Los Angeles County Metropolitan Transportation Authority California

# OPERATIONS MONTHLY RAIL PERFORMANCE REPORT

APRIL 201



# METRO RAIL PERFORMANCE – APRIL 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.

M	EV 2014	FY 2015	EV 2040	FY 2017	FY 2017 YTD	FYTD	Feb	Mar	Apr
Measurement Systemwide	FT 2014	FT 2015	FT 2010	Target	עוז	Status	Month	Month	Month
On-Time Pullouts	00 550/	00.070/	00.000/	00 500/	00.040/		00 540/	00 770/	00.000/
	99.55%	99.67%	99.63%	99.50%	99.61%		99.51%	99.77%	99.29%
Mean Miles Between Chargeable Mechanical Failures	28,829	34,524	30,482	27,911	29,066	<u> </u>	33,481	29,637	29,112
In-Service On-time Performance	97.92%	98.39%	98.10%	98.00%	98.14%		97.92%	98.28%	98.48%
Service Delivery Ratio	99.12%	99.35%	99.22%	99.25%	99.18%		98.89%	99.27%	99.23%
Traffic Accidents Per 100,000 Train Miles	1.47	1.18	1.17	N/A	1.08	N/A	1.15	0.65	1.10
CPUC Reportable Accidents per 100,000 Train Miles	0.10	0.43	0.60	0.67	0.39		0.43	0.39	0.14
Passenger Accidents per 100,000 Boardings	0.025	0.013	0.016	0.009	0.024		0.023	0.071	0.000
Complaints per 100,000 Boardings	0.91	0.78	1.43	1.12	2.00		2.01	2.36	1.75
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours <sup>1,2</sup>	15.35	11.11	10.97	10.42	12.79	0	14.51	17.47	12.05
Lost Work Days per 200,000 Exposure Hours <sup>1, 2</sup>	861	880	482	458.16	732		800	639	-
OSHA Injuries per 200,000 Exposure Hours <sup>1,2</sup>	8.18	6.68	6.32	6.00	8.98		9.33	10.11	-
<b>, , , , , , , , , ,</b>							1		
Wayside									
Overdue Work Orders (Non-PMP) - Aging of Outstanding Work Orders	64	138	635	N/A	2,123	N/A	271	344	706
Past-Due Preventive Maintenance - Aging of Outstanding Work Orders	0	1	25	N/A	264	N/A	28	79	110
% of Completed Inspections	99.41%	99.51%	99.57%	N/A	99.55%	N/A	100.00%	99.33%	99.34%
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	9.28	9.07	4.77	4.53	4.41		4.08	7.50	0.00
Lost Work Days per 200,000 Exposure Hours <sup>1</sup>	179	309	148	141	149		314	120	-
OSHA Injuries per 200,000 Exposure Hours <sup>1</sup>	6.31	8.28	4.40	4.18	4.43		4.08	3.75	-
	•								
Blue Line									
On-Time Pullouts	99.37%	99.41%	99.59%	99.50%	99.63%		99.69%	100.00%	99.70%
Mean Miles Between Chargeable Mechanical Failures	18,731	23,716	19,240	19,572	15,410		15,852	10,647	14,849
In-Service On-time Performance	95.84%	97.28%	96.10%	97.00%	96.27%		95.93%	96.44%	95.90%
Service Delivery Ratio	98.36%	98.88%	98.41%	98.46%	98.47%		97.70%	98.82%	97.84%
Traffic Accidents Per 100,000 Train Miles	2.97	2.48	2.38	N/A	2.17	N/A	0.69	0.64	2.69
CPUC Reportable Accidents per 100,000 Train Miles	0.00	0.89	1.39	1.34	0.79		0.00	0.64	0.67
Passenger Accidents per 100,000 Boardings	0.058	0.034	0.016	0.006	0.050		0.111	0.202	0.000
Complaints per 100,000 Boardings	1.10	0.90	1.33	1.09	1.70		1.39	2.07	2.04
New Workers' Compensation Indemnity Claims per	17.46	15.10	15.08	15.58	18.50	0	11.68	25.08	21.91
Lost Work Days per 200,000 Exposure Hours <sup>1</sup>	990	1,622	797	786	914	0	1,542	730	-
OSHA Injuries per 200,000 Exposure Hours <sup>1</sup>	5.71	10.64	6.79	9.58	10.87		5.84	10.03	-

<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.

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

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

N/A = Not Available

				<b>TV 0047</b>					
Measurement	EV 2014	EV 2015	FY 2016	FY 2017 Target	FY 2017 YTD	FYTD Status	Feb Month	Mar Month	Apr Month
Red Line	F1 2014	FT 2015	FT 2010	Taryer	שוז	Status	WOnth	MONUI	MONTI
On-Time Pullouts	99.72%	99.91%	99.79%	99.50%	99.98%		100.00%	99.80%	100.00%
Mean Miles Between Chargeable Mechanical Failures	63.099	85,090	94,312	112,652	111,801	0	109,220	145,093	96,997
In-Service On-time Performance	98.91%	99.13%	99.45%	99.50%	99.38%	Ŏ	98.56%	99.11%	99.42%
Service Delivery Ratio	99.57%	99.60%	99.71%	99.71%	99.71%		99.54%	99.35%	99.69%
Traffic Accidents Per 100,000 Train Miles	1.01	0.47	0.75	N/A	0.68	N/A	0.91	0.00	0.87
CPUC Reportable Accidents per 100,000 Train Miles	0.00	0.07	0.07	0.60	0.17		0.00	0.00	0.00
Passenger Accidents per 100,000 Boardings	0.006	0.002	0.002	0.003	0.005		0.000	0.025	0.000
Complaints per 100,000 Boardings	0.60	0.54	0.57	0.56	1.12		1.74	1.93	1.47
New Workers' Compensation Indemnity Claims per	20.22	6.20	16.43	13.29	13.66		6.17	22.47	11.41
*Lost Work Days per 200,000 Exposure Hours	927	649	526	556	1,021		771	762	-
*OSHA Injuries per 200,000 Exposure Hours	11.79	3.54	7.99	6.55	7.59	$\bigcirc$	6.17	0.00	-
Creen Line	1								
Green Line On-Time Pullouts	99.69%	99.32%	99.49%	99.50%	99.65%		98.70%	98.89%	100.00%
Mean Miles Between Chargeable Mechanical Failures						0			
	19,513	21,054	19,238	19,911	15,776		19,422	16,863	14,907
In-Service On-time Performance	97.85%	97.39%	98.52%	98.20%	98.55%		98.87%	98.52%	99.06%
Service Delivery Ratio	99.57%	99.50%	99.59%	99.62%	99.60%		99.71%	99.50%	99.71%
Traffic Accidents Per 100,000 Train Miles	0.49	0.21	0.42	N/A	0.50	N/A	0.00	0.00	0.84
CPUC Reportable Accidents per 100,000 Train Miles	0.00	0.07	0.07	0.18	0.00		0.00	0.00	0.00
Passenger Accidents per 100,000 Boardings	0.023	0.024	0.034	0.011	0.046		0.000	0.000	0.000
Complaints per 100,000 Boardings New Workers' Compensation Indemnity Claims per	1.15	0.88	1.53	1.30	2.15		2.72	2.76	2.14
200,000 Exposure Hours	16.51	7.32	7.18	9.27	9.03		20.51	8.92	9.90
*Lost Work Days per 200,000 Exposure Hours	1,299	479	228	195	715		352	268	-
*OSHA Injuries per 200,000 Exposure Hours	11.30	4.07	3.19	2.34	5.59	Ŏ	0.00	8.92	-
Gold Line									
On-Time Pullouts	99.56%	99.98%	99.68%	99.50%	99.80%		99.19%	100.00%	100.00%
Mean Miles Between Chargeable Mechanical Failures	45,894	44,171	40,426	51,665	36,698	$\bigcirc$	43,930	53,570	29,660
In-Service On-time Performance	98.03%	98.56%	97.60%	97.50%	97.48%		97.05%	97.72%	98.45%
Service Delivery Ratio	99.03%	99.34%	99.11%	99.16%	98.81%		98.33%	99.06%	99.38%
Traffic Accidents Per 100,000 Train Miles	1.03	1.14	0.99	N/A	0.65	N/A	0.94	0.83	0.45
CPUC Reportable Accidents per 100,000 Train Miles	0.00	0.30	0.60	0.50	0.26		0.47	0.83	0.00
Passenger Accidents per 100,000 Boardings	0.052	0.007	0.039	0.035	0.029		0.000	0.141	0.000
Complaints per 100,000 Boardings	1.04	1.01	2.73	2.26	2.77		2.80	3.89	1.74
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	14.98	15.96	11.87	12.20	14.95	0	30.04	26.14	5.87
*Lost Work Days per 200,000 Exposure Hours	1,460	1,068	766	808	1,121		763	1,039	-
*OSHA Injuries per 200,000 Exposure Hours	9.12	3.83	9.29	10.07	10.40	$\bigcirc$	18.02	20.92	-
Expo Line									
On-Time Pullouts	-	-	99.53%	99.50%	98.70%	$\bigcirc$	100.00%	99.81%	96.40%
Mean Miles Between Chargeable Mechanical Failures	-	-	18,114	19,572	30,797	$\bigcirc$	49,240	110,378	62,795
In-Service On-time Performance	98.70%	99.14%	98.61%	97.05%	98.39%	$\bigcirc$	98.96%	99.16%	99.11%
Service Delivery Ratio	99.45%	99.64%	99.56%	99.65%	99.39%	$\bigcirc$	99.50%	99.75%	99.62%
Traffic Accidents Per 100,000 Train Miles	1.17	1.02	0.74	N/A	1.53	N/A	3.48	1.52	0.83
CPUC Reportable Accidents per 100,000 Train Miles	1.17	1.02	0.50	0.37	0.77		1.74	0.00	0.00
Passenger Accidents per 100,000 Boardings	0.000	0.000	0.019	0.000	0.022		0.000	0.000	0.000
Complaints per 100,000 Boardings	1.53	1.13	3.38	1.87	3.99		2.38	2.22	1.86
New Workers' Compensation Indemnity Claims per	-	24.97	8.44	0.00	20.86		24.74	14.26	31.27
*Lost Work Days per 200,000 Exposure Hours	-	937	73	0	747		1,195	1,096	-
*OSHA Injuries per 200,000 Exposure Hours			5.63	0.00	18.78		24.74	21.39	

\* There is One Month lag in reporting this data

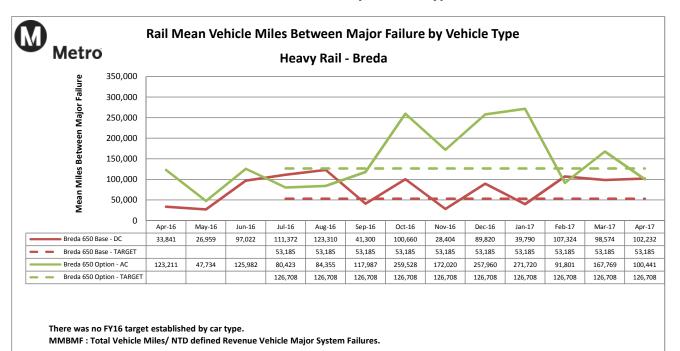
Green - High probability of achieving the target (on track). Meets Target at 100% or better.

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

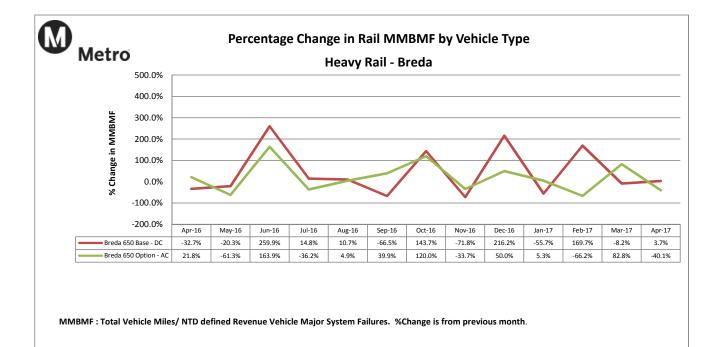
Red - High probability that the target will not be achieved -- significant problems and/or delays. Falls below Target >70%.

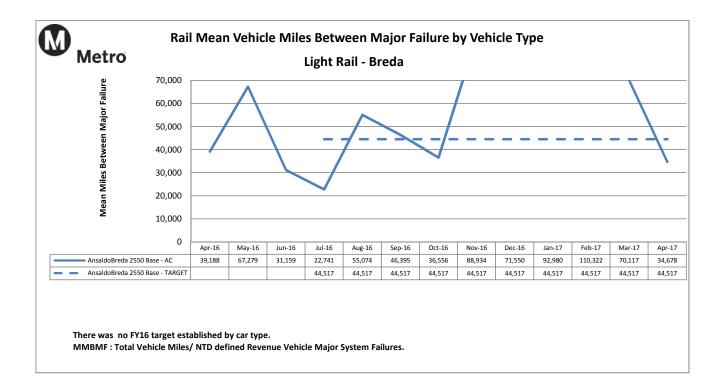
N/A = Not Available

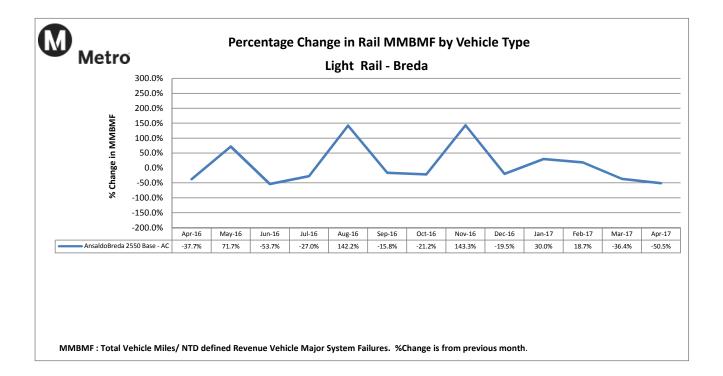
# **METRO RAIL PERFORMANCE – APRIL 2017**

