Los Angeles County Metropolitan Transportation Authority California

OPERATIONS MONTHLY RAIL PERFORMANCE REPORT

SEPTEMBER 2017



METRO RAIL PERFORMANCE – SEPTEMBER 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.

				FY 2018	FY 2018	FYTD	Jul	Aug	Sep
Measurement	FY 2015	FY 2016	FY 2017	Target	YTD	Status	Month	Month	Month
Systemwide									
On-Time Pullouts	99.67%	99.63%	99.61%	99.50%	99.68%		99.77%	99.81%	99.45%
Mean Miles Between Chargeable Mechanical Failures	34,524	30,482	29,711	32,550	23,935		29,212	21,617	22,339
In-Service On-time Performance	98.39%	98.10%	98.24%	98.99%	98.47%		98.78%	98.46%	98.17%
Service Delivery Ratio	99.35%	99.22%	99.23%	99.00%	99.24%		99.29%	99.14%	99.30%
Traffic Accidents Per 100,000 Train Miles	1.18	1.17	1.01	1.01	1.02		0.80	1.17	1.09
CPUC Reportable Accidents per 100,000 Train Miles	0.43	0.60	0.36	0.37	0.58		0.40	0.65	0.68
Passenger Accidents per 100,000 Boardings	0.013	0.016	0.023	0.010	0.025		0.032	0.020	0.022
Complaints per 100,000 Boardings	0.78	1.43	1.98	1.10	1.78		1.56	1.78	2.02
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours ^{1, 2}	11.11	10.97	12.27	10.42	11.38		14.20	9.39	10.74
Lost Work Days per 200,000 Exposure Hours 1,2	880	482	733	450.00	774		717	828	-
OSHA Injuries per 200,000 Exposure Hours ^{1, 2}	6.68	6.32	8.53	6.00	4.88		5.07	4.70	-
Wayaida	Π								
Wayside Overdue Work Orders (Non-PMP) - Aging of							1		
Outstanding Work Orders	96	472	1,319	N/A	1,456	N/A	255	408	793
Past-Due Preventive Maintenance - Aging of Outstanding Work Orders	1	14	144	N/A	178	N/A	58	23	97
% of Completed Inspections	99.51%	99.57%	99.72%	N/A	99.72%	N/A	100.00%	99.71%	99.46%
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	9.07	4.77	5.35	4.53	5.48		12.78	0.00	4.15
Lost Work Days per 200,000 Exposure Hours 1	309	148	194	138	325		354	299	0
OSHA Injuries per 200,000 Exposure Hours ¹	8.28	4.40	4.01	4.18	4.09		8.52	0.00	0
Blue Line									
On-Time Pullouts	99.41%	99.59%	99.60%	99.50%	99.12%		99.26%	99.72%	98.33%
Mean Miles Between Chargeable Mechanical	23,716	19,240	15,405	22,825	10,585		12,132	9,466	10,558
In-Service On-time Performance	97.28%	96.10%	96.44%	98.80%	96.00%		97.18%	96.63%	94.11%
Service Delivery Ratio	98.88%	98.41%	98.54%	99.00%	98.24%		98.21%	98.06%	98.46%
Traffic Accidents Per 100,000 Train Miles	2.48	2.38	2.18	2.18	1.93		0.64	3.14	1.98
CPUC Reportable Accidents per 100,000 Train Miles	0.89	1.39	0.71	0.40	1.28		0.64	1.88	1.32
Passenger Accidents per 100,000 Boardings	0.034	0.016	0.046	0.010	0.072		0.056	0.102	0.055
Complaints per 100,000 Boardings	0.90	1.33	1.67	1.07	2.29		1.51	2.51	2.81
New Workers' Compensation Indemnity Claims per	15.10	15.08	16.74	10.42	17.33		27.07	10.06	15.50
Lost Work Days per 200,000 Exposure Hours ¹	1,622	797	836	450	820		756	879	-
OSHA Injuries per 200,000 Exposure Hours ¹	10.64	6.79	10.40	6.00	2.61		5.41	0.00	-

¹ There is a One Month lag in reporting this data

² 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

				FY 2018	FY 2018	FYTD	Jul	Aug	Sep
Measurement	FY 2015	FY 2016	FY 2017	Target	YTD	Status	Month	Month	Month
Red Line									
On-Time Pullouts	99.91%	99.79%	99.95%	99.50%	99.86%		100.00%	99.80%	99.79%
Mean Miles Between Chargeable Mechanical	85,090	94,312	104,637	131,376	59,068		85,664	49,953	52,087
In-Service On-time Performance	99.13%	99.45%	99.39%	99.50%	99.29%		99.45%	99.09%	99.33%
Service Delivery Ratio	99.60%	99.71%	99.72%	100.00%	99.65%		99.65%	99.63%	99.67%
Traffic Accidents Per 100,000 Train Miles	0.47	0.75	0.57	0.57	0.57		0.85	0.00	0.88
CPUC Reportable Accidents per 100,000 Train Miles	0.07	0.07	0.14	0.21	0.29		0.00	0.00	0.88
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	1.19		1.22	1.23	1.11
New Workers' Compensation Indemnity Claims per	6.20	16.43	12.68	10.42	9.37		0.00	21.29	5.49
*Lost Work Days per 200,000 Exposure Hours	649	526	992	450	1,273		902	1,597	-
*OSHA Injuries per 200,000 Exposure Hours	3.54	7.99	7.52	6.00	5.69		0.00	10.65	-

Green Line								
On-Time Pullouts	99.32%	99.49%	99.69%	99.50%	99.76%	100.00%	99.31%	100.00%
Mean Miles Between Chargeable Mechanical Failures	21,054	19,238	16,375	23,220	19,633	37,988	23,631	11,733
In-Service On-time Performance	97.39%	98.52%	98.69%	98.80%	99.18%	99.50%	98.83%	99.21%
Service Delivery Ratio	99.50%	99.59%	99.61%	99.00%	99.74%	99.78%	99.74%	99.68%
Traffic Accidents Per 100,000 Train Miles	0.21	0.42	0.48	0.48	0.82	0.82	0.80	0.83
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	1.93	1.25	2.20	2.30
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	7.32	7.18	9.14	10.42	13.07	9.91	9.69	19.60
*Lost Work Days per 200,000 Exposure Hours	479	228	712	450	922	899	945	-
*OSHA Injuries per 200,000 Exposure Hours	4.07	3.19	6.65	6.00	4.90	0.00	9.69	-

99.98%	99.68%	99.82%	99.50%	100.00%		100.00%	100.00%	100.00%
44,171	40,426	38,427	60,252	35,824		33,561	30,787	47,052
98.56%	97.60%	97.61%	98.80%	98.98%		98.70%	99.13%	99.10%
99.34%	99.11%	98.88%	99.00%	99.27%		99.27%	99.26%	99.27%
1.14	0.99	0.61	0.61	0.58		0.44	0.42	0.88
0.30	0.60	0.25	0.40	0.29		0.00	0.42	0.44
0.007	0.039	0.030	0.010	0.071		0.143	0.000	0.075
1.01	2.73	2.78	2.22	1.90		1.79	1.57	2.38
15.96	11.87	14.31	10.42	15.11		17.40	10.97	17.17
1,068	766	1,055	450	838		863	815	-
3.83	9.29	9.69	6.00	8.46		5.80	10.97	-
	44,171 98.56% 99.34% 1.14 0.30 0.007 1.01 15.96 1,068	44,171 40,426 98.56% 97.60% 99.34% 99.11% 1.14 0.99 0.30 0.60 0.007 0.039 1.01 2.73 15.96 11.87 1,068 766	44,171 40,426 38,427 98.56% 97.60% 97.61% 99.34% 99.11% 98.88% 1.14 0.99 0.61 0.30 0.60 0.25 0.007 0.039 0.030 1.01 2.73 2.78 15.96 11.87 14.31 1,068 766 1,055	44,171 40,426 38,427 60,252 98.56% 97.60% 97.61% 98.80% 99.34% 99.11% 98.88% 99.00% 1.14 0.99 0.61 0.61 0.30 0.60 0.25 0.40 0.007 0.039 0.030 0.010 1.01 2.73 2.78 2.22 15.96 11.87 14.31 10.42 1,068 766 1,055 450	44,171 40,426 38,427 60,252 35,824 98.56% 97.60% 97.61% 98.80% 98.98% 99.34% 99.11% 98.88% 99.00% 99.27% 1.14 0.99 0.61 0.61 0.58 0.30 0.60 0.25 0.40 0.29 0.007 0.039 0.030 0.010 0.071 1.01 2.73 2.78 2.22 1.90 15.96 11.87 14.31 10.42 15.11 1,068 766 1,055 450 838	44,171 40,426 38,427 60,252 35,824 98.56% 97.60% 97.61% 98.80% 98.98% 99.34% 99.11% 98.88% 99.00% 99.27% 1.14 0.99 0.61 0.61 0.58 0.30 0.60 0.25 0.40 0.29 0.007 0.039 0.030 0.010 0.071 1.01 2.73 2.78 2.22 1.90 15.96 11.87 14.31 10.42 15.11 1,068 766 1,055 450 838	44,171 40,426 38,427 60,252 35,824 33,561 98.56% 97.60% 97.61% 98.80% 98.98% 98.70% 99.34% 99.11% 98.88% 99.00% 99.27% 99.27% 1.14 0.99 0.61 0.61 0.58 0.44 0.30 0.60 0.25 0.40 0.29 0.00 0.007 0.039 0.030 0.010 0.071 0.143 1.01 2.73 2.78 2.22 1.90 1.79 15.96 11.87 14.31 10.42 15.11 17.40 1,068 766 1,055 450 838 863	44,171 40,426 38,427 60,252 35,824 33,561 30,787 98.56% 97.60% 97.61% 98.80% 98.98% 98.70% 99.13% 99.34% 99.11% 98.88% 99.00% 99.27% 99.27% 99.27% 99.26% 1.14 0.99 0.61 0.61 0.58 0.44 0.42 0.30 0.60 0.25 0.40 0.29 0.00 0.42 0.007 0.039 0.030 0.010 0.071 0.143 0.000 1.01 2.73 2.78 2.22 1.90 1.79 1.57 15.96 11.87 14.31 10.42 15.11 17.40 10.97 1,068 766 1,055 450 838 863 815

