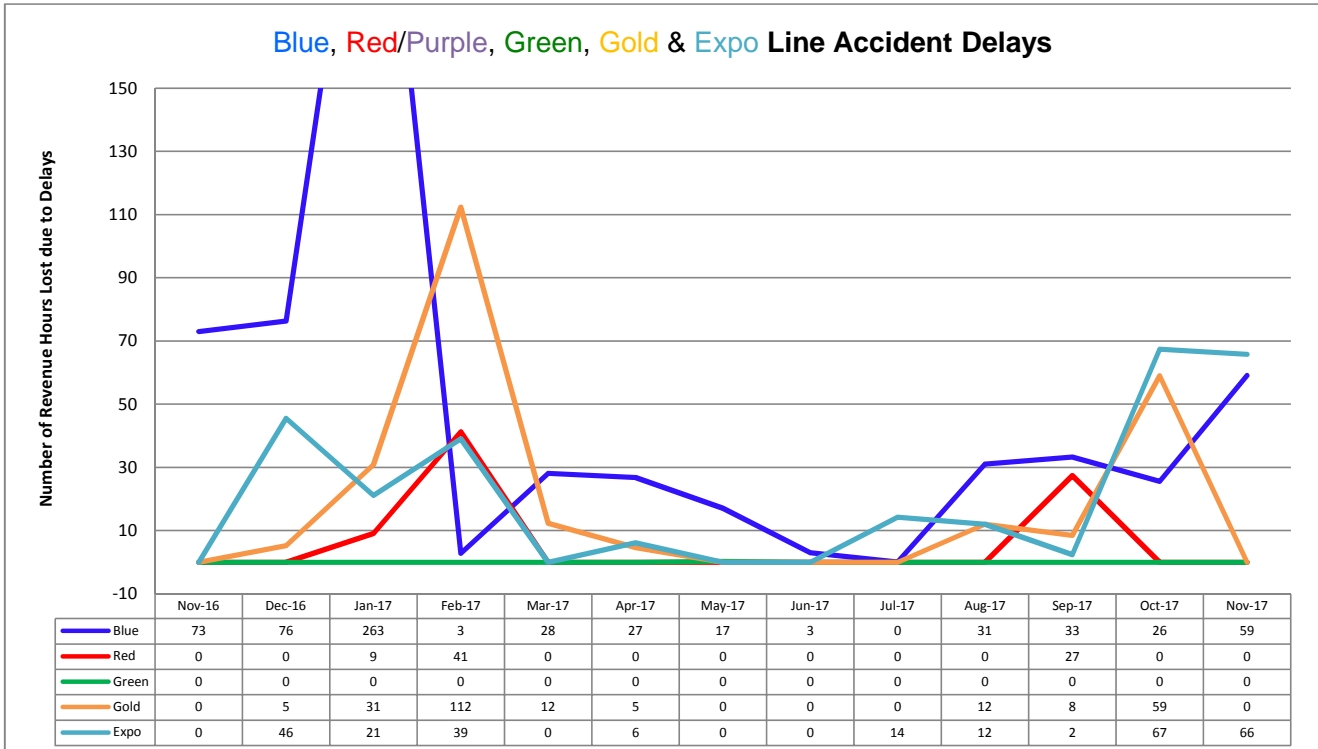
Number of Rail Vehicle Type by Division	Blue	Red / Purple	Green	Gold	Expo
AnsaldoBreda 2550 Base - AC				50	
Breda 650 Base - DC		30			
Breda 650 Option - AC		68			
KinkiSharyo P3010	27		3	15	52
Nippon Sharyo 2020 - DC	15				
Nippon Sharyo 865 - DC	35				
Siemens 2000 Base - AC			28		
Siemens 2000 GE/ATP - AC	22				
<b>TOTALS</b>	<b>99</b>	<b>98</b>	<b>31</b>	<b>65</b>	<b>52</b>

# Cleanliness by Vehicle Type

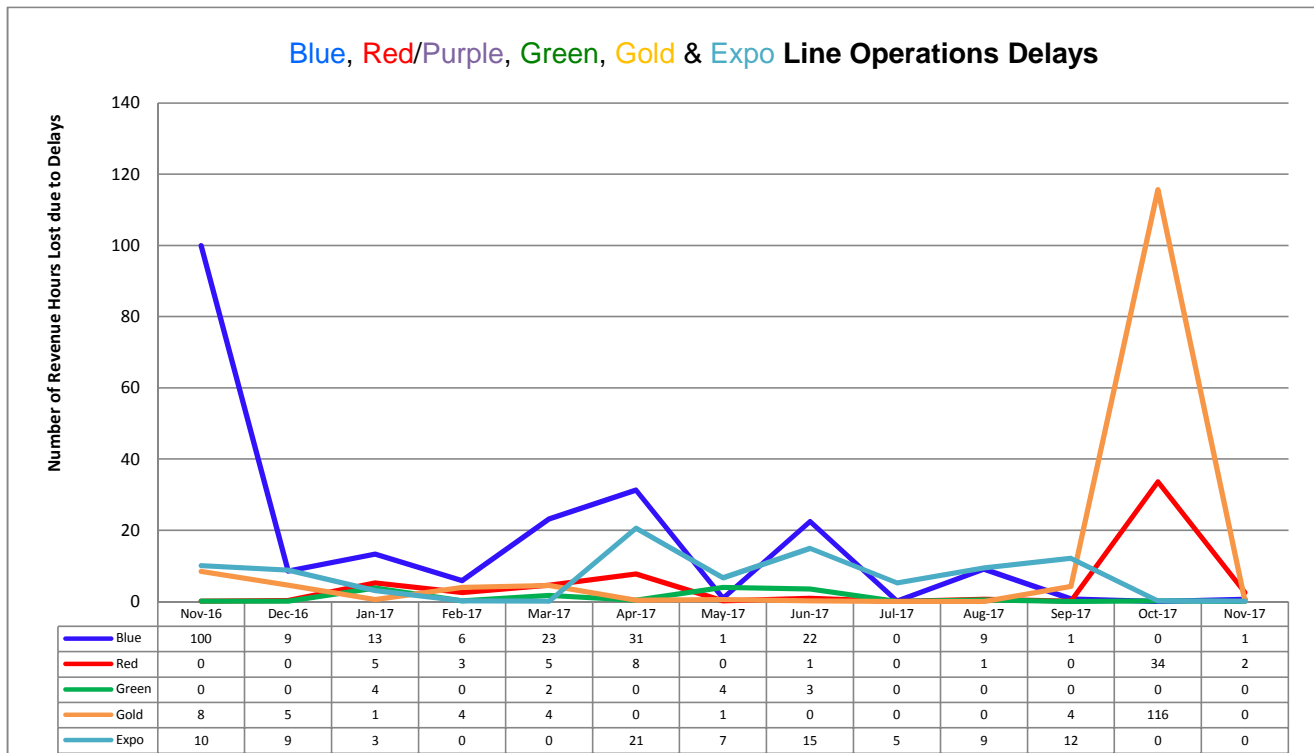


## RAIL DELAYS BY CATEGORY - SYSTEMWIDE

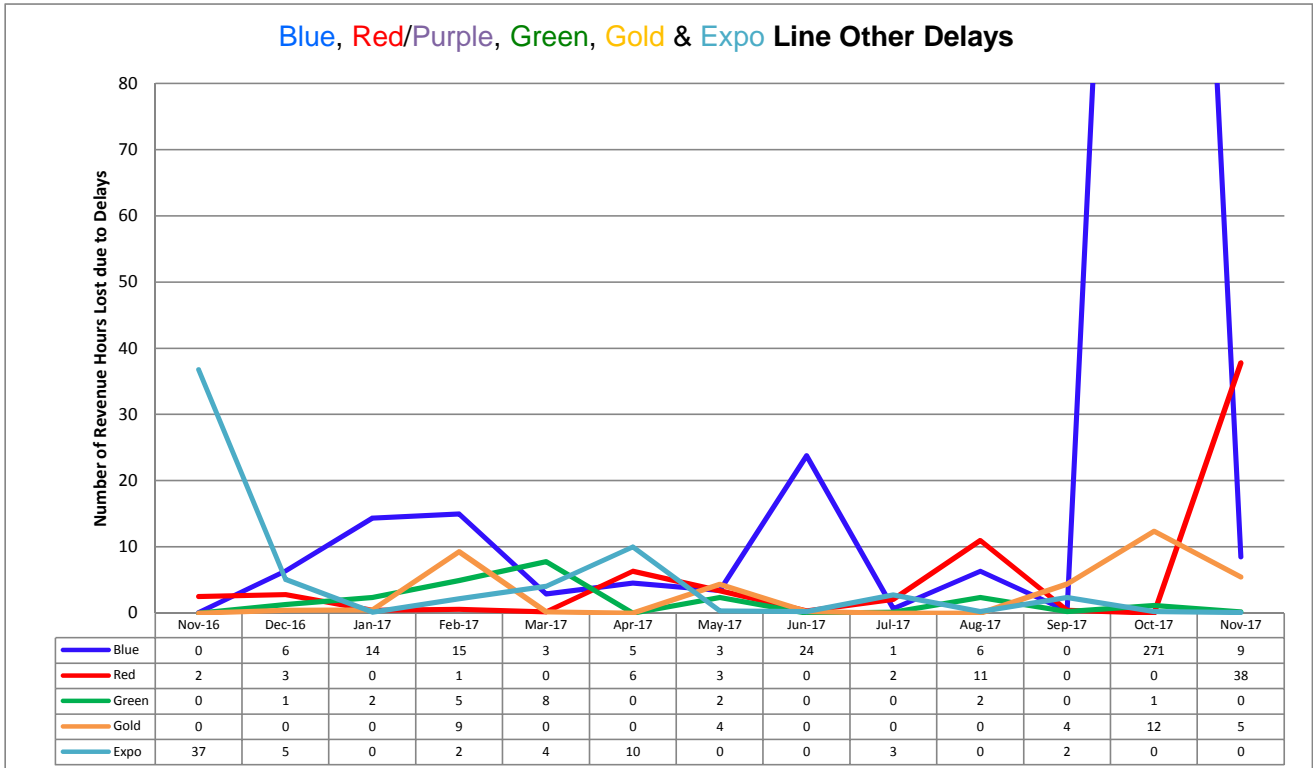
### Revenue Hours Lost Related to - ACCIDENTS



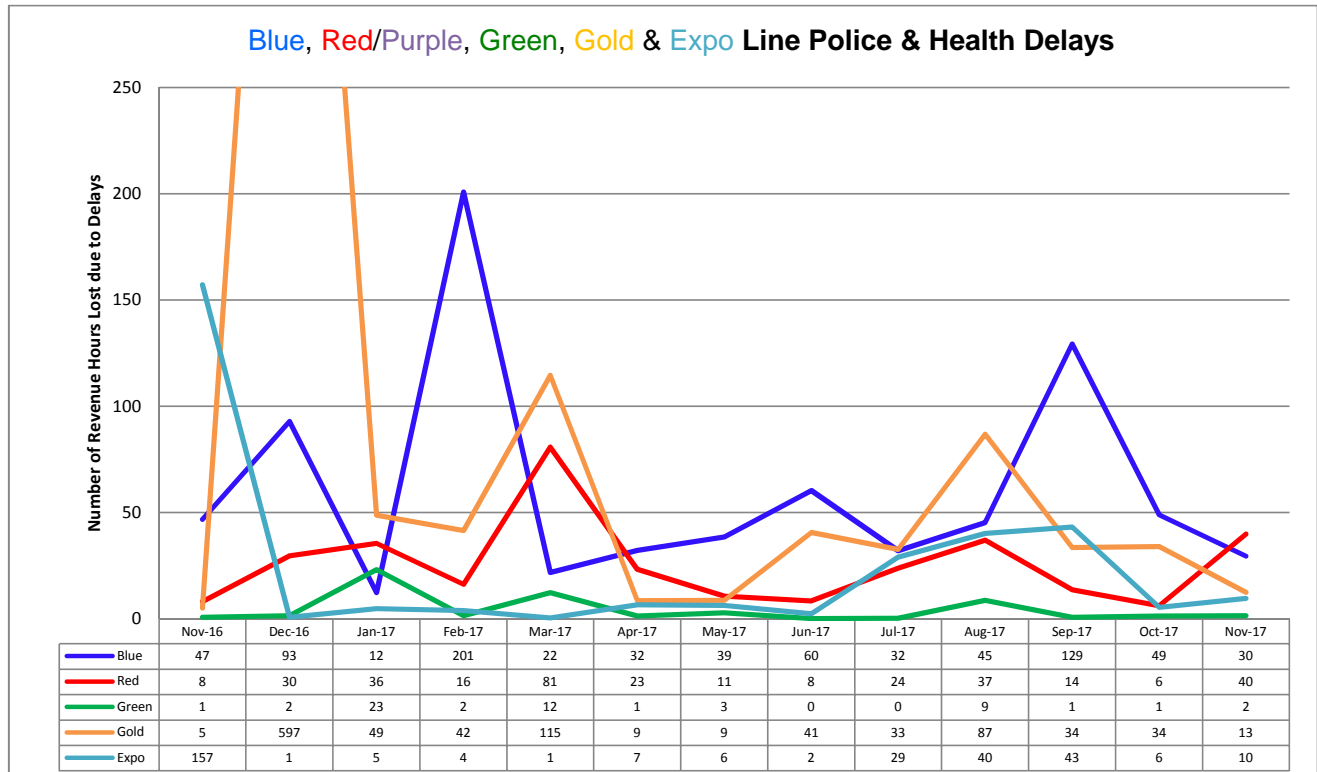
### Revenue Hours Lost Related to - OPERATIONS



### Revenue Hours Lost Related to - OTHER

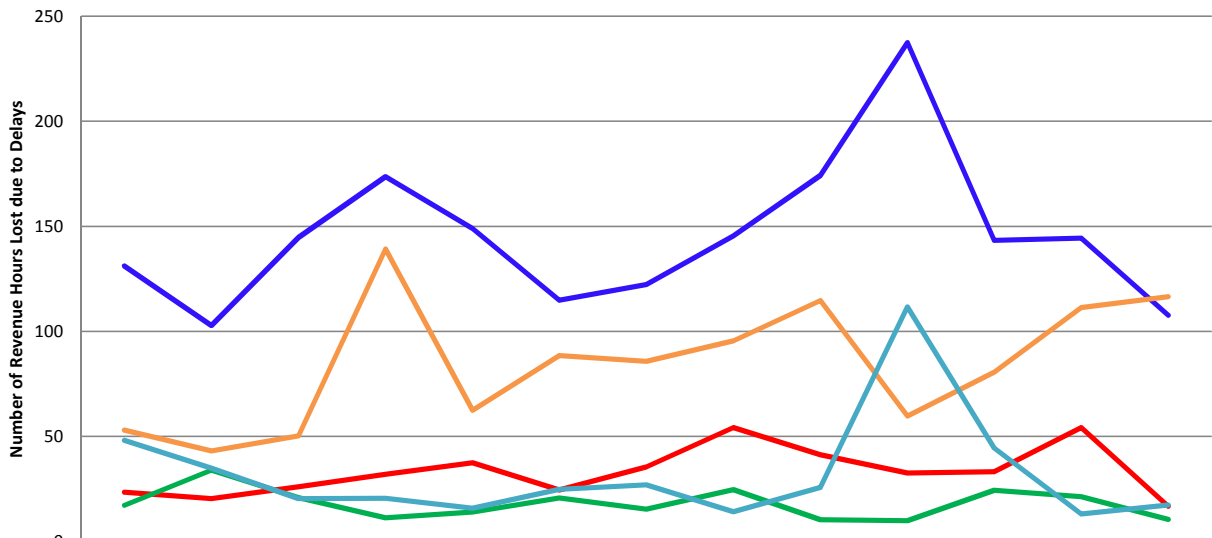


### Revenue Hours Lost Related to - POLICE & HEALTH



### Revenue Hours Lost Related to - Vehicle Delays

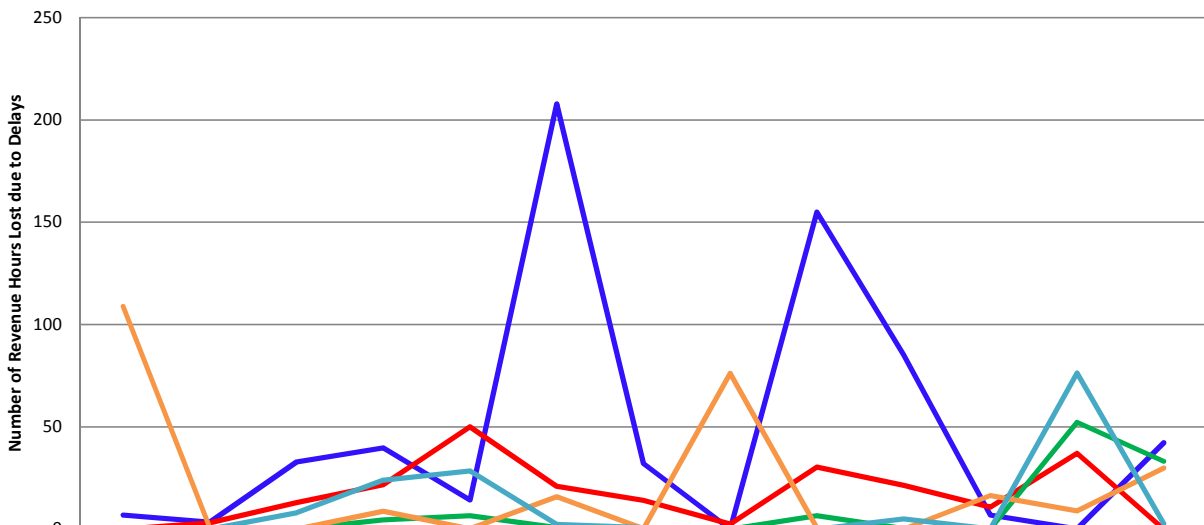
Blue, Red/Purple, Green, Gold & Expo Line Vehicle Delays



	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17
Blue	131	103	145	174	149	115	122	145	174	237	143	145	108
Red	24	20	26	32	38	25	36	54	41	33	33	54	17
Green	17	34	21	11	14	21	15	25	10	10	24	21	11
Gold	53	43	50	139	63	89	86	96	115	60	81	111	117
Expo	48	35	21	21	16	25	27	14	26	112	44	13	17

Revenue Hours Lost Related to - WAYSIDE

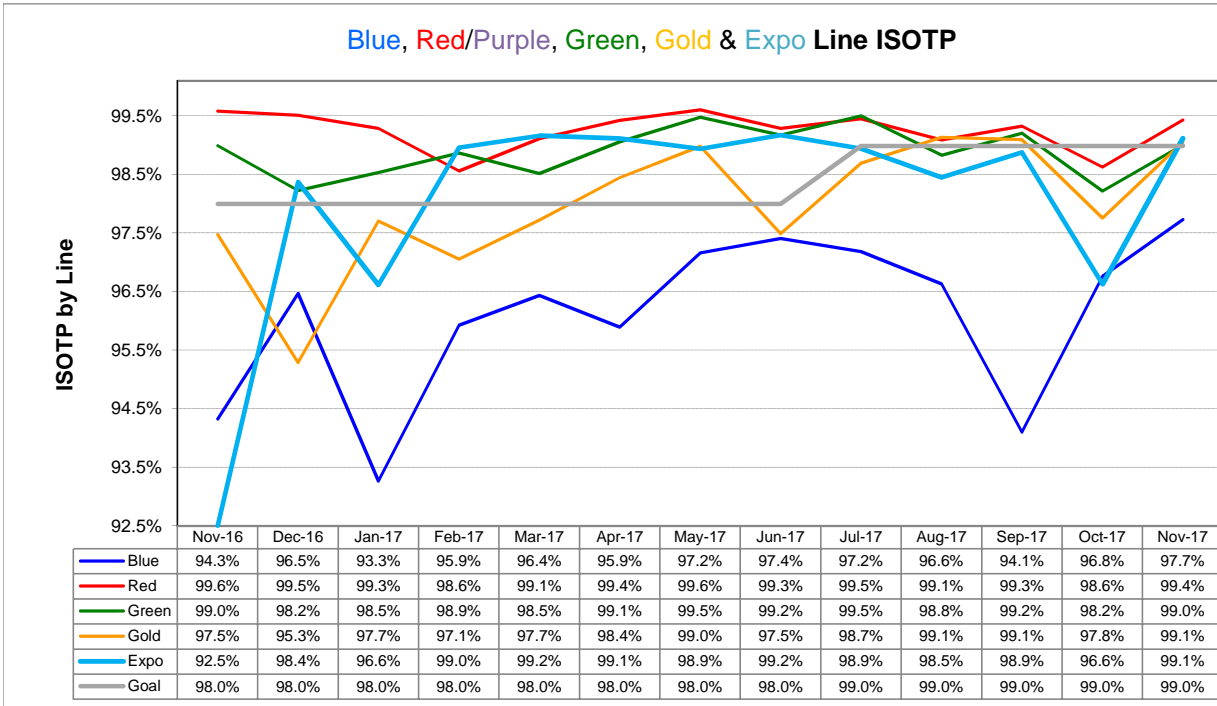
Blue, Red/Purple, Green, Gold & Expo Line Wayside Delays



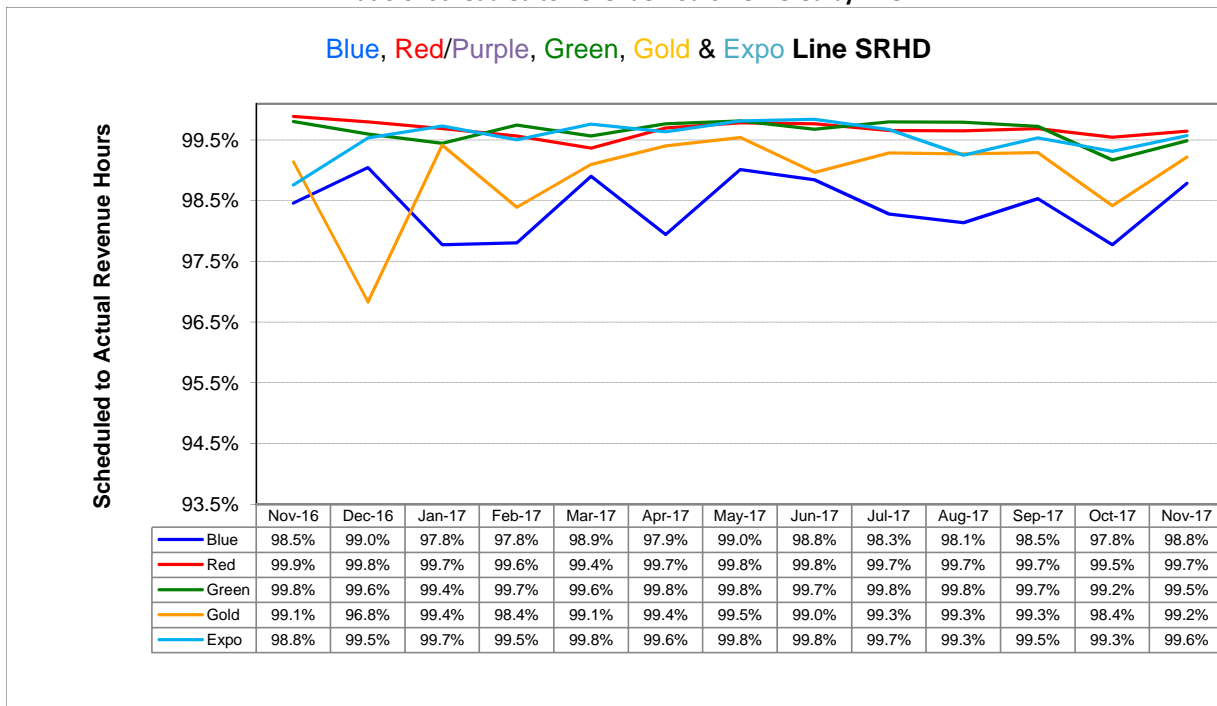
	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17
Blue	7	4	33	40	14	208	32	0	155	85	7	0	42
Red	0	3	13	22	50	21	14	3	30	21	11	37	0
Green	1	1	0	5	7	1	0	0	7	0	0	52	33
Gold	109	1	0	9	0	16	0	76	1	0	17	9	30
Expo	1	0	8	24	28	2	1	0	0	5	0	76	3

# Rail Service Performance

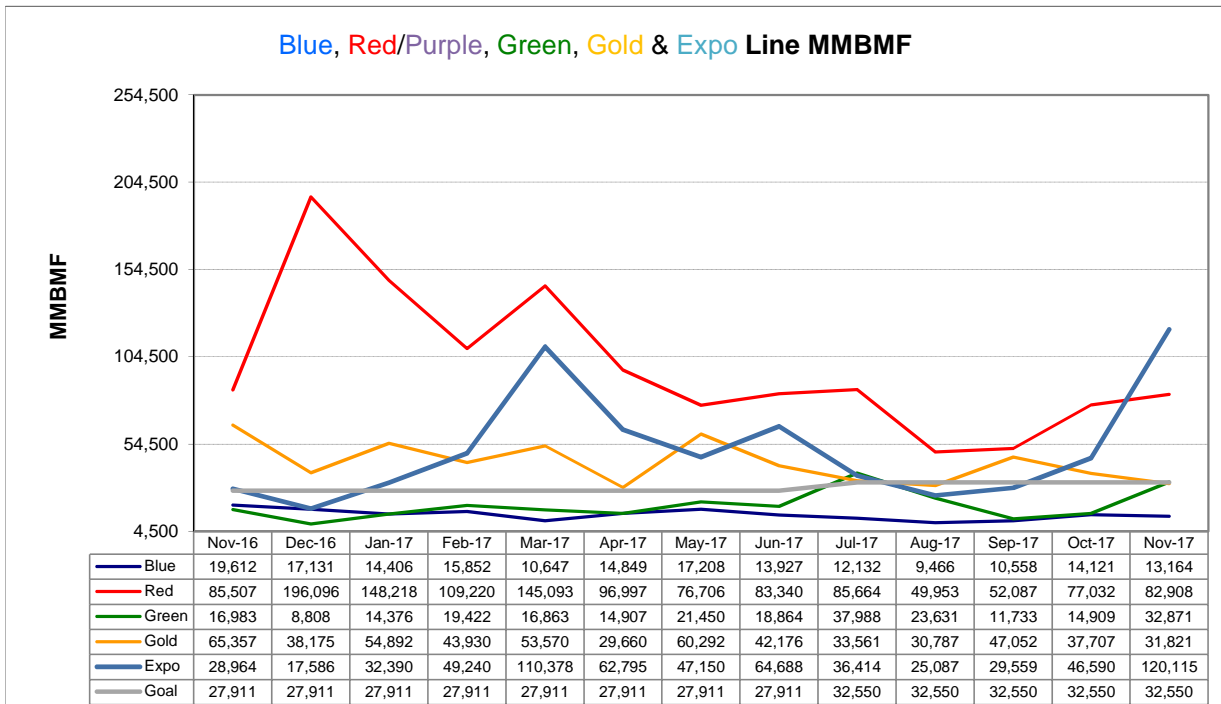
## In Service On Time Performance by Line