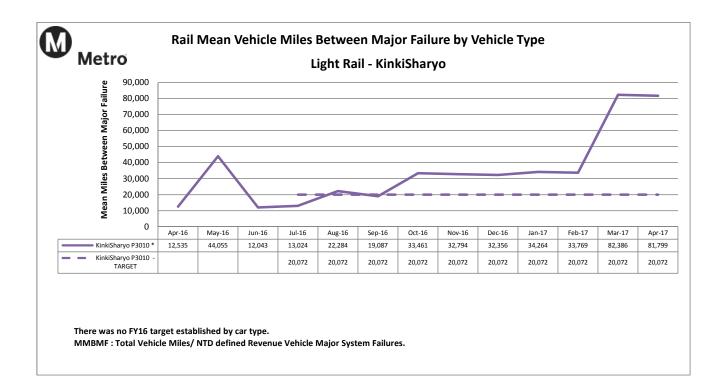


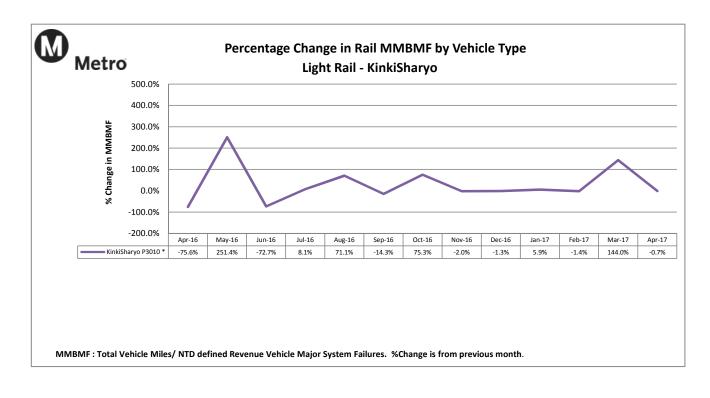
# Rail Performance by Vehicle Type



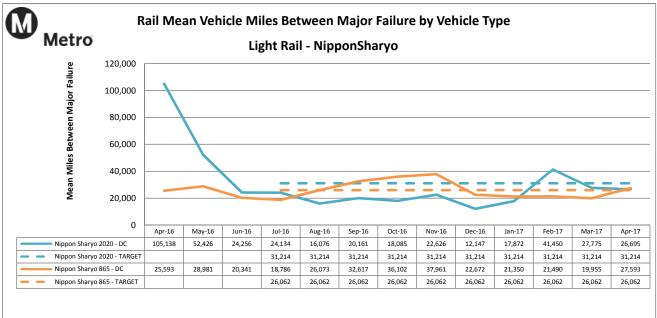






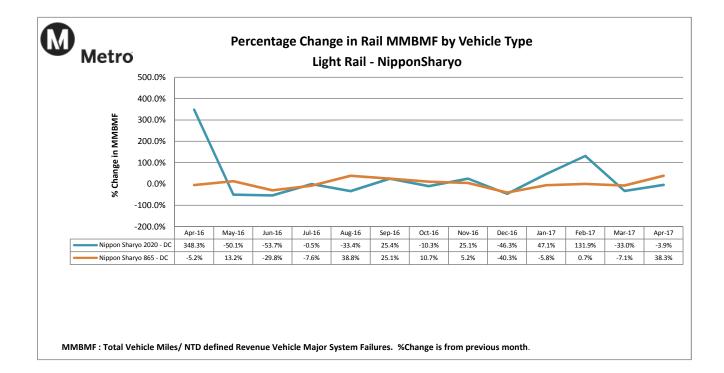


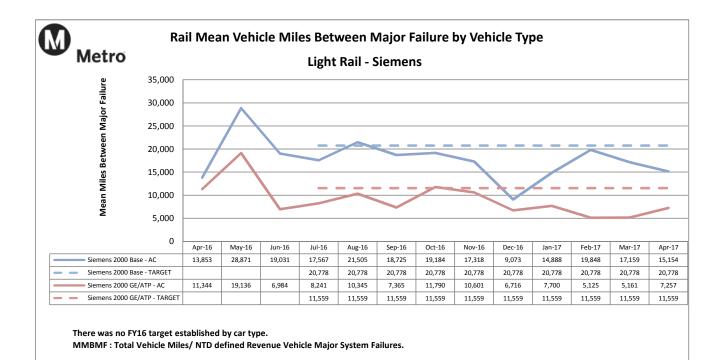
\* KinkiSharyo rolling stock began service March 2016

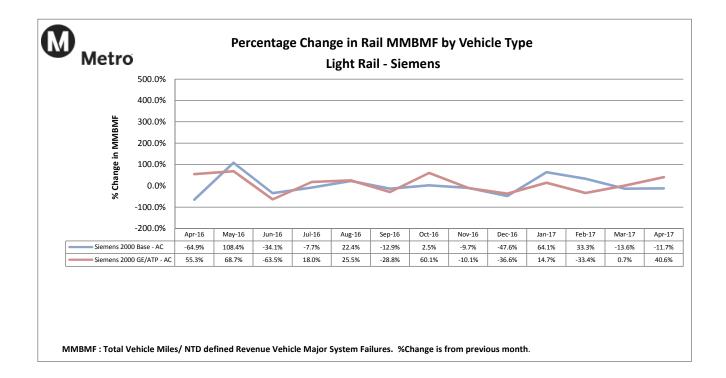


There was no FY16 target established by car type.

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







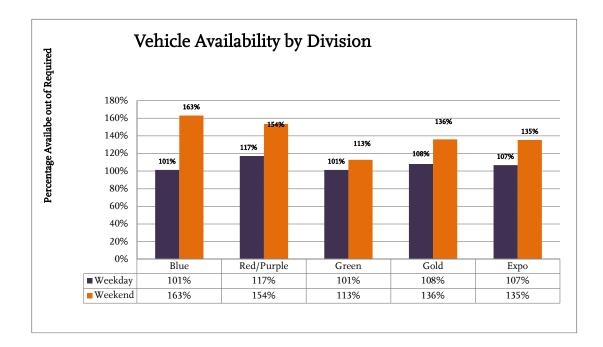
	FY 2016	Y 2016 FY 2017	
		Goal	YTD
AnsaldoBreda2550Base - AC	42,292	44,517	53,332
Breda 650 Base - DC	50,526	53,185	72,935
Breda 650 Option - AC	120,372	126,708	136,891
Kinkisharyo P3010	19,068	20,072	30,867
Nippon Sharyo 2020 - DC	29,653	31,214	19,618
Nippon Sharyo 865 - DC	24,759	26,062	24,967
Siemens 2000 Base - AC	19,739	20,778	16,232
Siemens 2000 GE/ATP - AC	10,981	11,559	7,664

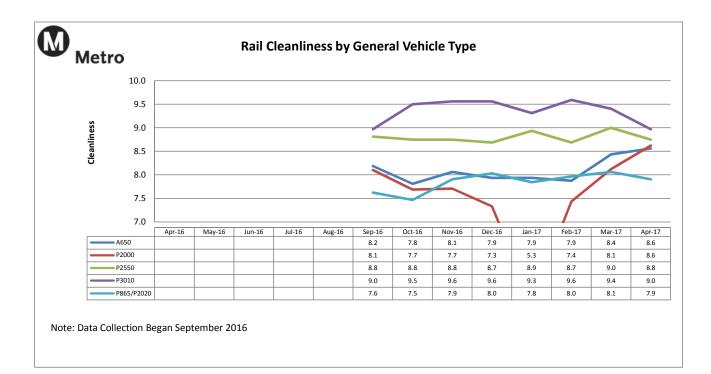
# Mean Miles Beween Major Failures

# **Rail Fleet Distribution – APRIL 2017**

Number of Rail Vehicle Type by		Red /			
Division	Blue	Purple	Green	Gold	Ехро
AnsaldoBreda 2550 Base - AC				50	
Breda 650 Base - DC		30			
Breda 650 Option - AC		74			
KinkiSharyo P3010				15	50
Nippon Sharyo 2020 - DC	12				3
Nippon Sharyo 865 - DC	40				14
Siemens 2000 Base - AC			29		
Siemens 2000 GE/ATP - AC	19				4
TOTALS	71	104	29	65	71

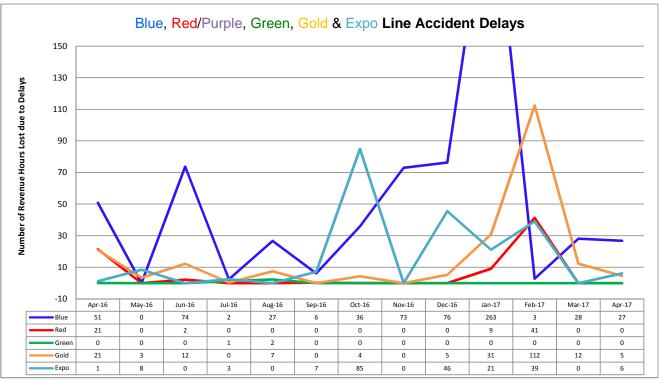
Blue			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	57	58	1019
Weekend	26	42	1639
Red/ Purple			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	64	75	1179
Weekend	40	61	1549
Green			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	22	22	1019
Weekend	14	16	1139
Gold		·	
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	48	52	1089
Weekend	28	38	1369
Expo			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	47	50	1079
Weekend			



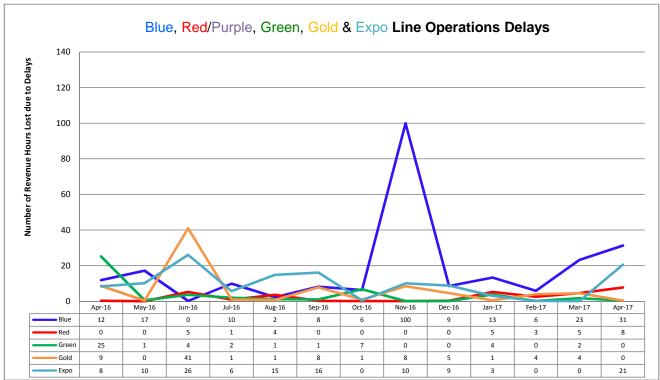


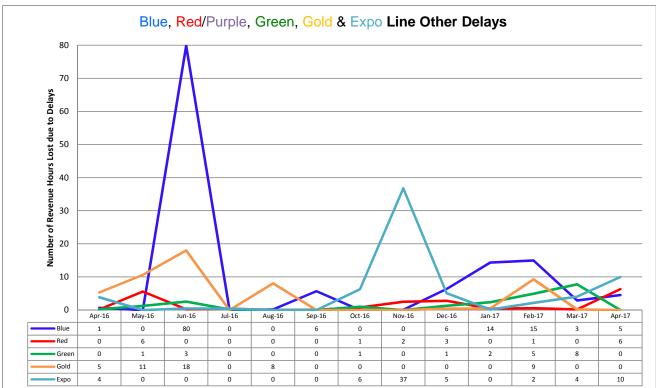
# **Cleanliness by Vehicle Type**





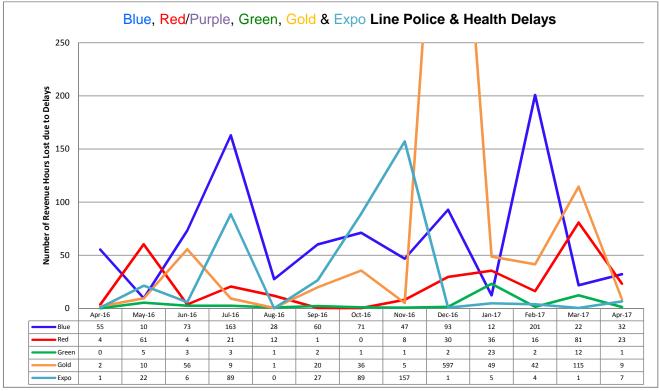
# **Revenue Hours Lost Related to - OPERATIONS**



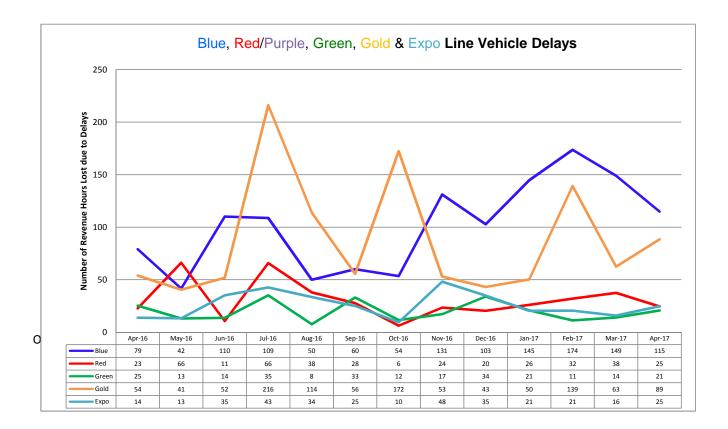


# **Revenue Hours Lost Related to - OTHER**

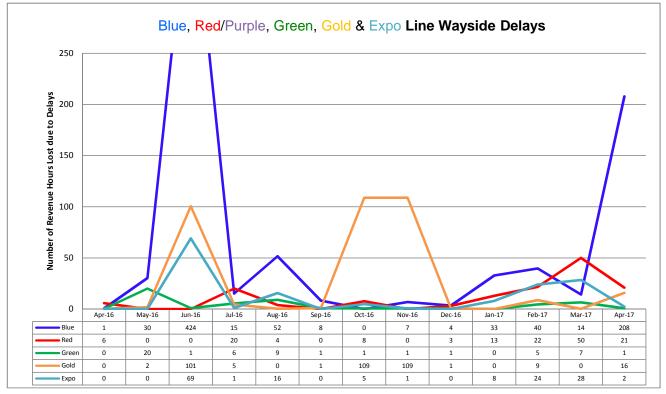
# Revenue Hours Lost Related to - POLICE & HEALTH



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

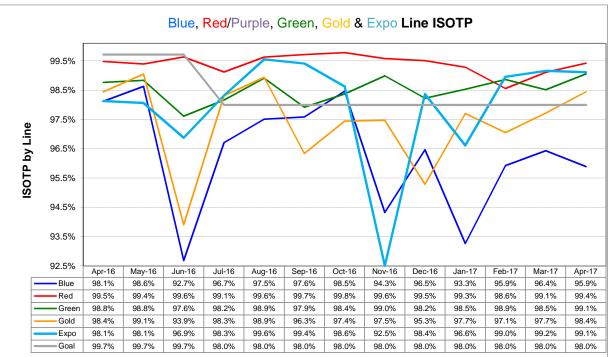


# **Revenue Hours Lost Related to - WAYSIDE**



# **Rail Service Performance**

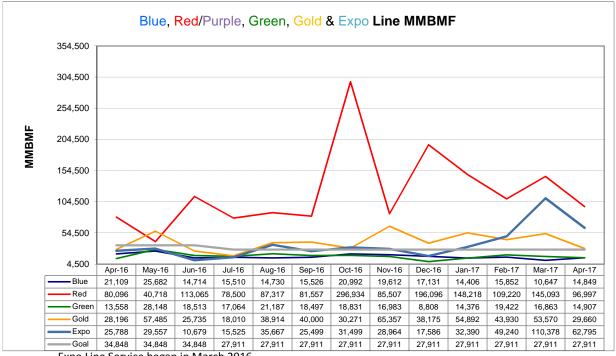




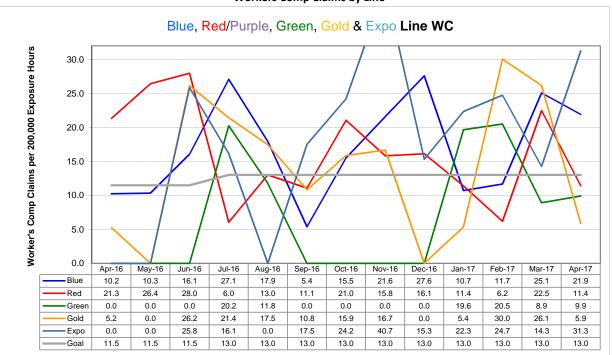
Ratio of Scheduled to Revenue Hours Delivered by Line





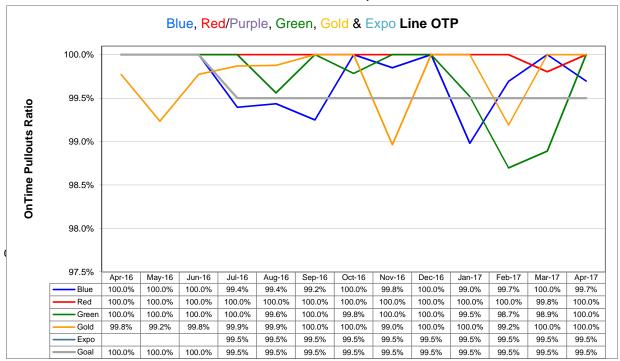


Expo Line Service began in March 2016.