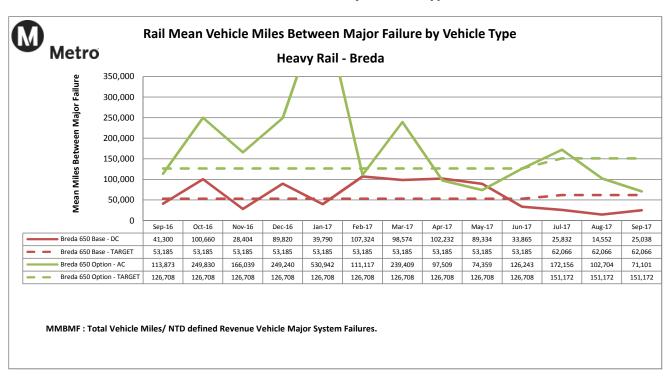
Expo Line						<u> </u>			<u> </u>
On-Time Pullouts	-	99.53%	98.76%	99.50%	99.70%		99.70%	100.00%	99.34%
Mean Miles Between Chargeable Mechanical Failures	-	18,114	33,402	22,825	29,599		36,414	25,087	29,559
In-Service On-time Performance	99.14%	98.61%	98.48%	98.80%	98.75%		98.94%	98.45%	98.88%
Service Delivery Ratio	99.64%	99.56%	99.46%	99.00%	99.46%		99.66%	99.22%	99.52%
Traffic Accidents Per 100,000 Train Miles	1.02	0.74	1.26	1.26	1.33		1.59	1.55	0.83
CPUC Reportable Accidents per 100,000 Train Miles	1.02	0.50	0.63	0.40	1.07		1.59	0.78	0.83
Passenger Accidents per 100,000 Boardings	0.000	0.019	0.018	0.010	0.000		0.000	0.000	0.000
Complaints per 100,000 Boardings	1.12	3.38	3.68	1.83	2.42		2.32	2.21	2.75
New Workers' Compensation Indemnity Claims per	24.97	8.44	19.26	10.42	10.03		15.44	7.22	7.64
*Lost Work Days per 200,000 Exposure Hours	937	73	887	450	674		748	605	-
*OSHA Injuries per 200,000 Exposure Hours	-	5.63	16.60	6.00	3.73		7.72	-	-

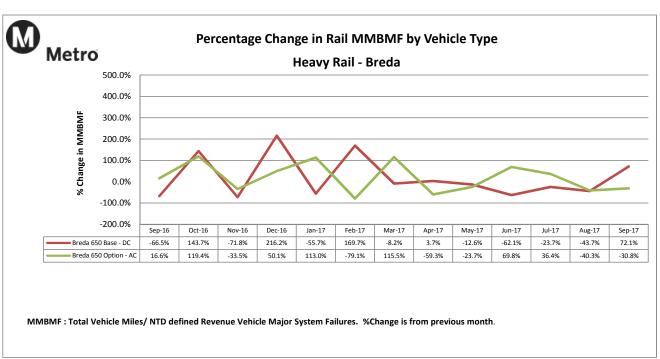
^{*} There is One Month lag in reporting this data

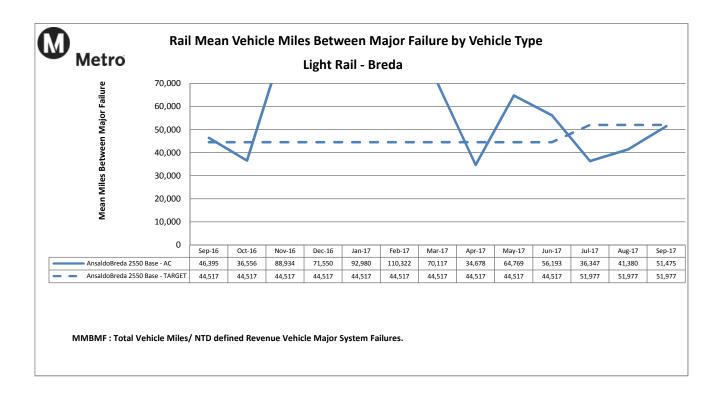
- Green High probability of achieving the target (on track). Meets Target at 100% or better.
- O Yellow Uncertain if the target will be achieved -- slight problems, delays or management issues. Falls below Target 70 99%.
- Red High probability that the target will not be achieved -- significant problems and/or delays. Falls below Target >70%.
 N/A = Not Available