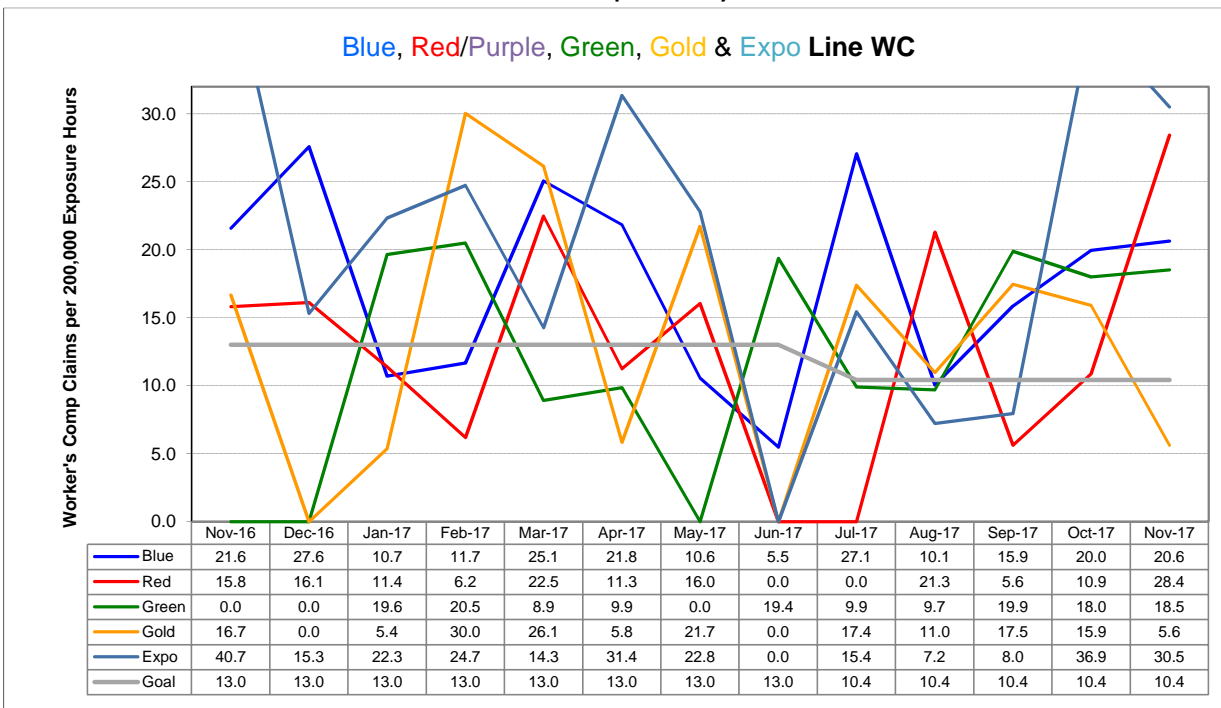
## Ratio of Scheduled to Revenue Hours Delivered by Line



### Mean Miles Between Mechanical Failures by Line



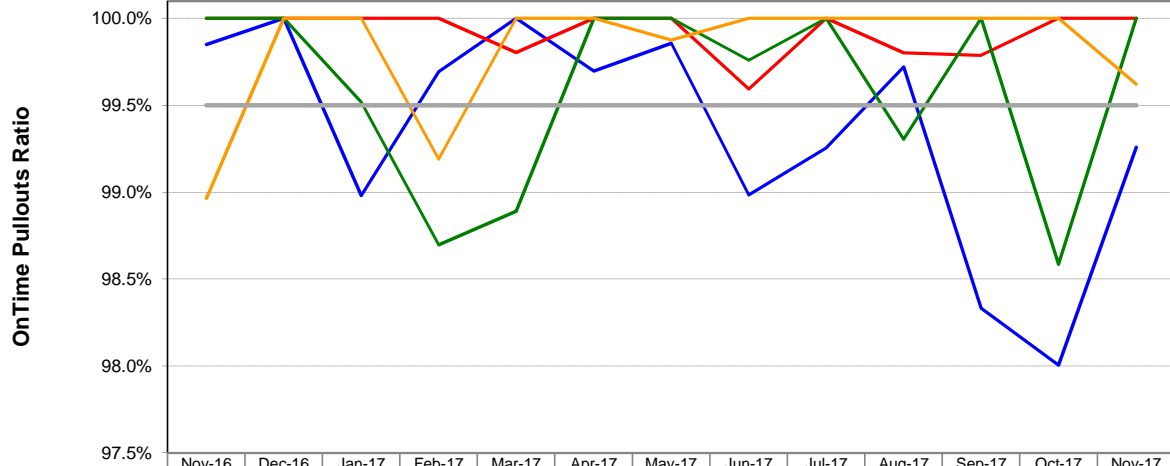
### Workers Comp Claims by Line





### On-Time Pullouts Ratio by Line

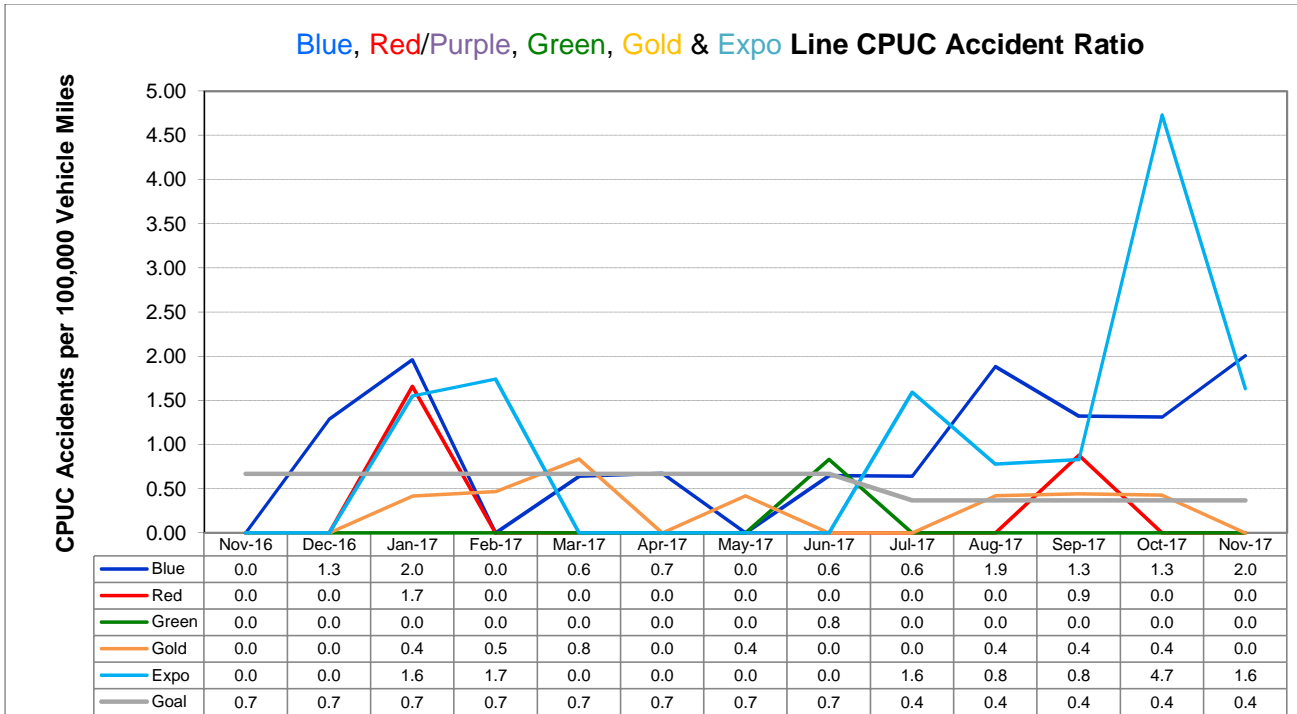
Blue, Red/Purple, Green, Gold & Expo Line OTP



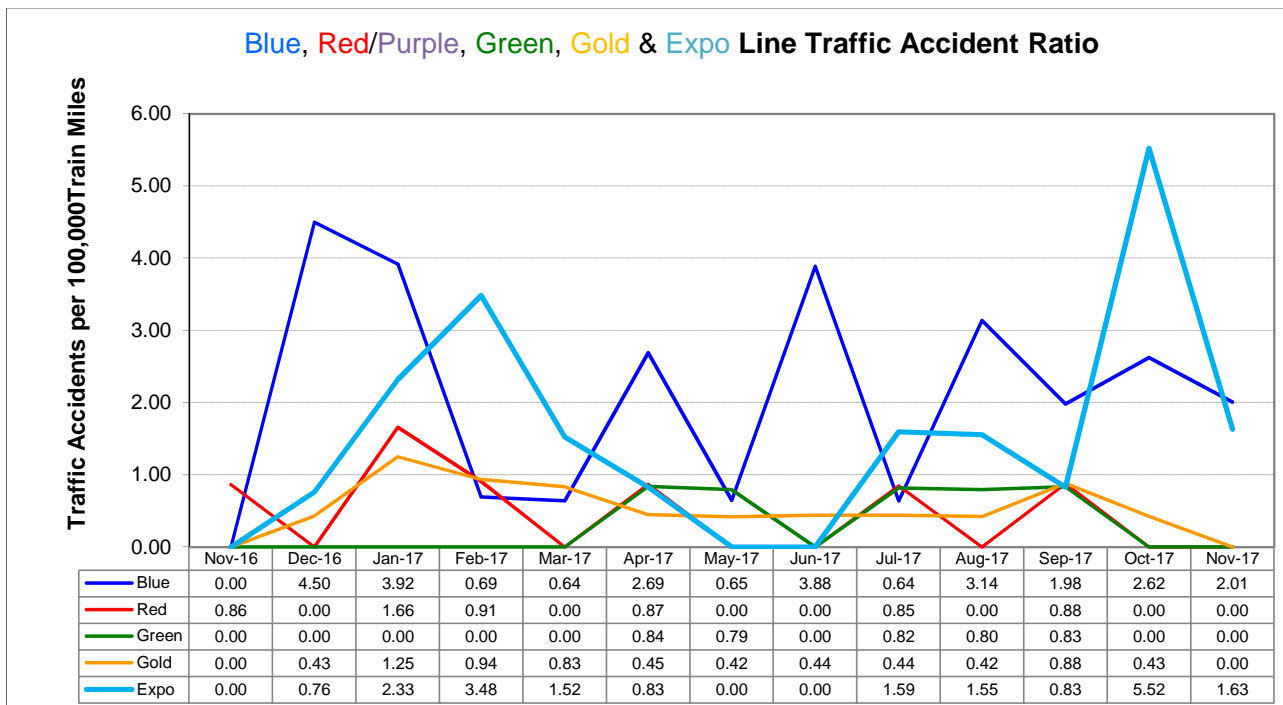
	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17
Blue	99.8%	100.0%	99.0%	99.7%	100.0%	99.7%	99.9%	99.0%	99.3%	99.7%	98.3%	98.0%	99.3%
Red	100.0%	100.0%	100.0%	100.0%	99.8%	100.0%	100.0%	99.6%	100.0%	99.8%	99.8%	100.0%	100.0%
Green	100.0%	100.0%	99.5%	98.7%	98.9%	100.0%	100.0%	99.8%	100.0%	99.3%	100.0%	98.6%	100.0%
Gold	99.0%	100.0%	100.0%	99.2%	100.0%	100.0%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	99.6%
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

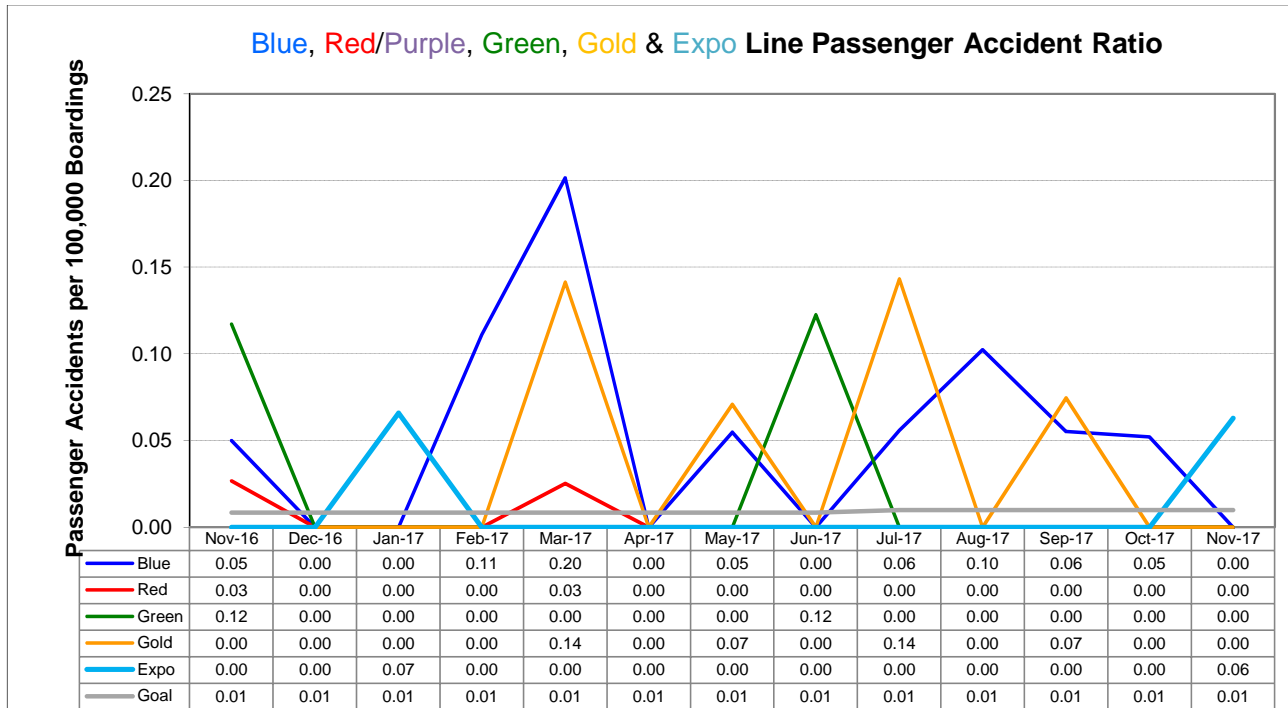
## CPUC REPORTABLE ACCIDENTS PER 100,000 TRAIN MILES



## TRAFFIC ACCIDENTS PER 100,000 TRAIN MILES

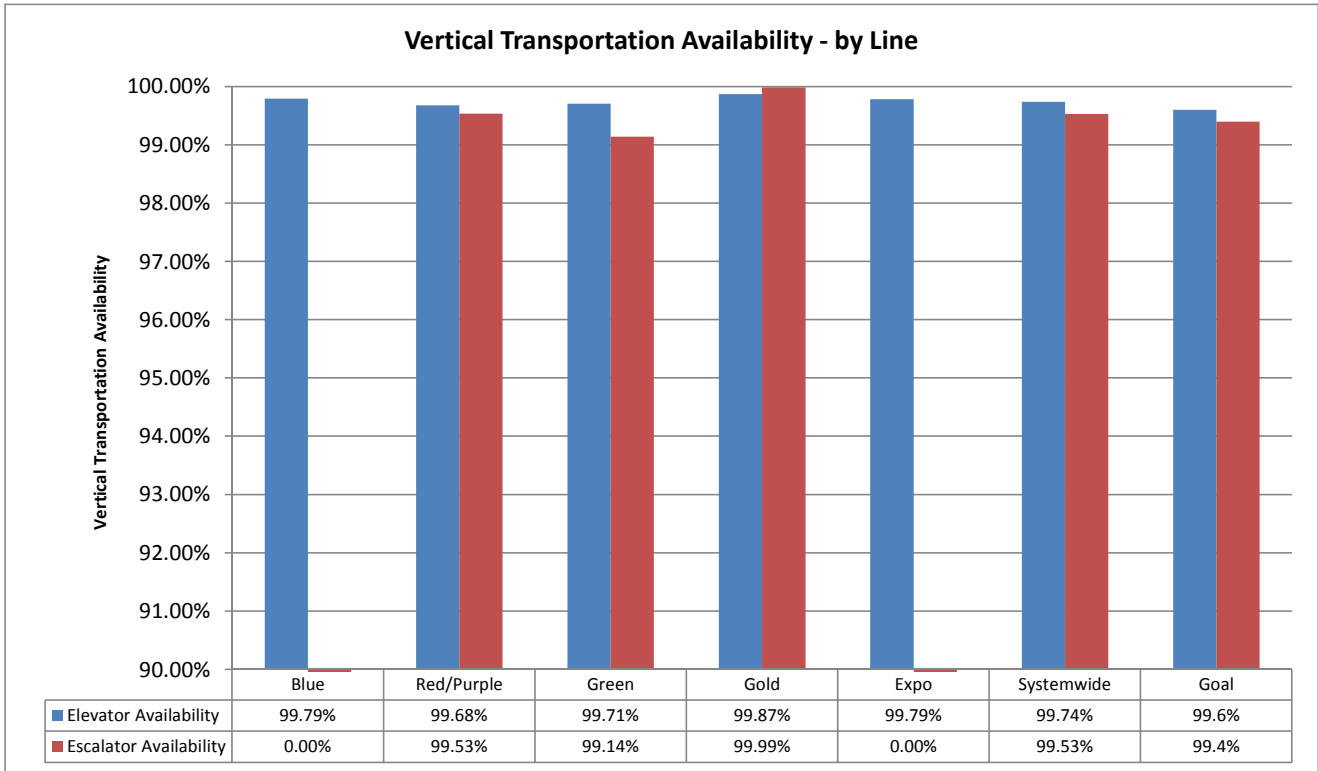


### PASSENGER ACCIDENTS PER 100,000 BOARDINGS



## Systemwide Vertical Transportation Availability by Line

Nov 2017

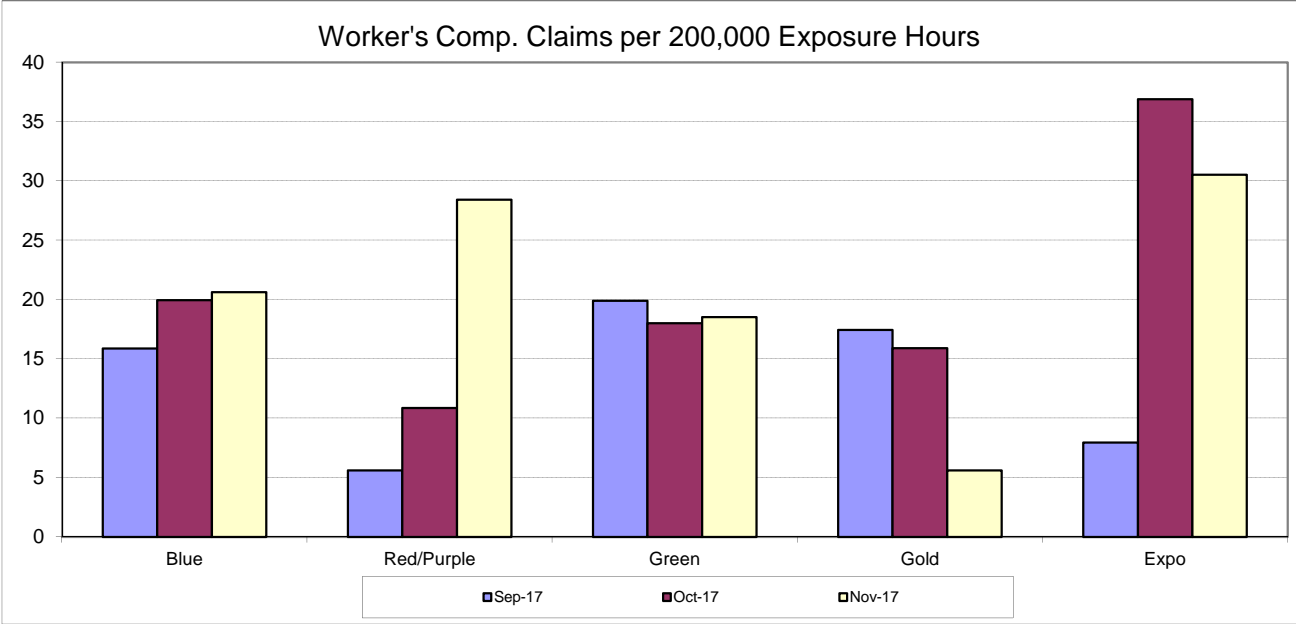


Note: No Escalators at Blue and Expo Lines

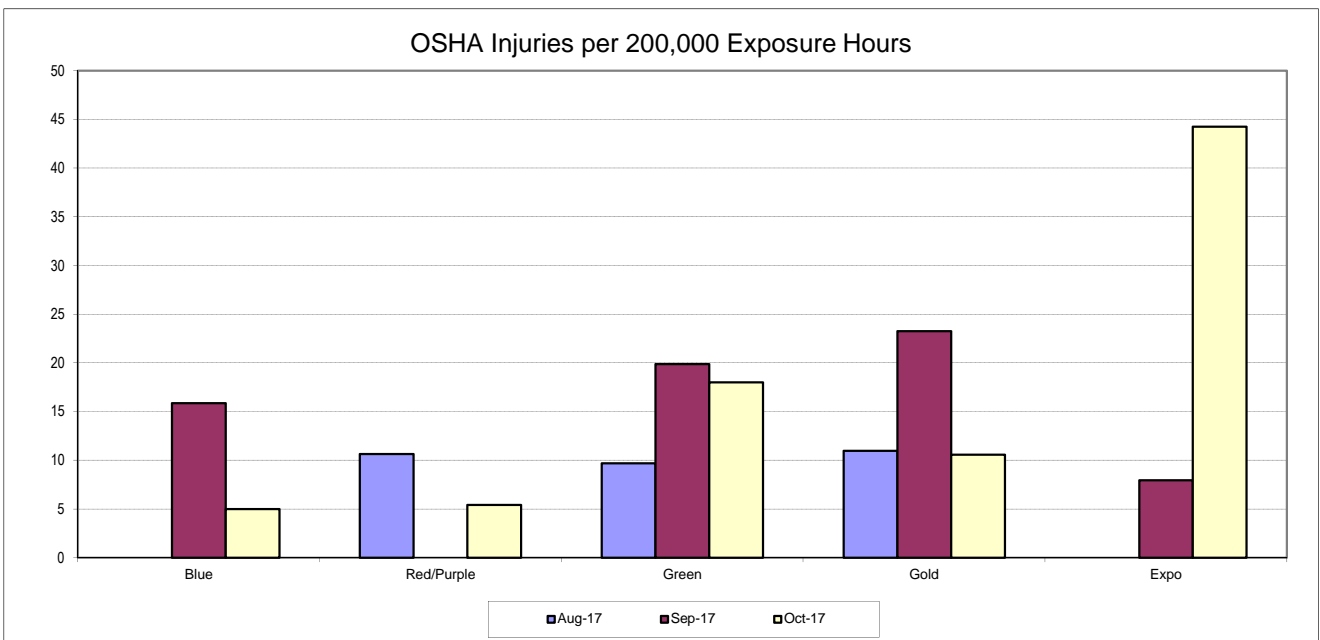
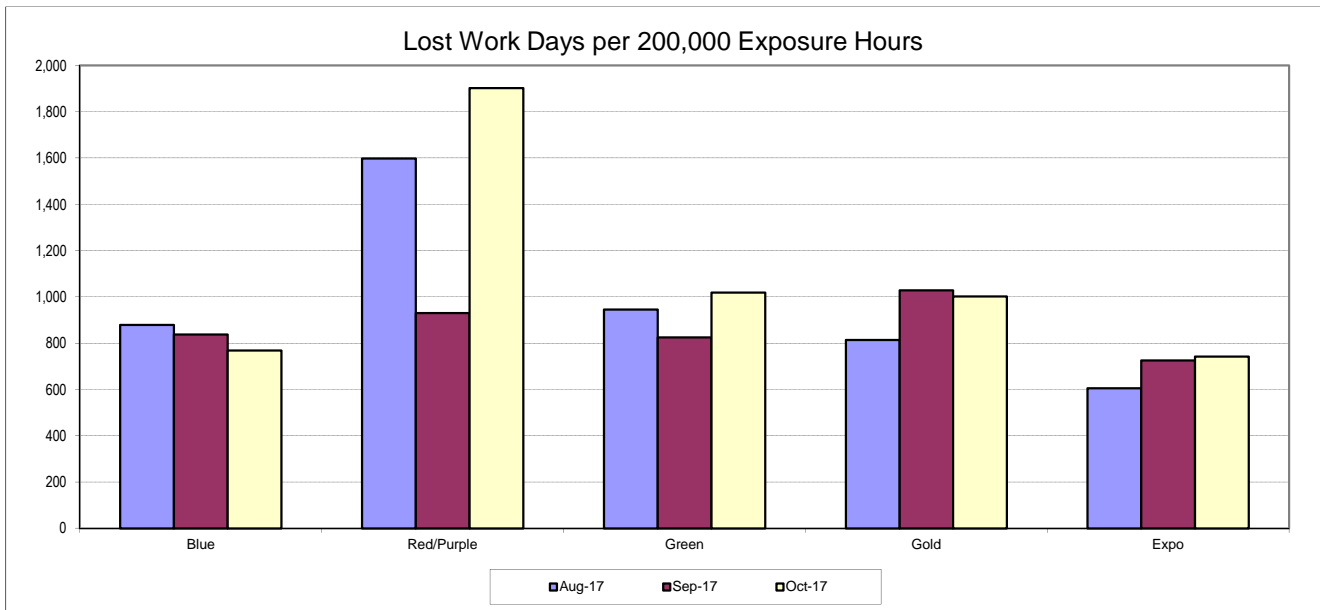
# Worker's Comp. Claims

Sep 2017 - Nov 2017

3 Month Comparison



## Lost Work Days and OSHA Injuries Aug 2017 - Oct 2017 3 Month Comparison



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

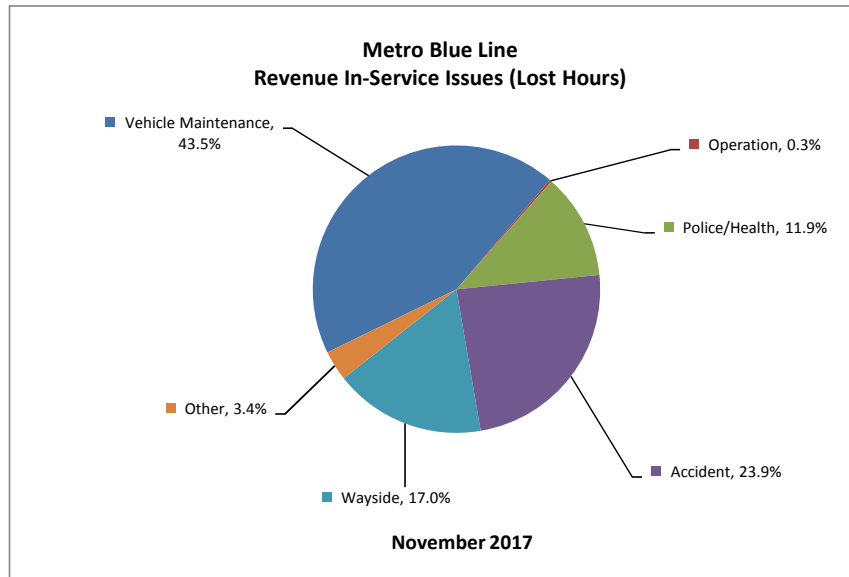
## BLUE LINE

Out of a total of 19,587 hours operated, there were approximately 248 total hours of service delays.

November 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	19,340	98.7%
Cancelled + Delayed Hours	248	1.3%
<b>Total Revenue Hours</b>	<b>19,587</b>	<b>100.0%</b>

Summary of the incidents:	Count	Hours	Percent
Operations	3	0.6	0.3%
Accidents	5	59.1	23.9%
Vehicle Maintenance	43	107.7	43.5%
Wayside	4	42.2	17.0%
Police & Health	10	29.5	11.9%
Other	4	8.5	3.4%
<b>Total</b>	<b>69</b>	<b>247.7</b>	<b>100.0%</b>

\* Data from M3 used to report Service Delays is under review for accuracy  
 The number of incidents on the following page may differ from the summary count due to some incidents not properly designated as cancelled or delayed



## **November 2017 Blue Line incidents causing delay were as follows:**

### **Operations Incidents:**

**11-02-2017 7:54:00 AM - Incident# 2929813 (0 lost trips, 12 lost minutes)**

Operator Late, misread the summary  
Train #116  
T-528  
Willow Station, Track #002, Southbound.

**11-14-2017 6:12:00 AM - Incident# 2934211 (0 lost trips, 16 lost minutes)**

10-100, cars #1099-1074-1080  
Train #113  
T-037  
Imperial Station, Track #001, Northbound.

**11-28-2017 5:39:00 AM - Incident# 2939787 (0 lost trips, 9 lost minutes)**

Out Late due to mechanical break down (ATP Failure)

### **Accidents:**

**11-01-2017 11:21:00 AM - Incident# 2929438 (1 lost trip, 168 lost minutes)**

10-73 Track 1 at 20th and Long Beach.