Workers Comp Claims by Line

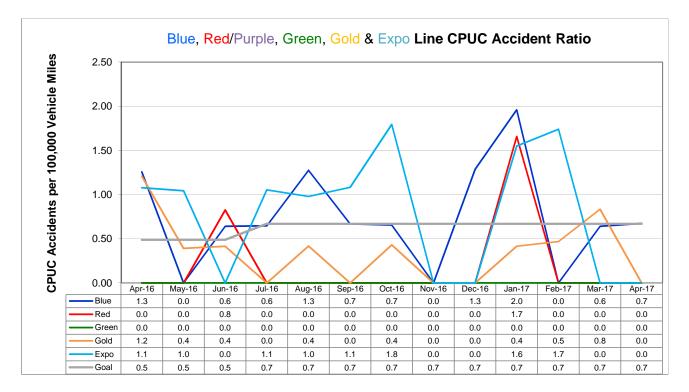
**On-Time Pullouts Ratio by Line** 



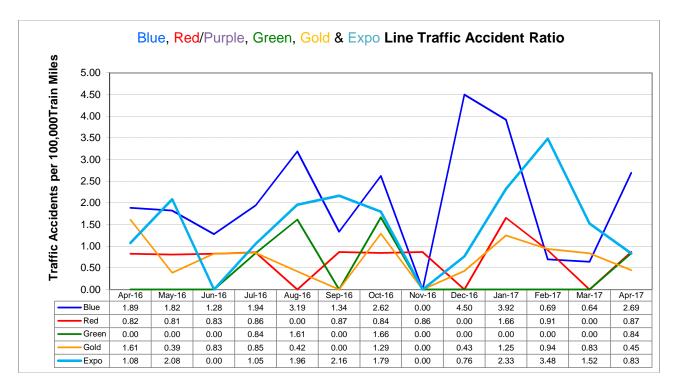
Expo Line Service began in March 2016.

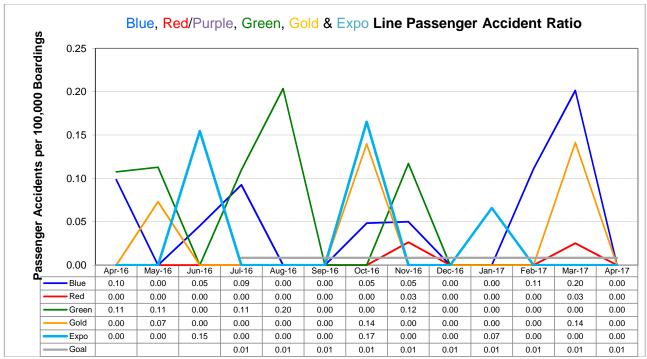
# **Rail Safety Performance**





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

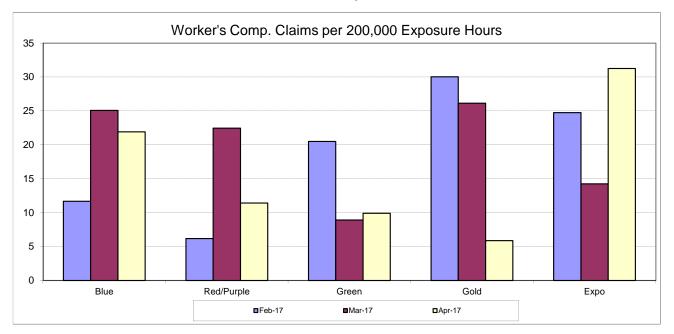




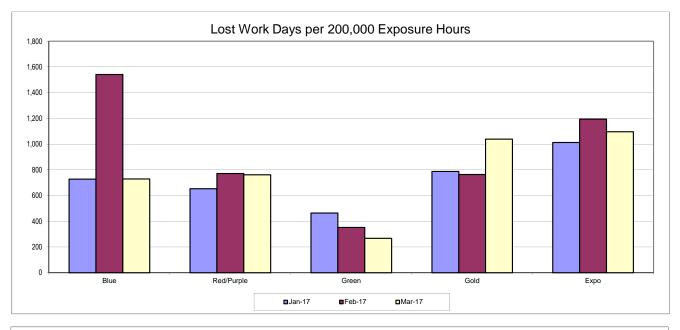
# PASSENGER ACCIDENTS PER 100,000 BOARDINGS

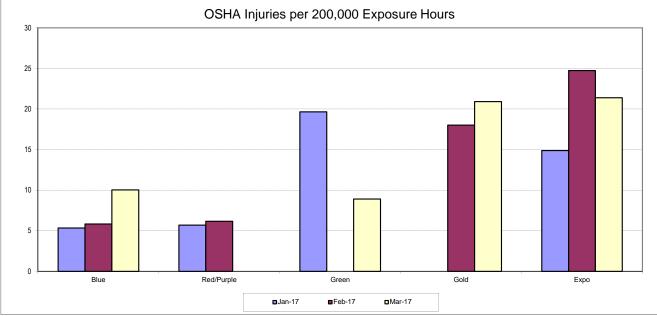
Expo Line Service began in March 2016.

# Worker's Comp. Claims Feb 2017 - Apr 2017 3 Month Comparison

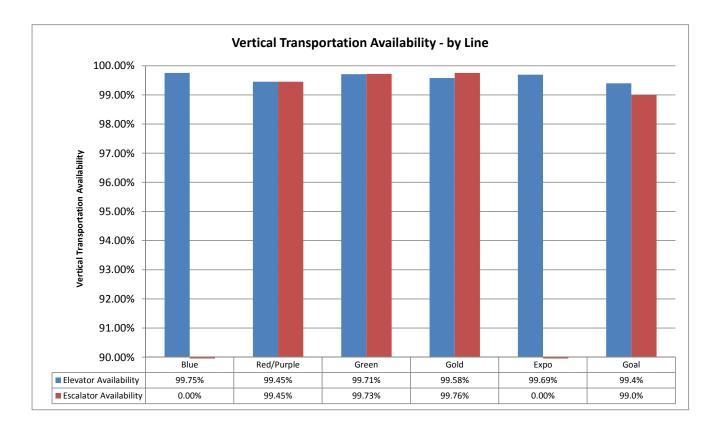


# Lost Work Days and OSHA Injuries Jan 2017 - Mar 2017 3 Month Comparison





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

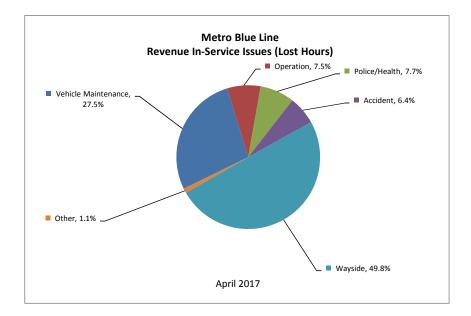
# **BLUE LINE**

Out of a total of 19,381 hours operated, there were approximately 418 total hours of service delays.

	Revenue	
April 2017 Service Hours *	Hours	Percent
Revenue Hours without Delays	18,963	97.8%
Cancelled + Delayed Hours	418	2.2%
Total Revenue Hours	19,381	100.0%

Summary of the major contributors:	Count	Hours	Percent
Operations	8	31.3	7.5%
Accidents	2	26.8	6.4%
Vehicle Maintenance	47	114.8	27.5%
Wayside	6	207.9	49.8%
Police & Health	12	32.3	7.7%
Other	5	4.5	1.1%
Total	80	417.8	100.0%

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



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

# **Operations Incidents:**

### 4/8/2017 10:00:00 AM - Incident# 2853886 (3 lost trips, 507 lost minutes)

Northbound trains are turning back from Grand and Washington Station due to emergency maintenance work. Train#107

T#238 Cars#130,124,100 Track#1,Grand Station,Northbound

## 4/10/2017 3:45:00 PM - Incident# 2854535 (2 lost trips, 335 lost minutes)

Train 119 reporting Propulsion faults Train 119 M-175 LRVS 140-158 (165) Metro Center Tail Track 2

# 4/14/2017 9:01:00 AM - Incident# 2856009 (1 lost trip, 166 lost minutes)

Southbound trip, for Train#117 was cancelled at 7th&Metro,Train#101,cars(115,104,160) belong to Expo and the line was bumped.

# 4/14/2017 1:10:00 PM - Incident# 2856101 (1 lost trip, 166 lost minutes)

Train 111 is delayed due to Expo trains being crossed over at 7th&Metro. Train#111 T#34 140,100,130 Track#2,Southbound,Imperial Station

### 4/14/2017 4:57:00 PM - Incident# 2856159 (0 lost trips, 17 lost minutes)

Canine on the ROW at Greenleaf in between Tracks 1&2. Train#124 T#34 124,151,165 Track 2,Southbound,Greenleaf

# 4/18/2017 7:00:00 PM - Incident# 2857301 (1 lost trip, 168 lost minutes)

Trip cancelled from Tranist Mall to Willow on Train 101 due to previous delays due to unscheduled single tracking.

## 4/27/2017 6:43:00 AM - Incident# 2860176 (3 lost trips, 503 lost minutes)

7th Metro Ctr. departures on Expo trains were cancelled

# 4/29/2017 8:00:00 AM - Incident# 2861082 (0 lost trips, 17 lost minutes)

Traction Power doing OCS repairs on Track 2 between Washington and Florence Interlockings. Single Tracking on track 1 per Pink Letter M-384

## Accidents:

**4/2/2017 8:55:00 PM - Incident# 2851710 (1 lost trip, 116 lost minutes)** 10-73 Train 104 T-413 Consist 136b-157 Long Beach Blvd & 19th Street, northbound

# 4/21/2017 3:46:00 PM - Incident# 2858462 (9 lost trips, 1,494 lost minutes)

Train-119 T-348 Cars (239A)-235-244 Southbound Track #2 119th Grade Crossing Train vs. Auto at Intersection at 119th Grade Crossing Track #2 Southbound.

## Vehicle Maintenance Incidents:

**4/1/2017 10:48:00 AM - Incident# 2851423 (0 lost trips, 20 lost minutes)** Prop/ Fault, speed restriction. Train #107. T-233. LRV- (165B), 149.

Willow Station, Track #1, Northbound.

## 4/1/2017 12:39:00 PM - Incident# 2851438 (1 lost trip, 116 lost minutes)

Self applying Track Brake. Train #110. T-473. LRV- (239B), 248. Track #2, northbound, reverse running, Stockwell.

## 4/2/2017 5:00:00 PM - Incident# 2851672 (1 lost trip, 116 lost minutes)

Train operator reports slow propulsion and an isolate/connect problem. Train 108 T-72 Consist 137a-154

## 4/4/2017 6:53:00 AM - Incident# 2852241 (2 lost trips, 335 lost minutes)

Friction Brakes (Smoking brakes) (137A)-121-140 Train 109 T-115 Compton, Southbound, Track 2

# 4/5/2017 4:16:00 AM - Incident# 2852631 (0 lost trips, 23 lost minutes)

No Fault No Movement Train 103 T-115 (250)-241-302 Trk 2 S/B mpm 17.00 23 minute delay

#### 4/5/2017 6:23:00 AM - Incident# 2852649 (0 lost trips, 10 lost minutes)

Doors Train 102 T-355 245-(231)-242 Del Amo S/B trk 2 10 minute delay

#### 4/5/2017 3:25:00 PM - Incident# 2852914 (1 lost trip, 173 lost minutes)

Train 122 report the he was getting Emergency braking due to a door flickering indication on LRV 164 doors 3/4 Train 122 T-307 LRV'S ( 164A ) 136-155

Del AmoStation, Track 1, Northbound.

# 4/6/2017 4:35:00 AM - Incident# 2853090 (0 lost trips, 10 lost minutes)

Doors/Propulsion Fault Train 104 T-174 245-(231)-242 Trk 1 N/B 103 rd Station 10 minute service delay

#### 4/6/2017 4:35:00 PM - Incident# 2853360 (2 lost trips, 333 lost minutes)

Train-126 T-505 Cars (162A)-120-123 Southbound, Track #2 7th/Metro Station. Other Vehicle System (Blown Motor Fuse)

## 4/8/2017 1:13:00 AM - Incident# 2853815 (0 lost trips, 20 lost minutes)

Train operator T-183 reports of no movement spin slide. Train 105 T-183 Cars (250-241-302) Willowbrook Station, Track 1, Northbound

# **4/8/2017 5:09:00 AM - Incident# 2853843 (1 lost trip, 161 lost minutes)** Train 101, LRVs (301A), 229, and 245.

## **4/9/2017 11:23:00 AM - Incident# 2854102 (0 lost trips, 12 lost minutes)** Pantograph chipped on LRV 130A T-390 Train 107 LRV (130A) 123 111 Pacific Station, Track 1, northbound.

# 4/9/2017 1:38:00 PM - Incident# 2854125 (0 lost trips, 12 lost minutes)

Train 110 LRV (301A) 229 233 Compton Station, Track 2, southbound.

#### 4/10/2017 9:42:00 AM - Incident# 2854477 (0 lost trips, 12 lost minutes)

Propulsion / Dynamic Brakes (240A)-210-241 Train 108 T-115 Dominguez Flyover, Southbound, Track 2

#### 4/10/2017 11:09:00 AM - Incident# 2854433 (1 lost trip, 168 lost minutes)

Doors ( Will Not Open) (239)-248-301 Train 109 T-211 Slauson, Southbound, Track 2

## 4/11/2017 4:11:00 AM - Incident# 2854937 (0 lost trips, 4 lost minutes)

Train 102 reports Propulsion Faults on LRV 156A & B Train 102 T-293 LRVS ( 156A ) 143-110 San Pedro, Track 2, Southbound.

# 4/11/2017 3:15:00 PM - Incident# 2854924 (1 lost trip, 171 lost minutes)

Doors on train 119 due to a bad door switch on LRV 239A . Train 119 T-348 LRVS (239A)237 Metro Center, track 2, southbound

# 4/12/2017 8:21:00 AM - Incident# 2855151 (0 lost trips, 4 lost minutes)

Train 116 reports Propulsion Faults with a speed restriction 35mph. Emergency lighting. Train 116 T-043 LRVS ( 240A ) 250-233 103rd Street Station, track 1, northbound.

# 4/12/2017 12:47:00 PM - Incident# 2855305 (13 lost trips, 2,179 lost minutes)

Train 111 reports friction brake problems with no movement. Train 111 T-415 LRV'S 155-( 137 ) 116 7th & Metro Portal, track 1, northbound.

#### 4/12/2017 10:11:00 PM - Incident# 2855486 (0 lost trips, 20 lost minutes)

Operator reports of no movement. Train 109 T-86 Cars(157B)-141 Slauson Station, Track 2, southbound

# 4/13/2017 6:03:00 AM - Incident# 2855576 (1 lost trip, 168 lost minutes)

Propulsion Fault Train 101 T-187 (132-198-106) N/B PCH Trk 1 6 minute delay

#### 4/13/2017 12:14:00 PM - Incident# 2855737 (1 lost trip, 183 lost minutes)

Friction Brakes (135)-119-155 Train 106 T-102 Pico, Southbound, Track 2

# 4/13/2017 1:29:00 PM - Incident# 2855825 (0 lost trips, 5 lost minutes)

Train 104 reports Propulsion Faults on LRV 301, Speed restriction 35mph. Train 104 T-043 LRVS 301-242-235 Florence Station, Track 1 Northbound.

# 4/13/2017 2:13:00 PM - Incident# 2855788 (1 lost trip, 184 lost minutes)

Train 105 reporting emergency Braking at Pico Station Operating LRV 239B Train 105 T-293

LRVS ( 239 ) 237-232 Pico Station, Track 2, Southbound.

# 4/13/2017 5:06:00 PM - Incident# 2855839 (1 lost trip, 168 lost minutes)

Train 120 reports an air leak on her consist. Train 120 T-053 LRVS 113A-165-151 Artesia Station, track 1, northbound.

4/14/2017 1:50:00 PM - Incident# 2856113 (1 lost trip, 166 lost minutes) Propulsion Track Brake Fault.