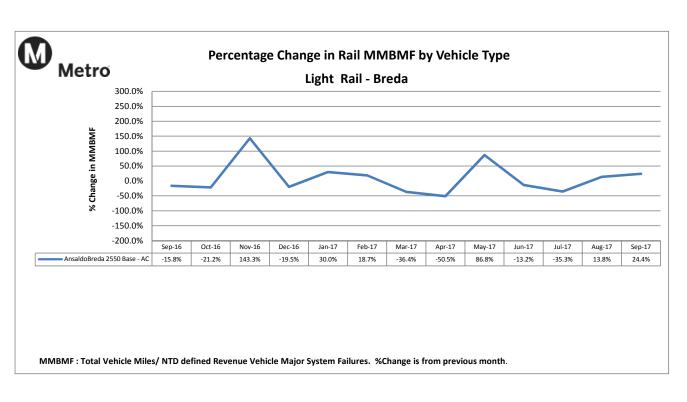
METRO RAIL PERFORMANCE – SEPTEMBER 2017

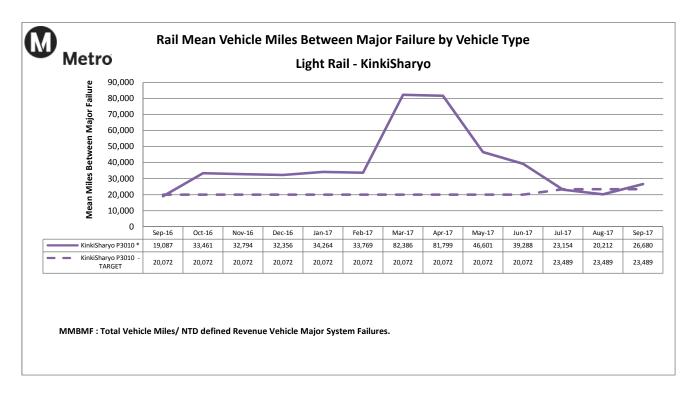
Rail Performance by Vehicle Type

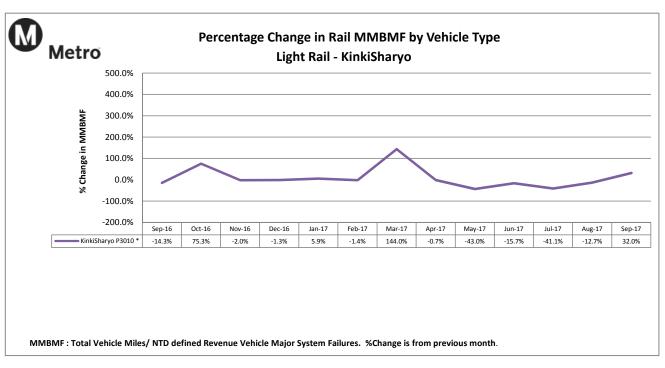




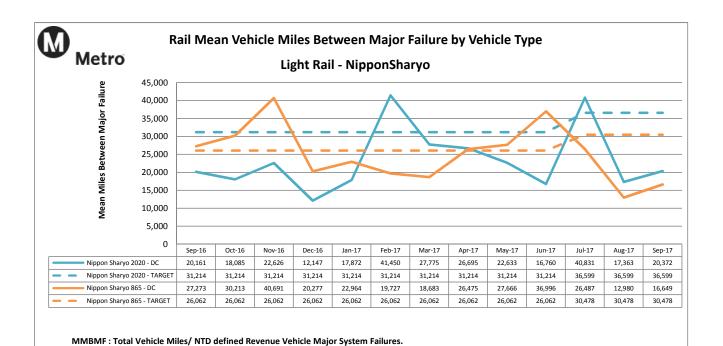


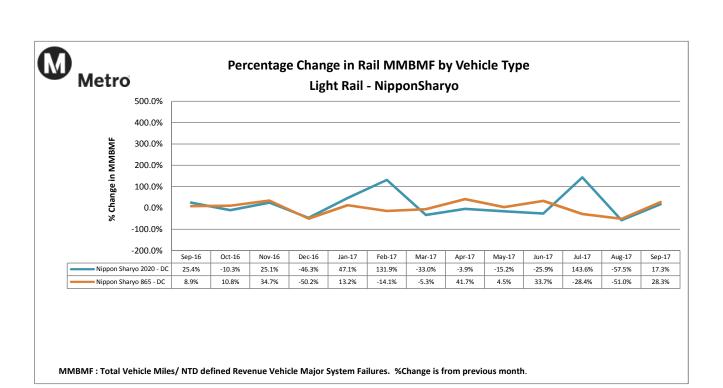


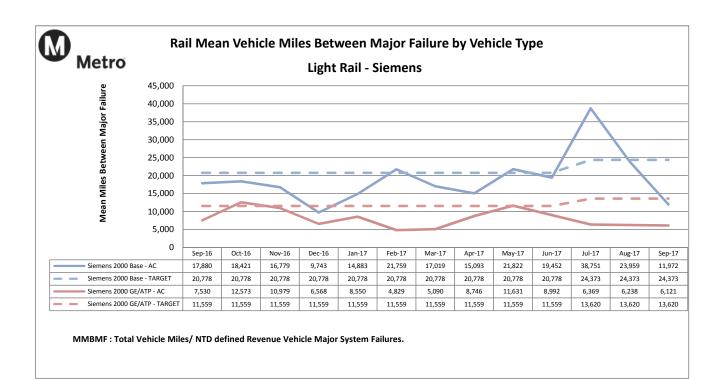


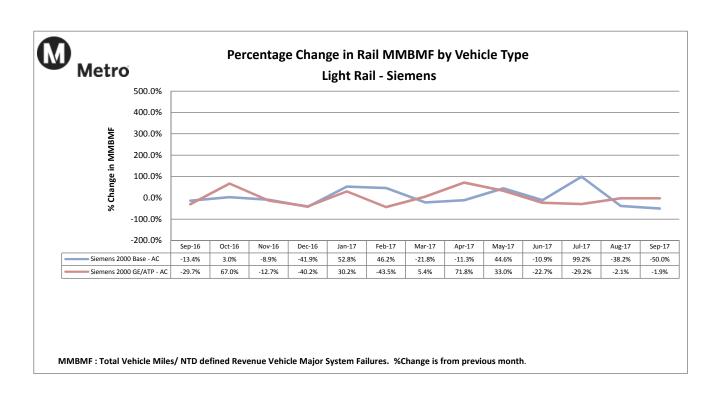


^{*} KinkiSharyo rolling stock began service March 2016









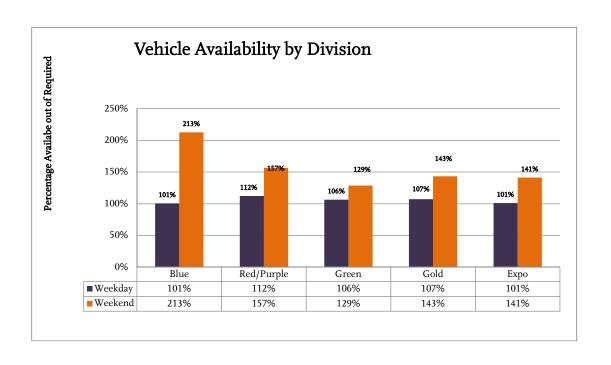
Mean Miles Beween Major Failures

	FY 2017	FY 2018	FY 2018
	F1 2017	Goal	YTD
AnsaldoBreda2550Base - AC	41,528	44,517	51,977
Breda 650 Base - DC	47,876	53,185	68,962
Breda 650 Option - AC	115,753	126,708	125,441
Kinkisharyo P3010	19,068	20,072	35,793
Nippon Sharyo 2020 - DC	29,724	31,214	19,963
Nippon Sharyo 865 - DC	22,695	26,062	25,231
Siemens 2000 Base - AC	19,713	20,778	16,722
Siemens 2000 GE/ATP - AC	10,920	13,620	6,298

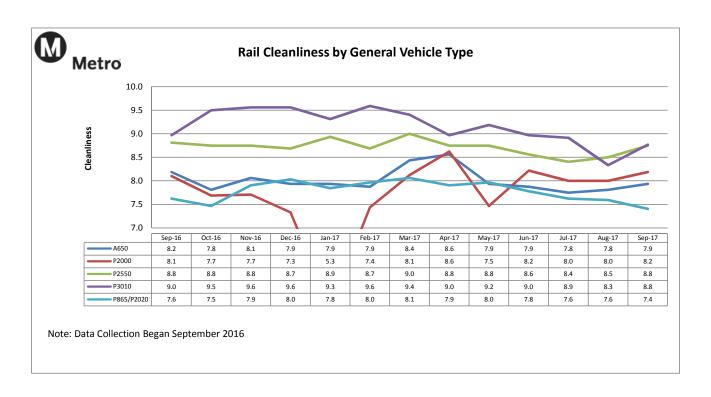
Rail Fleet Distribution – SEPTEMBER 2017

Number of Rail Vehicle Type by		Red /			
Division	Blue	Purple	Green	Gold	Expo
AnsaldoBreda 2550 Base - AC				50	
Breda 650 Base - DC		30			
Breda 650 Option - AC		70			
KinkiSharyo P3010	30		2	15	41
Nippon Sharyo 2020 - DC	8				7
Nippon Sharyo 865 - DC	39				8
Siemens 2000 Base - AC			28		
Siemens 2000 GE/ATP - AC	22				
TOTALS	99	100	30	65	56

Blue			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	71	71	101%
Weekend	26	55	213%
Red/ Purple			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	63	71	112%
Weekend	40	63	157%
Green			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	22	23	106%
Weekend	14	18	129%
Gold			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	50	53	107%
Weekend	28	40	143%
Expo			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	42	42	101%
Weekend	30	42	141%

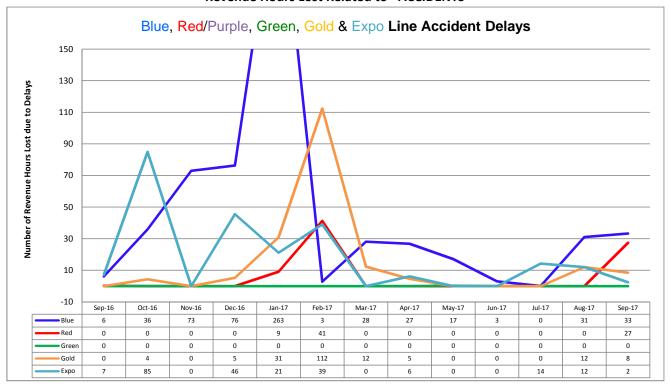


Cleanliness by Vehicle Type

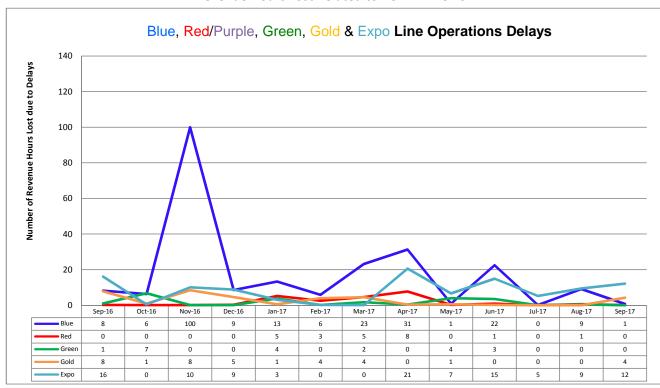


RAIL DELAYS BY CATEGORY - SYSTEMWIDE

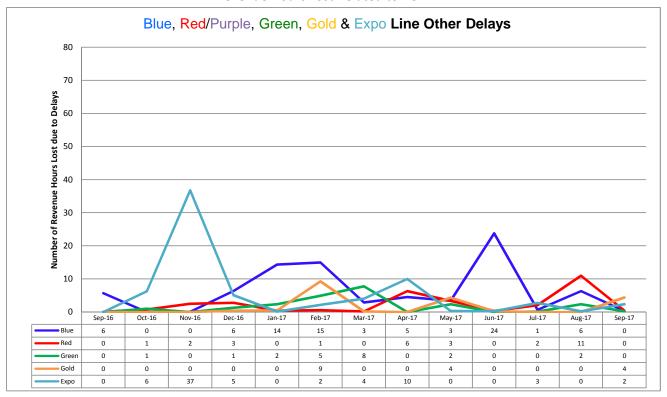
Revenue Hours Lost Related to - ACCIDENTS



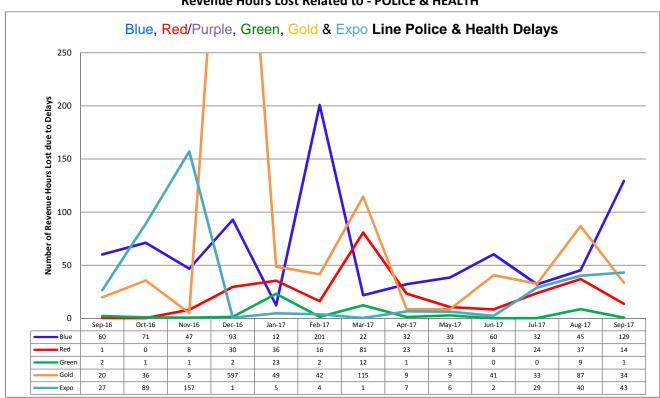
Revenue Hours Lost Related to - OPERATIONS



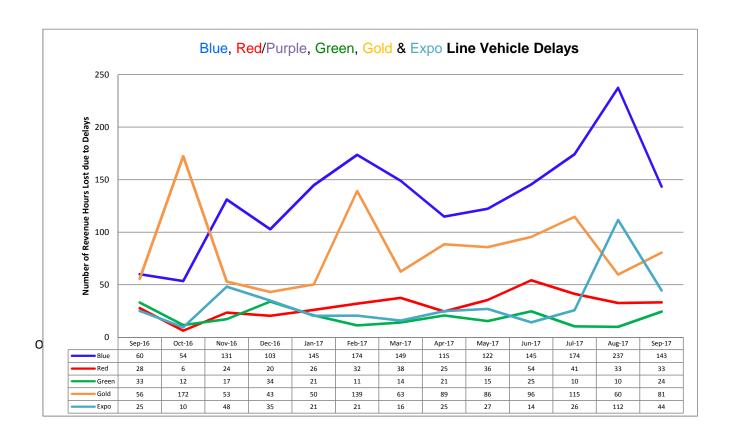
Revenue Hours Lost Related to - OTHER



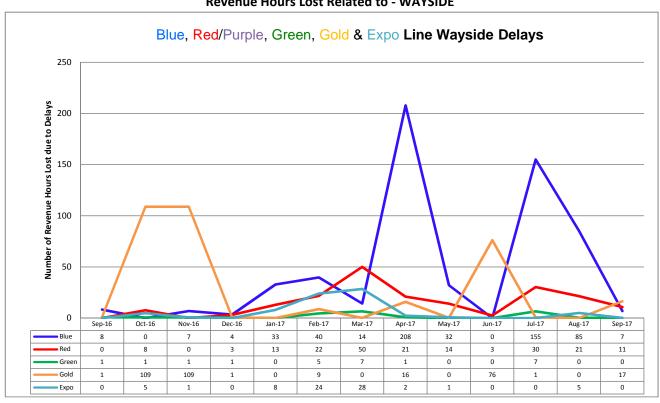
Revenue Hours Lost Related to - POLICE & HEALTH