**11-06-2017 12:57:00 AM - Incident# 2931022 (1 lost trip, 168 lost minutes)**

Cancellation of Train 654

**11-07-2017 5:28:00 PM - Incident# 2931875 (18 lost trips, 3,020 lost minutes)**

Trespasser vs. Train  
Train 107  
T-130  
(100A)-125-119  
Southbound, Track 2 Alondra crossing.

**11-10-2017 5:52:00 PM - Incident# 2933223 (0 lost trips, 15 lost minutes)**

41st State grade crossing, Train-109 T-69 advises approximately 100 feet south of grade crossing automobile on ROW Track-2.

**11-21-2017 1:48:00 PM - Incident# 2937218 (1 lost trip, 177 lost minutes)**

Train vs. LAFD Vehicle at Intersection  
Train 104  
T-174  
(108B)-106-161  
Southbound, track 2 Washington and Olive.

### **Vehicle Maintenance Incidents:**

**11-01-2017 5:04:00 AM - Incident# 2929252 (1 lost trip, 174 lost minutes)**

Train 107 reports Friction Brake faults on car 119 at MP10.9 Track 2 at Rosecrans Flyover.

**11-02-2017 12:13:00 PM - Incident# 2929935 (0 lost trips, 14 lost minutes)**

Propulsion / Dynamic Brakes, 1099-(1083C)-1084  
Train #106  
T-201  
Wardlow Station, Track #002, Southbound.

**11-02-2017 1:42:00 PM - Incident# 2929967 (1 lost trip, 171 lost minutes)**

Friction Brakes, cars # (238)-215-231  
Train #106  
T-053  
Grand Station, Track #0002, Southbound.

**11-02-2017 3:43:00 PM - Incident# 2930015 (1 lost trip, 178 lost minutes)**

Prop Faults No Movement  
Train 101  
Cars: (249B)-240-301  
T-363  
Southbound, Track 2, 405 fwy.

**11-04-2017 9:07:00 AM - Incident# 2930671 (1 lost trip, 164 lost minutes)**



Propulsion / Dynamic Brakes  
Train 103  
T-200  
(121A)-155-112  
Northbound, Wardlow station Track 1.

**11-04-2017 9:49:00 AM - Incident# 2930674 (0 lost trips, 4 lost minutes)**

Car Body (Dirty windshield).  
Train 108  
T-335  
(102B)-163-167  
Southbound, Track 2 Washington Station.

**11-05-2017 8:50:00 AM - Incident# 2930875 (1 lost trip, 122 lost minutes)**

Propulsion / Dynamic Brakes  
Train 103  
T-281  
(1090A)-1097  
Northbound, Wardlow Track 1.

**11-06-2017 9:33:00 AM - Incident# 2931197 (0 lost trips, 6 lost minutes)**

Train 106 reports Overspeed with no movement, LRV 163A  
Train 106  
T-262  
LRV'S ( 163A ) 138-144  
Flower & 18th Street, track 2, south

**11-06-2017 10:30:00 AM - Incident# 2931247 (0 lost trips, 6 lost minutes)**

Train 119 reports re occurring Propulsion faults on LRV 236  
Train 119  
T-182  
LRV'S ( 236 ) 250-301  
Firestone station , Track 2, southbound.

**11-06-2017 4:04:00 PM - Incident# 2931437 (0 lost trips, lost minutes)**

No cab signal car 137B-138-144  
Train 125  
T-130  
Vernon station  
Track 1  
Northbound

**11-06-2017 7:54:00 PM - Incident# 2931485 (0 lost trips, 10 lost minutes)**

Propulsion fault no movement Olive and washington  
235-234-245  
T-053  
Train 118  
Track 1  
Northbound

**11-07-2017 4:34:00 PM - Incident# 2931845 (2 lost trips, 336 lost minutes)**

Propulsion / Dynamic Brakes  
Train 117  
T-082  
(301)-(239)-(250)  
Southbound, Track 2 Grand station.

**11-08-2017 9:21:00 AM - Incident# 2932141 (1 lost trip, 167 lost minutes)**

235 burning brakes  
Train 118  
T-281  
Tk 1 NB Imperial  
229-235-234

**11-08-2017 4:10:00 PM - Incident# 2932274 (0 lost trips, 10 lost minutes)**

Train 124 (247,237,231) T-110 reports ATP bypass fault indication in car 231.

**11-09-2017 7:08:00 AM - Incident# 2932434 (3 lost trips, 522 lost minutes)**

Propulsion fault no movement (1090B)  
Train # 102  
T-231  
Grand, track #2, southbound  
(1090B) 1099 1082

**11-09-2017 4:24:00 PM - Incident# 2932767 (1 lost trip, 174 lost minutes)**  
Train 128 (247,237,231) T-376, Main Yard Interlocking, track 1 reports propulsion fault, no movement.

**11-10-2017 4:25:00 AM - Incident# 2932882 (2 lost trips, 332 lost minutes)**  
Prop Fault/Speed Restriction of 35 mph  
Train 104  
T-495  
(101A)-157-100  
Willow Station, Track 2, Northbound

**11-10-2017 7:50:00 AM - Incident# 2932953 (2 lost trips, 340 lost minutes)**  
Friction Brakes self applied, no movement  
Train # 102  
T-231  
Willow Pocket, northbound  
231 247 (233)

**11-10-2017 1:03:00 PM - Incident# 2933094 (3 lost trips, 518 lost minutes)**  
No movement at Willow, track #2, southbound.  
Train # 119  
T-355  
Departing Willow, southbound, track #2.  
(1094 1088 1089)

**11-11-2017 4:53:00 AM - Incident# 2933259 (0 lost trips, 7 lost minutes)**  
  
Train 107 reports losing air and no movement north of Wardlow Station on track 2. Also reported some door problem on both LRV.  
Train 107  
T-246  
LRV'S 154-137  
Track 2, north of Wardlow Station.

**11-11-2017 11:51:00 AM - Incident# 2933363 (0 lost trips, 4 lost minutes)**  
Propulsion / Dynamic Brakes  
Train 105  
T-256  
(248A)-244  
Southbound, Track 2 Imperial station.

**11-11-2017 8:27:00 PM - Incident# 2933470 (0 lost trips, 10 lost minutes)**  
Rail car 112A has a 40mph over speed at a 55 mph speed code.  
Train 107  
(112A)-142  
T-75  
Del Amo Station Track #1 Northbound

**11-13-2017 4:52:00 PM - Incident# 2934105 (1 lost trip, 174 lost minutes)**  
Doors  
Train 126  
T-043  
114-(137)-164  
Southbound, track 2 Florence station.

**11-13-2017 5:00:00 PM - Incident# 2934093 (3 lost trips, 523 lost minutes)**  
Operator reports of no movement  
Train 126  
T-043  
114-137-164  
Slauson Station, Trk. 2, southbound

**11-14-2017 12:52:00 PM - Incident# 2934416 (0 lost trips, 12 lost minutes)**

Prop faults when braking car 250  
Train 106  
T-43  
Tk 1 NB Compton  
250-249-235

**11-15-2017 4:49:00 AM - Incident# 2934661 (1 lost trip, 167 lost minutes)**

Unable to pick up cab signal  
Train 109  
T-528  
(248)-244-236  
Willow N/B TRK 1

**11-16-2017 6:19:00 AM - Incident# 2935170 (1 lost trip, 167 lost minutes)**

Train 110 reports Propulsion faults on cars 125A, 115, 110 at 103rd station.

**11-16-2017 7:57:00 PM - Incident# 2935492 (1 lost trip, 167 lost minutes)**

X-2 reports it appeared that train 106 (151,119,114) T-258 is missing the windows on doors 3,4 car 119. Observation was made as train was departing 7th & Metro.

**11-17-2017 6:38:00 PM - Incident# 2935947 (0 lost trips, 12 lost minutes)**

Train 126 (239,249,238) T-528, Vernon Station, track 1 reports reoccurrin door problem.

**11-18-2017 8:26:00 AM - Incident# 2936076 (0 lost trips, 3 lost minutes)**

Doors (End relays on all 3 cars)  
Train 110  
T-233  
(229)-(250)-(242)  
Northbound, Track 1 Washington station.

**11-18-2017 11:06:00 AM - Incident# 2936091 (1 lost trip, 164 lost minutes)**

Propulsion / Dynamic Brakes  
Train 106  
T-307  
157-104-(111B)  
Northbound, Track 1 Pacific station.

**11-18-2017 7:40:00 PM - Incident# 2936201 (1 lost trip, 175 lost minutes)**

No Movement  
Train # 111  
T-326  
1082-1078-1090  
SB, Washington Interlocking, Track #2

**11-20-2017 6:28:00 AM - Incident# 2936535 (1 lost trip, 174 lost minutes)**

Train 117 lost cab signal with emergency braking  
(239A)-249-238  
T-264 southbound  
405 freeway Track2

**11-20-2017 7:06:00 PM - Incident# 2936896 (1 lost trip, 167 lost minutes)**

No movement, no cab signal 1078-1093-1088  
Train 119  
T-0286  
Track 2  
Southbound  
Washington IL

**11-21-2017 4:51:00 AM - Incident# 2936982 (1 lost trip, 167 lost minutes)**

Propulsion / Dynamic Brakes  
(246A)-240-233  
Train 101  
T-182  
Pico Station, Southbound, Track 2

**11-21-2017 10:52:00 AM - Incident# 2937186 (1 lost trip, 167 lost minutes)**

Prop Vent fault on 239A B truck.  
Train 118  
T-335  
Transit Mall  
239-250-236

**11-22-2017 7:13:00 AM - Incident# 2937486 (0 lost trips, 8 lost minutes)**  
103rd St Station, Train-106 T-54 cars 125/135/160 with ATP Failure on car #125A.

**11-24-2017 10:04:00 AM - Incident# 2938065 (1 lost trip, 118 lost minutes)**  
Operator reports of train stopping every five (5) feet  
train 105  
T-076  
(125B)112  
Spring Street, Trk. 1, northbound

**11-25-2017 3:42:00 PM - Incident# 2938438 (1 lost trip, 116 lost minutes)**  
Self applying brakes  
Train 106  
T-110  
Cars (246)-249  
Wardlow station tk1 north

**11-27-2017 6:01:00 AM - Incident# 2938785 (2 lost trips, 341 lost minutes)**  
Prop Faults with Speed Restriction  
Train 110  
T-292  
(163A)-148-156  
Pico Station, Track 2, Southbound

**11-28-2017 5:49:00 AM - Incident# 2939205 (0 lost trips, 12 lost minutes)**  
Auto Train Protection (Speed Limit)  
(1099)-1075-1094  
Train 102  
T-125  
Willow, Southbound, Track 2

**11-28-2017 6:05:00 AM - Incident# 2939223 (1 lost trip, 167 lost minutes)**  
Auto Train Protection (Speed Limit)  
(125)-112-148  
Train 104  
T-211  
Wardlow, Southbound, Track 2

**11-29-2017 5:58:00 AM - Incident# 2939676 (1 lost trip, 179 lost minutes)**  
No Fault - No Movement  
(235)-246-242  
Train 107  
T-335  
Main Yard, Track 1, Northbound

**11-30-2017 6:41:00 AM - Incident# 2940145 (0 lost trips, 10 lost minutes)**  
Recurring propulsion fault  
T-281 Train #115 car234B-242-246  
Northbound at Del Amo.

#### **Wayside Incidents:**

**11-01-2017 6:38:00 AM - Incident# 2929310 (2 lost trips, 351 lost minutes)**  
BO4 at 9th and Pacific and BO5 at 1st st TPSS uncommanded opening causing loss of traction power from 1st st station to Pacific station. Train 104 was stopped at 3rd and Pacific Intersection.

**11-01-2017 12:35:00 PM - Incident# 2929456 (2 lost trips, 355 lost minutes)**  
Broken crossing gate fell onto the OCS track 1 at Compton grade crossing.

**11-04-2017 11:47:00 PM - Incident# 2930806 (5 lost trips, 821 lost minutes)**  
Switches 21A and 21B out of correspondence  
7th/Metro South Interlocking

**11-16-2017 12:56:00 PM - Incident# 2935337 (0 lost trips, lost minutes)**  
Signal power failure between Vernon and Washington station.

**11-22-2017 8:29:00 PM - Incident# 2937775 (6 lost trips, 1,007 lost minutes)**  
ARINC indicates B-02 at Pico TPSS open with "local" indication, deenergized track 1 between Pico and 7th & Metro Station. with train 605 (107,141,167) T-529 stuck in deenergized track.

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

**11-02-2017 7:59:00 AM - Incident# 2929785 (0 lost trips, 9 lost minutes)**

Sick Individual, (male white having a seizure) cars #149-(157B)-102  
Train #114  
T-087  
Pacific Station, Northbound.

**11-08-2017 12:50:00 AM - Incident# 2931958 (0 lost trips, 20 lost minutes)**  
Attempted threat of assault with knife to another passenger on the train at Compton.

**11-11-2017 4:38:00 PM - Incident# 2933436 (0 lost trips, 5 lost minutes)**  
Train #104, Operator T-272, reports there's male patron claiming he unable see as he lost his vision.  
Cars #160-(149-A).

**11-12-2017 10:08:00 PM - Incident# 2933701 (0 lost trips, 18 lost minutes)**  
Sleeper on board the train  
T-353  
Cars (113) 104  
SB, Metro Center, Track 2  
Train 109

**11-14-2017 5:57:00 AM - Incident# 2934820 (0 lost trips, 11 lost minutes)**  
Trespasser at Signal 5N Main Yard.

**11-14-2017 5:59:00 PM - Incident# 2934556 (1 lost trip, 168 lost minutes)**  
Physical altercation  
Firestone station.

**11-18-2017 2:12:00 PM - Incident# 2936133 (1 lost trip, 169 lost minutes)**  
Sick Individual (slip and fall on board).  
Train 102  
T-307  
1085-1077-(1091A)  
Northbound, track 1 departing Wardlow station.

**11-23-2017 9:02:00 PM - Incident# 2937938 (0 lost trips, 8 lost minutes)**  
Weapon Possession  
Train # 110  
T-21  
241-242  
NB, Pacific Coast Highway Station, Track #1

**11-27-2017 3:51:00 PM - Incident# 2939044 (2 lost trips, 347 lost minutes)**  
Traffic accident MTA not involved at Pacific and 3rd

**11-27-2017 5:08:00 PM - Incident# 2939069 (6 lost trips, 1,020 lost minutes)**  
Blockade at Washington and Maple  
T-253  
Train 105  
Track 2  
Southbound  
Maple

**Other Incidents:**

**11-01-2017 3:31:00 PM - Incident# 2929548 (0 lost trips, 4 lost minutes)**  
Train 104 Southbound Reported dirty car (127A)-106

**11-06-2017 1:35:00 AM - Incident# 2931028 (0 lost trips, lost minutes)**  
Commercial Building Fire in front of San Pedro Station.

**11-08-2017 5:14:00 AM - Incident# 2931986 (0 lost trips, 5 lost minutes)**  
Train 111 pulled out of yard 7 minutes late due to yard move blocking yard limit tracks.

**11-08-2017 8:38:00 AM - Incident# 2932136 (1 lost trip, 167 lost minutes)**  
Train 115 prop fault lost movement on approach to 7th/Metro  
231-237-247  
7th/Metro  
T-376

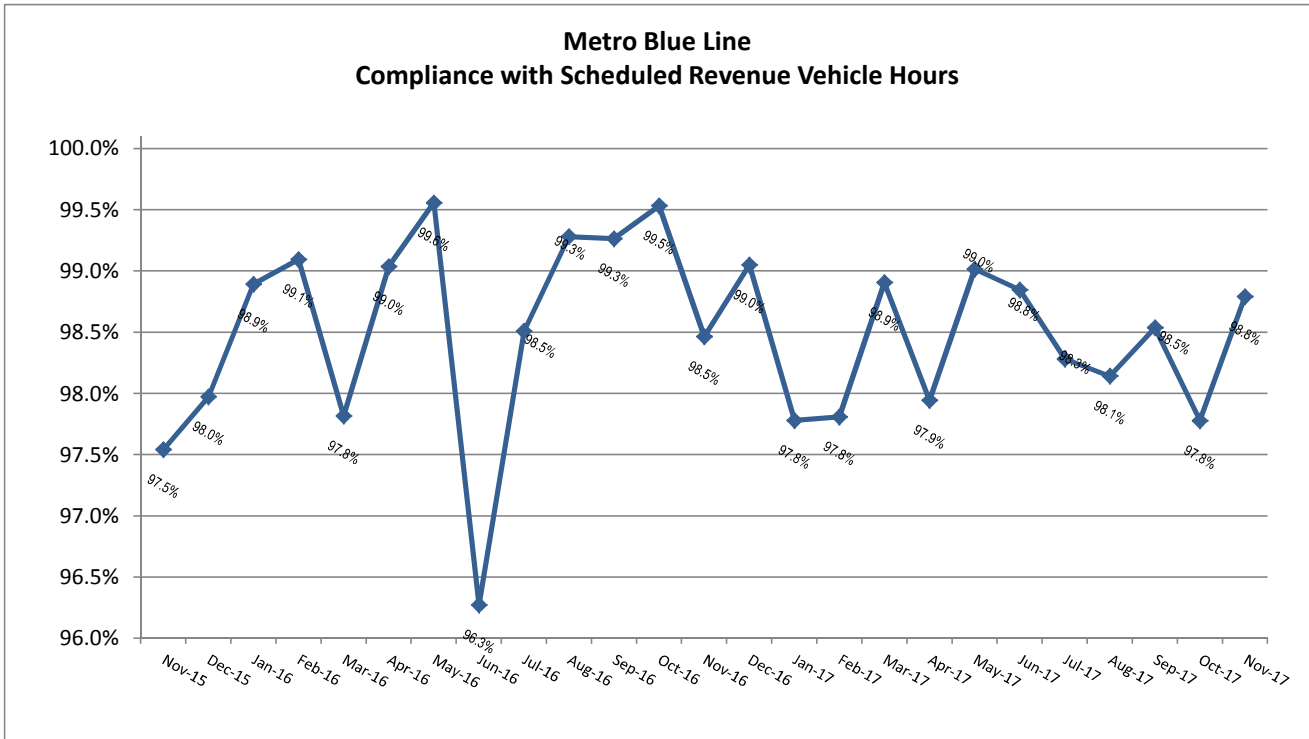
**11-10-2017 5:13:00 AM - Incident# 2932893 (0 lost trips, lost minutes)**

Late Pull-Out for Train 605  
Train 605  
T-26  
137-102-163  
Mainyard Yard Limits

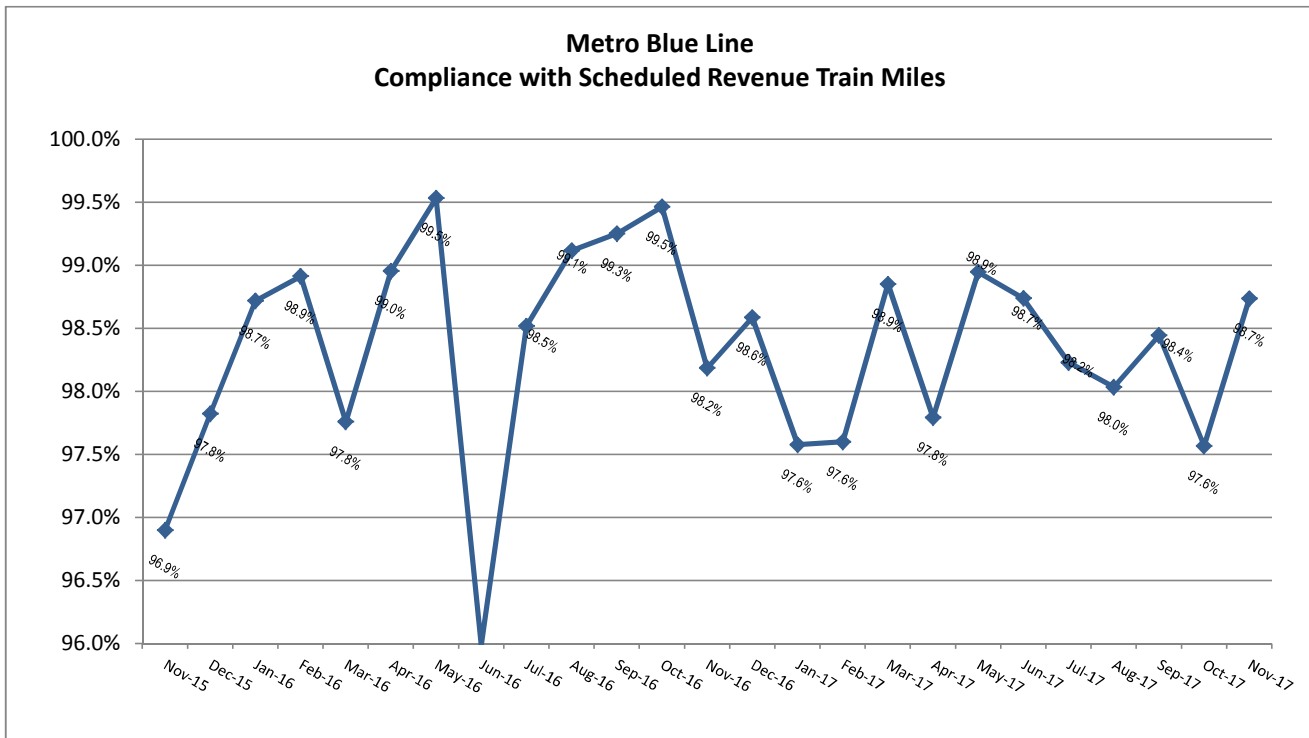
**11-27-2017 5:09:00 AM - Incident# 2938717 (2 lost trips, 335 lost minutes)**  
Late pull out for Train 111

# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

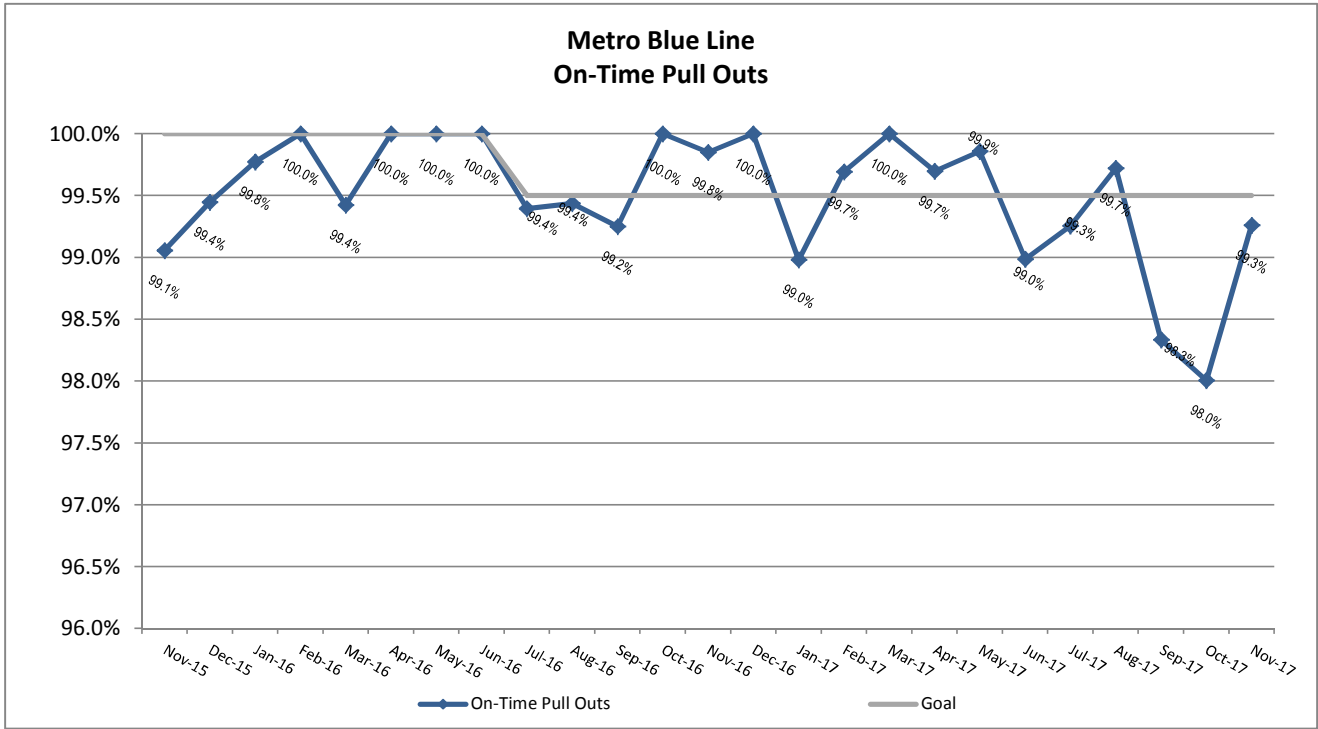
## COMPLIANCE WITH SCHEDULED VEHICLE HOURS



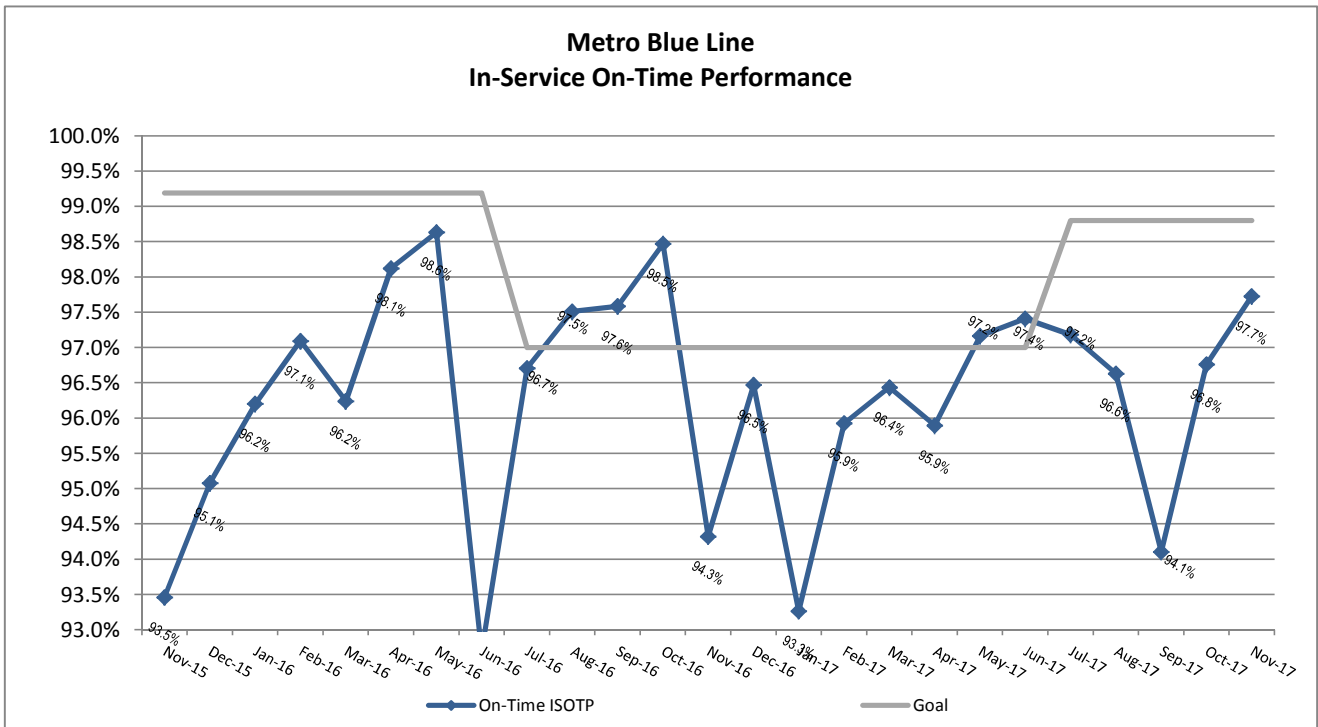
## COMPLIANCE WITH SCHEDULED TRAIN MILES