Train#103 T#357 (239B),237,301 Track 1,Northbound,Anaheim

#### 4/14/2017 2:00:00 PM - Incident# 2856127 (1 lost trip, 166 lost minutes)

Door problem. Train#102 T#46 (235A),241,248 Track#2,Compton Station,Southbound

# 4/15/2017 5:00:00 AM - Incident# 2856246 (0 lost trips, 5 lost minutes)

Operator reports of doors not opening on car 248.

T-335 Train#101 Cars241-(248)-233 Southbound Trk #2

# 4/15/2017 9:50:00 AM - Incident# 2856291 (0 lost trips, 16 lost minutes)

Friction brake fault at Pacific Station.Conducted a 90 second shutdown and 10-37 @ 1000 hrs. Train#102 T#355 (135B),128,167 Northbound,Pacific Station

# 4/17/2017 7:16:00 AM - Incident# 2856640 (1 lost trip, 174 lost minutes)

Train has reoccurring propulsion with a speed restriction. Train 117, T-231 232-(302)-(301) Track 1, Pico, North

# 4/17/2017 11:43:00 AM - Incident# 2856766 (1 lost trip, 183 lost minutes)

Auto Train Protection (Speed Limit) (Blown Motor Fuse) 116-(109)-127 Train 111 T-82 Ananheim, Northbound, Track 1

# 4/17/2017 3:01:00 PM - Incident# 2856874 (1 lost trip, 168 lost minutes)

Friction Brakes (239)-237-229 Train 122 T-495 Yard Interlocking, Northbound, Track 1

#### 4/17/2017 4:37:00 PM - Incident# 2856906 (0 lost trips, 9 lost minutes)

No fault/No movement Train 110 Track #1 NB Anaheim Street T-495 (229)-237

# 4/19/2017 6:44:00 AM - Incident# 2857425 (0 lost trips, 12 lost minutes)

Heating / Air Conditioning (Noise coming from articulated section relating to HVAC) (106A)-107-120 Train 109

T-115 Firestone, Southbound, Track 2

## 4/19/2017 1:01:00 PM - Incident# 2857607 (1 lost trip, 183 lost minutes)

LVPS fault (Battery Charger) (232A)-231-301 Train 111 T-34 Washington and Central, Southbound, Track 2

# 4/20/2017 5:26:00 AM - Incident# 2857799 (0 lost trips, 6 lost minutes)

Reports of misaligned operator cab door Train # T-110 (155B)-139-136 Transit Mall, Track 1, NB

## 4/20/2017 11:30:00 AM - Incident# 2858001 (0 lost trips, 9 lost minutes)

Auto Train Protection (Speed Limit) (No Speed Code) (1054)-1039-1062 Train 605 T-349 Metro Center, Southbound, Track 2

## 4/20/2017 12:27:00 PM - Incident# 2858011 (0 lost trips, 6 lost minutes)

Doors (Slow to open) (302A Doors 1/2 & 3/4-)-232 Train 105 T-164 Slauson, Track 2, Southbound

# 4/20/2017 5:50:00 PM - Incident# 2858122 (1 lost trip, 181 lost minutes)

Train operator T-72 reports no movement. Train 109 T-72 Cars (135B)-122-141 Imperial Pocket, Track 2, southbound

# 4/24/2017 2:51:00 PM - Incident# 2859232 (0 lost trips, 6 lost minutes)

Train 103 is reporting propulsion faults with a speed restriction on LRV 153B

Train 103 T-110 LRVS (153B) 148-126 Grand Station, track 2, southbound.

## 4/24/2017 6:53:00 PM - Incident# 2859304 (1 lost trip, 168 lost minutes)

Propulsion fault with a speed restriction. Reports recurring propulsion dynamic brake fault. Train # 126 T-307 (232B)-237-231 SB, Firestone Station, Track #2

# 4/25/2017 4:10:00 PM - Incident# 2859626 (1 lost trip, 172 lost minutes)

Car 145 has a E-2 code (Prop Fault with a speed restriction) T-363 Train-104 Consist 124-117(145) 7th & Metro, Track #1, Southbound

# 4/26/2017 4:23:00 PM - Incident# 2860026 (1 lost trip, 174 lost minutes)

Train 120 reports no movement with Propulsion faults. Train 120 T-321 LRVS 117-137-129 Wardlow Station, track 2, southbound.

## 4/27/2017 2:54:00 PM - Incident# 2860394 (1 lost trip, 168 lost minutes)

Train-119 T-487 Cars (232A)-302-230 Northbound, Track #1 Washington Station Car Body (Interior/Exterior) reports of the rightside skirt on car 232A damaged.

#### 4/28/2017 4:29:00 PM - Incident# 2860892 (1 lost trip, 166 lost minutes)

Train-103 T-258 Cars (165)-100-138 Northbound, Track #1 Compton Station Propulsion / Dynamic Brakes at Compton Station Re occurring.

#### 4/30/2017 1:55:00 AM - Incident# 2861235 (0 lost trips, 20 lost minutes)

Train operator reports propultion fault with no movement. Train 107, T-81 115-(120B) Track 2, Slauson, South.

#### 4/30/2017 11:38:00 AM - Incident# 2861318 (1 lost trip, 128 lost minutes)

No movement at 9th and Pacific. Train#107 T#293 (232A),234 Northbound,9th and Pacific

## Wayside Incidents:

4/3/2017 4:14:00 PM - Incident# 2852064 (0 lost trips, 10 lost minutes)

Breakers BO2 and BO3 at PIco TPSS open by it self. Power was lost between Pico Station an Metro Center tracks 1 and 2.

## 4/5/2017 3:03:00 PM - Incident# 2852893 (0 lost trips, 15 lost minutes) Control was not able to Stop Signal 2S Mainyard Interlocking.

4/9/2017 10:49:00 AM - Incident# 2854098 (0 lost trips, 15 lost minutes)

Washington and Vernon TPSS breakers opened. Vernon North ETS activated unable to reset.

# 4/26/2017 5:20:00 AM - Incident# 2859767 (74 lost trips, 12,420 lost minutes)

PD&G FOR DAMAGED TRAIN AND OCS INSPECTION.

# 4/26/2017 3:50:00 PM - Incident# 2860032 (0 lost trips, 10 lost minutes)

False Occupancy on track circuits 131 and 132, tracks 1 and 2 from Compton PED to Greenleaf Crossing.

# 4/30/2017 8:40:00 AM - Incident# 2861297 (0 lost trips, 6 lost minutes)

OCS inspection from 1N Artesia to 1S Mainyard Interlocking.

# Police & Health Incidents:

4/8/2017 5:10:00 PM - Incident# 2853981 (0 lost trips, 5 lost minutes) Train 108 report a lady passed out and vomiting on board LRV 158A. Train 108 T-081 LRV;S (158A ) 140-127

# 4/10/2017 8:23:00 PM - Incident# 2854612 (0 lost trips, 10 lost minutes)

Car 111 assualt, Male Patron bleeding. Assaulted by 2 other males. T-75 Train 101 Cars 107-(111)-123 Willowbrook Station, Track 2, southbound.

Willowbrook Station, track 1, Northbound.

# 4/12/2017 4:46:00 AM - Incident# 2855068 (0 lost trips, 20 lost minutes)

Blockade/Pedestrian Injured/Metro Not involved Train 105 T-87 141-167-127 Willowbrook GC N/B Between tracks 1 & 2

# 4/16/2017 5:23:00 AM - Incident# 2856437 (4 lost trips, 490 lost minutes)

CCTV R-458 Reports a White Male with a knife at Washington Station.

# 4/16/2017 11:05:00 AM - Incident# 2856463 (0 lost trips, 12 lost minutes)

LASD reports that there is a person with a Knife arguing with another patron onboard train 102, LRV 230.

4/16/2017 9:41:00 PM - Incident# 2856535 (0 lost trips, 10 lost minutes) Sick Passenger

#### 4/22/2017 8:48:00 AM - Incident# 2858608 (0 lost trips, 13 lost minutes)

African American female unconscious.

Train#107 T#256 145,162,(151A) Track#1,Northbound,Imperial Station

## 4/23/2017 1:29:00 AM - Incident# 2858768 (0 lost trips, 8 lost minutes)

Operator reports of a male patron unresponsive in the trailing car at 7th/Metro Station.

#### 4/24/2017 6:23:00 PM - Incident# 2859293 (1 lost trip, 168 lost minutes)

Altercations aboard trains/ Blood Train # 101 T-183 244-301-242 SB, Imperial Station, Track #2

# 4/26/2017 6:33:00 PM - Incident# 2860090 (7 lost trips, 1,184 lost minutes)

Deputy Roggee reports of a motor home blocking the ROW at Florence grade crossing.

#### 4/30/2017 5:15:00 PM - Incident# 2861390 (0 lost trips, 10 lost minutes)

Patron spraying excessive amounts of Lysol on the train and patrons are complaining.

Train#112 T#390 (116A),143 Track#2,Imperial Station,Northbound

# 4/30/2017 8:58:00 PM - Incident# 2861416 (0 lost trips, 10 lost minutes)

Trespasser on right of way Train 102 Track #2 SB Slauson T-500

# **Other Incidents:**

**4/1/2017 10:54:00 PM - Incident# 2851533 (2 lost trips, 247 lost minutes)** Train 109 T-81 Cars (230)-247 Vernon station N/B

#### 4/3/2017 7:35:00 AM - Incident# 2851810 (0 lost trips, 6 lost minutes)

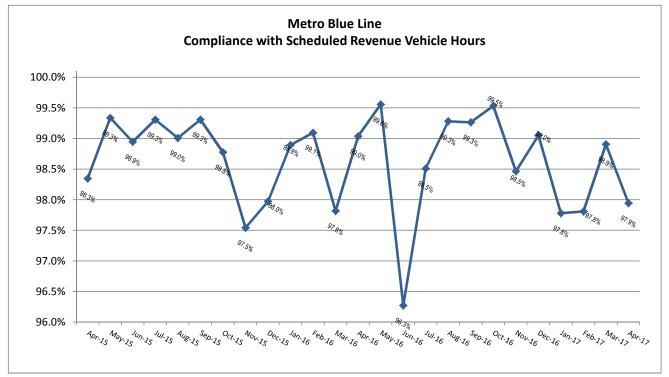
Door Problem. Emergency Release Pulled. Train #116. T-043. LRV- (112B), 130, 140. Vernon Station, Track #2, Southbound.

# 4/5/2017 5:51:00 AM - Incident# 2852656 (0 lost trips, 7 lost minutes)

Outlate Train 114 T-43 Blue line yard (123-151) 7 minute late on pull out. 4/23/2017 2:55:00 PM - Incident# 2858867 (0 lost trips, 4 lost minutes) Male in refuge area.

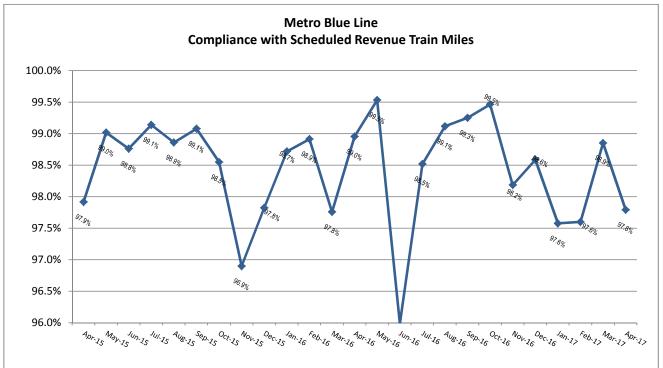
4/30/2017 4:15:00 AM - Incident# 2861242 (0 lost trips, 6 lost minutes) Late Pull out Train 102.

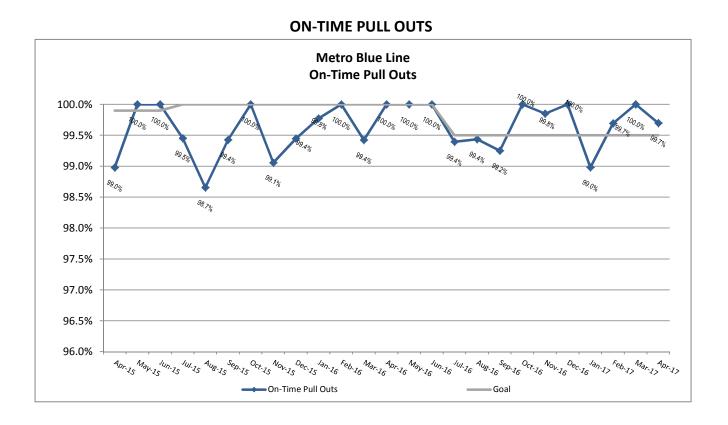
# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS



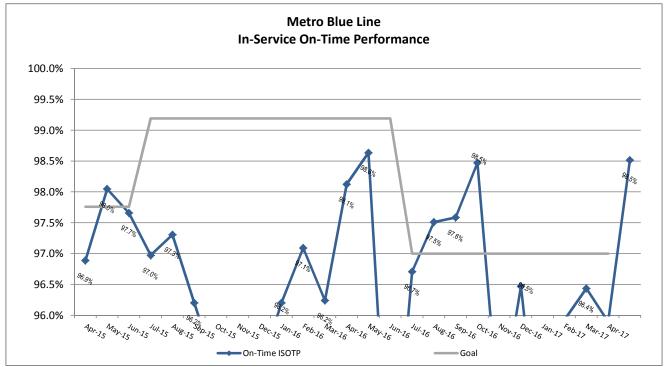
# COMPLIANCE WITH SCHEDULED VEHICLE HOURS

# **COMPLIANCE WITH SCHEDULED TRAIN MILES**

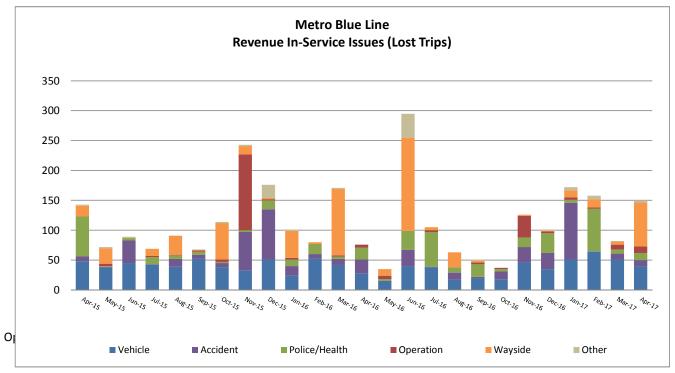




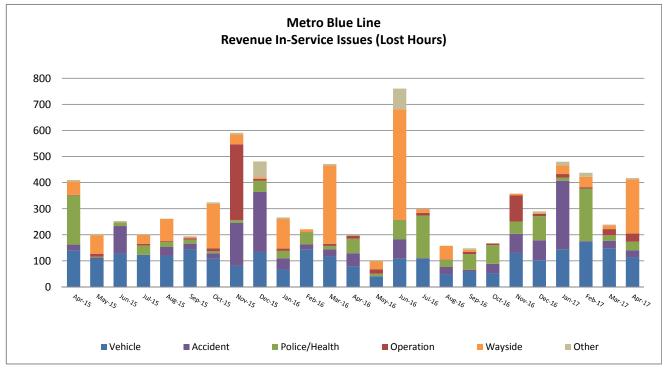
# IN-SERVICE ON-TIME PERFORMANCE CHART

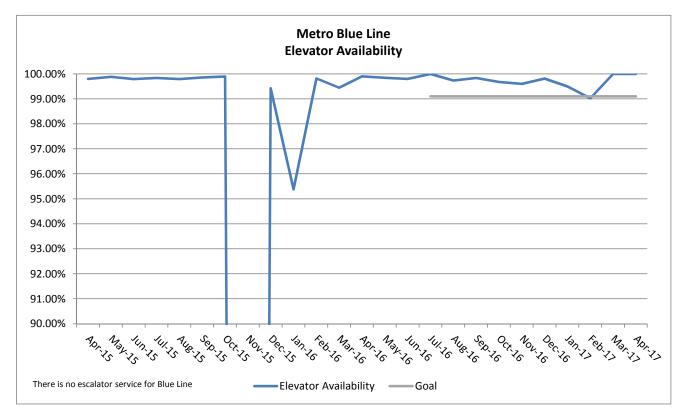


# LOST TRIPS



# LOST HOURS





# VERTICAL TRANSPORTATION AVAILABILITY

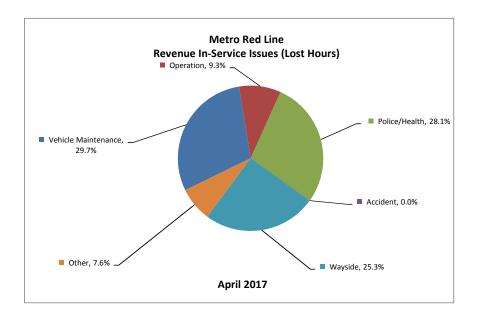
# **RED LINE**

Out of a total of 26,801 hours operated, there were approximately 83 total hours of service delays.