Revenue Hours Lost Related to - Vehicle Delays

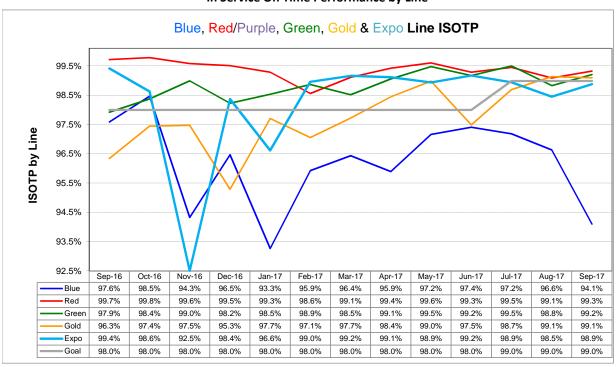


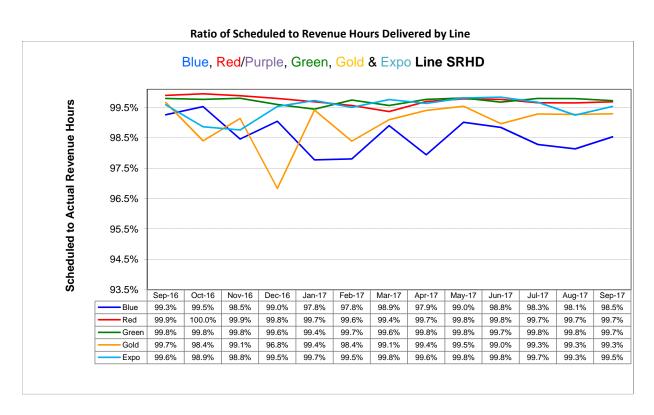
Revenue Hours Lost Related to - WAYSIDE



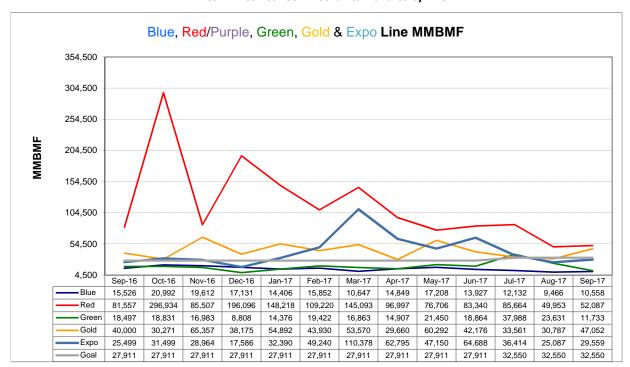
Rail Service Performance

In Service On Time Performance by Line

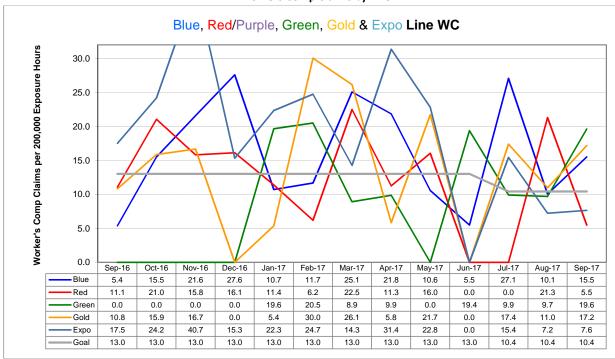




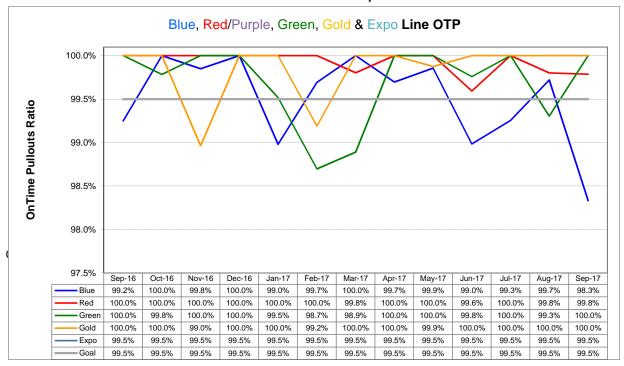
Mean Miles Between Mechanical Failures by Line



Workers Comp Claims by Line

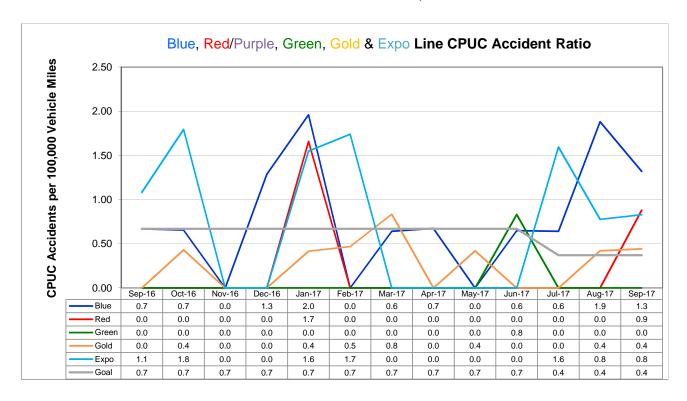


On-Time Pullouts Ratio by Line

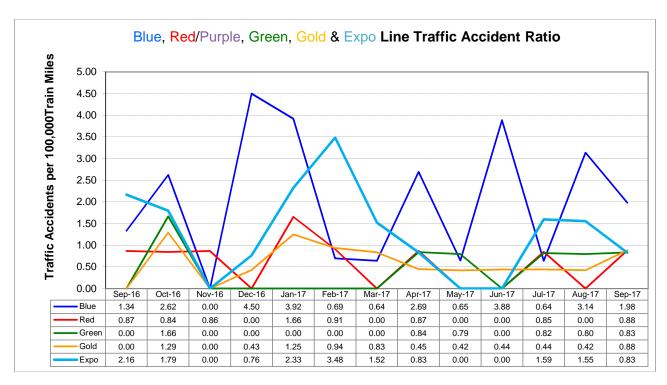


Rail Safety Performance

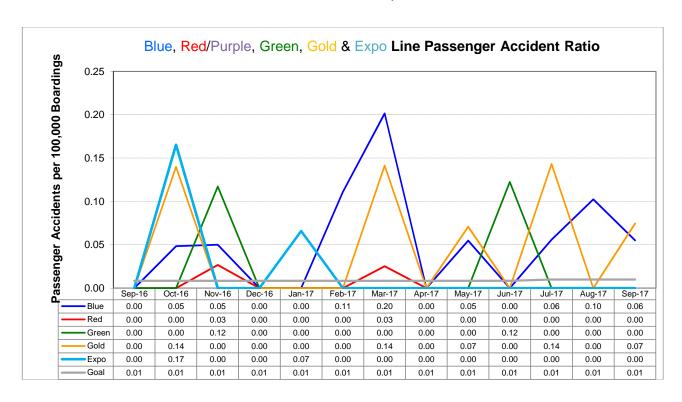
CPUC REPORTABLE ACCIDENTS PER 100,000 TRAIN MILES



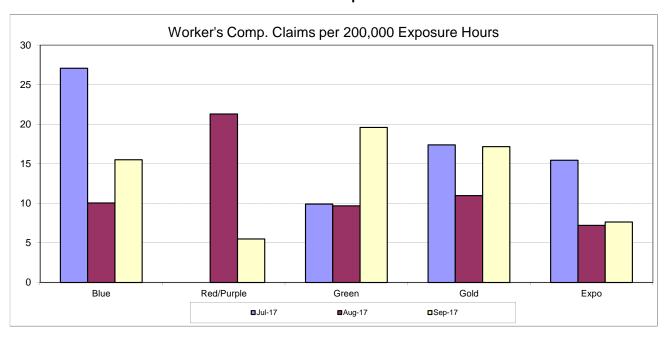
TRAFFIC ACCIDENTS PER 100,000 TRAIN MILES



PASSENGER ACCIDENTS PER 100,000 BOARDINGS

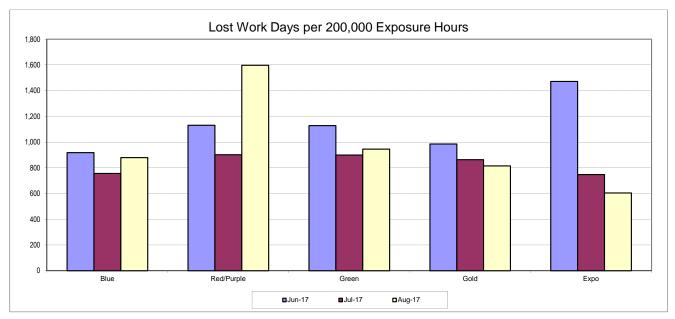


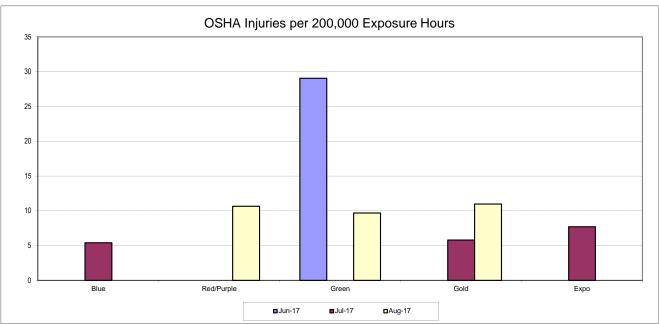
Worker's Comp. Claims Jul 2017 - Sep 2017 3 Month Comparison



Lost Work Days and OSHA Injuries

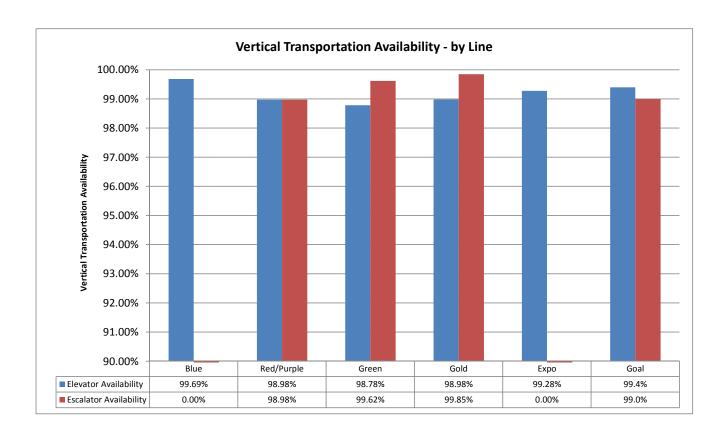
Jun 2017 - Aug 2017 3 Month Comparison





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

Systemwide Vertical Transportation Availability by Line



Note: No Escalators at Blue and Expo Lines

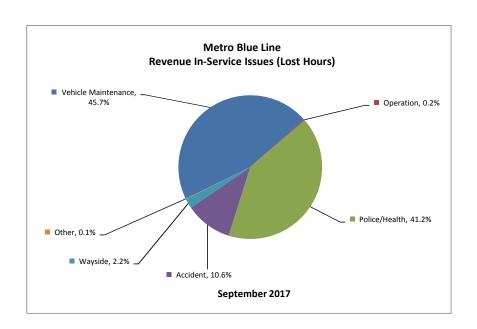
BLUE LINE

Out of a total of 20,374 hours operated, there were approximately 314 total hours of service delays.