### ON-TIME PULL OUTS

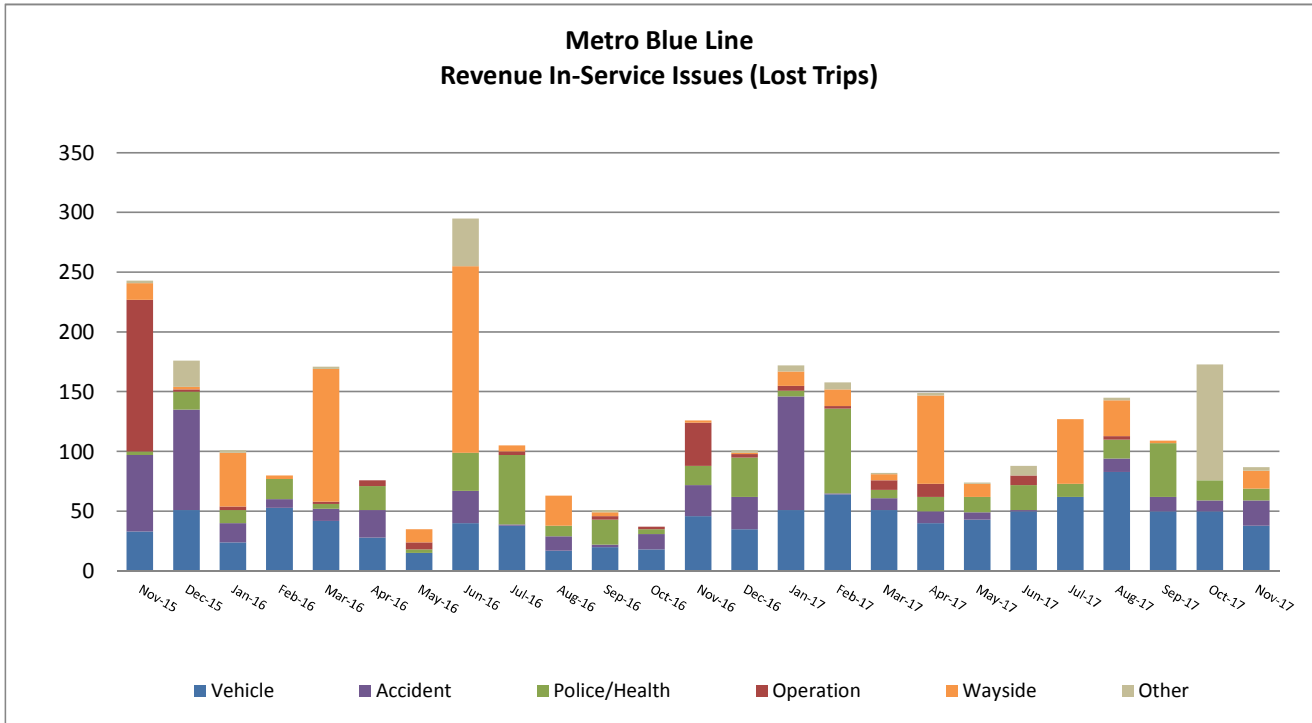


### IN-SERVICE ON-TIME PERFORMANCE CHART

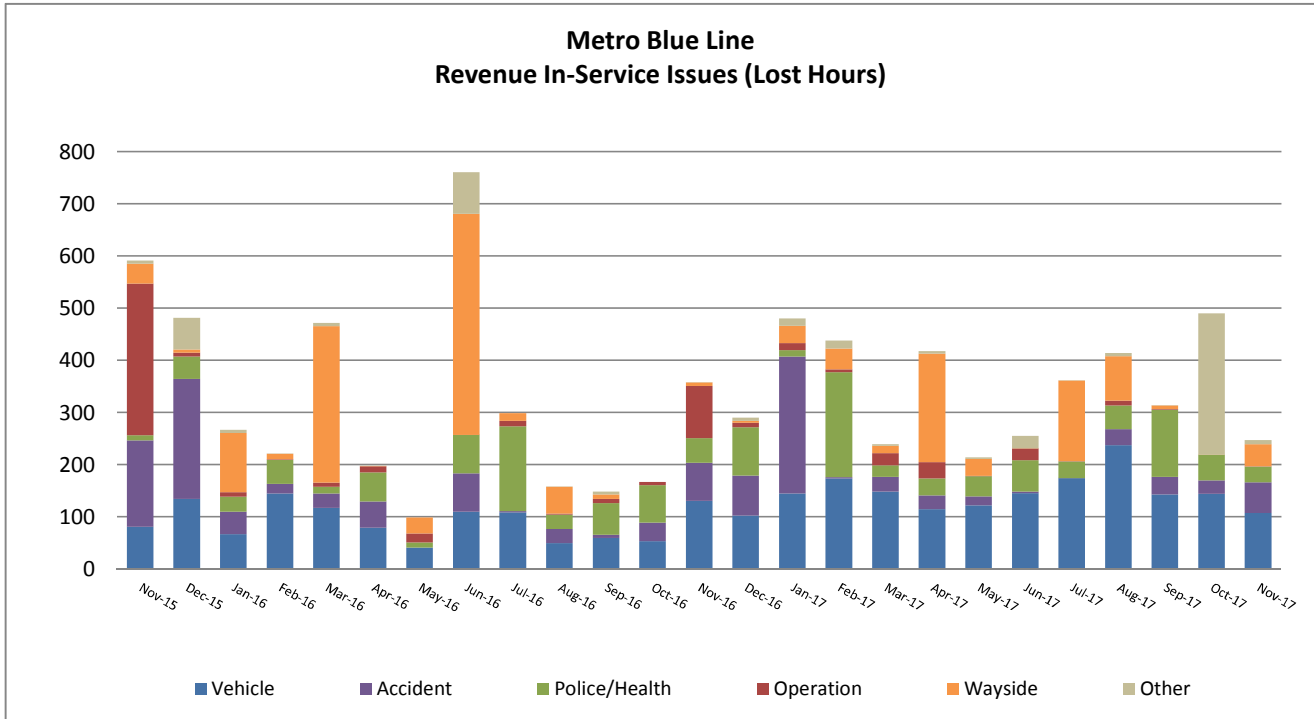




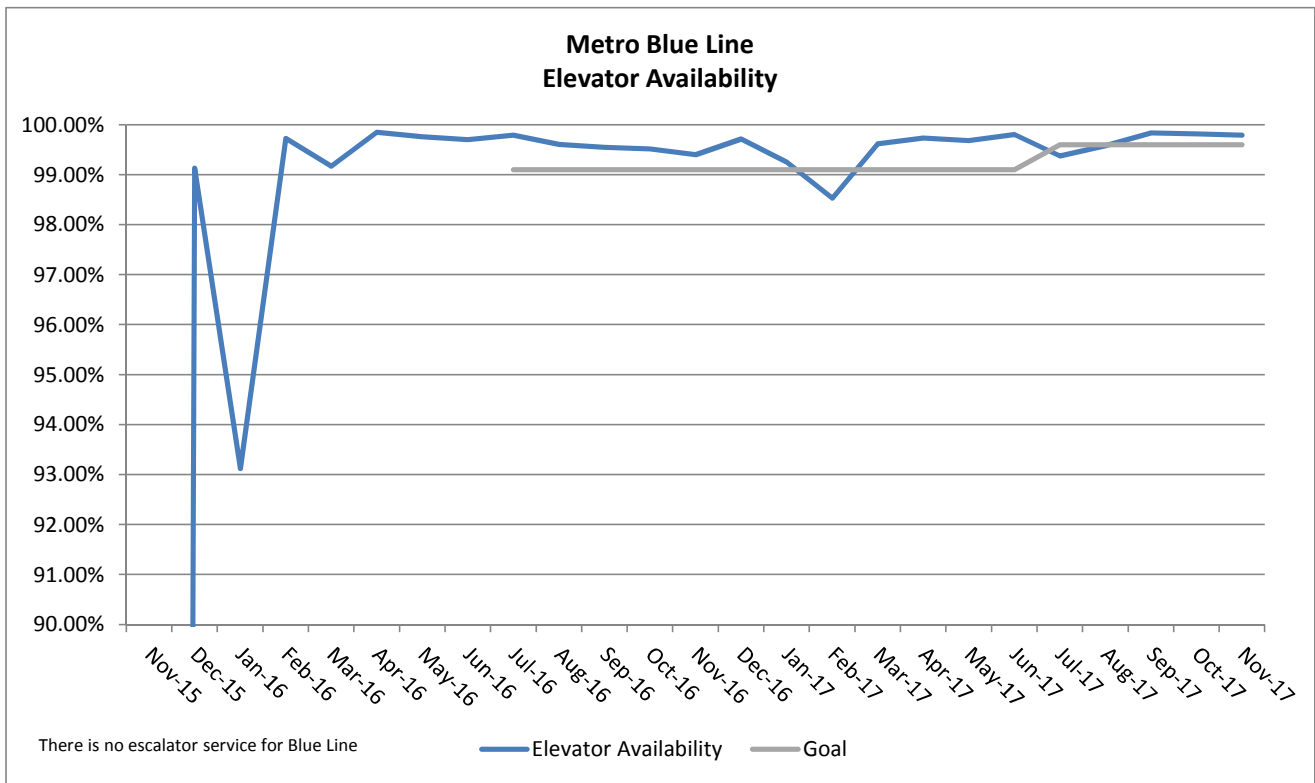
## LOST TRIPS



## LOST HOURS



# VERTICAL TRANSPORTATION AVAILABILITY



## RED LINE

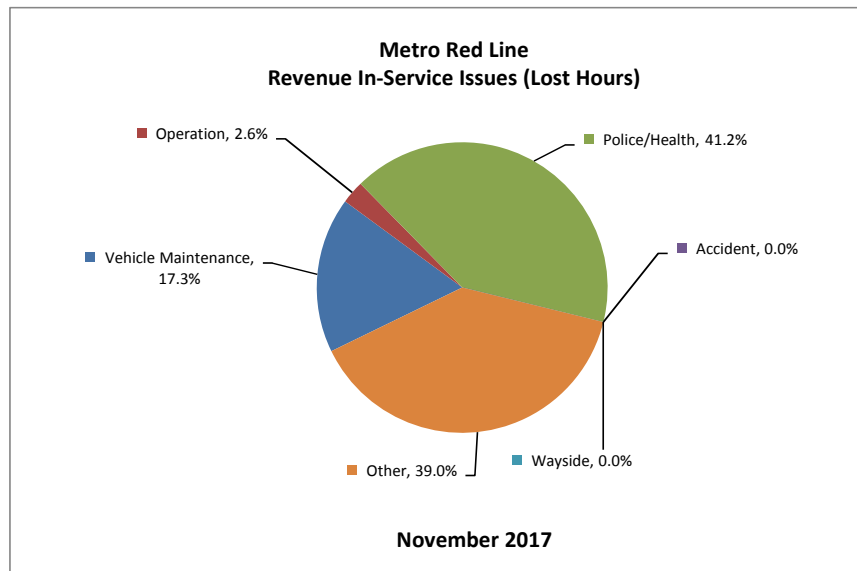
Out of a total of 26,386 hours operated, there were approximately 97 total hours of service delays.

November 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	26,289	99.6%
Cancelled + Delayed Hours	97	0.4%
<b>Total Revenue Hours</b>	<b>26,386</b>	<b>100.0%</b>

Summary of the incidents:	Count	Hours	Percent
Operations	1	2.5	2.6%
Accidents	0	0.0	0.0%
Vehicle Maintenance	13	16.8	17.3%
Wayside	0	0.0	0.0%
Police & Health	12	39.9	41.2%
Other	6	37.8	39.0%
<b>Total</b>	<b>32</b>	<b>97.0</b>	<b>100.0%</b>

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

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



## November 2017 Red Line incidents causing delay were as follows:

### Operations Incidents:

#### **11-20-2017 9:25:00 PM - Incident# 2936924 (1 lost trip, 149 lost minutes)**

T-365 reports personal on the ROW at Cross Passage 49. Train 217, cars 3661, 362, 571, 572, 599. 600, AR track, Westbound.

### Vehicle Maintenance Incidents:

#### **11-01-2017 5:08:00 PM - Incident# 2929565 (1 lost trip, 164 lost minutes)**

Reports emergency brake failure on car 570.

T-169

Train 214

North Hollywood,AR, Eastbound

Cars: 583 584 553 554 569 (570)

#### **11-03-2017 9:29:00 AM - Incident# 2930314 (0 lost trips, 15 lost minutes)**

Train 205 reports self applying brakes

T-378, Train 205

AL, HW, East

(542)-541-566-565-600-599

#### **11-07-2017 8:30:00 AM - Incident# 2931653 (1 lost trip, 149 lost minutes)**

Train 206 reports friction brakes will not release HRV 509

T-212, Train 206

BR, WW, East

515-516-(509)-508

#### **11-08-2017 7:50:00 AM - Incident# 2932051 (0 lost trips, 9 lost minutes)**

No movement operating from car 506.

T-74

Train 201

Cars 525,524,523,528,505,506

North Hollywood AR EB.

#### **11-08-2017 9:40:00 AM - Incident# 2932083 (0 lost trips, 5 lost minutes)**

Recurring emergency brake application from car 565.

T-295

Train 201

Cars (565), 566,591,592

CP 1 AR WB.

#### **11-08-2017 10:25:00 PM - Incident# 2932333 (0 lost trips, 20 lost minutes)**

Report of emergency brake won't released.

T-166

Train 214

Cars 551-552-575-576-547-(548)

Hollywood Vine AR eastbound.

#### **11-14-2017 - Incident# 2934161 (1 lost trip, 149 lost minutes)**

No Indications/No Movement

Train 215, T-365

Cars (573), 574, 537, 538, 583, 584

North Hollywood, AR, East

#### **11-14-2017 3:57:00 PM - Incident# 2934527 (0 lost trips, 10 lost minutes)**

Train has command 0 no movement

T-329, Train 203

BR, West, WN

(519)-526-515-516

#### **11-15-2017 9:15:00 AM - Incident# 2934748 (0 lost trips, 5 lost minutes)**

Train 205 reports speed code no correct

T-542, Train 215

AL, UC, East

563-564-573-574-569-(570)

#### **11-18-2017 3:33:00 PM - Incident# 2936156 (1 lost trip, 174 lost minutes)**

Emergency Brakes Not Releasing

Train 203, T-435

Cars 585, 586, 549, 550, 603, 604

Westlake, AL, East

**11-21-2017 10:44:00 AM - Incident# 2937127 (0 lost trips, 7 lost minutes)**

Car 551 making unusual noise from underneath F-End truck.  
Car 552-553 electrically uncoupled. No movement  
T-179  
Train 202  
Cars (551), (552,553),554

**11-21-2017 7:30:00 PM - Incident# 2937328 (2 lost trips, 299 lost minutes)**

T-176 reports no dynamic breaks and recurring friction break on train 219 at Westlake/MacArthur AR.  
Cars (509), 508, 517, 518, 525, 524

**11-22-2017 3:03:00 PM - Incident# 2937695 (0 lost trips, 2 lost minutes)**

Recurring Emergency Brake Application.  
Train #203  
T-022  
Cars #(501)-502-503-504.  
W/Bound Union Station A/L Track.

**Police & Health Incidents:**

**11-07-2017 11:13:00 PM - Incident# 2931942 (2 lost trips, 299 lost minutes)**

Westlake Station sick patron on board train #217 A/R.  
Cars #(567)-568-573-574-561-562.

**11-08-2017 7:16:00 AM - Incident# 2932038 (0 lost trips, 2 lost minutes)**

Trespasser riding on the rear(exterior) of Train 201 car 506 as it was departing U/S AL WB.

**11-09-2017 8:08:00 AM - Incident# 2934364 (0 lost trips, 10 lost minutes)**

Patron was found unresponsive on board train 206  
Union Station  
Train 206  
R-112/S-21  
Consist 533-534-539-540

**11-10-2017 2:34:00 AM - Incident# 2932866 (0 lost trips, lost minutes)**

Operator T-12 reports a female passenger was assaulted at Hollywood/Vine AR West.  
Train 219 car 587.  
Dispatched S-25, R-34

**11-12-2017 10:50:00 AM - Incident# 2933588 (0 lost trips, 7 lost minutes)**

Male patron on train 209 having a seizure at Vermont Santa Monica AR West

**11-14-2017 3:33:00 PM - Incident# 2934508 (0 lost trips, 6 lost minutes)**

Train 214 reports fight onboard at VB  
T-176, Train 214  
AR, VB, West  
501-502-507-510-503-504

**11-15-2017 2:14:00 PM - Incident# 2934911 (2 lost trips, 299 lost minutes)**

Medical emergency onboard train 214  
T-267, Train 214  
AR, Pershing Sq. West  
567-568-559-560-545-(546)

**11-16-2017 6:35:00 PM - Incident# 2935487 (1 lost trip, 149 lost minutes)**

Male patron stabbed by a male passenger on board Train #202 Cars #575-576-599-(600).

**11-16-2017 6:52:00 PM - Incident# 2935483 (0 lost trips, lost minutes)**

Report of a wheel chair patron fell onto the AR track right of way, and other patrons had help him back up on the platform.

**11-19-2017 4:27:00 AM - Incident# 2936243 (0 lost trips, 15 lost minutes)**

TRACS indicates intrusion alarm activated at Pershing SQ AR West.

**11-25-2017 12:48:00 PM - Incident# 2938408 (0 lost trips, 7 lost minutes)**

T-22 reports on train 205 cars 589, 590, 587, 588, North Hollywood, AR Platform. 10-390 laying down on the floor on car 588.

**11-28-2017 4:41:00 PM - Incident# 2939544 (0 lost trips, 6 lost minutes)**

T-003 reports sick elderly female in car 508.

**11-28-2017 5:35:00 PM - Incident# 2939575 (0 lost trips, 10 lost minutes)**

Trespasser accessing the right of way Hollywood Vine Station A/R East.

**11-29-2017 9:10:00 PM - Incident# 2940034 (10 lost trips, 1,587 lost minutes)**

Reports male patron got off train and placed a container near elevator #2.

**Other Incidents:**

**11-03-2017 4:17:00 PM - Incident# 2930512 (0 lost trips, 8 lost minutes)**

Report of strong odor in car 591, unable to operate.

**11-04-2017 10:44:00 PM - Incident# 2930802 (0 lost trips, 10 lost minutes)**

10 minute delay westbound Train # 203 North Hollywood Destination.

**11-14-2017 2:50:00 PM - Incident# 2934484 (0 lost trips, 5 lost minutes)**

CCTV reports blood on AR E. at VS

T-271, Train 215

AR, VS, West

579-580-563-564-561-562

**11-15-2017 7:17:00 AM - Incident# 2934720 (2 lost trips, 299 lost minutes)**

Union Station AR Track, Train-202 T-147 cars 553/554/547/548 with Female indecently exposed and strong foul odor on car #554. Upon LAPD investigation LAFD has been requested.

**11-27-2017 1:05:00 PM - Incident# 2939028 (12 lost trips, 1,791 lost minutes)**

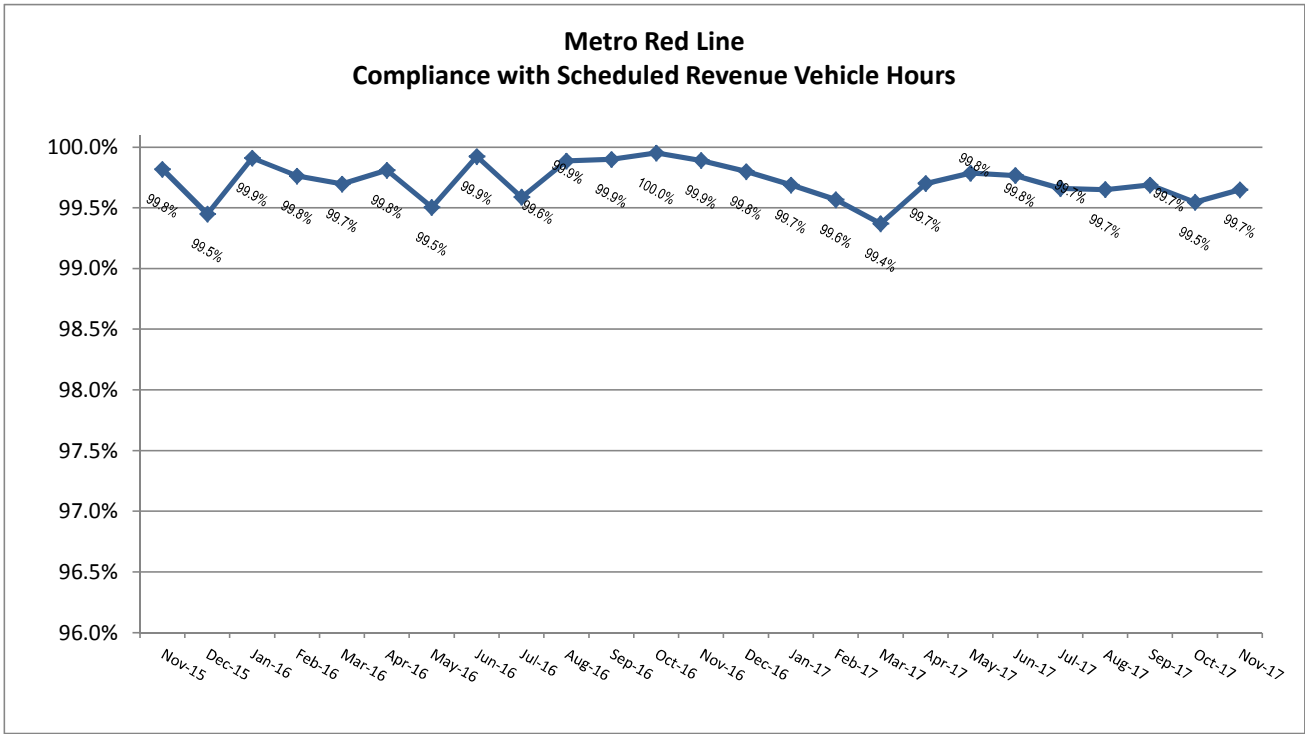
Debris fire reported on the AL track East just past Signal WA 02

**11-30-2017 4:29:00 PM - Incident# 2940437 (1 lost trip, 155 lost minutes)**

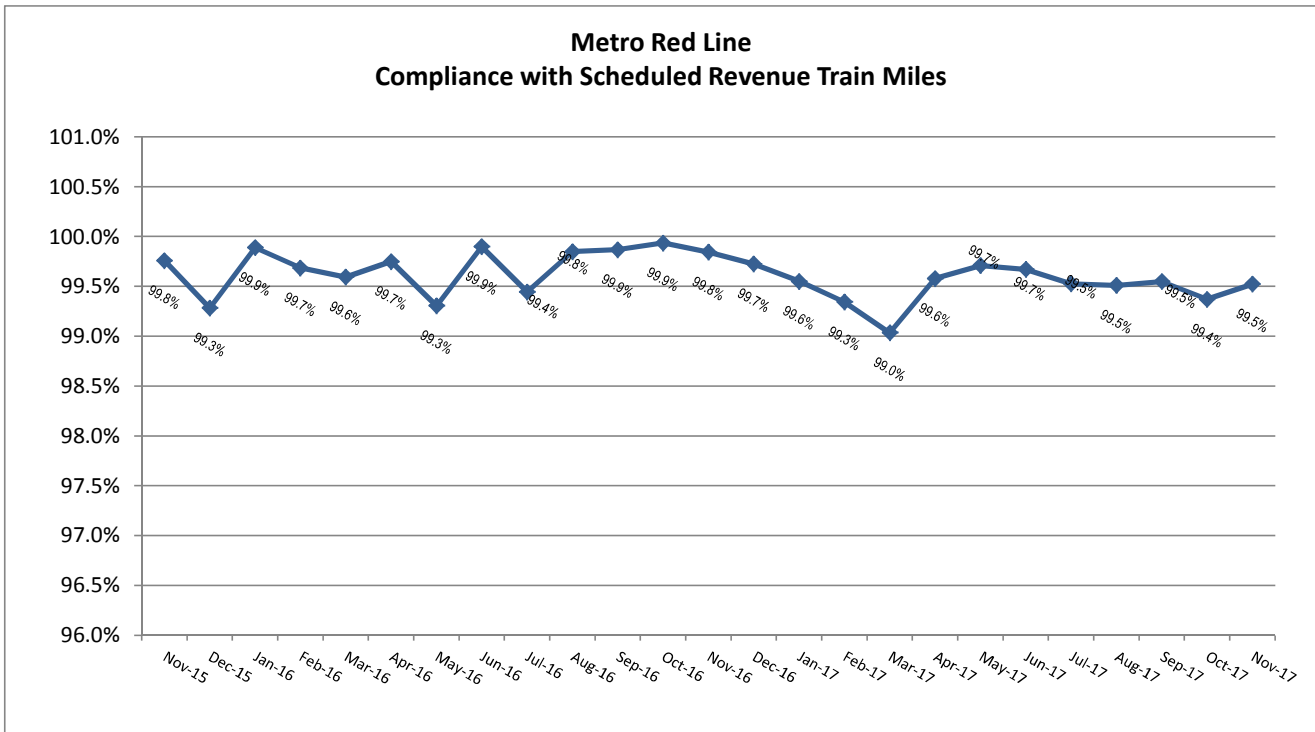
Train #214, Union Station held due to an unruly patron while awaiting LAPD response.

# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

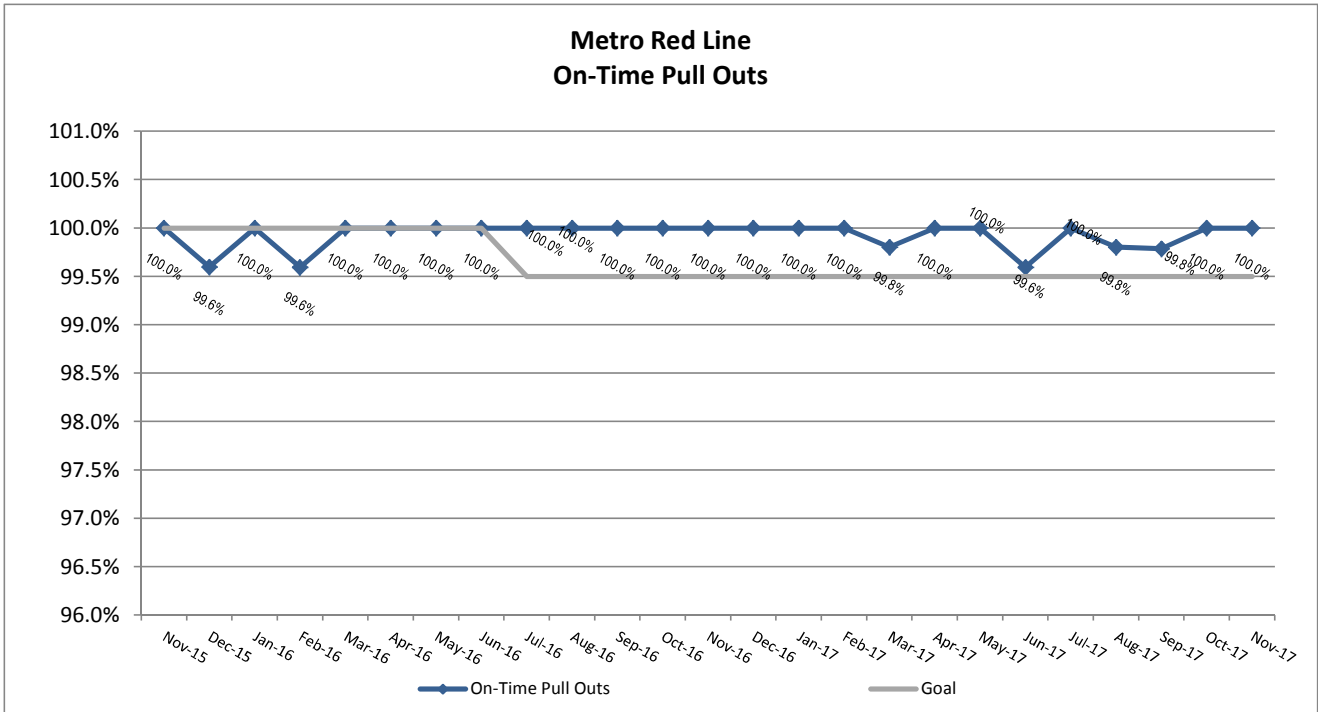
## COMPLIANCE WITH SCHEDULED VEHICLE HOURS



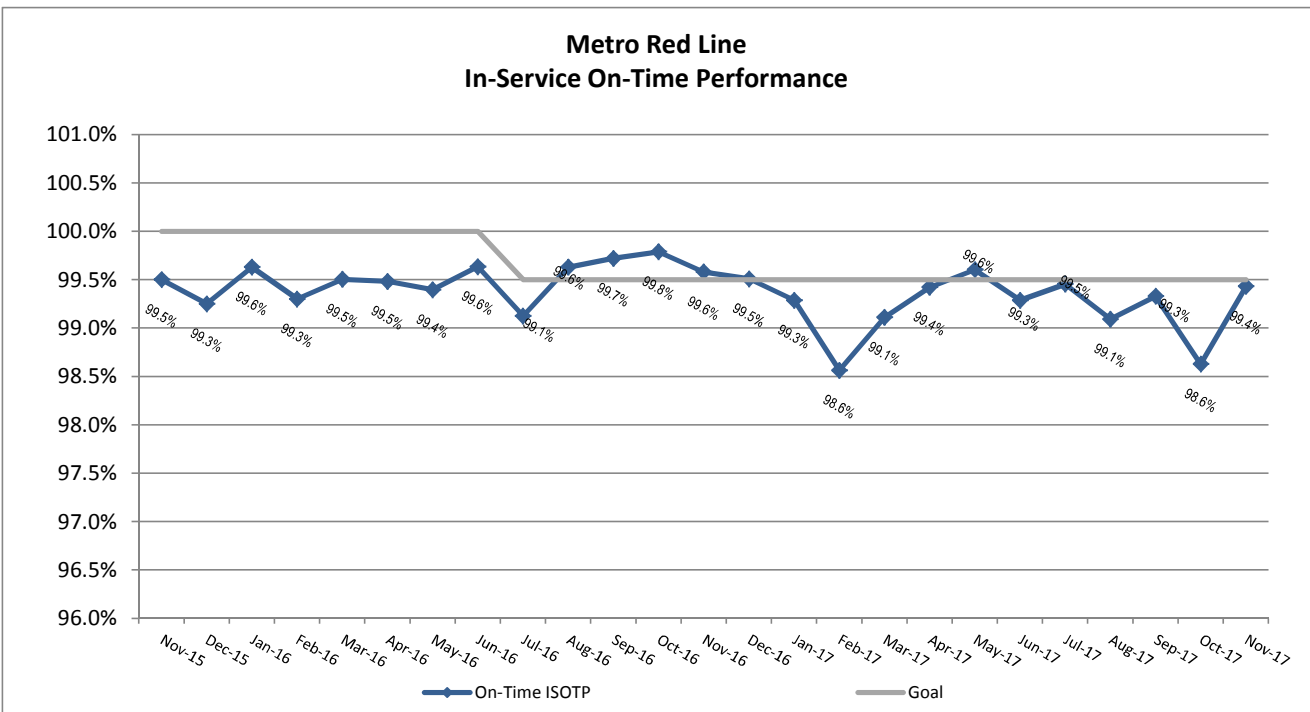
## COMPLIANCE WITH SCHEDULED TRAIN MILES



## ON-TIME PULL OUTS

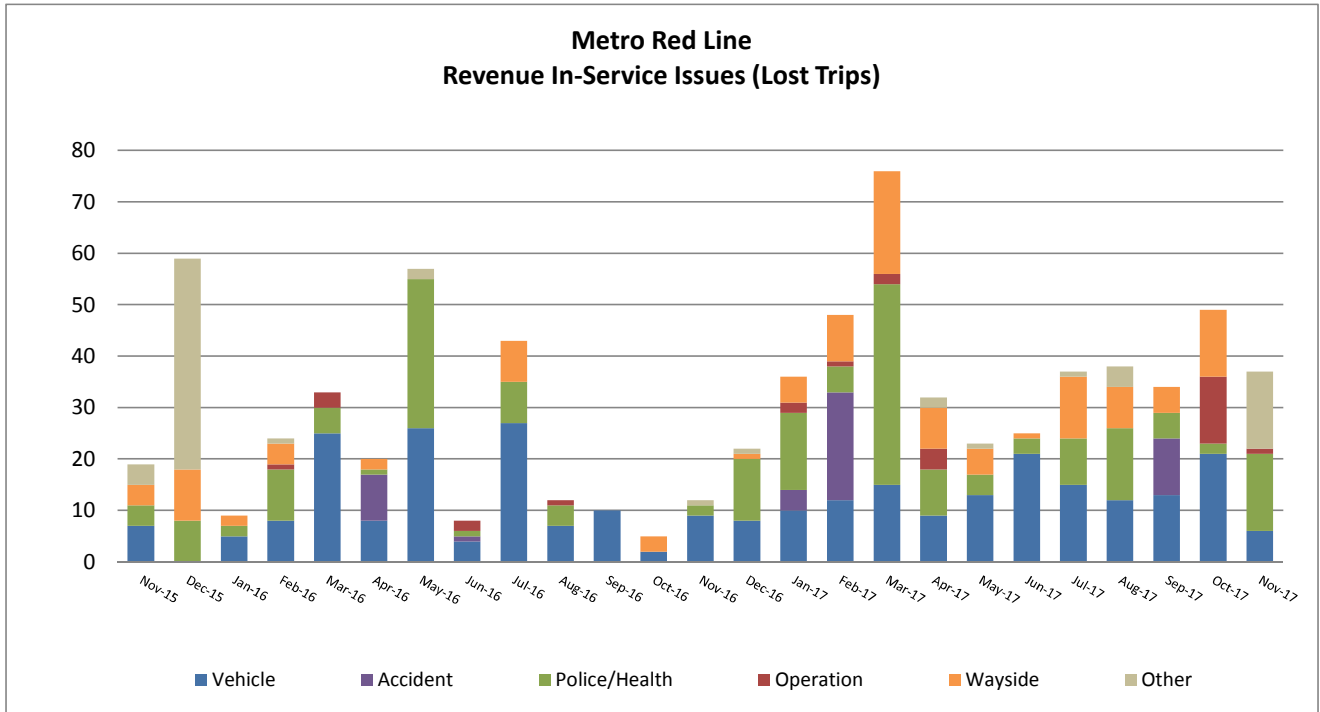


## IN-SERVICE ON-TIME PERFORMANCE

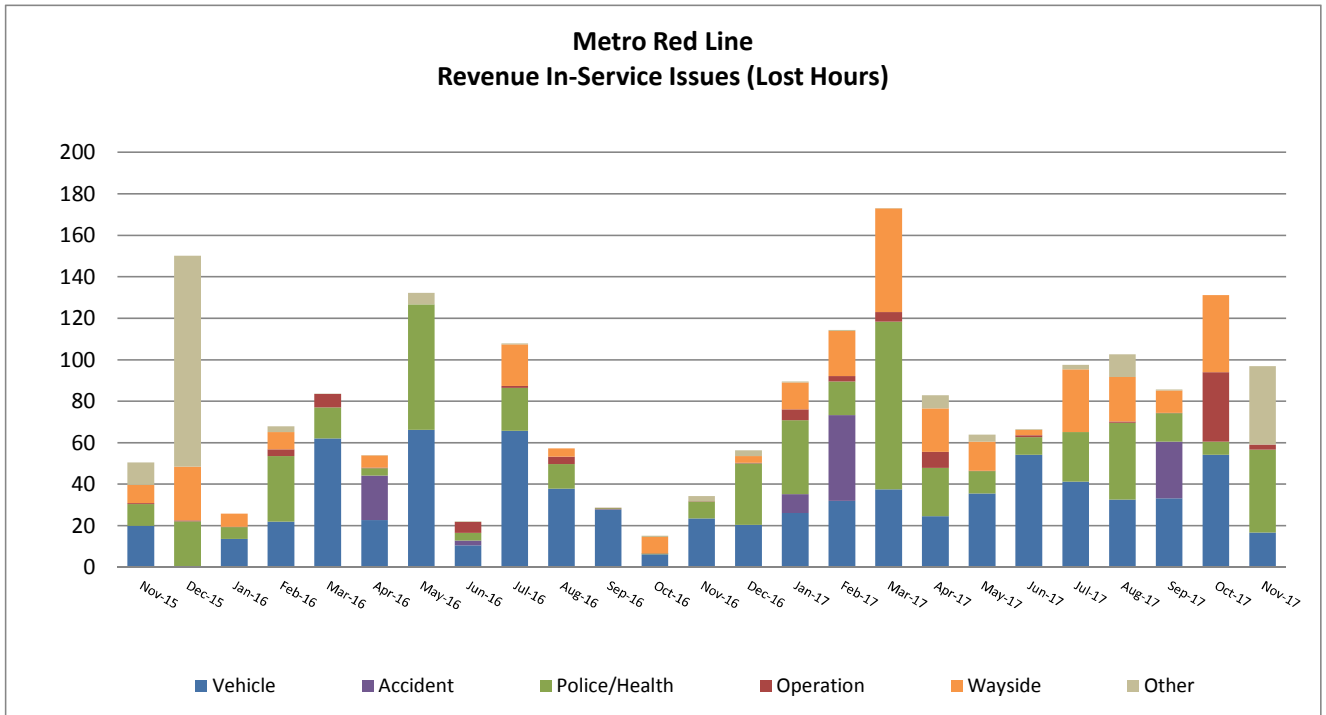




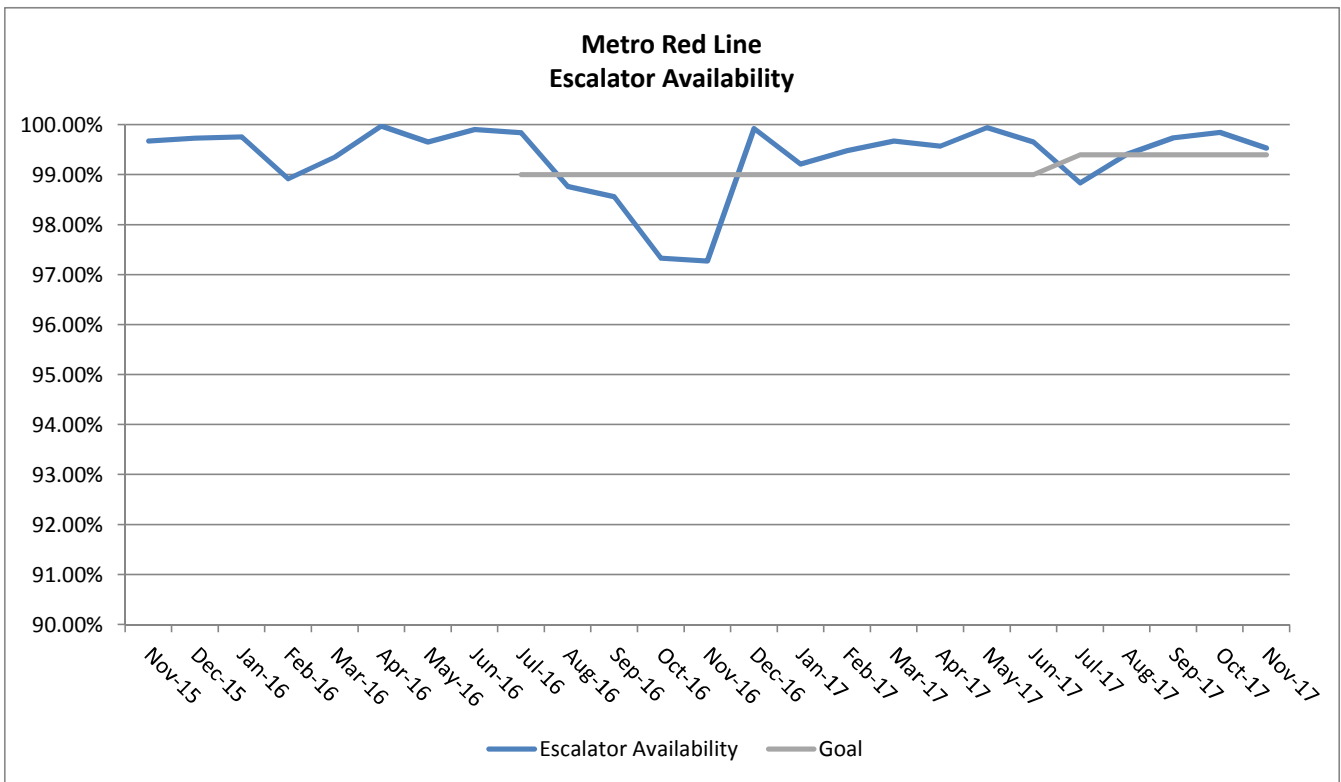
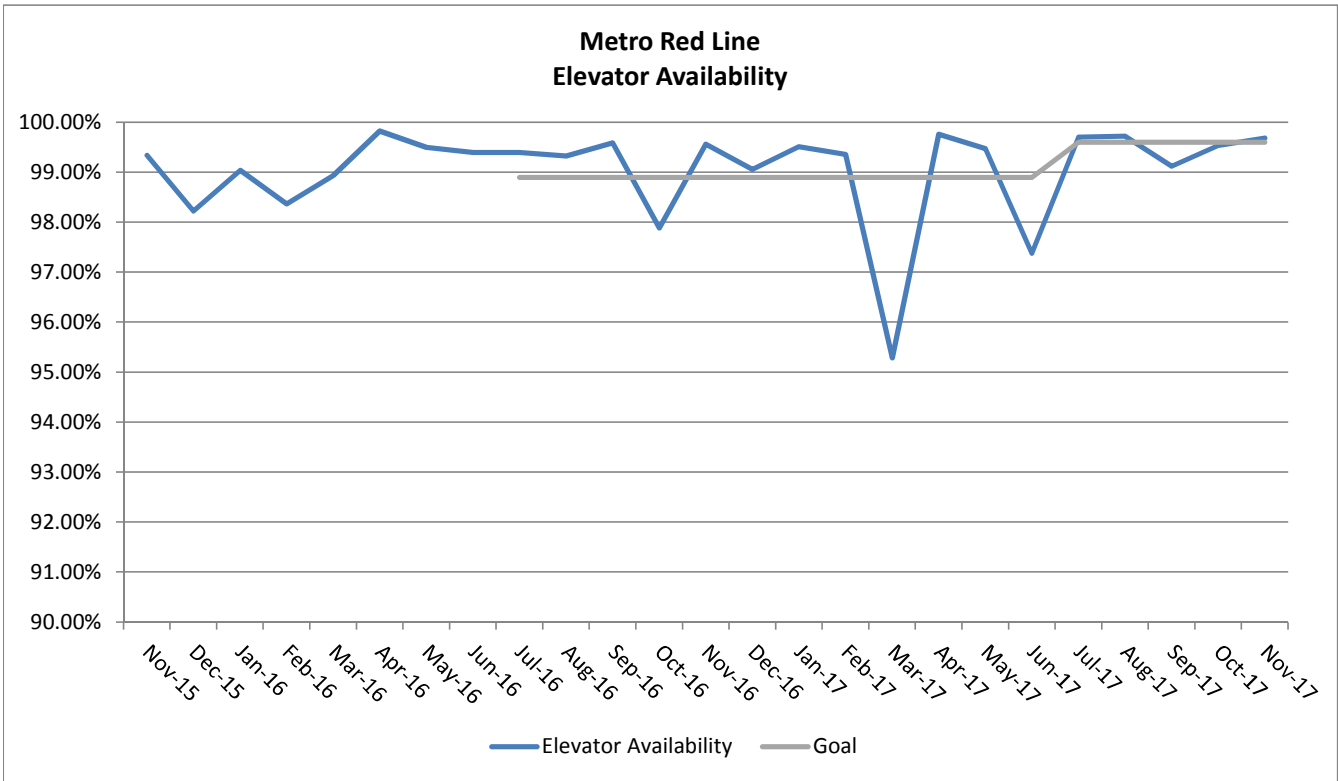
## LOST TRIPS



## LOST TRIPS



## VERTICAL TRANSPORTATION AVAILABILITY



## GREEN LINE

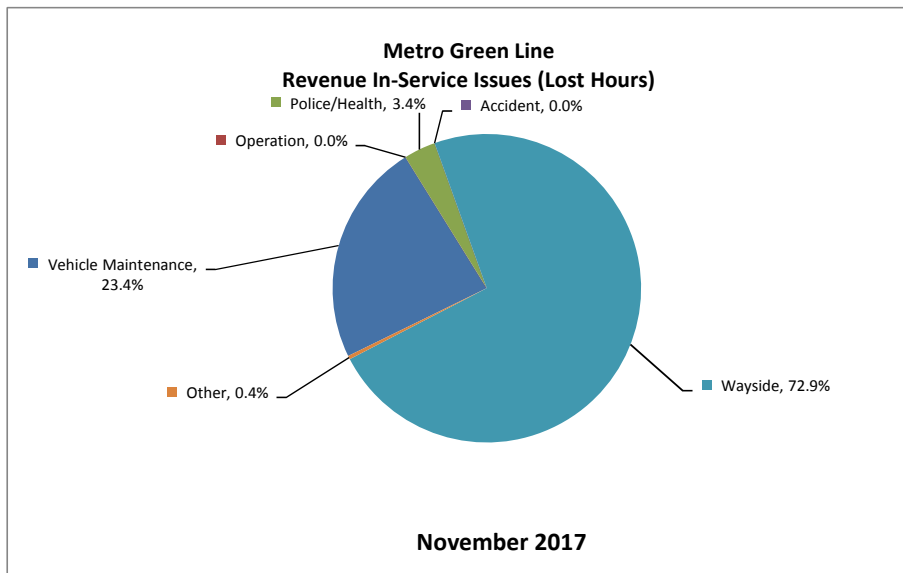
Out of a total of 8,353 hours operated, there were approximately 45 total hours of service delays.

November 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	8,308	99.5%
Cancelled + Delayed Hours	45	0.5%
<b>Total Revenue Hours</b>	<b>8,353</b>	<b>100.0%</b>

Summary of the incidents:	Count	Hours	Percent
Operations	0	0.0	0.0%
Accidents	0	0.0	0.0%
Vehicle Maintenance	11	10.6	23.4%
Wayside	2	33.1	72.9%
Police & Health	3	1.5	3.4%
Other	1	0.2	0.4%
<b>Total</b>	<b>17</b>	<b>45.4</b>	<b>100.0%</b>

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

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



**November 2017 Green Line incidents causing delay were as follows:**

**Operations Incidents:**

**Vehicle Maintenance Incidents:**

**11-02-2017 5:37:00 AM - Incident# 2929720 (2 lost trips, 141 lost minutes)**

Doors: No indications, no movement

Train 331

T-458

207-(218A)

Lakedwood Station W/B

+10

**11-03-2017 5:20:00 AM - Incident# 2930215 (0 lost trips, 10 lost minutes)**

Propulsion Fault

Train 335

T-202

(222)-223

Crenshaw Station

+10

**11-03-2017 11:23:00 PM - Incident# 2930588 (0 lost trips, 9 lost minutes)**

Operator T-274 reports consist loosing air east of Douglas Station.

Train 343

T-274

Car 219

Douglas Station, Track 2, Eastbound

**11-07-2017 5:00:00 PM - Incident# 2931860 (0 lost trips, 21 lost minutes)**

Prop Fault with 35 MPH speed restrictions

(212)-207

Train #332

T-348

Vermont Track 2 Eastbound

**11-12-2017 10:16:00 AM - Incident# 2933585 (0 lost trips, 17 lost minutes)**

Doors not opening, Prop/Fault, No Movement.

Train # 334.

T-148.

LRV- (206A), 211.

El Segundo Station, Track #2, Eastbound.

**11-13-2017 5:57:00 AM - Incident# 2933746 (0 lost trips, 7 lost minutes)**

Friction Brake Problem.

Train #339.

T-020.

Avalon Station, Track #2, Eastbound.

LRV-(206A), 212.

**11-13-2017 6:18:00 AM - Incident# 2933779 (0 lost trips, 6 lost minutes)**

Prop/ Fault.

Train #340.

T- 458.

LRV- 223, (220A).

Marine Station, Track #2, Eastbound.

**11-20-2017 6:19:00 AM - Incident# 2936568 (1 lost trip, 66 lost minutes)**

Prop/Fault, Emergency Lighting.

Train #340.

T-458.

LRV- (213A), 203.

YDI 2, Eastbound, Track #2.

**11-22-2017 4:35:00 AM - Incident# 2937409 (2 lost trips, 141 lost minutes)**

Operator reports of a propulsion fault

Train 333

T-040

(212)

Crenshaw station, Trk. 2, eastbound

**11-22-2017 7:50:00 AM - Incident# 2937499 (3 lost trips, 205 lost minutes)**

No movemet on car (221) (215).

Train # 338

T-148

west of Aviation Sta., track #1, westbound

(221 215)

**11-24-2017 4:27:00 AM - Incident# 2937963 (0 lost trips, 14 lost minutes)**

Doors Not Closing  
Train 333  
T-40  
(223B)-203 Door 7 & 8  
Marine Station  
+14 min delay

**Wayside Incidents:**

**11-15-2017 3:12:00 PM - Incident# 2934941 (27 lost trips, 1,856 lost minutes)**  
CTC alarm states a switch has blown fuse at Yard Interface.

**11-22-2017 12:14:00 PM - Incident# 2937626 (2 lost trips, 132 lost minutes)**  
ARINC indicates AC Bus de-energized at Hawthorne Station.

**Police & Health Incidents:**

**11-01-2017 5:58:00 PM - Incident# 2929586 (1 lost trip, 68 lost minutes)**

Train 344, T-184 reported a near miss on track 2, eastbound mile post marker 12.4. Trespasser on the ROW.  
Emergency stop push button was activated by the operator.

**11-06-2017 5:07:00 AM - Incident# 2931449 (0 lost trips, 14 lost minutes)**  
California Highway Patrol transferred a telephone call to Green Line Train Controller

**11-10-2017 3:50:00 PM - Incident# 2933159 (0 lost trips, lost minutes)**  
Downey PD contacted control stating they needed service to stop from Lakewood to Norwalk due to a police pursuit and suspect and officers are running on the ROW.

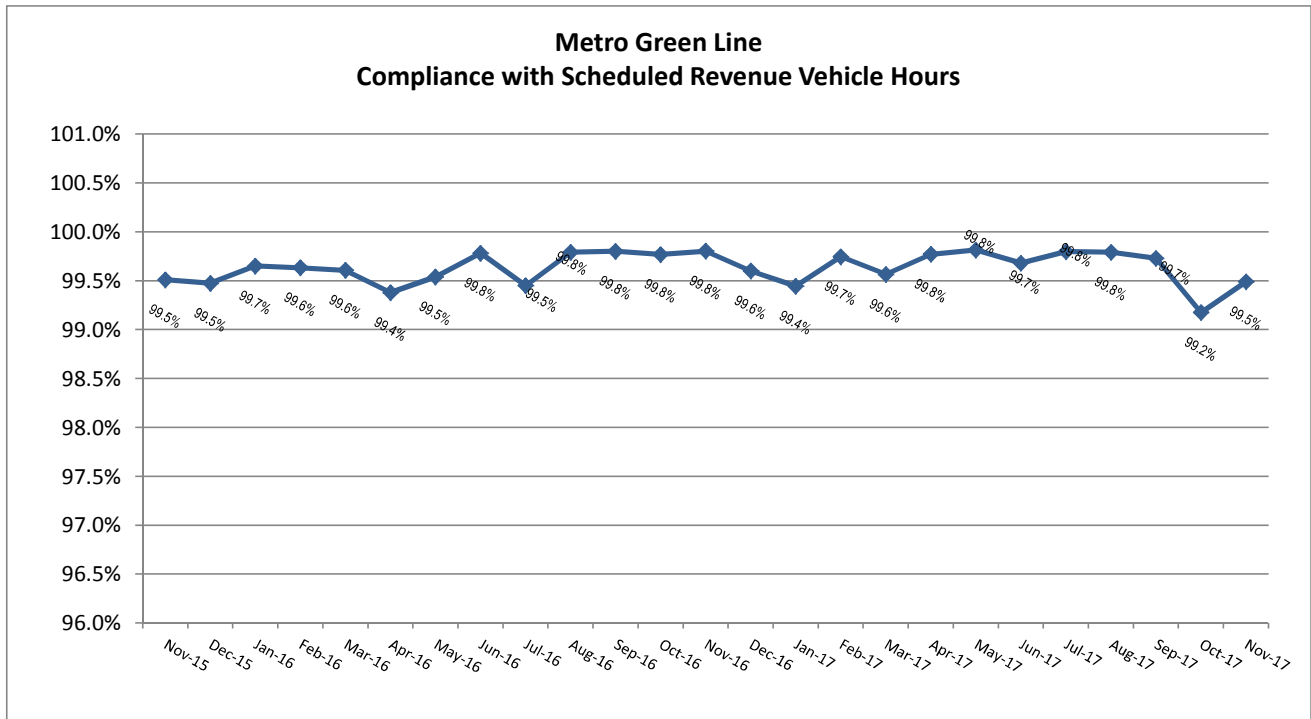
**11-30-2017 10:55:00 PM - Incident# 2940529 (0 lost trips, 10 lost minutes)**  
Train Operator reported that a Passenger was having an asthma attack on Train 344  
Train 344  
(216A)-222  
T-309  
Lakewood Station Track #1 Westbound

**Other Incidents:**

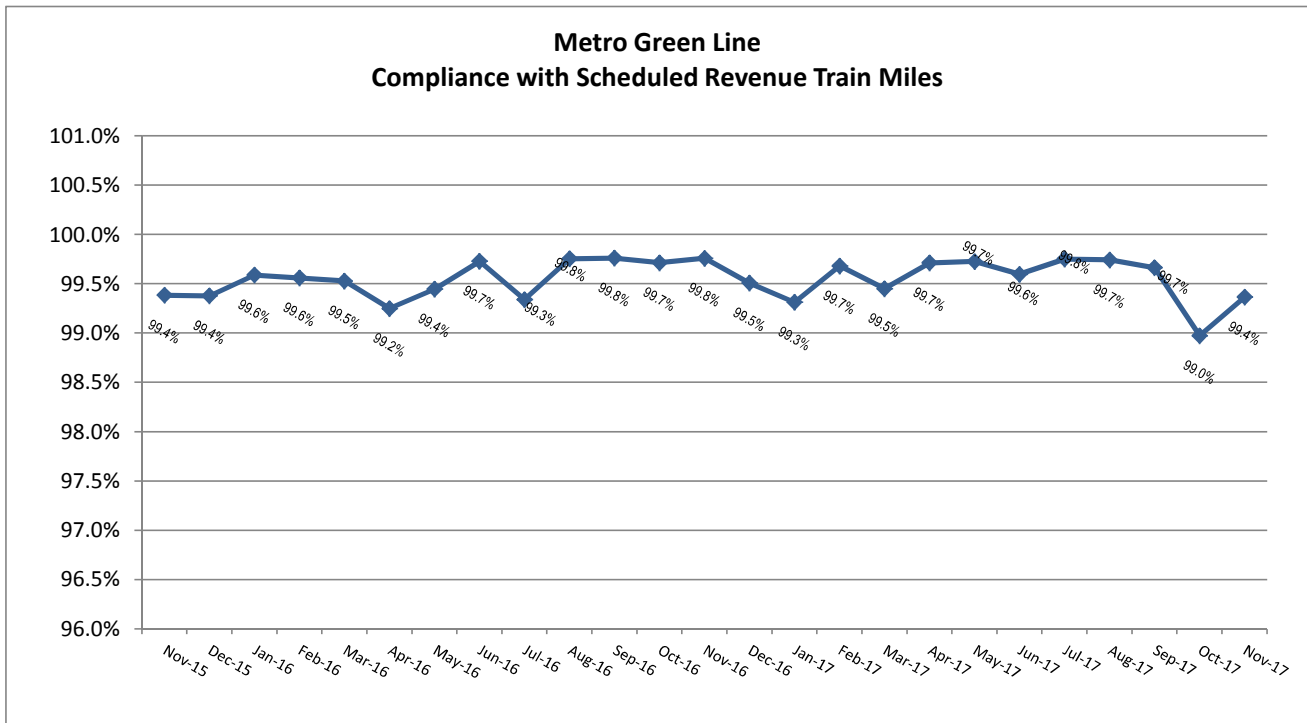
**11-23-2017 4:02:00 AM - Incident# 2937812 (0 lost trips, 10 lost minutes)**  
Train Delay  
Train 331  
T-20  
(214)-206  
Norwalk Station Trk 1  
+10

# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

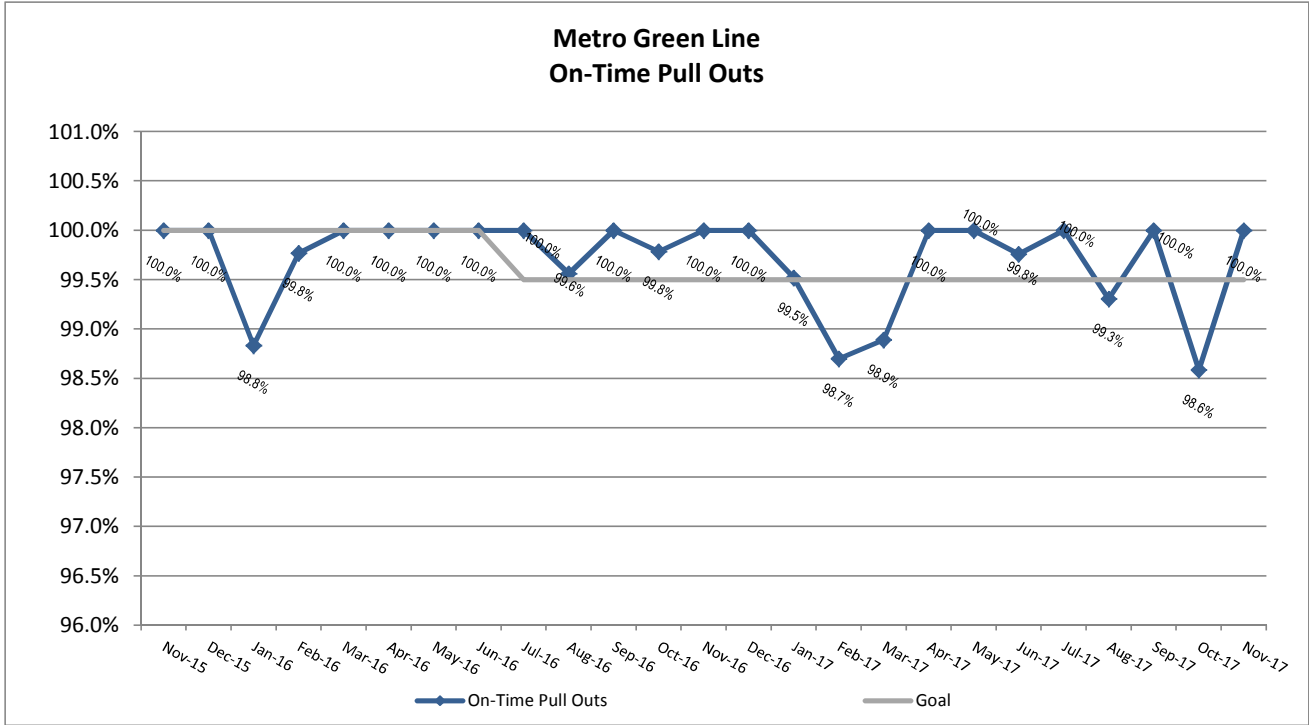
## COMPLIANCE WITH SCHEDULED VEHICLE HOURS



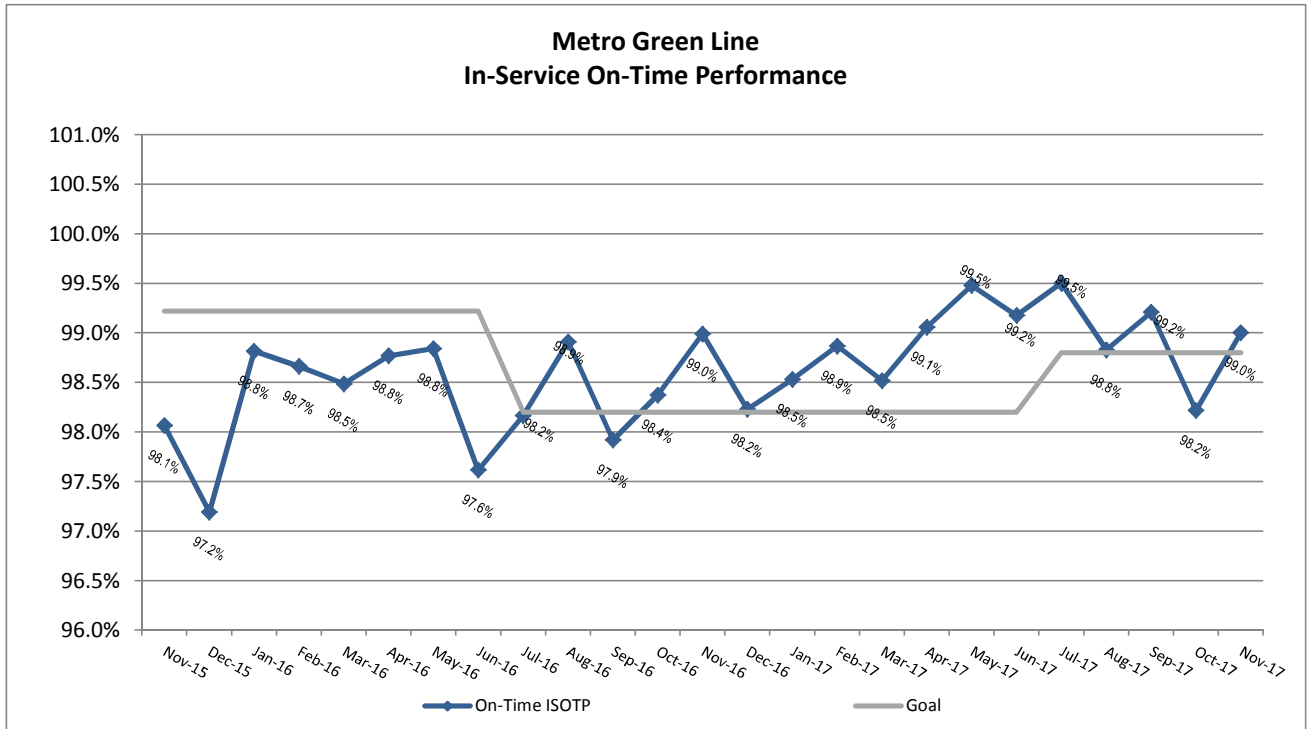
## COMPLIANCE WITH SCHEDULED TRAIN MILES



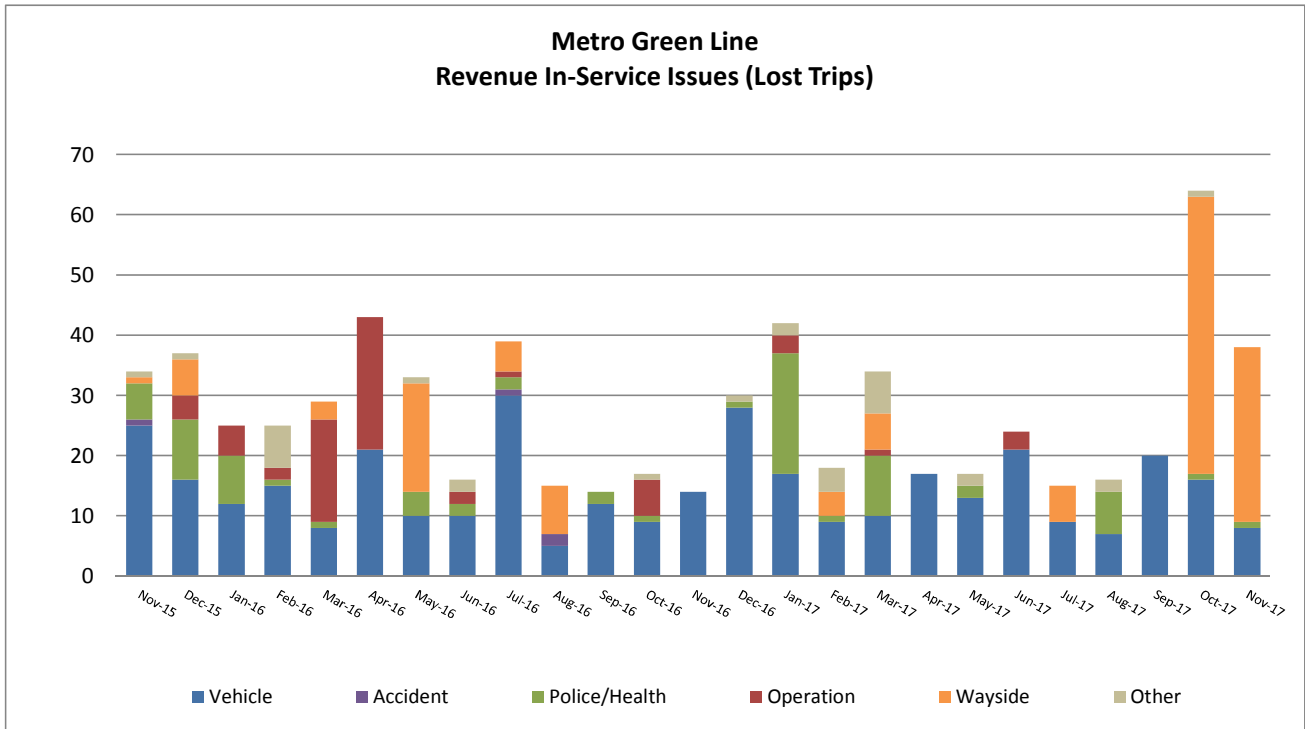
## ON-TIME PULL OUTS



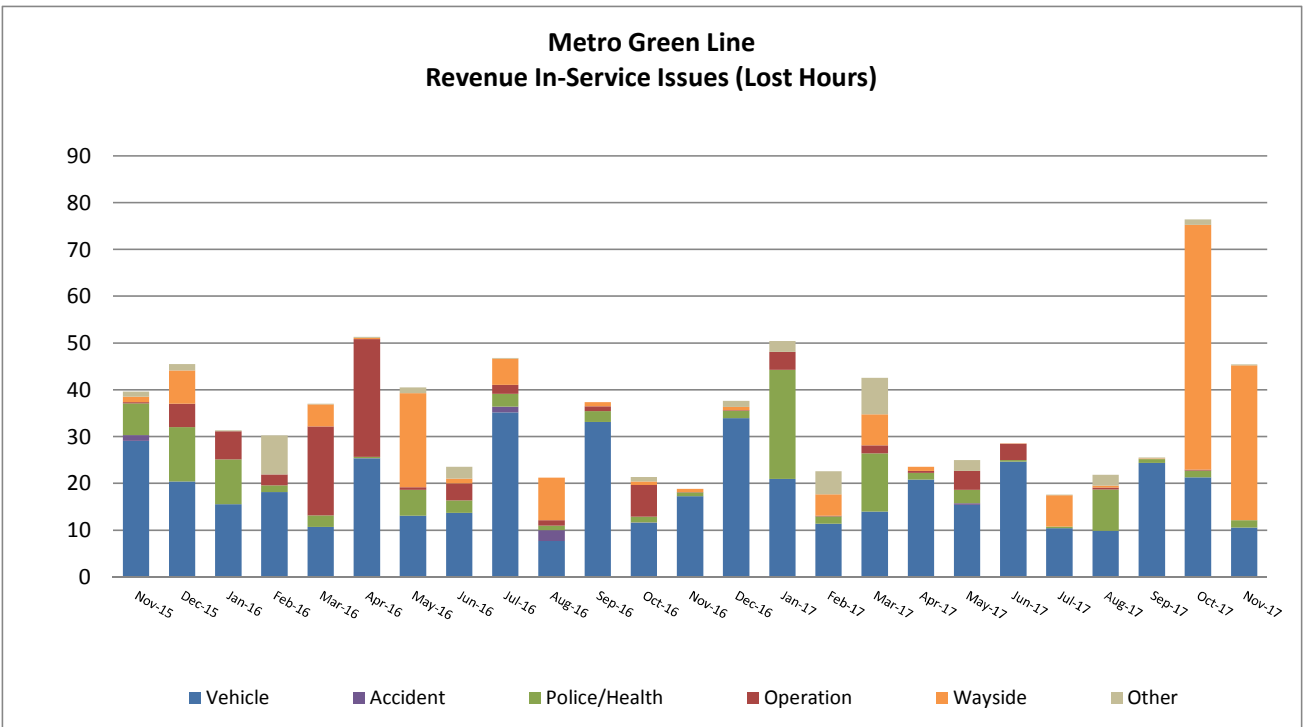
## IN-SERVICE ON-TIME PERFORMANCE



## LOST TRIPS

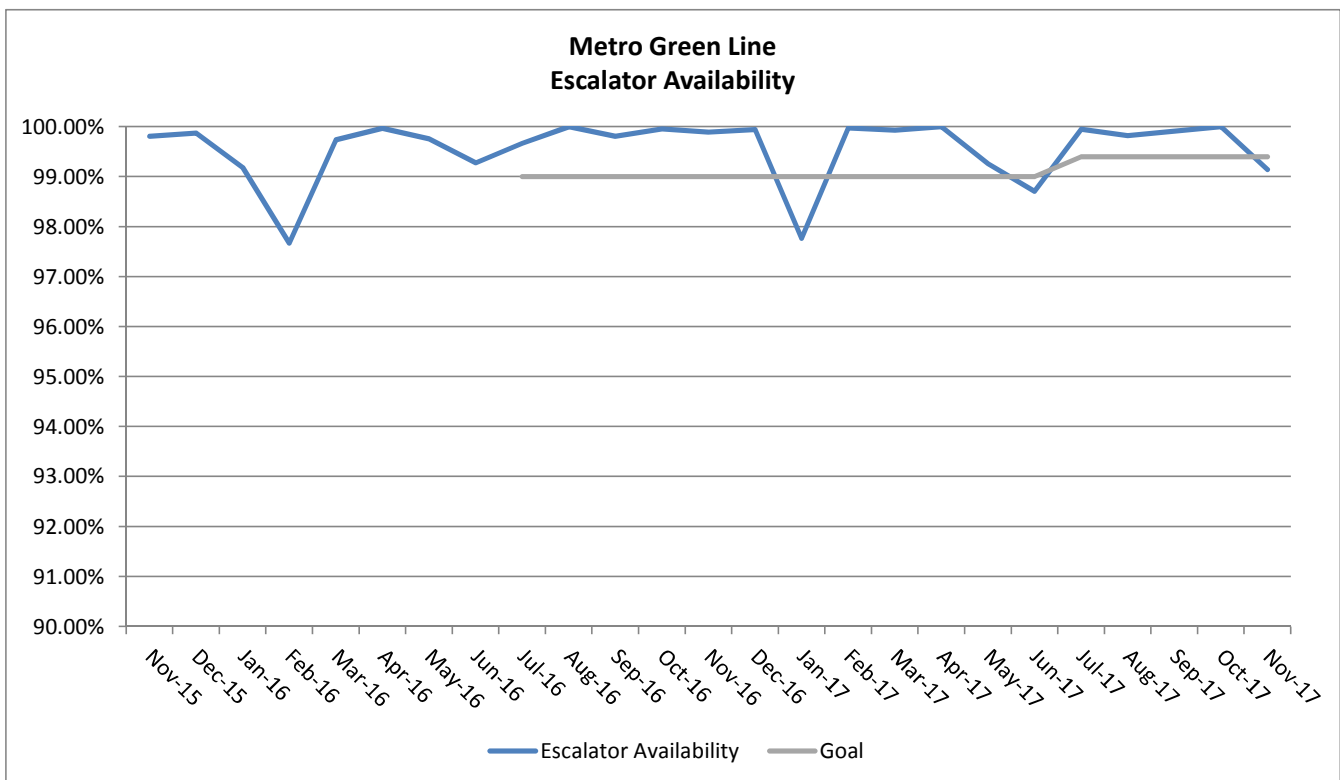
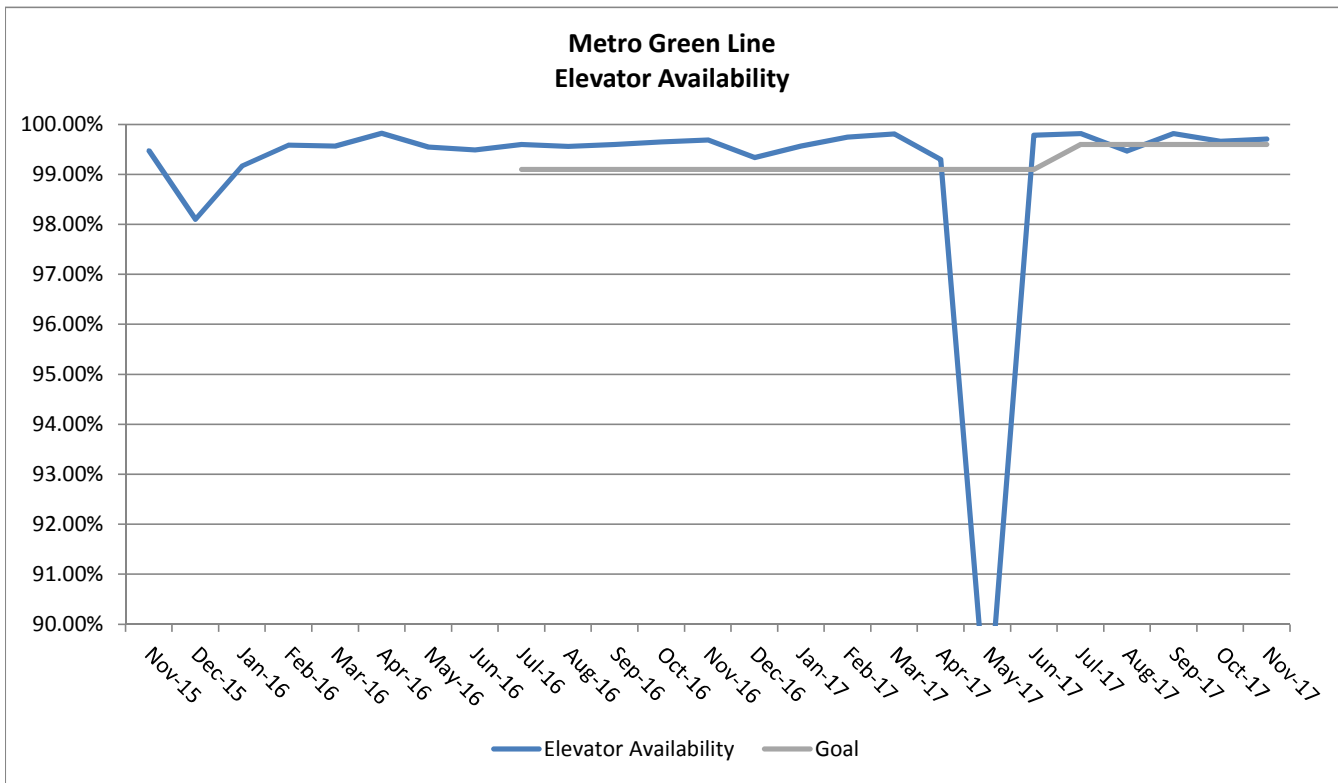


## LOST HOURS





## VERTICAL TRANSPORTATION AVAILABILITY



## GOLD LINE

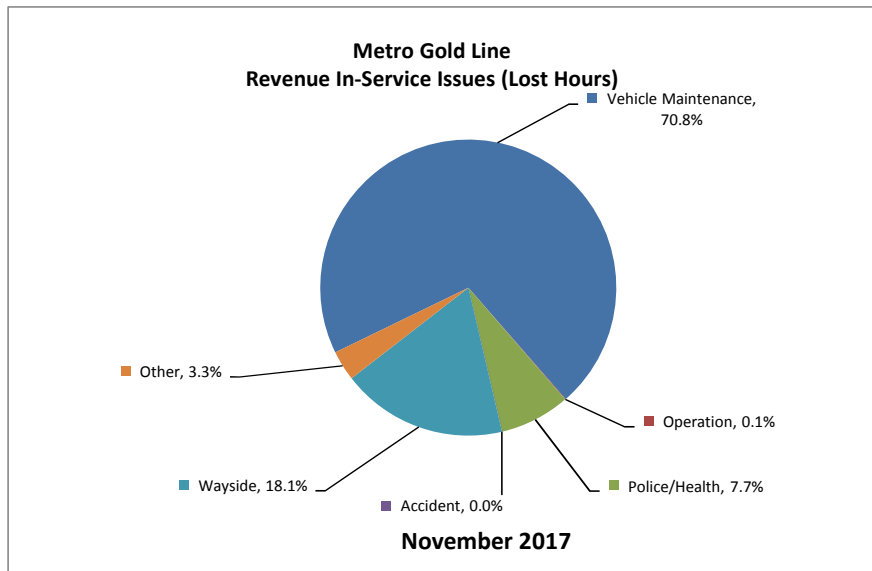
Out of a total of 20,485 hours operated, there were approximately 165 total hours of service delays.

November 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	20,320	99.2%
Cancelled + Delayed Hours	165	0.8%
<b>Total Revenue Hours</b>	<b>20,485</b>	<b>100.0%</b>

Summary of the incidents:	Count	Hours	Percent
Operations	2	0.1	0.1%
Accidents	0	0.0	0.0%
Vehicle Maintenance	28	116.6	70.8%
Wayside	1	29.9	18.1%
Police & Health	9	12.7	7.7%
Other	1	5.4	3.3%
<b>Total</b>	<b>41</b>	<b>164.6</b>	<b>100.0%</b>

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

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



**November 2017 Gold Line incidents causing delay were as follows:**

**Operations Incidents:**

**11-14-2017 9:17:00 AM - Incident# 2934299 (0 lost trips, 6 lost minutes)**

Train Delay, Cars #717-732

Train #402

T-011

Monrovia Station, Track #002, Southbound.

**11-28-2017 11:44:00 AM - Incident# 2939366 (0 lost trips, 2 lost minutes)**

Emergency Single Tracking (M3# 2,939,297 walking track inspection)

MT-111

Baker interlocking switch #5A.

**Vehicle Maintenance Incidents:**

**11-01-2017 8:07:00 AM - Incident# 2929369 (0 lost trips, 7 lost minutes)**

No Fault - No Movement, No Cab Signal

Train 405

T-65

LRV (1057),1005

Sierra Madre Station, Track 1

Northbound

**11-02-2017 5:13:00 AM - Incident# 2929692 (0 lost trips, 3 lost minutes)**

Reports of friction brake fault with no movement

Train #411

T-18

(747)-740

3rd and Eastern, Track #1, NB

**11-02-2017 7:46:00 AM - Incident# 2929831 (1 lost trip, 246 lost minutes)**

Other Vehicle System/ECU Fault

Train 411

T-440

LRV (747),740

Maravilla Station, Track 1

Northbound

**11-06-2017 5:00:00 AM - Incident# 2931047 (0 lost trips, 3 lost minutes)**

Reports of no headlights

Train #417

T-122

(713B)-733-729

Irwindale Station, Track #1, NB

**11-06-2017 3:46:00 PM - Incident# 2931415 (0 lost trips, 14 lost minutes)**

No PA System and TOD shows only one car (1012A)1058.

Sierra Madre Station

Train #402, T-540, track #2, southbound.

**11-07-2017 7:33:00 AM - Incident# 2931631 (1 lost trip, 250 lost minutes)**

Propulsion / Dynamic Brakes, Cars #731-(724)-726

Train #415

T-036

Downtown Azusa, Track #002, Southbound.

**11-08-2017 12:37:00 PM - Incident# 2932157 (0 lost trips, 9 lost minutes)**

No Fault - No Movement.

Train 401

T-159

LRV (1010)1006

First Street, North of Pico Aliso, Track 1

Northbound.

**11-08-2017 2:54:00 PM - Incident# 2932222 (1 lost trip, 256 lost minutes)**

HSCB Trip, no movement at Allen Interlocking.

Train 424

T-304

LRV (739)740,737

Allen Interlocking, Track 2

Southbound

**11-09-2017 8:16:00 AM - Incident# 2932464 (1 lost trip, 244 lost minutes)**

Propulsion / Dynamic Brakes  
Train 402  
T-440  
LRV (742)715  
Highland Park Station, Track 1  
Northbound.

**11-10-2017 7:28:00 AM - Incident# 2932940 (1 lost trip, 244 lost minutes)**

Reports of ATP failure  
Train#401  
T-196  
(724A)-739  
Little Tokyo Station, Track #1, NB

**11-11-2017 12:12:00 PM - Incident# 2933369 (0 lost trips, 10 lost minutes)**

Friction Brakes would not release.  
Train 404  
T-248  
LRV (747A),714  
APU Station, Track 2  
Southbound

**11-12-2017 8:46:00 AM - Incident# 2933571 (2 lost trips, 657 lost minutes)**

Car 1005 A-truck friction brake  
T-146  
Consist 1010(1005)1012  
Train-409  
Allen Station, Track #2, Southbound

**11-12-2017 7:43:00 PM - Incident# 2933671 (1 lost trip, 325 lost minutes)**

ATP Failure  
Train 411  
Highland Park  
Northbound  
T-526

**11-13-2017 1:20:00 PM - Incident# 2933995 (0 lost trips, lost minutes)**

Propulsion / Dynamic Brakes, cars 737- (744)  
Train #401  
T-223  
Irwindale Station, track #002, Southbound.

**11-13-2017 4:06:00 PM - Incident# 2934074 (0 lost trips, 6 lost minutes)**

Auto Train Protection (Speed Limit), cars #740-733  
Train #421  
T-223  
Azusa/Citrus, Track #002, Southbound.

**11-14-2017 5:45:00 AM - Incident# 2934210 (1 lost trip, 251 lost minutes)**

Reports of propulsion fault with a speed restriction of 35mph  
Train 413  
T-17  
1007-(1011)-1055  
Indiana Station, Track 2, SB

**11-14-2017 6:27:00 AM - Incident# 2934237 (1 lost trip, 244 lost minutes)**

Reports of friction brake faults  
Train 405  
T-66  
1056-1059  
Atlantic Station, Track #1, NB

**11-14-2017 6:36:00 AM - Incident# 2934252 (2 lost trips, 488 lost minutes)**

Reports of LVPS fault  
Train 415  
T-196  
720-(731)-738  
Little Tokyo Station, Track 1, NB

**11-15-2017 5:22:00 AM - Incident# 2934658 (2 lost trips, 501 lost minutes)**

Reports of HSCB trip  
Train #404  
T-8  
713-733  
Citrus Station, Track #2, SB

**11-15-2017 9:50:00 AM - Incident# 2934763 (1 lost trip, 253 lost minutes)**

Operator reports of possible smoking brakes  
Train 403  
T-477  
(724B)739  
Sierra Madre station, Trk. 1, northbound

**11-17-2017 4:49:00 AM - Incident# 2935579 (1 lost trip, 245 lost minutes)**

Reports of no movement/propulsion fault  
Train 454  
T-178  
(703)-708  
Baker Interlocking, Track 2, SB

**11-20-2017 3:13:00 PM - Incident# 2936816 (1 lost trip, 251 lost minutes)**

No movement no faults, Cars #1015-1008  
Train #421  
T-228  
Fillmore, Track #002, Southbound.

**11-21-2017 3:58:00 PM - Incident# 2937283 (2 lost trips, 488 lost minutes)**

Operator reports Propulsion and brake fault, no movement.  
Cars: (740) 750.  
Azusa Citrus Station, S/bound.  
Train 429.  
T-251.

**11-22-2017 7:40:00 PM - Incident# 2937757 (1 lost trip, 258 lost minutes)**

Operator reports of no movement train 455  
T-215  
(707-711)  
Mile Post marker 8.0, Trk. 1, northbound

**11-24-2017 3:25:00 PM - Incident# 2938252 (1 lost trip, 249 lost minutes)**

T-52 reports of no movement on train 421 cars (711-707). High speed circuit breaker trip.