	Revenue	
April 2017 Service Hours *	Hours	Percent
Revenue Hours without Delays	26,718	99.7%
Cancelled + Delayed Hours	83	0.3%
Total Revenue Hours	26,801	100.0%

Summary of the major contributors:	Count	Hours	Percent
Operations	1	7.7	9.3%
Accidents	0	0.0	0.0%
Vehicle Maintenance	12	24.6	29.7%
Wayside	2	21.0	25.3%
Police & Health	8	23.4	28.1%
Other	7	6.3	7.6%
Total	30	83.0	100.0%

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



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

#### **Operations Incidents:**

#### 4/1/2017 1:20:00 AM - Incident# 2851350 (4 lost trips, 464 lost minutes)

Train 214 was holding at 7th/Metro AL due to LASD activity. Once LASD cleared the train for eastbound movement the operator reported no movement.

#### Vehicle Maintenance Incidents:

4/3/2017 10:18:00 AM - Incident# 2851927 (0 lost trips, 8 lost minutes)

T-364 reports that as she was proceeding through the interlocking on train 201 (575,576,541,542) on the AL, she heard a loud noise in one of the trucks and as she arrived at the platform, a propulsion fault showed in car 575.

#### 4/6/2017 10:47:00 AM - Incident# 2853197 (0 lost trips, 5 lost minutes)

Train 208 (569,570,553,554) T-333, North Hollywood Station, AR reports he is unable to close the train doors.

#### 4/8/2017 8:37:00 AM - Incident# 2853873 (2 lost trips, 307 lost minutes)

Train 202 reports no movement due to loss of power on the consist at Vermont Santa Monica AR west. Train 202 T-175

Cars 585 586 535 538 587 588.

#### 4/10/2017 6:20:00 PM - Incident# 2854588 (1 lost trip, 148 lost minutes)

No Movement: Friction Brakes Not Releasing Train 217, T-217 Cars: (572), 571, 586, 585, 582, 581

#### 4/12/2017 12:37:00 PM - Incident# 2855273 (0 lost trips, 10 lost minutes)

Train 203 (515,516,521,530) T-101, departing Civic Ctr. Station, AL reports flashing cab signals. Problem had occured earlier in the morning departing 7th & Metro, AL only.

#### 4/13/2017 2:40:00 PM - Incident# 2855786 (0 lost trips, 10 lost minutes)

Train 213 (531,532,561,562,559,560) reports dynamic, service brake, propulsion failure fault train line indication with emergency brake application, operating out of car 560.

#### 4/15/2017 1:57:00 PM - Incident# 2856338 (1 lost trip, 186 lost minutes)

Emergency brake not releasing in car 559. Service brake and electric brake failure indication.

T-49 Train 205 Cars (559),560,537,538,545,546 Universal City Interlocking AR WB

#### 4/17/2017 1:54:00 PM - Incident# 2856830 (1 lost trip, 148 lost minutes)

Train 203 (517,518,513,514) T-179 reports propulsion and service brake fault, train line indication in car 517.

#### 4/19/2017 9:52:00 PM - Incident# 2857745 (1 lost trip, 148 lost minutes)

CB-1 trip with no movement. Train # 217 T-049 Cars # 519-526-509-508-527-(522). E/Bound Universal City Station A/L Track.

## 4/21/2017 8:35:00 AM - Incident# 2858290 (1 lost trip, 159 lost minutes)

Operator reports door problem, no movement. Cars: 535 536 561 (562) 593 594. Vermont Santa Monica, AL track, E/bound Train 210. T-009.

#### 4/30/2017 10:30:00 AM - Incident# 2861311 (1 lost trip, 174 lost minutes)

Numerous Emergency brake applications Train 201 T-254 Cars 535-536-563-564-583-(584) BR between Wilshire Western and Normandie

#### 4/30/2017 4:04:00 PM - Incident# 2861376 (1 lost trip, 174 lost minutes)

Train 205: Air Leak Cars 603, 604, 589, 590, (539), 540 T-049 Wishire Western BL

#### Wayside Incidents:

4/11/2017 11:36:00 PM - Incident# 2855032 (6 lost trips, 910 lost minutes) TRACS indicates ETS trip AL west ETS 054 at 23:36 hrs also ETS 053 AR East at 23:39 hrs.

### 4/30/2017 2:19:00 PM - Incident# 2861348 (2 lost trips, 348 lost minutes)

Union Station West Interlocking AL Track False Occupancy

### Police & Health Incidents:

4/5/2017 1:53:00 PM - Incident# 2852846 (1 lost trip, 154 lost minutes) Train 203 (517,518,509,508) T-384, approaching Wilshire Vermont Station, AL reports PIC activation.

#### 4/13/2017 6:05:00 AM - Incident# 2855588 (6 lost trips, 890 lost minutes)

Train 211 reports trespasser. Universal City Interlocking. T-367. Cars: 547 548 597 598 571 572.

#### 4/17/2017 4:43:00 AM - Incident# 2856569 (2 lost trips, 297 lost minutes)

Female patron assualted on train 210, car 542 at North Hollywood.

#### 4/19/2017 11:04:00 AM - Incident# 2857527 (0 lost trips, 5 lost minutes)

Train 201 (583,584,581,582) T-271 in approach to Hollywood Highland Station reports he received a PIC report of a possible medical cituation on board the train.

4/22/2017 11:50:00 AM - Incident# 2858646 (0 lost trips, 9 lost minutes)

Train 207 car 599 T-516 reports a Male Hispanic expressing verbal threats to other passengers. Individual was yelling he was going to kill someone with a knife.

#### 4/22/2017 1:40:00 PM - Incident# 2858626 (0 lost trips, 18 lost minutes)

Westlake AL East a trespasser is on the AL Emergency Walkway.

### 4/26/2017 12:14:00 PM - Incident# 2859932 (0 lost trips, 13 lost minutes)

LASD Dixon request we hold westbound train 201 at Hollywood/Western.

Possible man with a gun.

#### 4/27/2017 9:22:00 AM - Incident# 2860239 (0 lost trips, 15 lost minutes)

Trespasser on the AR at Wilshire Vermont

#### Other Incidents:

4/3/2017 2:35:00 PM - Incident# 2852015 (0 lost trips, 6 lost minutes) Train #205.Cars #591-592-573-574, female patron refused to exit at Union Station A/L.

#### 4/9/2017 11:34:00 AM - Incident# 2854100 (1 lost trip, 174 lost minutes)

Train 204 car 604 Service Attendant M-763 reports urine all over the train, he is unable to clean biohazard liquid on the Mainline. Biohazards Tiger Team are only in the Yard.

#### 4/9/2017 6:41:00 PM - Incident# 2854179 (1 lost trip, 174 lost minutes)

Dirty Car # 505 Union Station AL East T-179 Train # 204 Car # (505)-506-519-526

#### 4/13/2017 7:59:00 AM - Incident# 2855629 (0 lost trips, 10 lost minutes)

Train 215 (525,524,513,514,515,516) T-124, North Hollywood Station, AR reports LASD is holding the train.

#### 4/18/2017 9:17:00 AM - Incident# 2857087 (0 lost trips, 5 lost minutes)

S-021 reports male, black individual, wearing black pants, gray hoodiie, exposing himself on board car 504

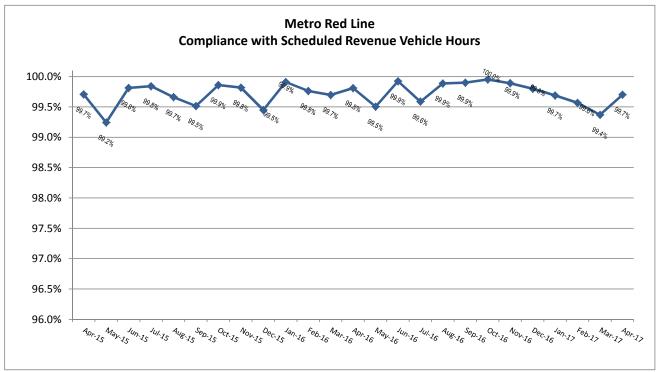
### 4/20/2017 1:35:00 PM - Incident# 2858028 (0 lost trips, 5 lost minutes)

Male patron requesting medical due to chest pains on board Train 209, car 595 at Union Station.

# 4/21/2017 7:11:00 AM - Incident# 2858313 (0 lost trips, 5 lost minutes)

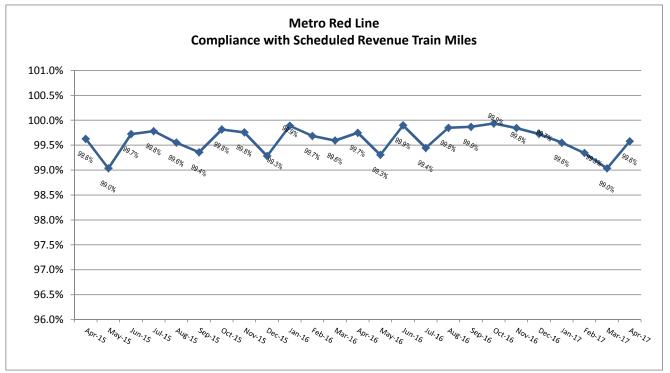
Train Operator observed sparks underneath third rail caused by debris. Hollywood Western Station, AR, W/bound. Train 207, cars: 543 544 589 590 571 572 T-080.

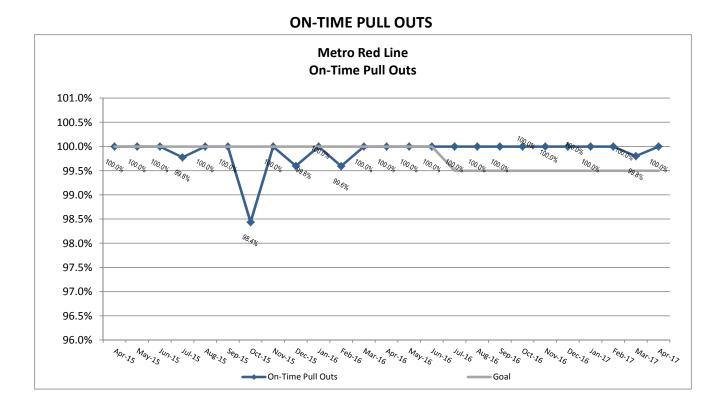
# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS



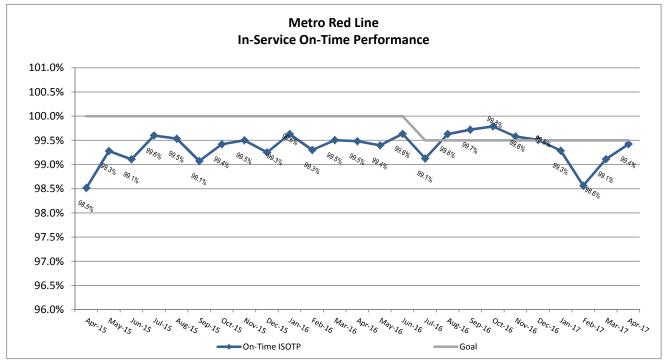
# COMPLIANCE WITH SCHEDULED VEHICLE HOURS

# COMPLIANCE WITH SCHEDULED TRAIN MILES

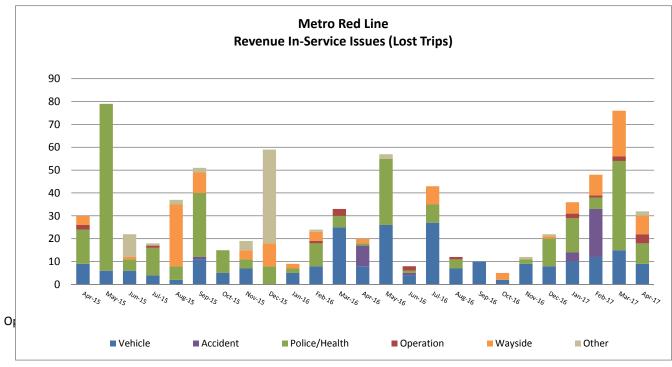




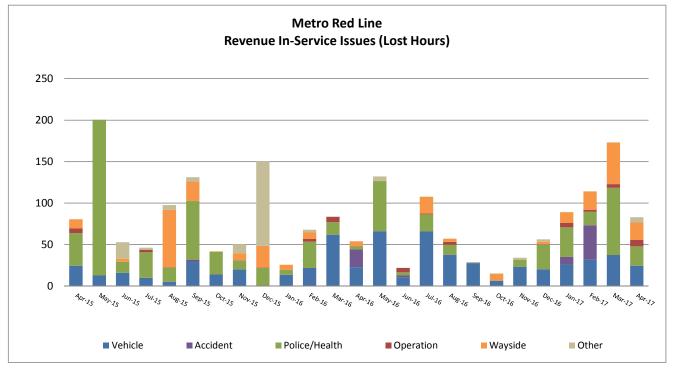
# **IN-SERVICE ON-TIME PERFORMANCE**

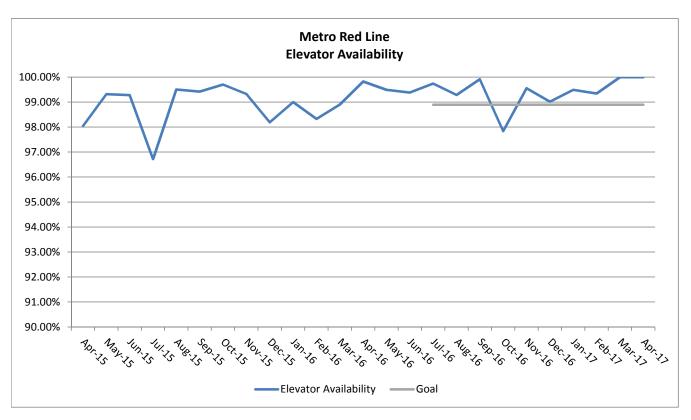




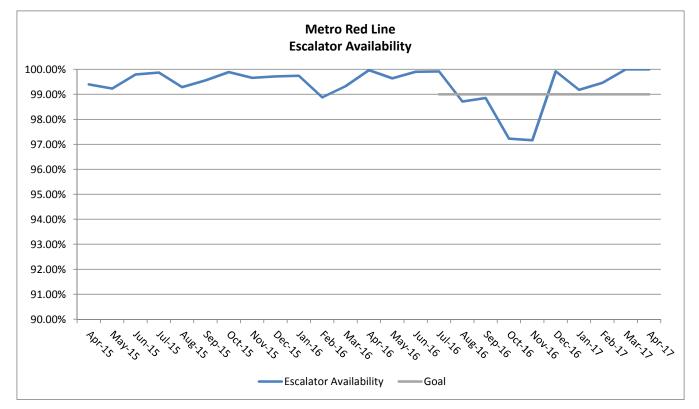


# LOST TRIPS





# VERTICAL TRANSPORTATION AVAILABILITY



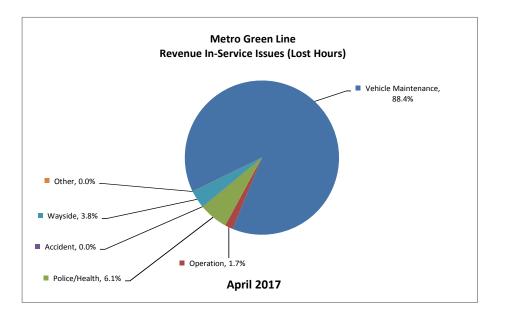
# **GREEN LINE**

Out of a total of 8,027 hours operated, there were approximately 24 total hours of service delays.