	Revenue	
September 2017 Service Hours *	Hours	Percent
Revenue Hours without Delays	20,060	98.5%
Cancelled + Delayed Hours	314	1.5%
Total Revenue Hours	20,374	100.0%

Summary of the major contributors:	Count	Hours	Percent
Operations	4	0.7	0.2%
Accidents	2	33.3	10.6%
Vehicle Maintenance	58	143.4	45.7%
Wayside	5	7.0	2.2%
Police & Health	22	129.4	41.2%
Other	1	0.3	0.1%
Total	92	314.1	100.0%

^{*} Data from M3 used to report Service Delays is under review for accuracy



September 2017 Blue Line major delay contributors were as follows:

Operations Incidents:

9/15/2017 12:44:00 AM - Incident# 2911317 (0 lost trips, 6 lost minutes)

Passenger holding door Compton Station

9/22/2017 2:57:00 PM - Incident# 2914207 (0 lost trips, 10 lost minutes)

Train 121 Late Pull Out

9/25/2017 1:15:00 PM - Incident# 2915052 (0 lost trips, 10 lost minutes)

Due to Single Tracking with a 12 minute headway from Mainyard to Willow Interlocking, Blue Line delays ranging from 5-15 minutes. North and South.

9/25/2017 2:00:00 PM - Incident# 2915078 (0 lost trips, 18 lost minutes)

Operator Late (Single Tracking).

Train 101

T-005

234-244-238

Northbound, Transit Mall Track 1.

Accidents:

9/18/2017 1:42:00 AM - Incident# 2912143 (1 lost trip, 168 lost minutes)

Train 110, car 108A operated by T-490 reports 10-73 with automobile due to illegal left turn at 4th Street and Long Beach.

T-490

TRAIN#110

Cars(108A)-126

Southbound Trk#2

4th/ Long Beach

9/29/2017 8:52:00 AM - Incident# 2916759 (11 lost trips, 1,828 lost minutes)

Train 103 reports accident 10-72

T-115, Train 117

Track 1, Wardlow, North

(1069)-1067-1072

Vehicle Maintenance Incidents:

9/1/2017 8:01:00 PM - Incident# 2906120 (1 lost trip, 166 lost minutes)

Loud noise and vibration under the train

Train # 106

T-353

144-114-103

SB, Firestone Station, Track #2

9/2/2017 7:24:00 AM - Incident# 2906211 (1 lost trip, 163 lost minutes)

Propulsion fault on LRV 141A Speed Restriction.

Train 101

T-335

Pico Station Trk 1 S/B

9/2/2017 7:16:00 PM - Incident# 2906386 (0 lost trips, 5 lost minutes)

Train-111

T-326

Cars (1082)-1078-1068

Southbound, Track #2

Washington Station

Propulsion / Dynamic Brakes unable to clear.

9/3/2017 4:22:00 AM - Incident# 2906433 (0 lost trips, 12 lost minutes)

Operator reports of no movement.

Train 103

T-050

(246)241-231

Del Amo station, Trk. 1, northbound

9/3/2017 4:29:00 AM - Incident# 2908930 (0 lost trips, 8 lost minutes)

Propulsion Faults

Train 104

T-522

(229)-237-302

Willow Station N/B Trk 1

+8 minute delay

9/3/2017 4:48:00 AM - Incident# 2908941 (0 lost trips, 14 lost minutes)

Friction Brake Fault No Movement

Train 102

T-400

(122)-120-167

T-Mall Trk 1 N/B

+14 Service delay

9/3/2017 4:48:00 AM - Incident# 2906434 (0 lost trips, 14 lost minutes)

Operator reports of no movement.

Train 103

T-050

(246)241-231

Del Amo station, Trk. 1, northbound

9/3/2017 3:50:00 PM - Incident# 2906599 (1 lost trip, 137 lost minutes)

Propulsion fault unable to clear. 149A-160

T-308

Train 103

Track 1

Northbound Compton station

9/3/2017 10:01:00 PM - Incident# 2906656 (2 lost trips, 275 lost minutes)

Propulsion fualt no movement. 245-248

T-237

Train 110

Track 1

Northbound

Myrrh xing

9/5/2017 6:41:00 AM - Incident# 2907034 (0 lost trips, 5 lost minutes)

Train 117 pull-out 6 minutes late due to a yard beak down.

9/5/2017 4:17:00 PM - Incident# 2907346 (1 lost trip, 176 lost minutes)

No Fault - No Movement

Train 124

T-549

(1074)-1075-1064

Southbound, Track 2 7th and Metro Center.

9/6/2017 7:05:00 AM - Incident# 2907589 (0 lost trips, 14 lost minutes)

No Fault - No Movement

(1074A)-1075-1064

Train 117

T-115

Firestone, Northbound, Track 1

9/7/2017 4:52:00 AM - Incident# 2908005 (2 lost trips, 336 lost minutes)

Propulsion fault

Train #101 T-182 car#156B-162-152

southbound at Grand station.

9/7/2017 5:04:00 AM - Incident# 2908007 (1 lost trip, 168 lost minutes)

propulsion fault no movement

Train #605 T-026 car #1070-1072-1064

Main Yard northbound lost trip northbound.

9/9/2017 12:56:00 PM - Incident# 2909088 (1 lost trip, 174 lost minutes)

Operator states that there is no power to his train

Train 106

T-233

LRV'S 1060-1063-1074

Mainyard Interlocking, track 2, southbound.

9/10/2017 8:18:00 PM - Incident# 2909420 (0 lost trips, 13 lost minutes)

(237)-231

Propulsion Fault w/ Speed Restriction

NB Wardlow Station

T-353

Train 104

9/10/2017 8:44:00 PM - Incident# 2910257 (1 lost trip, 161 lost minutes)

Propulsion / Dynamic Brakes

Train 104

T-353

(237)-231

Northbound, Track 1 Wardlow station.

9/11/2017 8:10:00 AM - Incident# 2909637 (0 lost trips, 21 lost minutes)

Train Delay due mechanical issues, clearable by vehicle tech M-158.

9/11/2017 11:50:00 AM - Incident# 2909757 (0 lost trips, 10 lost minutes)

Train Delay due to mechanical issues, doors 5/6 Car 139B cut out

9/12/2017 8:25:00 AM - Incident# 2910186 (0 lost trips, 12 lost minutes)

Propulsion / Dynamic Brakes (E7 Codes)

106-110-(148)

Train 105

T-37

Imperia, Northbound, Track 1

9/13/2017 6:58:00 AM - Incident# 2910545 (1 lost trip, 168 lost minutes)

 $Train\ 113\ T-37\ with\ operating\ car\ 234\ 246\ 236\ reports\ propulsion\ faults\ at\ Firestone\ station\ on\ track\ 2.$

9/13/2017 4:08:00 PM - Incident# 2910806 (1 lost trip, 168 lost minutes)

Friction Brakes (Smell of breaks).

Train 106

T-34

(126A)-165-117

Southbound, Track 2 at Florence station.

9/14/2017 5:05:00 PM - Incident# 2911240 (1 lost trip, 168 lost minutes)

Possible part fell off consist (138)(166)(130).

Imperial Station

Train #119, T-43, track #2, southbound.

9/14/2017 5:22:00 PM - Incident# 2911243 (1 lost trip, 168 lost minutes)

Propulsion fault (127A)108, 122.

Compton Station

Train #120, T-487, track #1, northbound

9/14/2017 9:04:00 PM - Incident# 2911286 (0 lost trips, 10 lost minutes)

Train Operator reported loud noises coming from under the Train.

Train 103

T-326

(148)-162

Del Amo Station Northbound Track #1.

9/15/2017 5:01:00 AM - Incident# 2911343 (0 lost trips, 10 lost minutes)

Friction Brakes

Train 101

T-182

(109A)-112-118

Flower Junction, Track 2, Southbound

9/16/2017 7:55:00 AM - Incident# 2911793 (0 lost trips, 6 lost minutes)

Re occurrent propulsion on LRV 117B

Train 109

T-069

LRV'S (117B) 130-166

Artesia Station, track 1, northbound.

9/16/2017 8:23:00 AM - Incident# 2911803 (0 lost trips, 5 lost minutes)

BO headlights LRV 1065B

Train 102

T-281

LRV'S (1065B) 1061-1078

Washington Station, track 2, southbound.

9/16/2017 8:45:00 AM - Incident# 2911799 (0 lost trips, 6 lost minutes)

Train 101 reporting propulsion faults on LRV 114

T-034

LRV'S 131-(114) 159

Willowbrook station, track 1 northbound.

9/18/2017 6:52:00 PM - Incident# 2912539 (3 lost trips, 509 lost minutes)

(247B)-240-245

Misaligned Doors

SB Grand

Train 107

T-487

9/19/2017 6:01:00 AM - Incident# 2912699 (1 lost trip, 174 lost minutes)

Friction Brakes

(238)233-234

Train 114

T-164

Willow, Track 1, Northbound

9/19/2017 1:32:00 PM - Incident# 2912843 (0 lost trips, 16 lost minutes)

No Fault - No Movement

158-123-136

Train 656

T-252

Pico, Southbound, Track 2

9/20/2017 2:58:00 PM - Incident# 2913364 (1 lost trip, 168 lost minutes)

Train 121 had door issue upon pulling out the yard NB at Del Amo.