**11-28-2017 3:30:00 PM - Incident# 2939524 (3 lost trips, 744 lost minutes)**

T-93 reports door problem with no movement on train 406 with cars 1010, 1013, Downtown Azusa, platform 1, Northbound.

**11-29-2017 5:11:00 PM - Incident# 2939983 (0 lost trips, 9 lost minutes)**

Train 428 delayed due to mechanical problem.

**11-29-2017 6:09:00 PM - Incident# 2939993 (1 lost trip, 246 lost minutes)**

Smoke coming from car 714.  
Train 428  
T-340  
Consist 736-714  
Sierra Madre, Track 1 NB

**11-29-2017 6:25:00 PM - Incident# 2939998 (2 lost trips, 492 lost minutes)**

Car 724B no headlights, no cyclops.  
Train 428  
T-411  
Consist 724-748  
Downtown Azusa Track 2 SB

**Wayside Incidents:**

**11-11-2017 7:06:00 AM - Incident# 2933285 (8 lost trips, 1,792 lost minutes)**

ARINC SUMMARY shows open breakers B13 and B12 at Soldano TPSS and B15 and B14 at Virginia TPSS.

**11-30-2017 5:59:00 AM - Incident# 2940133 (0 lost trips, lost minutes)**

ARINC indicates:  
General Alarm at Pasadena, EL Centro, Orange Grove, and X-ing  
Indiana Interlocking and Orange Grove (Data Link Failure)

**Police & Health Incidents:**

**11-04-2017 12:36:00 AM - Incident# 2930596 (0 lost trips, 10 lost minutes)**

Reports of altercation  
Train #406  
T-341  
(1058A)-1012  
Pico Aliso Station, Track #2, SB

**11-07-2017 8:39:00 AM - Incident# 2931656 (0 lost trips, 9 lost minutes)**

Trespasser, cars #734-725-732  
Train #454  
T-178  
Colorado Box, Tracks 1 & 2.

**11-11-2017 9:56:00 AM - Incident# 2933327 (1 lost trip, 224 lost minutes)**  
Assault onboard Train 408 at Highland Park Station.

**11-18-2017 7:00:00 PM - Incident# 2936202 (0 lost trips, 12 lost minutes)**  
Train 411 (cars 1058B-1013-1056), T-2, track 1, N/B reported to making contact with a dog at mile post marker 2.6.

**11-21-2017 8:18:00 AM - Incident# 2937047 (1 lost trip, 246 lost minutes)**  
Sick Individual, cars #(740B)-715  
Train #405  
T-098  
Heritage Square Station, track #002, Southbound.

**11-23-2017 8:27:00 PM - Incident# 2937936 (1 lost trip, 230 lost minutes)**  
Theft/Robberies on board train  
Train 413  
T-340  
Cars (722B), 729  
NB, Track 1, Heritage Square Station

**11-26-2017 6:27:00 PM - Incident# 2938644 (0 lost trips, 9 lost minutes)**  
Fight aboard car 1010, possible knife involved.  
Train 401  
T-267  
Consist 1013-1010  
Northbound approaching Del Mar

**11-28-2017 7:14:00 AM - Incident# 2939244 (0 lost trips, lost minutes)**  
Reports of passenger onboard with seizure  
Train # 411  
T-111  
739-718  
Little Tokyo Station, Track #1, NB

**11-28-2017 3:35:00 PM - Incident# 2939512 (0 lost trips, lost minutes)**  
T-540 reports receiving a PIC call stating a person is having a seizure on the train at Chinatown station. Train 455, cars 708, 703, Chinatown, Track 2, Southbound. Person is in car 708.

**11-29-2017 9:42:00 AM - Incident# 2939775 (0 lost trips, 4 lost minutes)**  
Alleged assault aboard train 454

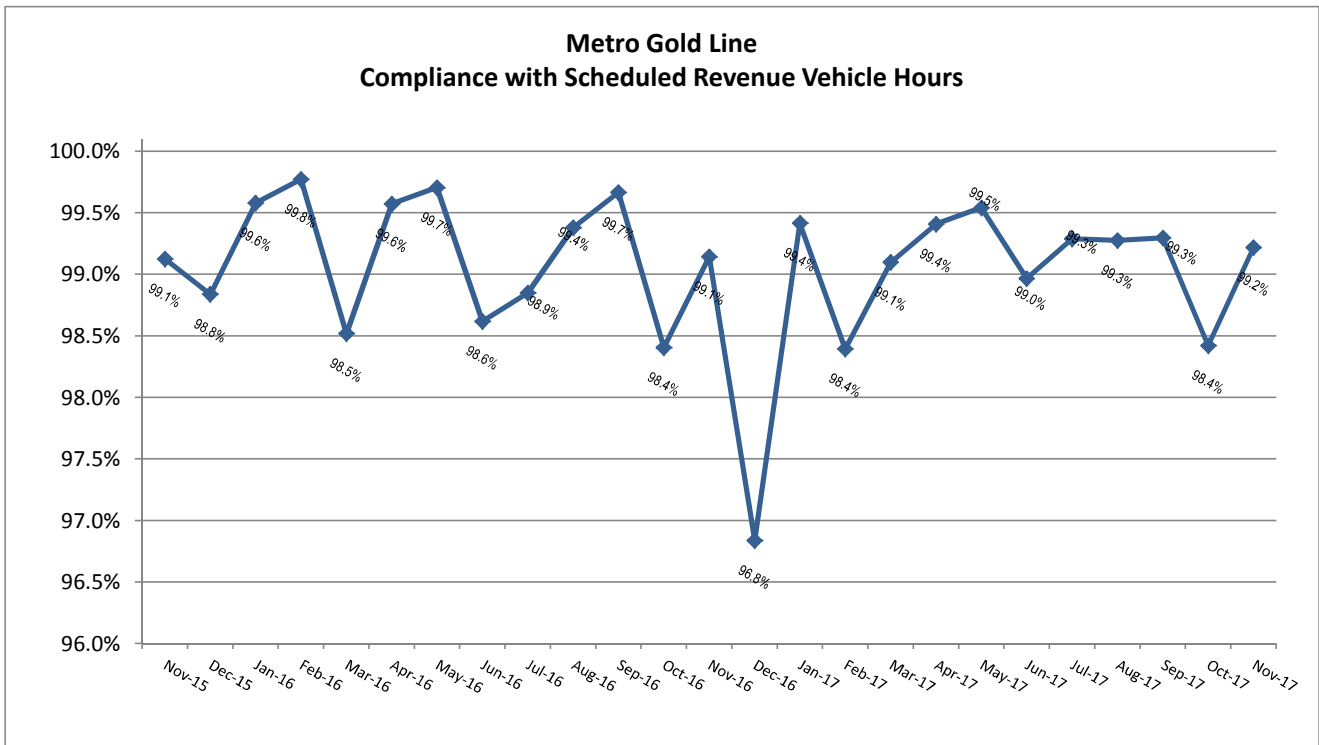
**11-29-2017 7:00:00 PM - Incident# 2940013 (0 lost trips, 15 lost minutes)**  
Physical fight aboard car 734.  
Train 406  
T-228  
Consist 740-734  
Lincoln/Cypress to Chinatown, SB Track 2

**Other Incidents:**

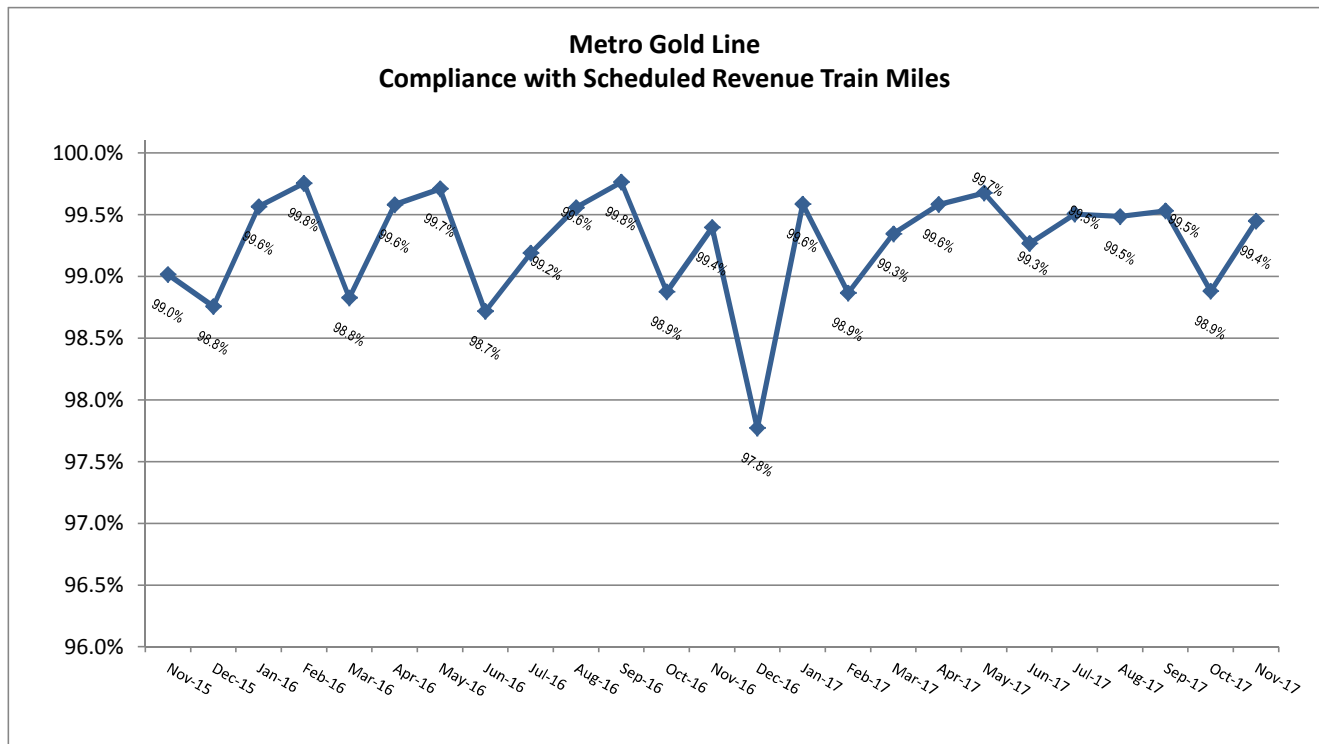
**11-12-2017 1:10:00 AM - Incident# 2933505 (1 lost trip, 325 lost minutes)**  
Dirty car  
Train 411  
T 524  
Cars (740) 737  
SB, Azusa Citrus Station, Track 1

# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

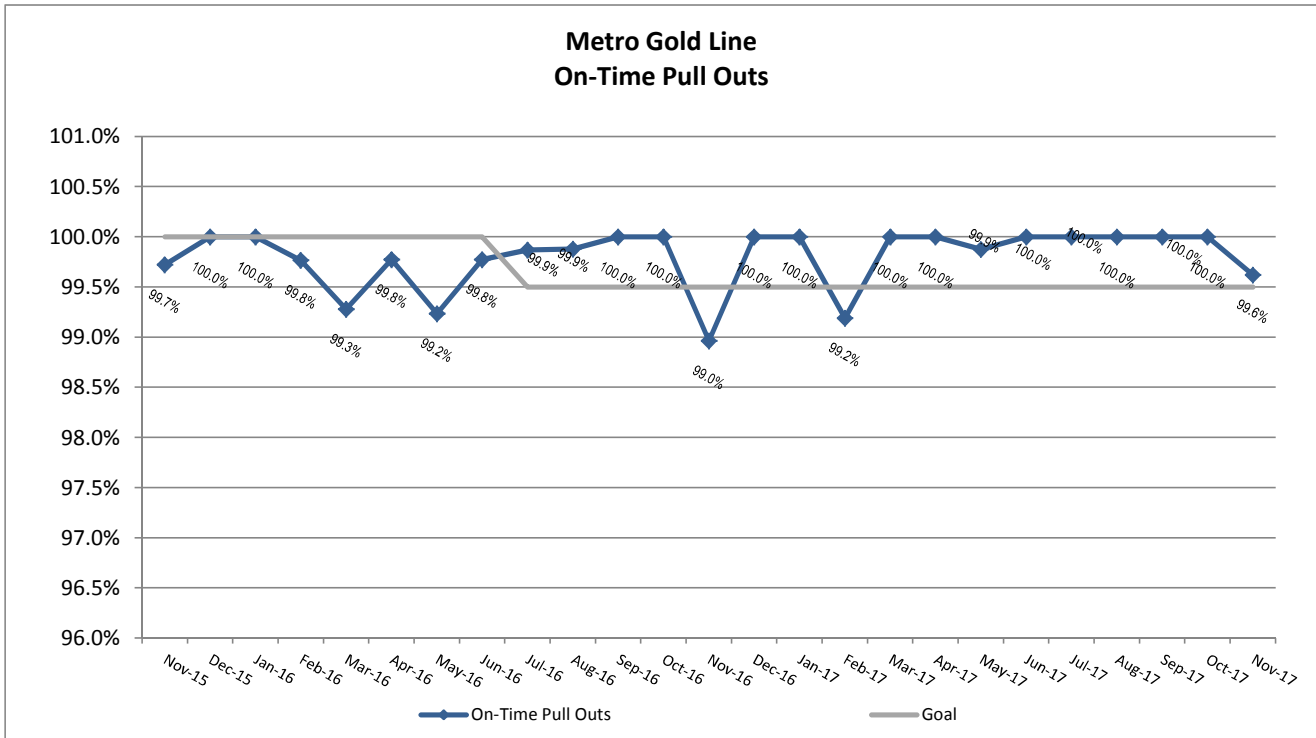
## COMPLIANCE WITH SCHEDULED VEHICLE HOURS



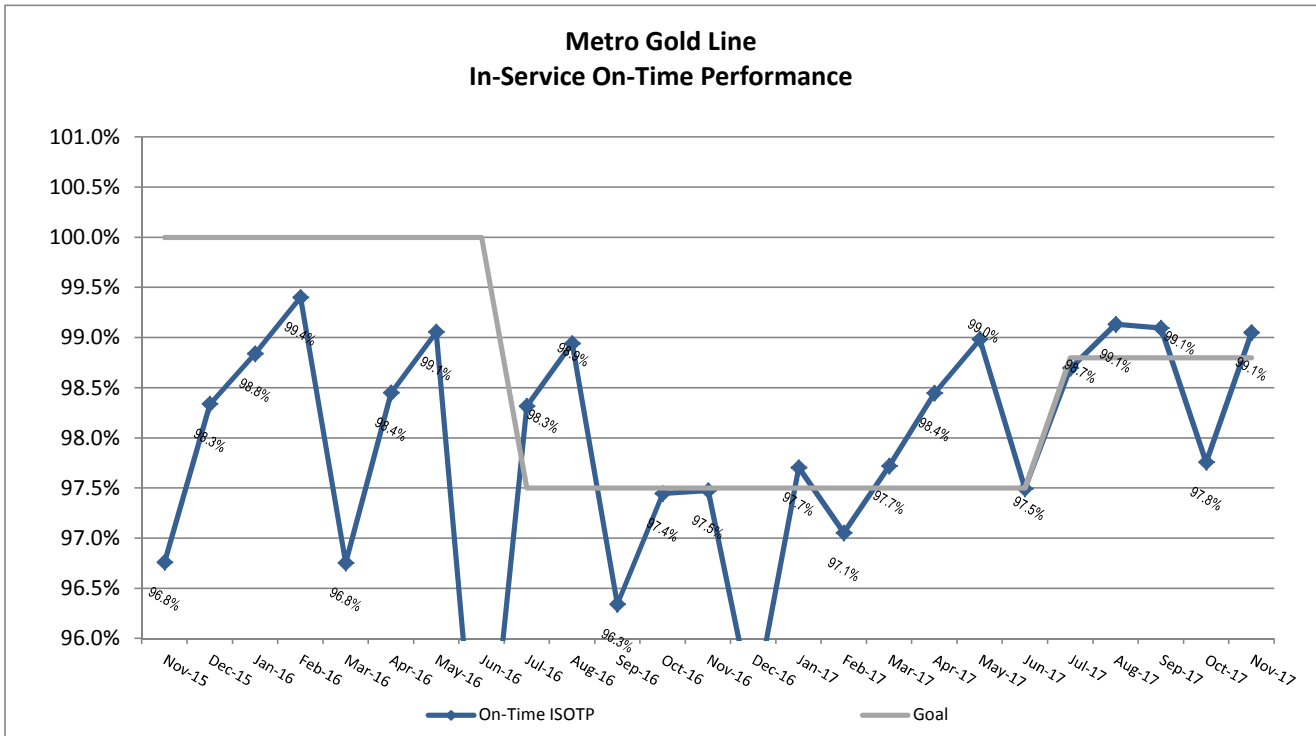
## COMPLIANCE WITH SCHEDULED TRAIN MILES



## ON-TIME PULL OUTS

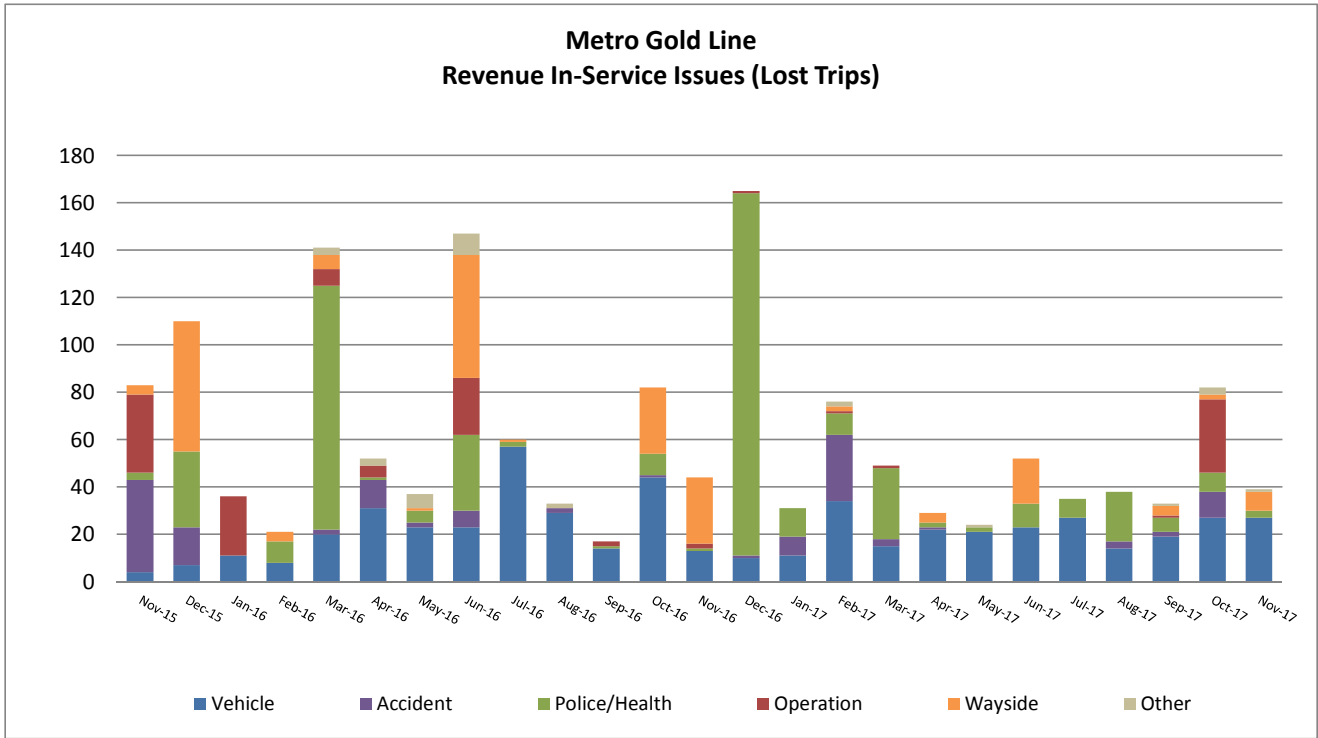


## IN-SERVICE ON-TIME PERFORMANCE

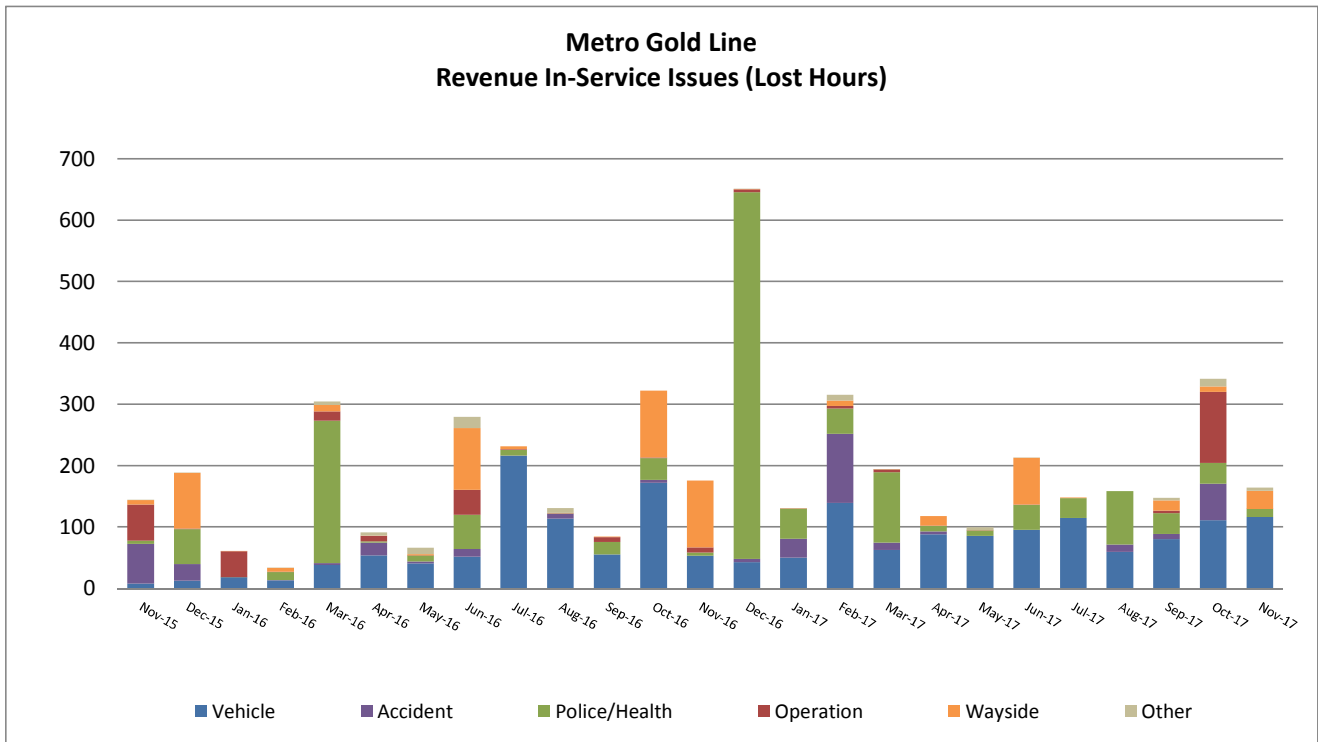




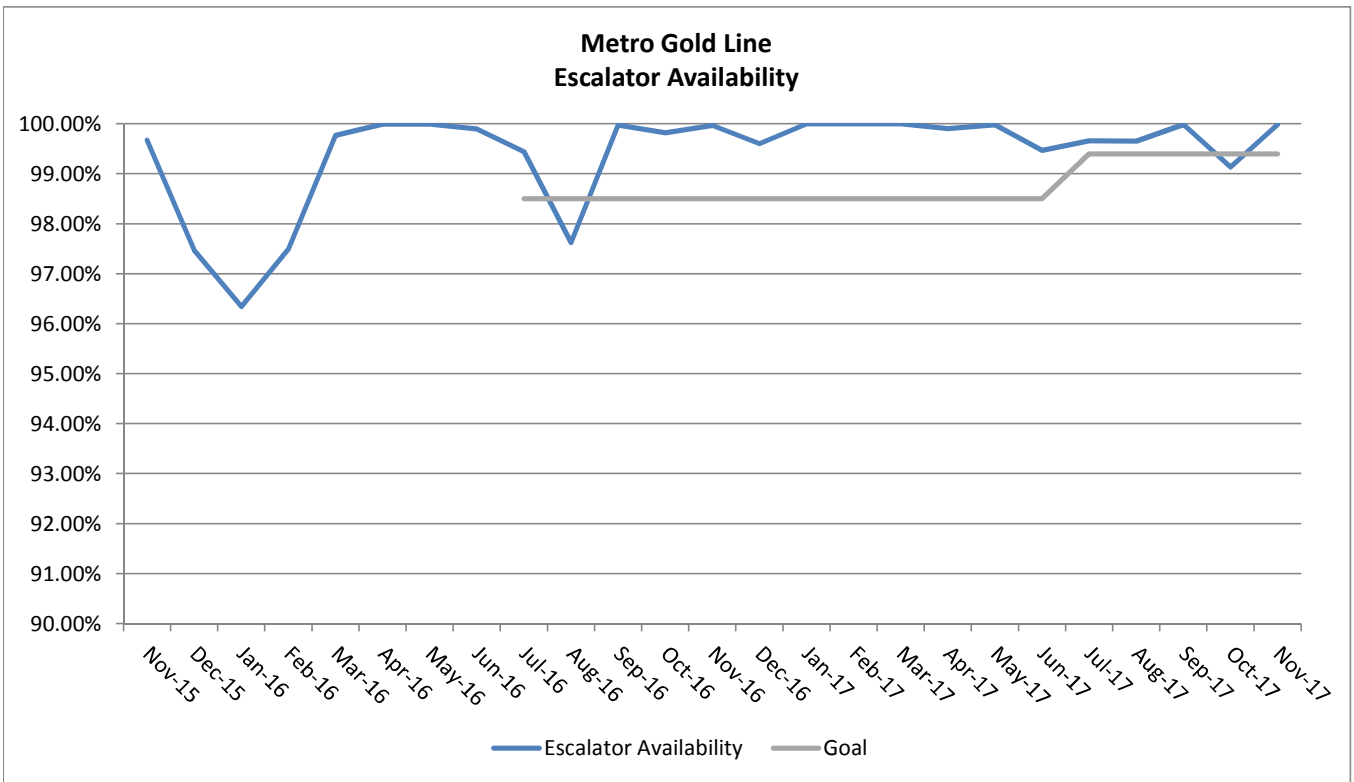
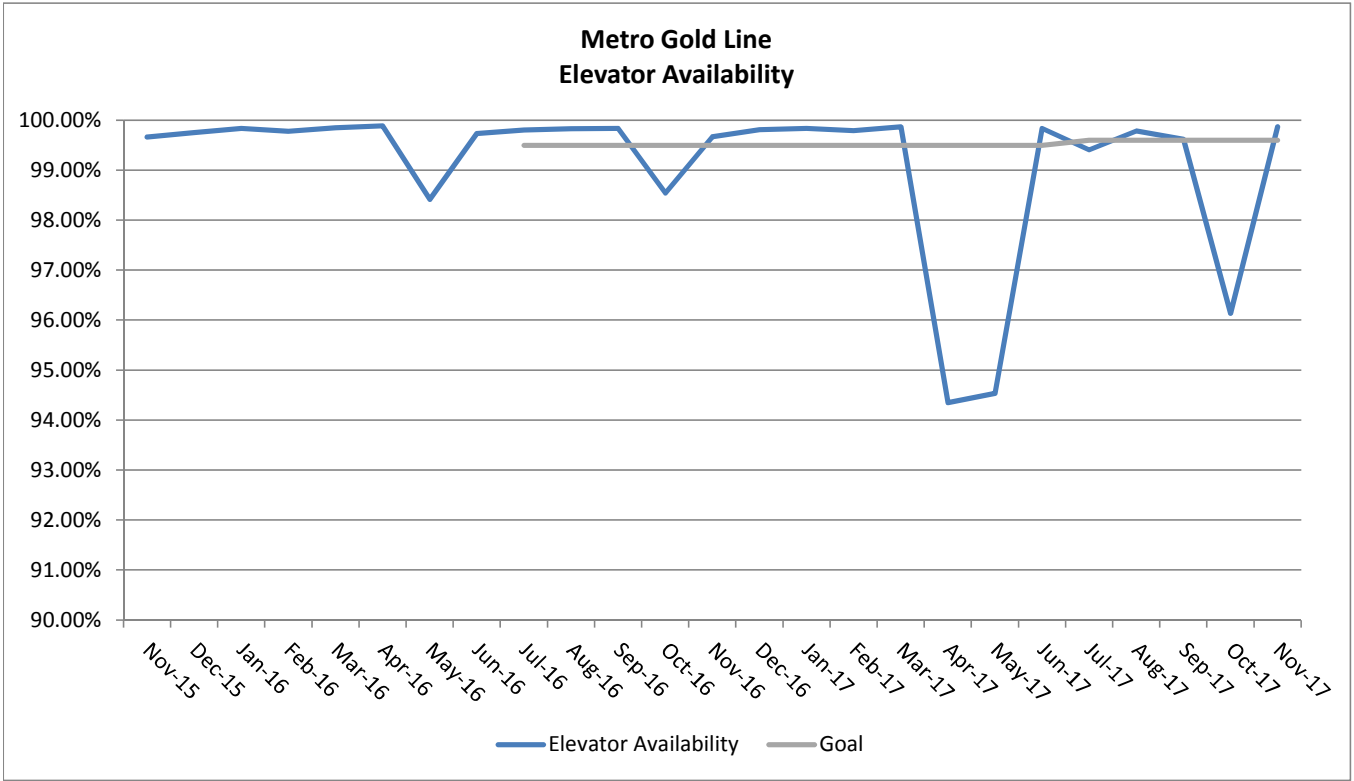
## LOST TRIPS



## LOST HOURS



## VERTICAL TRANSPORTATION AVAILABILITY



## EXPO LINE

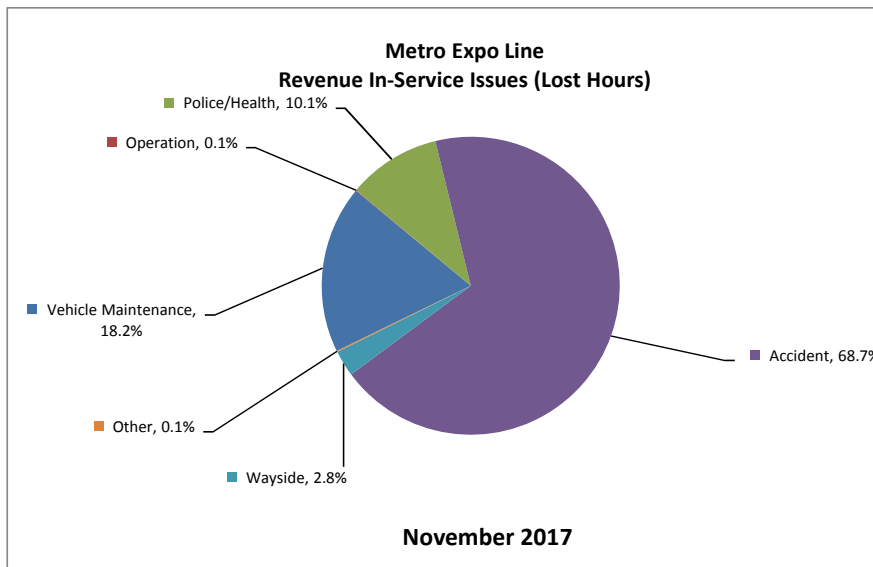
Out of a total of 22,101 hours operated, there were approximately 96 total hours of service delays.