	Revenue	
April 2017 Service Hours *	Hours	Percent
Revenue Hours without Delays	8,003	99.7%
Cancelled + Delayed Hours	24	0.3%
Total Revenue Hours	8,027	100.0%

Summary of the major contributors:	Count	Hours	Percent
Operations	4	0.4	1.7%
Accidents	0	0.0	0.0%
Vehicle Maintenance	25	20.9	88.4%
Wayside	4	0.9	3.8%
Police & Health	8	1.4	6.1%
Other	0	0.0	0.0%
Total	41	23.6	100.0%

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



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

#### **Operations Incidents:**

# 4/12/2017 3:50:00 PM - Incident# 2855373 (0 lost trips, 7 lost minutes)

T-235 requested starlight sick due to pain not associated with work. Per Yard Control R-074 Marine Station Track #2. Eastbound

Train 344 (225)-207 T-235

### 4/19/2017 9:03:00 AM - Incident# 2857470 (0 lost trips, 5 lost minutes)

10-100, cars (219)-204 Train #336 T-148 Norwalk Station, Track #002, Eastbound.

#### 4/22/2017 3:18:00 PM - Incident# 2858690 (0 lost trips, 5 lost minutes)

Train #331 Cars #216-218, service delay of five minutes due to operator 10-100.

#### 4/25/2017 2:59:00 PM - Incident# 2859600 (0 lost trips, 7 lost minutes)

Operator reports the mirror is extremely loose on Car 210B. Cars (210), 209 Train 333 T-64 Wilmington TRK1, westbound

#### Vehicle Maintenance Incidents:

4/1/2017 1:19:00 PM - Incident# 2851445 (1 lost trip, 60 lost minutes) Report of propulsion failure with no movement. T-078 Train-331 217-(222) Hawthorne track 2 east bound

#### 4/2/2017 7:52:00 AM - Incident# 2851585 (0 lost trips, 15 lost minutes)

Train 332 overshot the the platform in ATO at Hawthorne station on track 1 Westbound. Operator T-260 with operating car 208B coupled to 219.

#### 4/2/2017 8:54:00 AM - Incident# 2851595 (1 lost trip, 62 lost minutes)

Train 332 unclearable propulsion faults at Wilmington station track 2. Operator T-112 with 210B coupled to 205.

#### 4/3/2017 4:34:00 AM - Incident# 2851757 (1 lost trip, 66 lost minutes)

Train 337 having propulsion faults and Door problems at Douglas station . Operator T-210 with cars 223 206.

#### 4/4/2017 10:21:00 PM - Incident# 2852590 (0 lost trips, 9 lost minutes)

ATP Fail light with no movement and unable to uncouple. Train 345 T-55 Track 2, E/B Marine Station (211B)-205 ATO and manual modes

#### 4/5/2017 5:54:00 AM - Incident# 2852648 (2 lost trips, 136 lost minutes)

ATP fail light with no movement. Report of flat wheels on both cars. (224-217) Train 337 T-20 Track 1, W/B Douglas Station ATO and MTO modes. (224B)-217

#### 4/5/2017 10:40:00 AM - Incident# 2852756 (0 lost trips, 8 lost minutes)

Doors, cars #(203A)-218 Train #334 T-136 Long Beach Station, Track #002, Eastbound.

#### 4/5/2017 6:08:00 PM - Incident# 2852966 (0 lost trips, 7 lost minutes)

Intermittent Friction brake Fault on car 227 Train 342 (227)-243 T-274 Hawthorne Station Track #1. Westbound

#### 4/6/2017 5:06:00 PM - Incident# 2853372 (1 lost trip, 75 lost minutes)

Propulsion / Dynamic Brakes, (219A)-207 Train #346 T-044 Long Beach Station, Track #002, Eastbound.

#### 4/8/2017 5:07:00 AM - Incident# 2853823 (1 lost trip, 60 lost minutes)

Train 332 reports no cab signal just west of Norwalk west IL on track 1. Operator T-279 unable to troubleshoot. Operating car 218A with 212.

#### 4/10/2017 6:12:00 AM - Incident# 2854294 (3 lost trips, 197 lost minutes)

Train 332 reports propulsion faults with no movement at Hawthore station plt 1. Operator T-343 with car 223 coupled to 226.

### 4/10/2017 6:34:00 AM - Incident# 2854318 (0 lost trips, 6 lost minutes)

Train 337 with T-279 reports propulsion faults at Long Beach station EB. cars 228 and 227. Vehicle tech M-176 and Operator unable to troubleshoot.

### 4/11/2017 7:20:00 AM - Incident# 2854723 (0 lost trips, 5 lost minutes)

ATP Fail indicator. No movement. Train 337 Track 2, E/B Marine Station T-261 ATO and MTO modes (211B)-209

#### 4/11/2017 2:19:00 PM - Incident# 2854886 (0 lost trips, 7 lost minutes)

Operator reports a door problem and is unable to proceed. Cars 210, 212 Train 342 T-261 marine TRK 2. eastbound

#### 4/13/2017 6:05:00 AM - Incident# 2855570 (0 lost trips, 24 lost minutes)

Auto Train Protection (Speed Limit) T-148 Train 334 LRV 202-223 YDI 6, Track 1, westbound.

#### 4/14/2017 10:11:00 PM - Incident# 2856211 (0 lost trips, 15 lost minutes)

Single car 204 lost of air pressure. T-450 car 204 Track 2 Eastbound just east of Aviation west inter locking

### 4/21/2017 4:22:00 AM - Incident# 2858204 (1 lost trip, 64 lost minutes)

No cab signal. Train departed in stop and proceed mode from marine Station to Douglas Station. Train did mot pick up cab signal.

#### 4/21/2017 8:08:00 AM - Incident# 2858280 (0 lost trips, 7 lost minutes)

Propulsion / Dynamic Brakes (213A)-205 Train 336 T-370 Aviation, Westbound, Track 1

#### 4/21/2017 12:54:00 PM - Incident# 2858429 (0 lost trips, 11 lost minutes)

Friction Brakes (202)-206 Train 334 T-136 Aviation East, Westbound, Track 1

#### 4/21/2017 1:10:00 PM - Incident# 2858435 (0 lost trips, 10 lost minutes)

Propulsion / Dynamic Brakes (227A)-204 Train 335 T-255 Wilmington, Westbound, Track 1

#### 4/26/2017 5:06:00 PM - Incident# 2860051 (2 lost trips, 132 lost minutes)

Pulled-T Car 212 Train 335 T-105 Lakewood Station Eastbound

#### 4/27/2017 4:31:00 PM - Incident# 2860423 (1 lost trip, 66 lost minutes)

Dirty train Train 242 car 210 Norwalk Station

#### 4/28/2017 9:38:00 AM - Incident# 2860695 (1 lost trip, 64 lost minutes)

Train 331 operated by T-436 cars 227A with 219 reports friction brake faults at Avalon station track 1. No Movement.

### 4/30/2017 7:23:00 AM - Incident# 2861253 (1 lost trip, 74 lost minutes)

Operator reports no cab signals from Car 211A. Cars (211A), 203 Train 341 T-458 Norwalk TRK1, westbound

#### 4/30/2017 11:32:00 PM - Incident# 2861432 (1 lost trip, 70 lost minutes)

Operator reports he has lost air and is unable to proceed in Car 213. Car 213 Train 333 T-260 MPM 1.49, TRK 2 eastbound

#### Wayside Incidents:

4/13/2017 4:48:00 AM - Incident# 2855534 (0 lost trips, 18 lost minutes) Marine Interlocking Track Circuit 11, Track Circuit: False Occupancy.

#### 4/19/2017 4:34:00 PM - Incident# 2857663 (0 lost trips, 10 lost minutes)

OCS: Debris In Catenary Train #342 T-255 Paramount Signal #008, Track #001, Westbound

4/21/2017 10:31:00 AM - Incident# 2858326 (0 lost trips, 13 lost minutes) OCS: Other (Repair)

## 4/22/2017 6:12:00 PM - Incident# 2858725 (0 lost trips, 12 lost minutes)

ARINC indicates recurring false occupancy track circuit #257. 1. MS-137 2. MS-126

### Police & Health Incidents:

4/2/2017 7:22:00 PM - Incident# 2851700 (0 lost trips, 11 lost minutes) A Patron requested Medical Assistance on Train 351 213-(209) T-247 Marine Station Track #2. Eastbound.

#### 4/3/2017 12:48:00 AM - Incident# 2851735 (0 lost trips, 20 lost minutes) Operator reported that a Patron was having trouble breathing on Train 331

T-450 207 Vermont Station Westbound Track #1.

#### 4/3/2017 8:25:00 PM - Incident# 2852100 (0 lost trips, 13 lost minutes)

Avalon/Female passenger requesteing medical for her hand.

### 4/4/2017 11:34:00 AM - Incident# 2852353 (0 lost trips, 4 lost minutes)

Altercations aboard trains, cars #(212A)-216 LASD: Arrellano Train #333 T-057 Vermont Station, Track #002, Eastbound

# 4/15/2017 7:26:00 AM - Incident# 2856270 (0 lost trips, 9 lost minutes)

Wilmington/LASD reports a non-responsive female passenger.

### 4/20/2017 5:52:00 PM - Incident# 2858113 (0 lost trips, 10 lost minutes)

LASD held Train 343 at Norwalk Station to check the consist for a Robbery Suspect.

Train 343 (210)-217 Norwalk Station Track #1. Westbound.

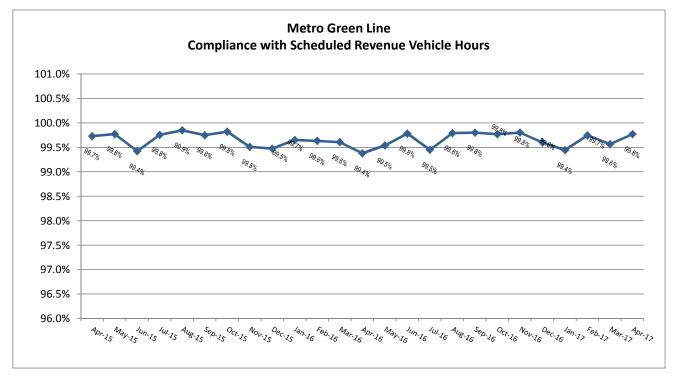
#### 4/23/2017 8:31:00 AM - Incident# 2858797 (0 lost trips, 12 lost minutes)

Train # 333 Cars #221-208, reports a non responsive patron on board.

# 4/29/2017 5:42:00 PM - Incident# 2861182 (0 lost trips, 7 lost minutes)

Train # 333 Operator T-071, reports three juveniles running on the platform with one falling injuring himself. Cars #222-227-A.

# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

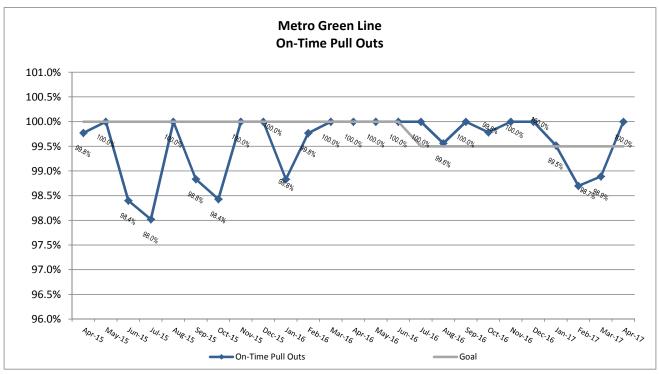


# COMPLIANCE WITH SCHEDULED VEHICLE HOURS

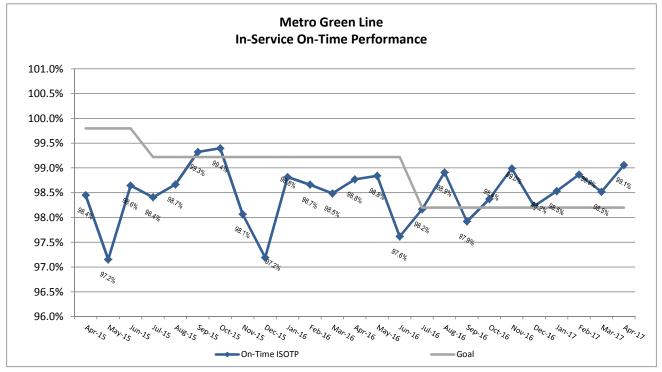
# COMPLIANCE WITH SCHEDULED TRAIN MILES



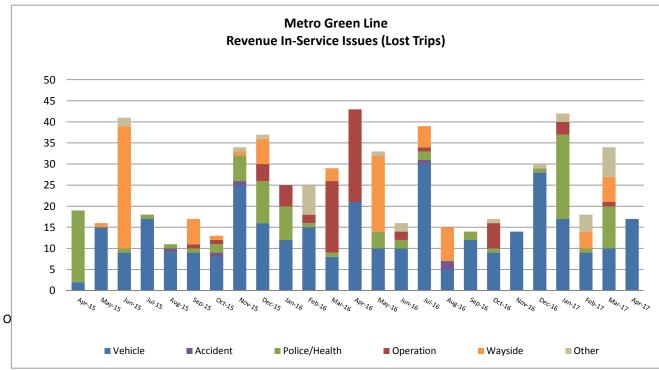
# **ON-TIME PULL OUTS**



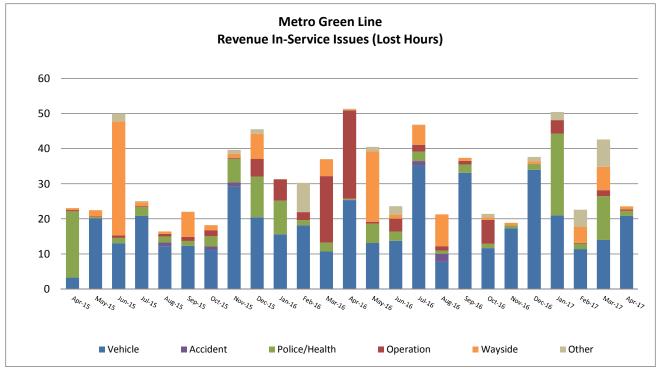
# IN-SERVICE ON-TIME PERFORMANCE

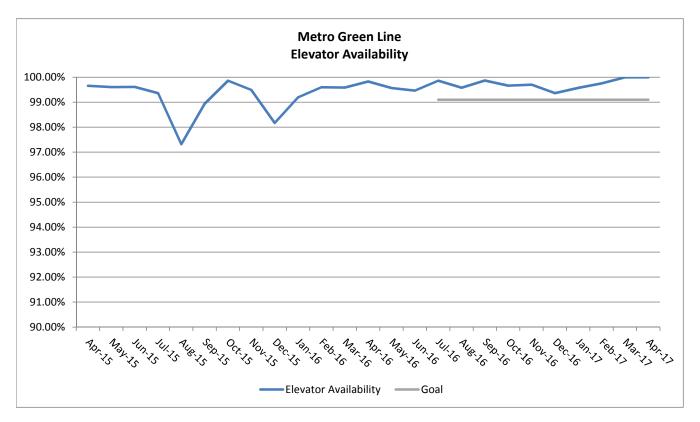




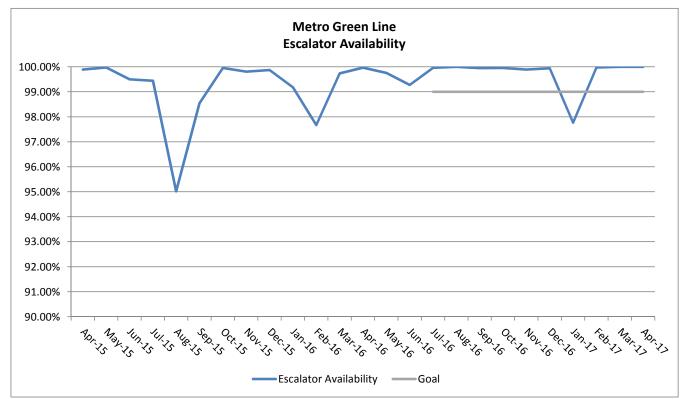


# LOST HOURS





# VERTICAL TRANSPORTATION AVAILABILITY



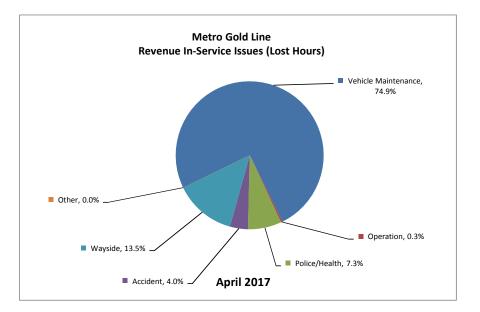
# **GOLD LINE**

Out of a total of 19,195 hours operated, there were approximately 118 total hours of service delays.