Train 121

T-82

Tk 1 NB Del Amo

301-245-247

9/20/2017 9:35:00 PM - Incident# 2913459 (2 lost trips, 336 lost minutes)

Doors are not opening with use of (open Doors) push button. The whole consist.

Train 118

T-78

Track 1, N/B

Del Amao Station

(1070A)-1020-1088

9/21/2017 5:37:00 AM - Incident# 2913536 (0 lost trips, 6 lost minutes)

Propulsion / Dynamic Brakes

(112)-122-165

Train 113

T-37

Yard, Southbound, Departure Track

9/21/2017 6:14:00 AM - Incident# 2913556 (1 lost trip, 168 lost minutes)

Propulsion / Dynamic Brakes

(301A)-239-246

Train 114

T-376

Compton, Northbound, Track 1

9/21/2017 8:00:00 AM - Incident# 2913723 (6 lost trips, 1,007 lost minutes)

Other Vehicle System (Dynamic Brake Fault)

(234B)-233-237

Train 102

T-485

Wardlow, Southbound, Track 2

9/21/2017 8:04:00 AM - Incident# 2914140 (0 lost trips, 10 lost minutes)

Propulsion / Dynamic Brakes

T-262

Train 113

LRV 242-238-229

Willow Station, Trackn 1, northbound.

9/21/2017 8:35:00 AM - Incident# 2913619 (6 lost trips, 1,007 lost minutes)

Friction Brakes

(235A)-236-230

Train 119

T-125

Rosecrans Flyover, Southbound, Track 2

9/21/2017 3:55:00 PM - Incident# 2913792 (0 lost trips, 6 lost minutes)

Out Late

Train 126

T-075

236-(229)-234

Yard Limits division 11.

9/22/2017 4:18:00 AM - Incident# 2913963 (0 lost trips, 6 lost minutes)

Loss of Cab Signal Intermettently

Train 101

T-152

(1061A)-1062-1066

Slauson Station, Track 2, Northbound

9/23/2017 12:46:00 PM - Incident# 2914471 (0 lost trips, 8 lost minutes)

Train 111 reporting loss of Cab Signals departing 7th & Metro.

Train 111

T-259

LRV'S (302A)238

7th & Metro, track 2, southbound.

9/25/2017 3:18:00 PM - Incident# 2915097 (1 lost trip, 168 lost minutes)

Propulsion / Dynamic Brakes

Train 119

T-042

(229)-302-242

Southbound, Track 2 Del Amo station.

9/25/2017 9:04:00 PM - Incident# 2915212 (1 lost trip, 176 lost minutes)

Doors

Train 107

T-413

250-246-(248)

Southbound, Track 2 Grand station.

9/25/2017 10:28:00 PM - Incident# 2915233 (1 lost trip, 179 lost minutes)

No Fault - No Movement

Train 605

T-043

1075-1062-1066

Southbound, Track 2 119th crossing.

9/26/2017 6:10:00 AM - Incident# 2915298 (1 lost trip, 175 lost minutes)

Train 604 reports no movement Friction Brakes not releasing.

Train 604

T-005

LRV'S 135-141-153

Del Amo Station, Track 1, northbound.

9/26/2017 3:51:00 PM - Incident# 2915524 (1 lost trip, 176 lost minutes)

Auto Train Protection (Speed Limit)

Train 121

T-043

(1074)-1066-1062

Southbound, Track 2 Washington interlocking.

9/27/2017 8:19:00 AM - Incident# 2915818 (2 lost trips, 336 lost minutes)

Propulsion / Dynamic Brakes/HSCB trip

Train 111

T-36

LRV (166A),153,141

Del Amo Station, Track 1

Northbound

9/27/2017 4:10:00 PM - Incident# 2916022 (1 lost trip, 168 lost minutes)

B/O Doors 7/8

Train 117

Car 248

Pico Station

Southbound

9/27/2017 5:55:00 PM - Incident# 2916072 (1 lost trip, 168 lost minutes)

Propulsion faults

Train 125

Car 112 T-187

Wardlow Station

Northbound

9/28/2017 4:43:00 AM - Incident# 2916166 (2 lost trips, 336 lost minutes)

Train 103 reports reoccuring Propulsion Faults on LRV 106

Train 103

T-050

LRV'S 138 (106) 110

Transit Mall, track 1, Northbound.

9/28/2017 5:10:00 AM - Incident# 2916225 (0 lost trips, 20 lost minutes)

Train 604 reports that train will not move at more than 35mph , no other indications

Train 604

T-005

LRV'S 1090-1070-1065

Del Amo Station, track 1, northbound.

9/28/2017 8:45:00 AM - Incident# 2916296 (2 lost trips, 336 lost minutes)

Train 114 reports that speed can not exceed 35mph on LRV 1090. LRV 1070 Smoking Brakes.

Train 114

T-306

LRV-1090-1070-1065

Compton Station, track 1, northbound.

9/28/2017 9:18:00 AM - Incident# 2916421 (1 lost trip, 168 lost minutes)

Train 105 contacted control that doors will not open at Slauson Station track 2.

Train 105

T-076

LRV'S 1066-1062-1077

Slauson Station, track 2, southbound.

9/29/2017 3:51:00 AM - Incident# 2916657 (0 lost trips, 12 lost minutes)

Prop/Fault.

Train #102.

T-246.

LRV- (124), 140, 110.

4N Mainyard, Northbound.

9/29/2017 4:52:00 AM - Incident# 2916671 (0 lost trips, 11 lost minutes)

No Indication/ No Movement.

Train #107.

T-069.

LRV- 1066, 1062, 1077.

3N Mainyard, Northbound for Imperial Turn- Back.

9/29/2017 3:28:00 PM - Incident# 2916918 (1 lost trip, 166 lost minutes)

HSCB trip 235(250)234.

Metro Center

Train #104, T-005, track #2, southbound.

9/29/2017 3:47:00 PM - Incident# 2916930 (0 lost trips, 6 lost minutes)

Friction brakes feel slack (301)233,231.

Washington Station

Train #121, T-353, track #2, southbound.

Wayside Incidents:

9/1/2017 4:50:00 PM - Incident# 2906071 (0 lost trips, 50 lost minutes)

False Occupancy from Compton to Willow.

9/8/2017 9:41:00 AM - Incident# 2908623 (0 lost trips, 12 lost minutes)

False Occupancy from Compton-Artesia

9/18/2017 3:37:00 PM - Incident# 2912508 (0 lost trips, 15 lost minutes)

Train 121 Delayed

9/19/2017 4:14:00 AM - Incident# 2912622 (2 lost trips, 336 lost minutes)

Traction Power: Other

Willow Pocket graphics give apperance of de-engerized tracks, Wardlow TPSS is back feeding Willow Pocket.

9/21/2017 2:45:00 PM - Incident# 2913761 (0 lost trips, 6 lost minutes)

OUT LATE! due to open breaker.

Police & Health Incidents:

9/1/2017 12:53:00 PM - Incident# 2905928 (6 lost trips, 997 lost minutes)

Stabbing on train # 103 at Anaheim Station.

Train # 103

T-548

Anaheim, track #1, northbound

1082 1070 1078

9/2/2017 10:34:00 PM - Incident# 2906408 (0 lost trips, 15 lost minutes)

Train-104

T-149

Cars (301)-248-245

Northbound, Track #1

Imperial Station

Altercation aboard train, LASD reports a fight aboard the train.

9/4/2017 1:02:00 PM - Incident# 2906782 (0 lost trips, 10 lost minutes)

Traffic Accident MTA Not Involved at Washington and Naomi Track 2

9/5/2017 10:59:00 AM - Incident# 2907181 (0 lost trips, 22 lost minutes)

Vehicle with broken Axle blocking track at 119th Street crossing.

9/5/2017 11:00:00 AM - Incident# 2907223 (0 lost trips, 6 lost minutes)

Train 105 reports a Sick patron on board at Metro Center

9/5/2017 10:21:00 PM - Incident# 2907447 (0 lost trips, 20 lost minutes)

Sick individual Train 101

T-376

Cars 117-(119)

WillowbrooK station N/B

9/6/2017 9:14:00 AM - Incident# 2907680 (23 lost trips, 3,859 lost minutes)

Stabbing adjcent to Pico Station

9/6/2017 3:10:00 PM - Incident# 2907829 (0 lost trips, 8 lost minutes)

Train-107

T-355

Cars (100)-143-113

Southbound Track #2

Imperial Station

Sick Individual reported on approach to 103rd Station.

9/7/2017 1:00:00 PM - Incident# 2908231 (1 lost trip, 180 lost minutes)

Traffic accident at 5th Street and Long Beach, MTA not involved.

Train # 119

T-355

5th Street Station, track #1, southbound

1075 1086 1077

9/7/2017 4:05:00 PM - Incident# 2908302 (1 lost trip, 174 lost minutes)

Long Beach PD notified CCTV to hold train # 108 at Warlow Station for (4) juveniles of an (alledged) robbery at Transit Mall. Train departed prior to hold, proceeding to Del Amo Station.

Train #108

Del Amo Station, track #1, northbound

169 168 162

9/7/2017 4:41:00 PM - Incident# 2908319 (6 lost trips, 1,007 lost minutes)

Blockade at Pacific and 3rd in Long Beach.

9/8/2017 7:10:00 AM - Incident# 2908550 (0 lost trips, 5 lost minutes)

Train 109 arrived Transit Mall Station 5 minutes late due to a tractor trailer blocking intersection of long beach and broadway.

9/9/2017 5:07:00 AM - Incident# 2908973 (0 lost trips, 4 lost minutes)

 $R\mbox{-}105$ reports a sick patron on board train 103, platform number 2.

9/9/2017 7:32:00 PM - Incident# 2909171 (0 lost trips, 7 lost minutes)

Train-103

T-490

Cars (237A)-231-235

Southbound Track #2

Transit Mall

Emergency: Operator reports Patron lying on the floor in the floor in car 237, non responsive and requested medical.