November 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	22,005	99.6%
Cancelled + Delayed Hours	96	0.4%
<b>Total Revenue Hours</b>	<b>22,101</b>	<b>100.0%</b>

Summary of the incidents:	Count	Hours	Percent
Operations	1	0.1	0.1%
Accidents	2	65.8	68.7%
Vehicle Maintenance	11	17.5	18.2%
Wayside	2	2.7	2.8%
Police & Health	4	9.7	10.1%
Other	1	0.1	0.1%
<b>Total</b>	<b>21</b>	<b>95.8</b>	<b>100.0%</b>

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

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



## November 2017 Expo Line incidents causing delay were as follows:

### Operations Incidents:

**11-21-2017 7:58:00 AM - Incident# 2937086 (0 lost trips, 5 lost minutes)**

Rule Violation: Operator T-405 violated rules 4076 Reporting Delays and 4261 Departure Times.

### Accidents:

**11-05-2017 11:00:00 PM - Incident# 2931016 (22 lost trips, 3,102 lost minutes)**

Train operator reports body parts on the right-of-way at 14th & Colorado.

**11-15-2017 5:11:00 PM - Incident# 2934984 (6 lost trips, 846 lost minutes)**

Train vs Auto at 28th Street and Flower

Train 601

T-29

(120B)-164-100

28th Street and Flower Southbound.

### Vehicle Maintenance Incidents:

**11-01-2017 9:44:00 AM - Incident# 2929397 (0 lost trips, 12 lost minutes)**

Other Vehicle System (Operator unable to transition to street run)

**11-02-2017 4:59:00 PM - Incident# 2930024 (0 lost trips, 10 lost minutes)**

No movement, doors 1/2 and 3/4 cut out.

Train#604

T#546

(108A), 159, 104

Track#4, Southbound, Culvercity Station.

**11-03-2017 12:50:00 PM - Incident# 2930423 (0 lost trips, 9 lost minutes)**

Doors would not close, causing no movement.

Train#652

T#227

(1020A), 1051, 1044

Track#4, Northbound, Santa Monica

**11-07-2017 7:40:00 AM - Incident# 2931627 (1 lost trip, 141 lost minutes)**

Operator reports of no movement and friction brake fault.

T-417

Train#663

Cars(1061B)-1049-1025

Northbound Trk#3

Westwood St.

**11-09-2017 7:40:00 AM - Incident# 2932431 (2 lost trips, 282 lost minutes)**

Trains were turned back from the 23rd St. Station due to a B/O train in the downtown area.

**11-09-2017 3:40:00 PM - Incident# 2932728 (1 lost trip, 141 lost minutes)**

Non-functional TOD screens, caused Train#673 not to make roll-out.

Train#673

T#492

(1020),(1033)

Northbound, Signal 8N, Expo-Yard

**11-12-2017 3:38:00 PM - Incident# 2933658 (1 lost trip, 149 lost minutes)**

Recurring Friction Brake Application With No Movement.

Train # 691

T-527

Cars #(1003-A)-1062-1064.

S/Bound 23rd Street Station Track #4.

**11-22-2017 9:26:00 AM - Incident# 2937540 (0 lost trips, 4 lost minutes)**

Friction Brakes, cars #(302)-301-235

Train #603

T-208

Santa Monica Station, Track #004, Northbound.

**11-22-2017 5:08:00 PM - Incident# 2937743 (0 lost trips, 5 lost minutes)**

Friction Brakes, cars #(1022A)-1039-1037

Train #667

T-463

Degnan Interlocking, Track #003, Northbound.

**11-23-2017 8:06:00 PM - Incident# 2937932 (1 lost trip, 141 lost minutes)**

Train 651 (1028, 1023, 1033) approaching 23rd St. Station, track 2 reports propulsion fault indication, no movement.

**11-29-2017 8:43:00 AM - Incident# 2939757 (1 lost trip, 153 lost minutes)**

Doors Out of alignment  
Train 657  
T-133  
(1048B)-1044-1020  
Western Station Trk 4 S/B  
12 min delay

**Wayside Incidents:**

**11-09-2017 10:24:00 AM - Incident# 2932497 (0 lost trips, 16 lost minutes)**

False occupancy on switch 1B at 30th interlocking during Instruction department LCP operation.

**11-26-2017 8:12:00 AM - Incident# 2938541 (1 lost trip, 147 lost minutes)**

Switch 3 at Santa Monica went out of correspondence.

**Police & Health Incidents:**

**11-11-2017 2:51:00 PM - Incident# 2933408 (0 lost trips, 4 lost minutes)**

Assault on Blind Passenger at Western station track 3 northbound.  
Train 654  
T-150  
(1070B)-1053-1023  
Northbound, Track 3 Western station.

**11-12-2017 9:15:00 AM - Incident# 2933567 (0 lost trips, lost minutes)**

Passenger having a seizure on car 1024.

**11-19-2017 7:52:00 AM - Incident# 2936284 (2 lost trips, 282 lost minutes)**

Operator reports of a fight on board the train  
Train 657  
T-472  
1035-1052-1017  
26th Street station, Trk.4, southbound

**11-20-2017 4:24:00 PM - Incident# 2936867 (0 lost trips, 12 lost minutes)**

Passenger was assaulted and had her phone stolen on train 672

**11-23-2017 10:59:00 AM - Incident# 2937871 (2 lost trips, 282 lost minutes)**

Train 651 T-150 reports 10-72 at 17 th street station.  
Car #1084B-1096-1083  
Southbound at 17th street station.

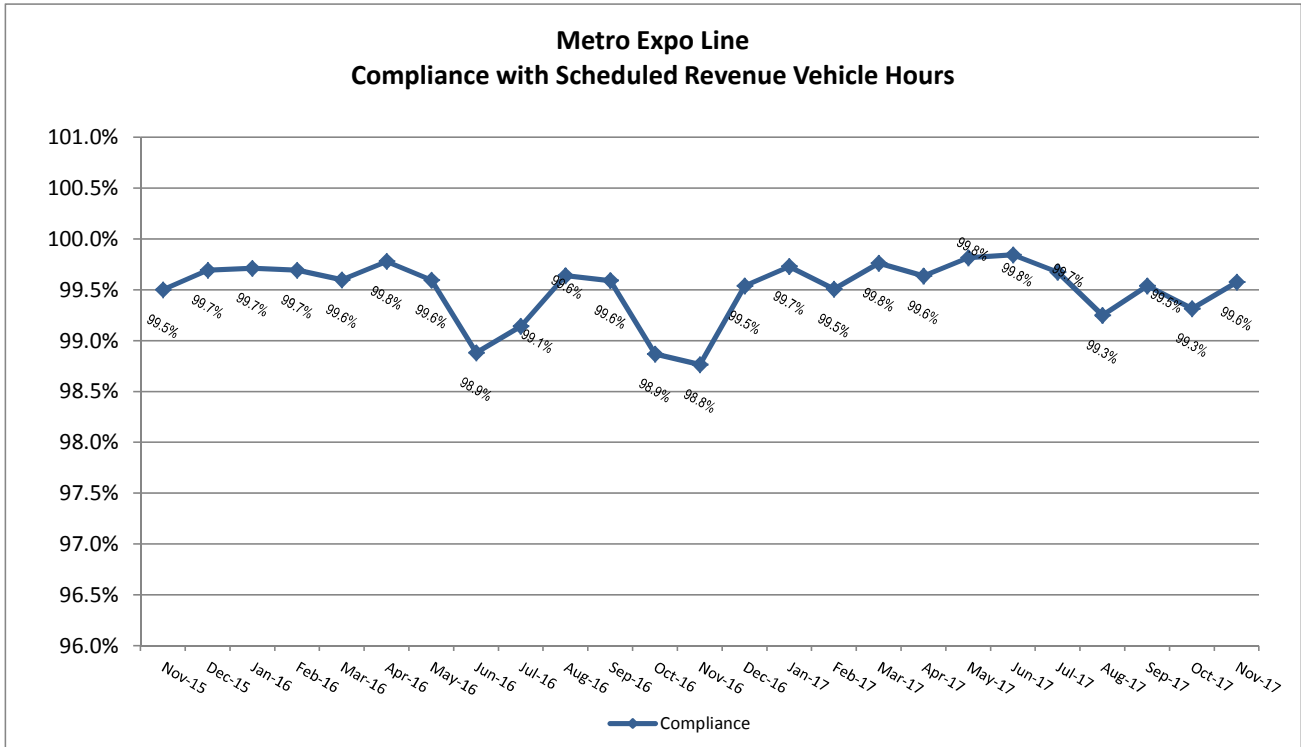
**Other Incidents:**

**11-27-2017 5:30:00 AM - Incident# 2938748 (0 lost trips, 6 lost minutes)**

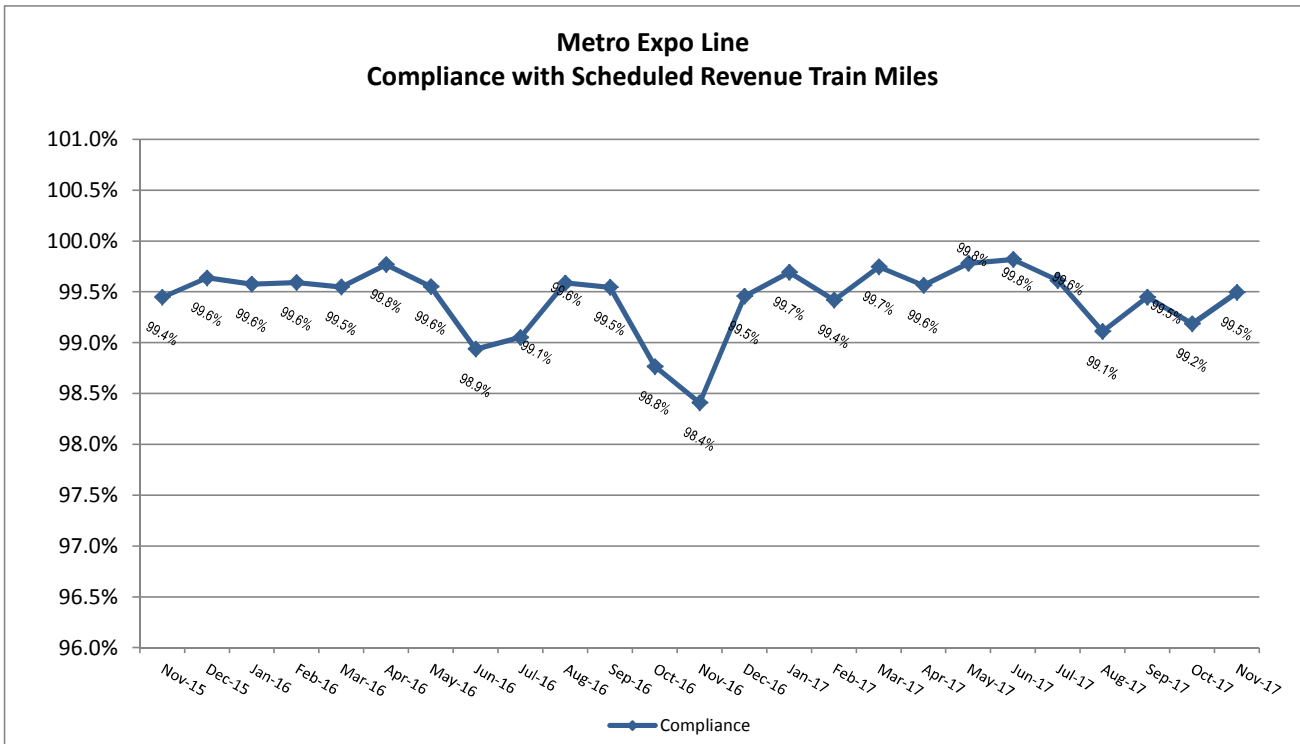
Train 602 was pulled out of Expo

# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

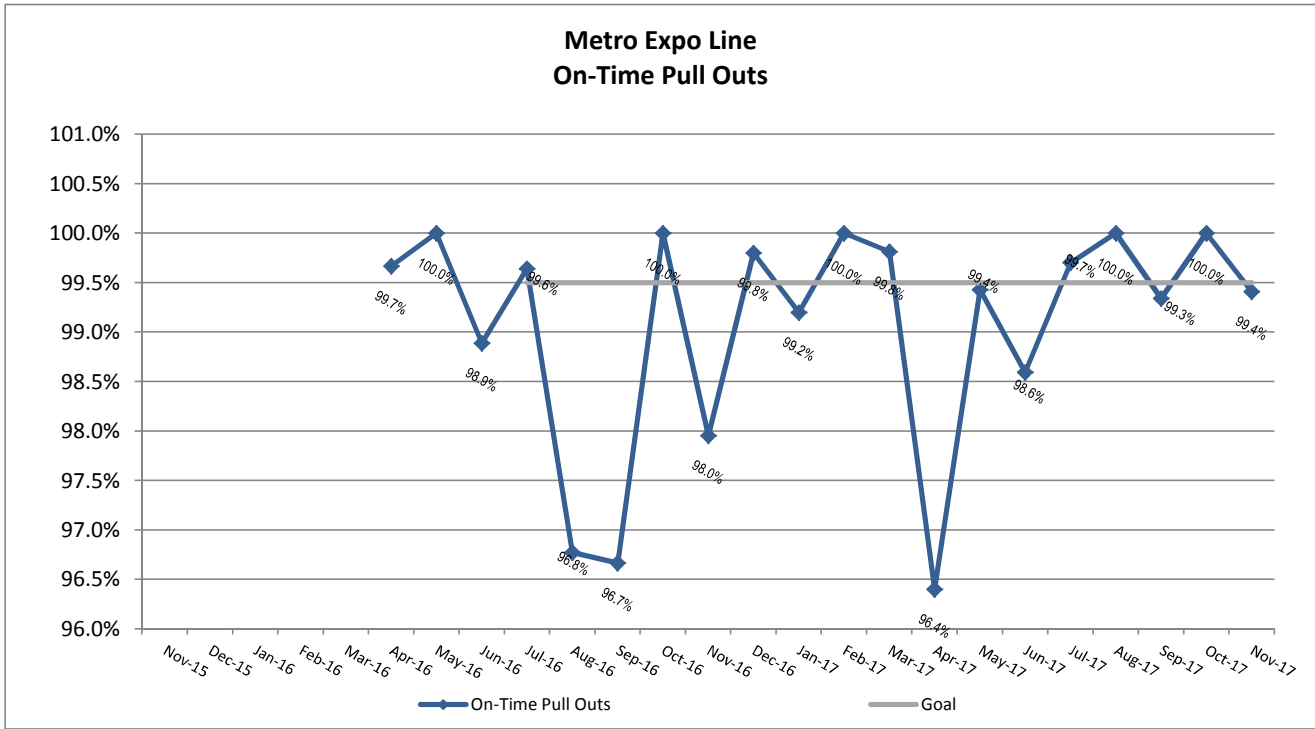
## COMPLIANCE WITH SCHEDULED VEHICLE HOURS



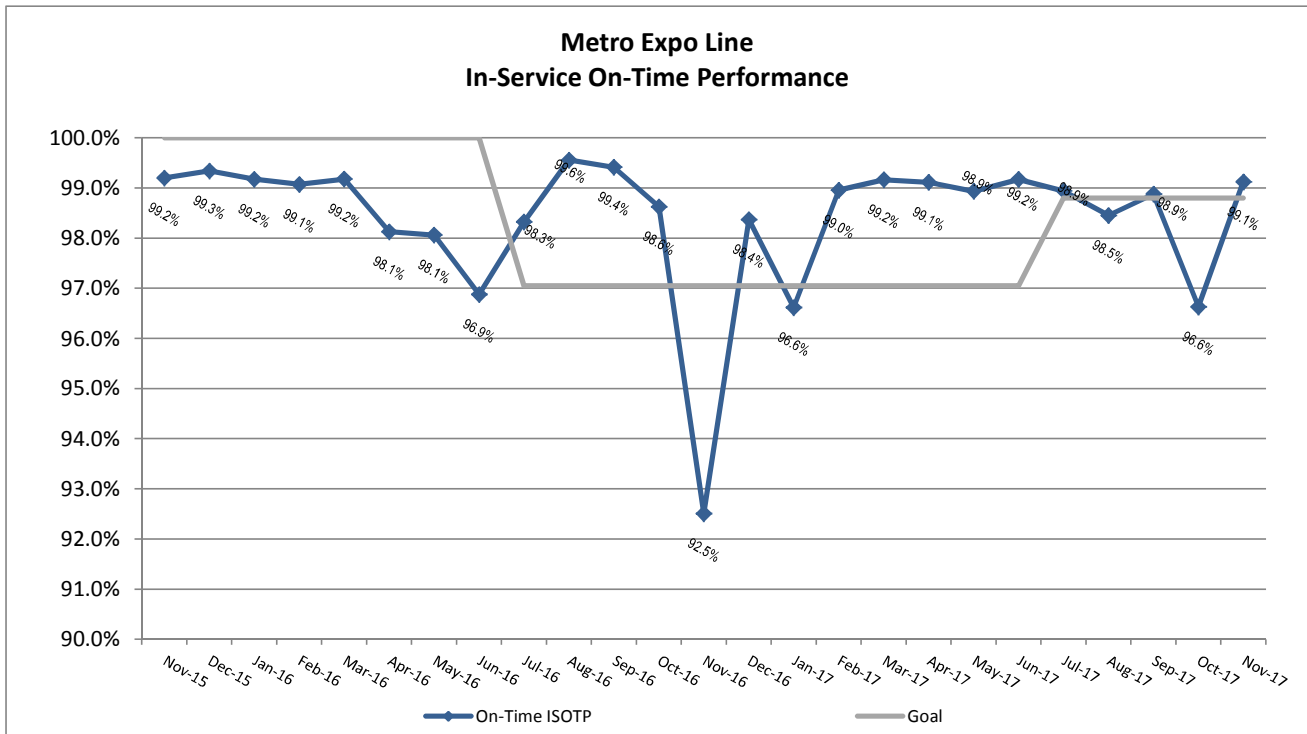
## COMPLIANCE WITH SCHEDULED TRAIN MILES



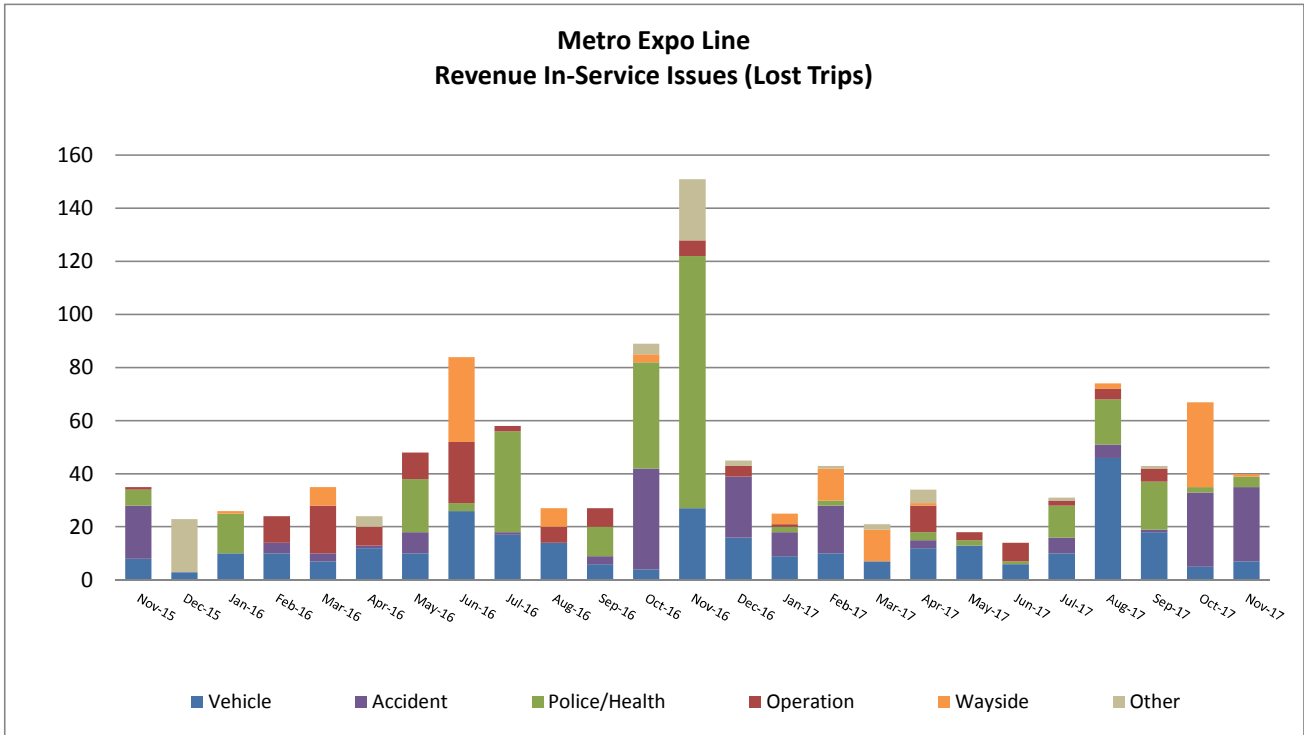
## ON-TIME PULL OUTS



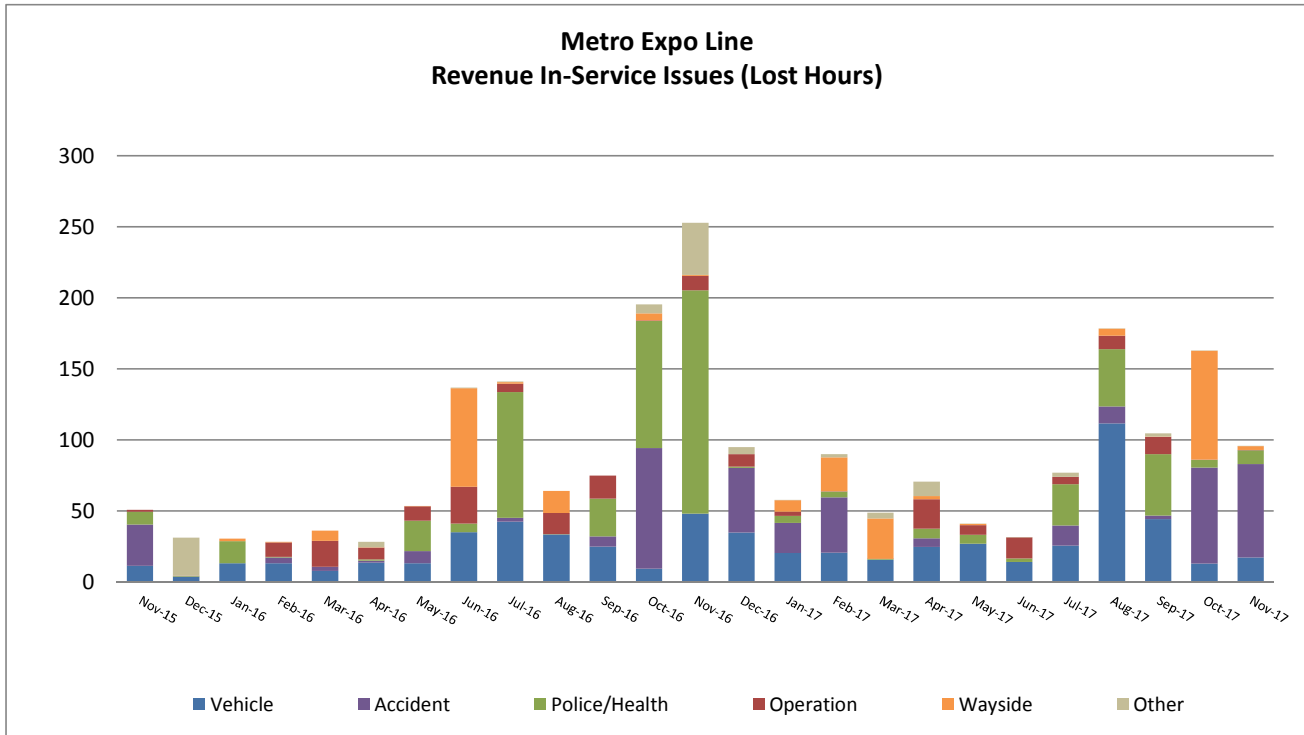
## IN-SERVICE ON-TIME PERFORMANCE



## LOST TRIPS



## LOST HOURS





## VERTICAL TRANSPORTATION AVAILABILITY