	Revenue		
April 2017 Service Hours *	Hours	Percent	
Revenue Hours without Delays	19,077	99.4%	
Cancelled + Delayed Hours	118	0.6%	
Total Revenue Hours	19,195	100.0%	

Summary of the major contributors:	Count	Hours	Percent
Operations	3	0.4	0.3%
Accidents	3	4.7	4.0%
Vehicle Maintenance	25	88.5	74.9%
Wayside	2	15.9	13.5%
Police & Health	6	8.7	7.3%
Other	0	0.0	0.0%
Total	39	118.2	100.0%

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



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

### **Operations Incidents:**

**4/7/2017 8:51:00 AM - Incident# 2853560 (0 lost trips, 10 lost minutes)** 10-100, cars #(712A)-704 Train #453 T-039 Azusa/Citrus Station, Track #002, Southbound

#### 4/11/2017 5:46:00 AM - Incident# 2854674 (0 lost trips, 6 lost minutes)

T-340 did not follow his summary and this resulted in a 6 minute delay SB from APU.

#### 4/17/2017 8:28:00 AM - Incident# 2856671 (0 lost trips, 7 lost minutes) K-9 on the Right of Way Train Delay

## Accidents:

#### 4/8/2017 9:15:00 PM - Incident# 2854010 (0 lost trips, 8 lost minutes)

Operator reports that a male white 10-390 possibly made contact with his train as the train departed from the platform. T-406 Consist (740B)736 Train-412 Memorial Park, Track #2, Southbound

#### 4/12/2017 4:20:00 PM - Incident# 2855409 (0 lost trips, 15 lost minutes)

Patron fell onto the track #1. Fillmore Station Train #405, T-207, track #2, southbound.

#### 4/26/2017 6:41:00 PM - Incident# 2860062 (1 lost trip, 258 lost minutes)

Bicycle made contact with train consist on platform, medical assistance is needed. Little Tokyo Station Train #454, T-429, track #1, northbound. Consist (705)704.

# Vehicle Maintenance Incidents:

#### 4/1/2017 6:09:00 PM - Incident# 2851500 (0 lost trips, 4 lost minutes) Car 1058A prop faults with speed restriction T-382 Train-412 Consist (1058A)1010 Irwindale Station, Track #2, Southbound

# 4/2/2017 10:11:00 AM - Incident# 2851615 (1 lost trip, 230 lost minutes)

Train 405 (718,720) T-018 reports jerky propulsion, no fault indication.

## 4/2/2017 10:35:00 AM - Incident# 2851630 (0 lost trips, 15 lost minutes)

Train 407 (1010-1007) T-466, Irwindale Station, track 2, reports propulsion fault with speed restriction, requests authorization to key down at Duarte Station.

#### 4/2/2017 1:09:00 PM - Incident# 2851644 (1 lost trip, 224 lost minutes)

Train 412 (708,711) T-11 reports LVPS fault indication in trailing car.

# 4/4/2017 6:15:00 PM - Incident# 2852552 (0 lost trips, 12 lost minutes)

Emergency brake fault trainline (717)743. Monrovia Yard Interface Train #406, T-159, track #2, southbound.

### 4/5/2017 5:28:00 AM - Incident# 2852639 (1 lost trip, 250 lost minutes)

Acceleromeer not functioning on car 733 T-122 Train 401 Tk 1 NB Duarte 733-723

# 4/6/2017 4:01:00 AM - Incident# 2853064 (0 lost trips, 15 lost minutes)

Train 403 Friction Break and Propulsion fault 721A T-128 Train 403 Tk2 SB APU 721-746

### 4/6/2017 5:37:00 PM - Incident# 2853379 (1 lost trip, 247 lost minutes)

CB1 trip Train 421 Track 2 southbound Union 727 745 (740)

#### 4/9/2017 9:00:00 PM - Incident# 2854192 (1 lost trip, 224 lost minutes)

Prop fault, reduced speed, car 1010. Train 403 T-411 Consist 1059-1010 East Portal, Track 1 northbound.

## 4/10/2017 6:20:00 PM - Incident# 2854589 (1 lost trip, 247 lost minutes)

Propulsion fault (750)743,732. Allen Station Train #423, T-263, track #1, southbound.

## 4/11/2017 6:42:00 AM - Incident# 2854715 (2 lost trips, 479 lost minutes)

Smoking brakes on car 749 T-461 Train 455 NB tk 1 Monrovia Station 701-749

### 4/12/2017 2:18:00 PM - Incident# 2855340 (1 lost trip, 251 lost minutes)

Dirty vehicle (746)741. Atlantic Station Train #434, T-207, track #1 northbound.

### 4/13/2017 3:57:00 PM - Incident# 2855810 (1 lost trip, 239 lost minutes)

Train 401 T-452 LVPS fault/emergency lighting/speed restriction Monrovia Station track 1 (747) 729

# 4/14/2017 5:09:00 AM - Incident# 2855918 (1 lost trip, 238 lost minutes)

Operator reports of propulsion faults, door problems with no movement

Train 416 T-250 (743)725-733 Azusa Citrus Station, Trk. 1, southbound

#### 4/14/2017 6:47:00 AM - Incident# 2855974 (0 lost trips, 13 lost minutes)

Operator reports of doors not opening Train 419 T-340 (1009B)1013 Filmore Station, Trk. 2, southbound

# 4/17/2017 2:24:00 PM - Incident# 2856869 (1 lost trip, 239 lost minutes)

(713)-724 Propulsion Faults SB Downtown Azusa Train 403 T482

## 4/20/2017 2:56:00 PM - Incident# 2858048 (2 lost trips, 477 lost minutes)

LVPS failure on consist 712(710). Southwest Museum Station Train #403, T-382, track #1, northbound.

### 4/21/2017 4:53:00 AM - Incident# 2858185 (1 lost trip, 245 lost minutes)

Operator reports of a propulsion fault with a High Speed Circuit Breaker fault and a speed restriction of 35 MPH

Train 414 T-066 (724)747-728 Irwindale Station, Trk. 2, southbound

#### 4/21/2017 2:40:00 PM - Incident# 2858452 (1 lost trip, 239 lost minutes)

Propulsion / Dynamic Brakes, (1012-1058) Train #453/8407 T-163 and T-189 South West Museum Station, Track #002, Southbound.

## 4/21/2017 4:20:00 PM - Incident# 2858481 (1 lost trip, 238 lost minutes)

Propulsion / Dynamic Brakes, cars #(728)-747 Train #407 T-215 Sierra Madre Villa Station, Track #002, Southbound

#### 4/24/2017 7:02:00 AM - Incident# 2859033 (1 lost trip, 259 lost minutes)

Prop and Friction brake faults car 716 Train 416 T-120 Track 1 NB Pico Aliso 716-717

### 4/24/2017 11:20:00 AM - Incident# 2859165 (1 lost trip, 239 lost minutes)

Car 1011 propulsion fault no movement. T-19 Train 405 Cars 1011, 1010 Atlantic Station Track 2 NB.

#### 4/28/2017 8:44:00 AM - Incident# 2860673 (1 lost trip, 238 lost minutes)

(1055)-1013 Propulsion Fault SB Indiana T-11 Train 405

#### 4/29/2017 4:09:00 AM - Incident# 2860999 (1 lost trip, 224 lost minutes)

Train 404, LRV's (723) and 717. APU/ Citrus Station, Track 1 south. Friction Brakes not releasing.

# 4/30/2017 3:54:00 PM - Incident# 2861381 (1 lost trip, 224 lost minutes)

Car 729 with minor/major prop faults and speed restriction. T-470 Train 408 Train 408 Irwindale Station, Track 2, southbound.

#### Wayside Incidents:

4/27/2017 8:58:00 PM - Incident# 2860494 (2 lost trips, 477 lost minutes) South Pasadena PD # 2026 reports Broken gate. Mission Meridian, TK 2, gate # 1.

**4/27/2017 10:24:00 PM - Incident# 2860510 (2 lost trips, 477 lost minutes)** Pasadena/Monterey broken gate and making contact with OCS, TK 2.

#### Police & Health Incidents:

4/3/2017 4:54:00 PM - Incident# 2852074 (0 lost trips, 10 lost minutes) Trespasser on the right of way. 101 freeway over pass.

# 4/4/2017 6:41:00 PM - Incident# 2852559 (0 lost trips, 11 lost minutes)

Patron needs medical assistance. Heritage Square Station Train #403, T-195, track #1, northbound. 1055, 1006.

# 4/22/2017 7:52:00 PM - Incident# 2858647 (0 lost trips, 9 lost minutes)

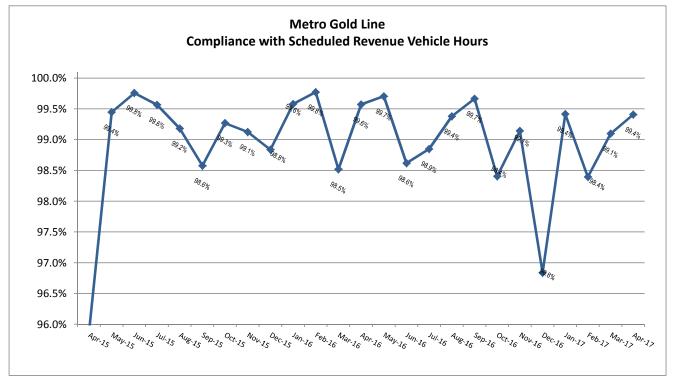
Female passanger claim of internal pain 733-(738) Train 408 T-304 Northbound Indiana Station

4/24/2017 8:06:00 AM - Incident# 2859058 (2 lost trips, 479 lost minutes) Vehicle blocking Track 2 at Maravilla Station.

4/26/2017 4:31:00 PM - Incident# 2860033 (0 lost trips, 5 lost minutes) LASD requests no trains in the area of Ave 57 due to police activity.

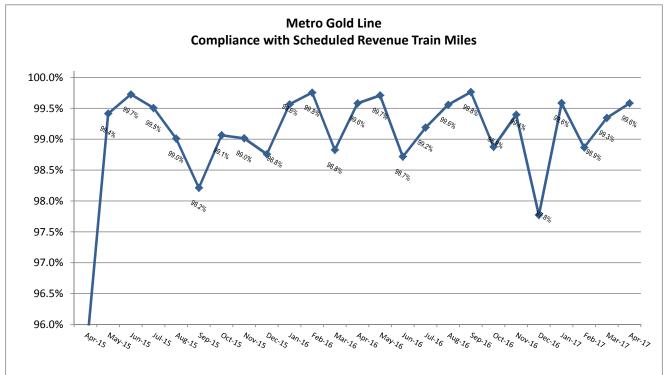
4/29/2017 5:55:00 AM - Incident# 2861016 (0 lost trips, 7 lost minutes) Train 408 reported car on the ROW.