9/11/2017 2:45:00 PM - Incident# 2909834 (0 lost trips, 14 lost minutes)

Trespasser

Train 102

T-05

139-111-140

Nouthbound, Track 2 119th crossing.

9/13/2017 5:34:00 AM - Incident# 2910494 (6 lost trips, 1,026 lost minutes)

Train service suspended between Grand and San Pedro stations due to armed/Barricaded individual at Washington /Santee. Per LAPD Lt. Humphries.

9/15/2017 4:15:00 PM - Incident# 2912533 (2 lost trips, 344 lost minutes)

Physical Altercation On Board Train Train 107, T-355 Cars 136-113-116

Willowbrook Station, SB, Trk 2

9/16/2017 11:08:00 PM - Incident# 2911947 (0 lost trips, 15 lost minutes)

Male Individual fell onto tracks

PCH Station

LBPD LBFD

Dispatch #7389

No information was obtained from individual

9/16/2017 11:46:00 PM - Incident# 2911949 (0 lost trips, 15 lost minutes)

Car blocking Track 1

Flower Junction

9/17/2017 5:14:00 AM - Incident# 2911979 (0 lost trips, 10 lost minutes)

Trespasser Sitting on Track 1

Willow Pocket Mile Marker 18.2

9/20/2017 2:40:00 PM - Incident# 2913326 (0 lost trips, 12 lost minutes)

Train 101 reports a patron is having a seizure NB at San Pedro.

9/23/2017 11:03:00 AM - Incident# 2914459 (0 lost trips, 12 lost minutes)

Train 105 reports that track 2 was blocked at Washington Blvd & Naomi Street due to a traffic accident MTA not involved.

Other Incidents:

9/3/2017 1:34:00 PM - Incident# 2906550 (0 lost trips, 20 lost minutes)

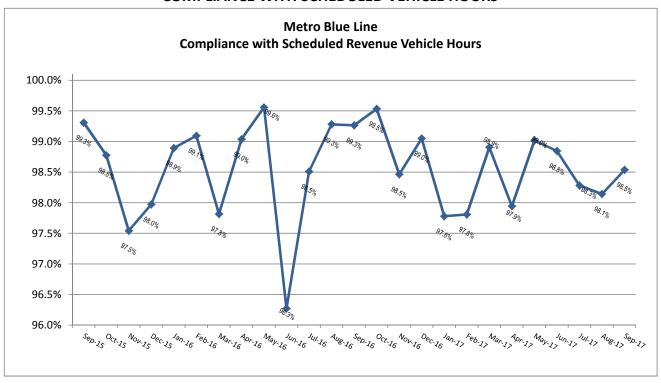
Individual holding doors at Metro Center and then at Grand Train 110 T259 1063A-1074 Track 2

Southbound

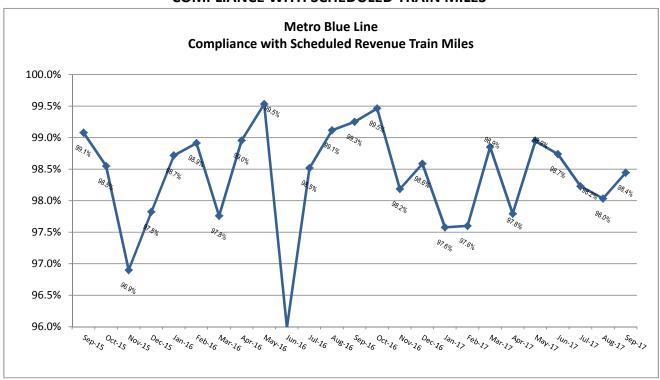
metro center and then Grand

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

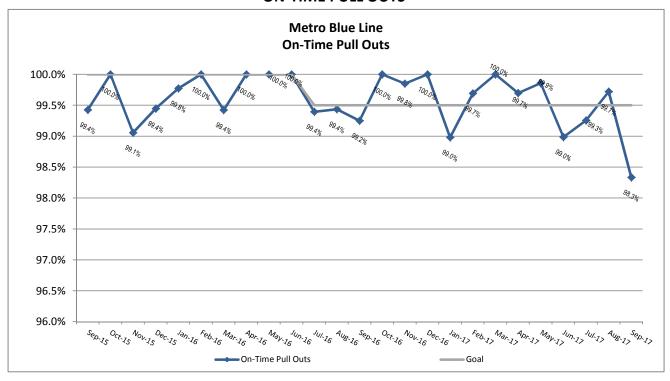
COMPLIANCE WITH SCHEDULED VEHICLE HOURS



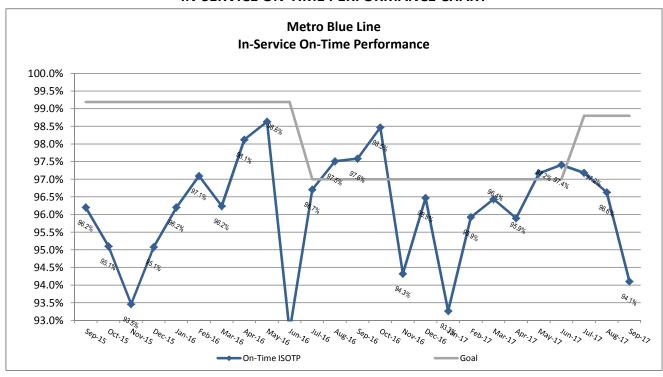
COMPLIANCE WITH SCHEDULED TRAIN MILES



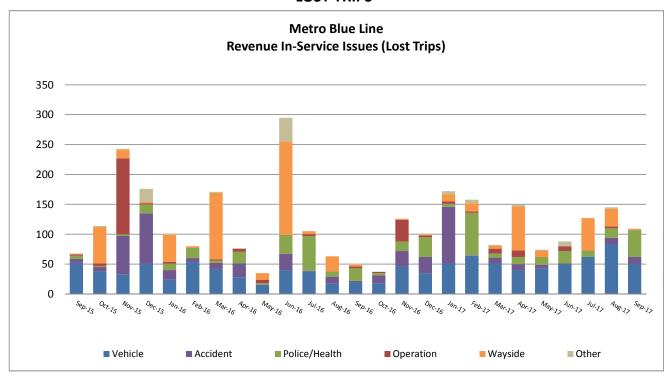
ON-TIME PULL OUTS



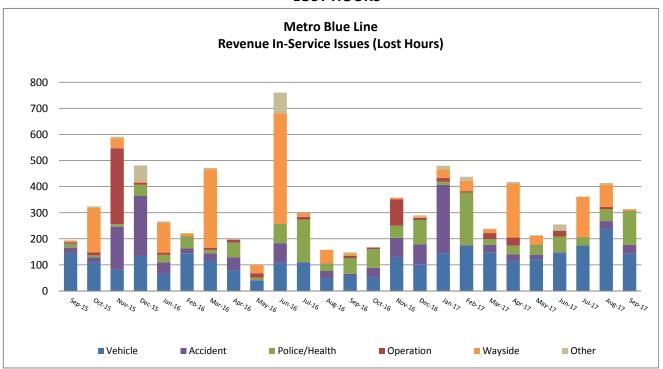
IN-SERVICE ON-TIME PERFORMANCE CHART



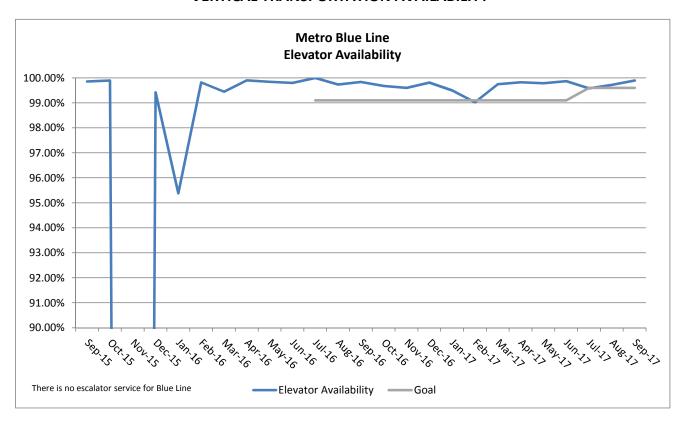
LOST TRIPS



LOST HOURS



VERTICAL TRANSPORTATION AVAILABILITY



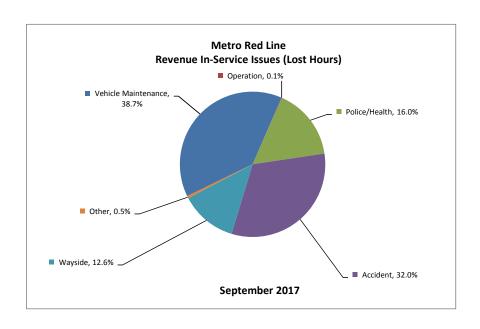
RED LINE

Out of a total of 26,248 hours operated, there were approximately 86 total hours of service delays.

	Revenue	
September 2017 Service Hours *	Hours	Percent
Revenue Hours without Delays	26,162	99.7%
Cancelled + Delayed Hours	86	0.3%
Total Revenue Hours	26,248	100.0%

Summary of the major contributors:	Count	Hours	Percent
Operations	1	0.1	0.1%
Accidents	1	27.4	32.0%
Vehicle Maintenance	13	33.2	38.7%
Wayside	4	10.8	12.6%
Police & Health	8	13.7	16.0%
Other	2	0.4	0.5%
Total	29	85.7	100.0%

^{*} Data from M3 used to report Service Delays is under review for accuracy



September 2017 Red Line major delay contributors were as follows:

Operations Incidents:

9/19/2017 6:04:00 PM - Incident# 2912956 (0 lost trips, 5 lost minutes)

Union Station operator removed from service due to observing several mice inside the operators break room.

Accidents:

9/12/2017 9:43:00 AM - Incident# 2910138 (11 lost trips, 1,647 lost minutes)

Train vs. Trepasser

Train #201

Train operator T-364

Cars (547), 548, 589,590

7th & Metro, AR, Westbound

Vehicle Maintenance Incidents:

9/1/2017 7:43:00 AM - Incident# 2905782 (0 lost trips, 10 lost minutes)

No movement at Westlake AL East

Train 211

T-276

Cars 565-566-547-(548)-591-592

Westlake MacArthur AL East

9/3/2017 7:08:00 PM - Incident# 2906634 (2 lost trips, 232 lost minutes)

Off set wheels car # 536

Union Station AL East

T-64 Train 202

Car # 589-593-535-(536)

9/7/2017 3:26:00 PM - Incident# 2908316 (1 lost trip, 190 lost minutes)

No Movement with no indications.