# **MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS**

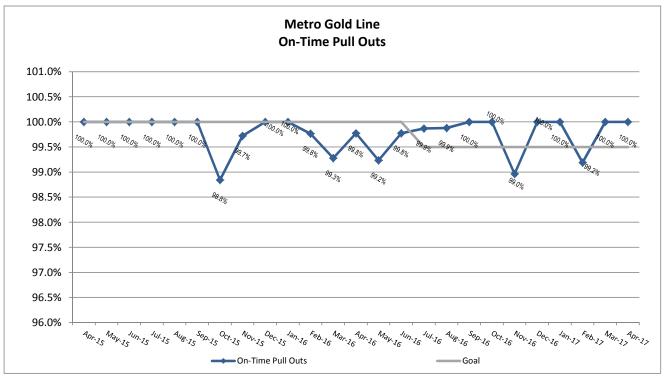


# COMPLIANCE WITH SCHEDULED VEHICLE HOURS

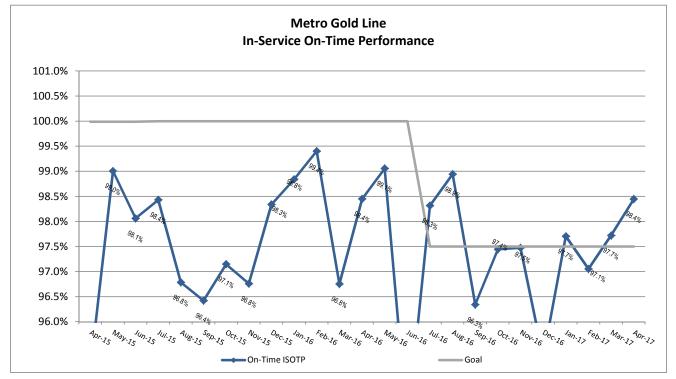
# COMPLIANCE WITH SCHEDULED TRAIN MILES



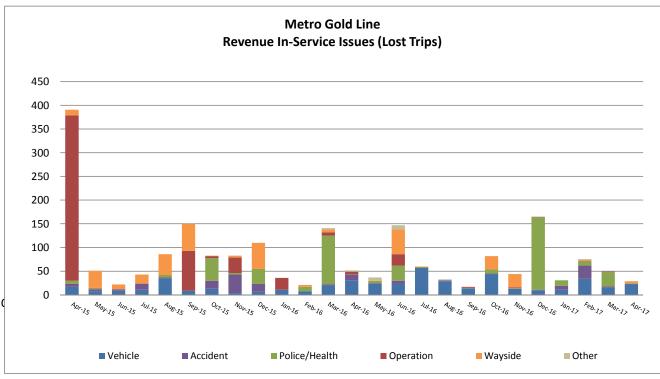
# **ON-TIME PULL OUTS**



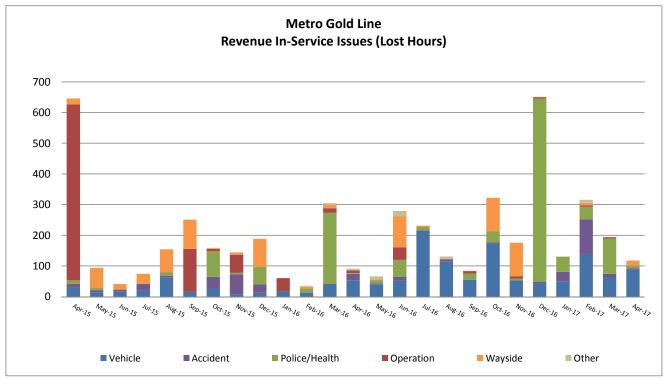
# **IN-SERVICE ON-TIME PERFORMANCE**

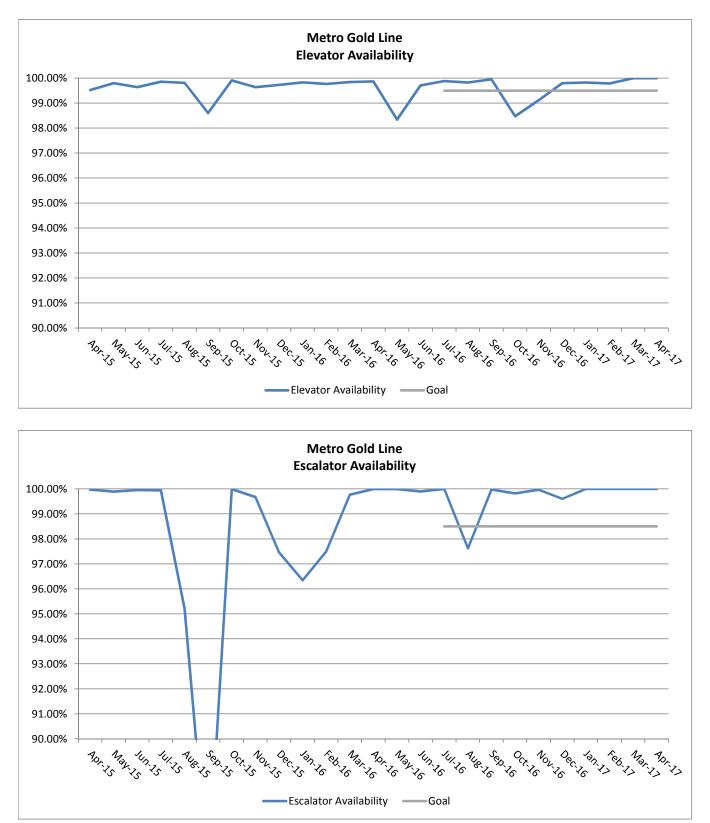


# LOST TRIPS



# LOST HOURS





# VERTICAL TRANSPORTATION AVAILABILITY

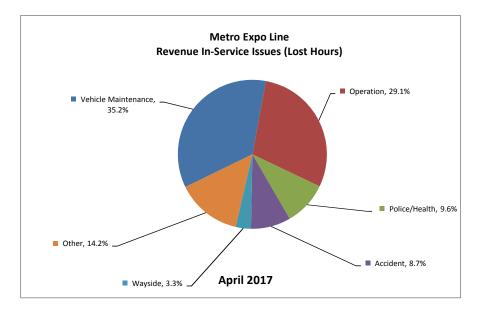
# **EXPO LINE**

Out of a total of 18,655 hours operated, there were approximately 71 total hours of service delays.

	Revenue		
April 2017 Service Hours *	Hours	Percent	
Revenue Hours without Delays	18,584	99.6%	
Cancelled + Delayed Hours	71	0.4%	
Total Revenue Hours	18,655	100.0%	

Summary of the major contributors:	Count	Hours	Percent
Operations	4	20.6	29.1%
Accidents	1	6.1	8.7%
Vehicle Maintenance	11	24.9	35.2%
Wayside	1	2.4	3.3%
Police & Health	3	6.8	9.6%
Other	2	10.0	14.2%
Total	22	70.7	100.0%

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



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

#### **Operations Incidents:**

4/10/2017 3:45:00 AM - Incident# 2854234 (9 lost trips, 1,082 lost minutes) Yard control notified ROC train 605 and other trains will be pulling out late or cancelled due to pantograph issues.

#### 4/12/2017 12:59:00 PM - Incident# 2855281 (0 lost trips, 15 lost minutes)

Turn Backs due to Train 111 with no movement at 1N 7th/Metro Center.

#### 4/13/2017 12:19:00 PM - Incident# 2855739 (0 lost trips, 10 lost minutes)

Due to train 106 with no movement at Pico Station Southbound cause delays tomthe Expo Trains.

#### 4/19/2017 6:06:00 PM - Incident# 2857710 (1 lost trip, 128 lost minutes)

Train 626 was turned back from 23rd St Station, due to a BO Blue Line Train at Pico Station. Train 626 T-403 Cars 1046-1064 23rd St Station, track 3, northbound

#### Accidents:

#### 4/10/2017 10:18:00 AM - Incident# 2854378 (3 lost trips, 367 lost minutes)

Auto vs. Train T-417 and T-038 Train 619 (1060B)-1018 Southbound, Track 4 at Crenshaw.

#### Vehicle Maintenance Incidents:

#### **4/1/2017 4:57:00 AM - Incident# 2851365 (0 lost trips, 3 lost minutes)** Reports door problem. Train # 606 T-401 1019-1020-(1040B) USC/EXPO Station, Track #3, NB

#### 4/1/2017 11:58:00 AM - Incident# 2851422 (0 lost trips, 8 lost minutes)

Train 530 report self applying brakes on LRV 104 and Smoking brakes. Train-530 T-530 LRV'S 103- (104 ) 146 17th Street , track 3, Northbound.

#### 4/4/2017 12:03:00 AM - Incident# 2852147 (3 lost trips, 357 lost minutes)

Doors/ADU False Indication Train 623 T-150 (1034-1028) Trk 4 Culver City Station N/B 20 delay N/B 20 delay S/B

#### 4/4/2017 5:17:00 AM - Incident# 2852182 (0 lost trips, 5 lost minutes)

No Fault No Movement Train 601 T-230 (1042A)-1014-1016 S/B Trk 4 Palm Station 5 minute delay south bound.

#### 4/7/2017 1:12:00 PM - Incident# 2853654 (7 lost trips, 832 lost minutes)

Multiple trains, beginning with Train#605 were turned backed at 23rd Street Station due to OCS damage reported at 7th and Metro.

Train#605 T#89 103,104,133 Track#3,northbound ,23rd Street Station

## 4/8/2017 12:56:00 AM - Incident# 2853818 (0 lost trips, 18 lost minutes)

Train operator T-532 reports of no movement. Train 621 T-532 Cars (1032) 1040, 1034 23rd St Station, Track 3, northbound

#### 4/18/2017 8:45:00 PM - Incident# 2857323 (0 lost trips, 20 lost minutes)

Propulsion fault Train 629 Car 238A Arlington Grade crossing Northbound

### 4/24/2017 11:45:00 AM - Incident# 2859177 (1 lost trip, 119 lost minutes)

Operator reports of a propulsion fault. Train 607 T-123 (1026)1017-1028 La Cienega station, Trk. 4, southbound

### 4/24/2017 3:31:00 PM - Incident# 2859240 (1 lost trip, 119 lost minutes)

Operator reports no movement from Car 142A. Cars 102, 146, (142A) Train 609 T-405 7th and Metro TRK 2 BP

#### 4/25/2017 8:28:00 AM - Incident# 2859468 (0 lost trips, 6 lost minutes)

Auto Train Protection (Speed Limit) ( No transisition to street run) (1045)-1039-1054 Train 602 T-349 Western, Northbound, Track 3

#### 4/30/2017 3:50:00 PM - Incident# 2861392 (0 lost trips, 4 lost minutes)

Car 1053A prop faults T-373 Train-603 Consist (1053A) 1017-1052 26th Street, Northbound, Track #3

### Wayside Incidents:

4/8/2017 3:53:00 PM - Incident# 2853960 (1 lost trip, 141 lost minutes) Operator reports something on the something hanging from the OCS at BArrington grade crossing.

#### Police & Health Incidents:

4/5/2017 5:17:00 PM - Incident# 2852946 (3 lost trips, 387 lost minutes)

4th St/Informant called and reports a man with a gun boarded the train.

## 4/24/2017 3:49:00 PM - Incident# 2859274 (0 lost trips, 6 lost minutes)

26th St/LASD reports an assulated paton is on Train 607.

#### 4/25/2017 6:53:00 PM - Incident# 2859678 (0 lost trips, 12 lost minutes)

Trespasser (Male White) CCTV/R-467 Sepulveda Station South end of the platform track #004 side.

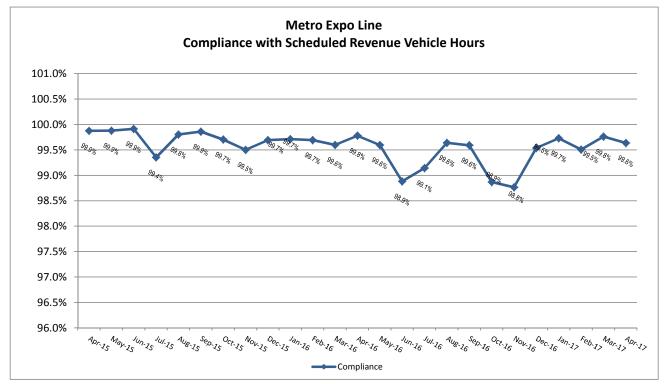
#### Other Incidents:

### 4/7/2017 1:50:00 AM - Incident# 2853444 (5 lost trips, 594 lost minutes)

Train Fire Mock Drill Commence Train 517 T-157 1039 -(1019) Jefferson Expo Tunnel Trk 4 S/B

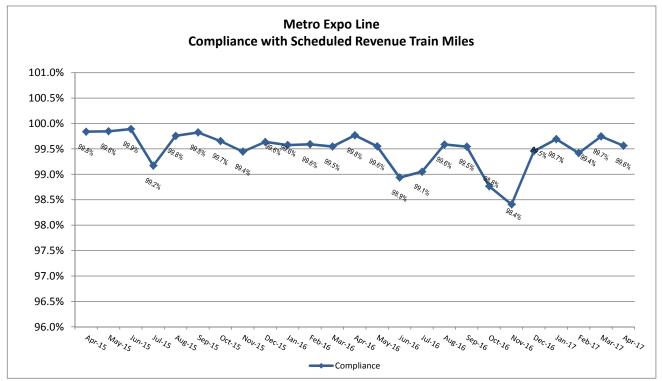
4/27/2017 4:46:00 AM - Incident# 2860137 (0 lost trips, 6 lost minutes) Out Late from Expo Yard.

# MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

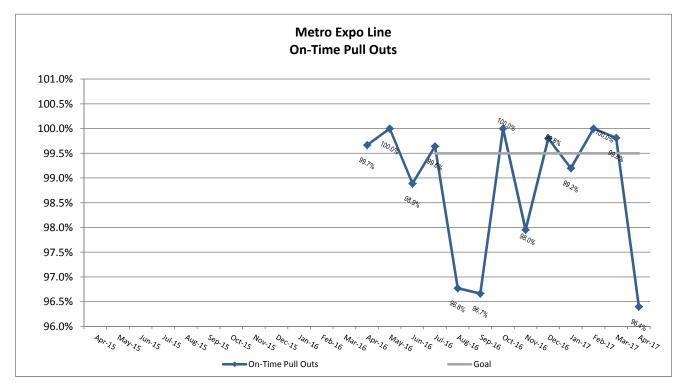


# COMPLIANCE WITH SCHEDULED VEHICLE HOURS

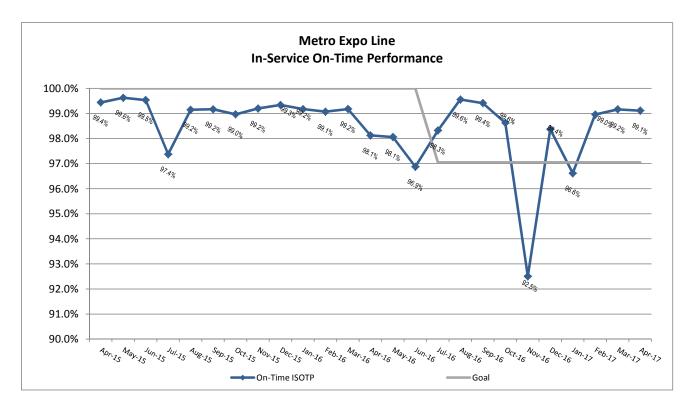
# COMPLIANCE WITH SCHEDULED TRAIN MILES



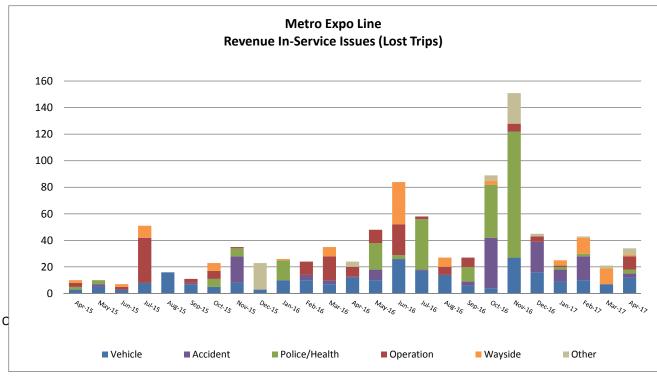
# **ON-TIME PULL OUTS**



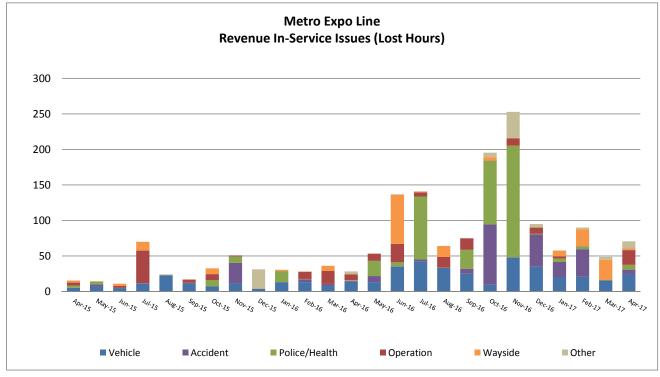
# IN-SERVICE ON-TIME PERFORMANCE

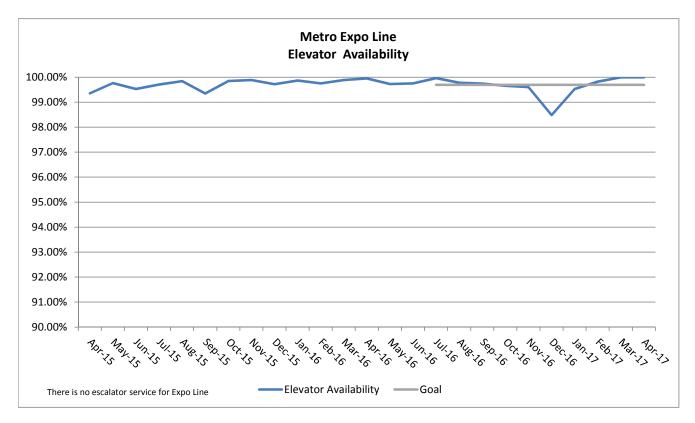






# LOST HOURS





# VERTICAL TRANSPORTATION AVAILABILITY