Train #213

Cars #(549)-550-565-566-581-582

W/Bound Vermont Santa Monica A/R Track.

9/10/2017 4:12:00 AM - Incident# 2909224 (0 lost trips, 9 lost minutes)

Propulsion/Service Brake Failure train line, unknown car.

Train # 202

T-10

Union Station, AR, westbound

(599 600 563 564 535 536)

9/13/2017 4:52:00 AM - Incident# 2910486 (0 lost trips, 11 lost minutes)

North Hollywood East IL(departing station), Train-210 T-101 cars 568/567/586/585/590/589 ATP failure with emergency brake applications on car 568.

9/13/2017 1:28:00 PM - Incident# 2910731 (0 lost trips, 12 lost minutes)

Train 207 reports brakes will not release

T-378, Train 207

AL, East, UC

(586)-585-590-589

9/15/2017 6:29:00 AM - Incident# 2911400 (1 lost trip, 151 lost minutes)

MTO Generator Breaker Tripped

Train 210

T-483

Cars 575-576-5597-598-565-(566)

Civic Center AL East

9/18/2017 9:59:00 AM - Incident# 2912295 (0 lost trips, 11 lost minutes)

Emergency Brake Application

Train 204

T-080

Cars 523-528-515-(516)

North Hollywood AR East

9/18/2017 4:25:00 PM - Incident# 2912506 (2 lost trips, 299 lost minutes)

CB1 Trip

Train 206

T-271

Cars 517-518-529)-520

Wilshire Western BR East

9/19/2017 1:25:00 PM - Incident# 2912832 (0 lost trips, 5 lost minutes)

Service Brake Failure Indication.

Train #203

T-022

Cars #563-(564)-587-588.

W/Bound Union Station A/R Track.

9/25/2017 5:43:00 PM - Incident# 2915175 (2 lost trips, 299 lost minutes)

Propulsion failure

Train 214

T-179

Cars 503-504-501-(502)-519-526

Universal City AL East

9/26/2017 8:26:00 AM - Incident# 2915361 (3 lost trips, 464 lost minutes)

Westlake/MacArthur AL Track, Train-202 T-10 cars 508/509/510/507 experiencing door issues from car 510 and cut out whole car. NOTE: repeat offender two days in row with same RFS failure.

9/27/2017 5:16:00 AM - Incident# 2915715 (2 lost trips, 299 lost minutes)

Union Station AR Track, Train-203 T-314 cars 515/516/501/502 with Emergency Brake Application and won't clear on car 515.

Wayside Incidents:

9/4/2017 4:54:00 AM - Incident# 2906690 (4 lost trips, 464 lost minutes)

DO1 breakers at Universal & North Hollywood tripped causing a loss of power between Universal & North Hollywood on the both tracks.

9/6/2017 1:00:00 AM - Incident# 2907496 (0 lost trips, 25 lost minutes)

Unable to close D02 at Westlake.

9/20/2017 8:49:00 PM - Incident# 2913451 (1 lost trip, 149 lost minutes)

W-004/Hayward Baker performing tunnel grouting with high rail vehicle.

9/22/2017 3:59:00 PM - Incident# 2914229 (0 lost trips, 11 lost minutes)

TRACS indicates breakers opened with D01 in LKTRP.

Police & Health Incidents:

9/2/2017 10:32:00 PM - Incident# 2906159 (0 lost trips, 7 lost minutes)

T-199 on train 215 at Hollywood Western, train doors were being held open due to a male hispanic acting eratic. Train was also held at Hollywood Vine and Hollywood Highland. All revenue trains delayed and departing late.

9/9/2017 8:55:00 AM - Incident# 2909028 (0 lost trips, 7 lost minutes)

Operator reports LAPD is holding train at 7th Metro for a passenger needs medical assistance, LAPD has already placed a call to LAFD. Unknown nature of emergency.

9/17/2017 12:34:00 PM - Incident# 2912044 (0 lost trips, 12 lost minutes)

T-179 Train 207 trespasser in the cab of car570.

9/24/2017 12:58:00 PM - Incident# 2914662 (0 lost trips, 8 lost minutes)

CCTV reports patron having a seizure on board train 202, car 572 at North Hollywood.

9/24/2017 2:04:00 PM - Incident# 2914685 (3 lost trips, 467 lost minutes)

Male patron observed on the AR right of way between Pershing Square and 7th/Metro

9/27/2017 1:30:00 PM - Incident# 2915952 (0 lost trips, 8 lost minutes)

Patron slipped and fell on baoard Train 205 car 565.

9/28/2017 8:25:00 AM - Incident# 2916288 (1 lost trip, 165 lost minutes)

Train 203 reports trespasser at Civic AL

9/28/2017 6:57:00 PM - Incident# 2916579 (1 lost trip, 150 lost minutes)

Westlake Station male patron throwing debris onto the right of way.

Other Incidents:

9/21/2017 11:48:00 AM - Incident# 2913698 (0 lost trips, 15 lost minutes)

 ${\it SCADA/TRACS: ATC\ Alarm\ for\ de-energized\ track\ indication,\ loss\ of\ cab\ signals}$

Train 201 and train 205

Vermont Beverly AR track

Hollywood vine AR track

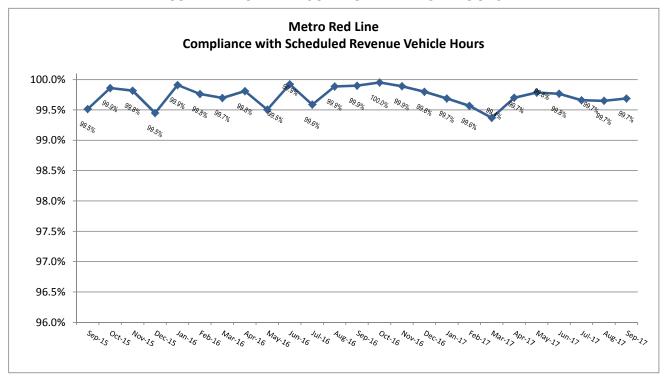
9/27/2017 5:01:00 PM - Incident# 2916059 (0 lost trips, 10 lost minutes)

Reports patron refuse to exit train. T-172 Train 215

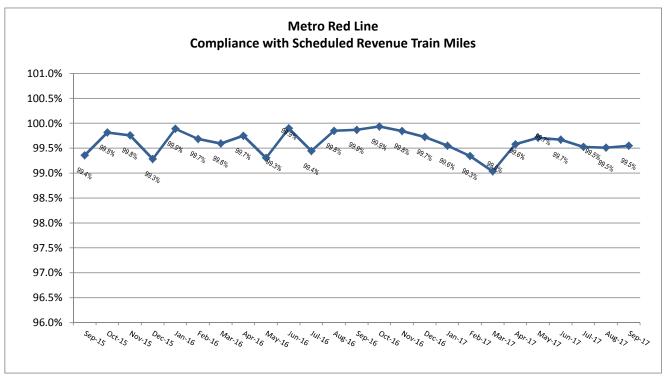
Union Station, AL, Westbound Cars: 553 554 577 578 (539) 540

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

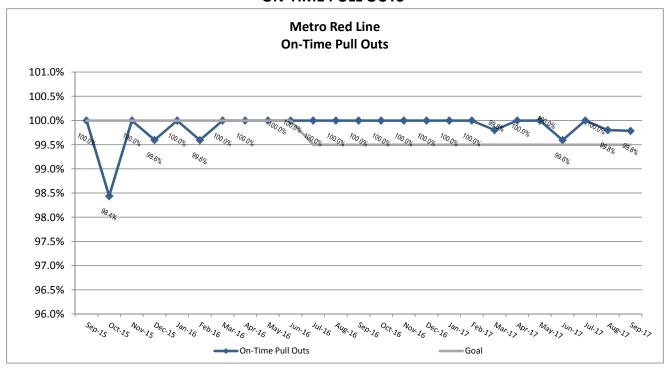
COMPLIANCE WITH SCHEDULED VEHICLE HOURS



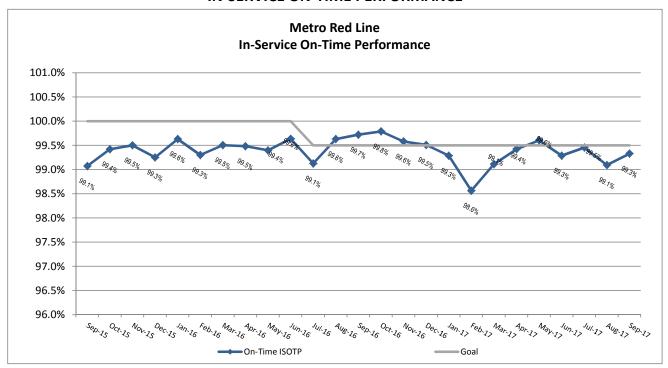
COMPLIANCE WITH SCHEDULED TRAIN MILES



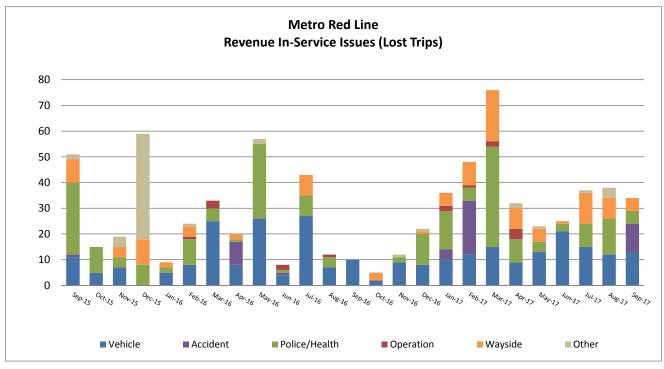
ON-TIME PULL OUTS



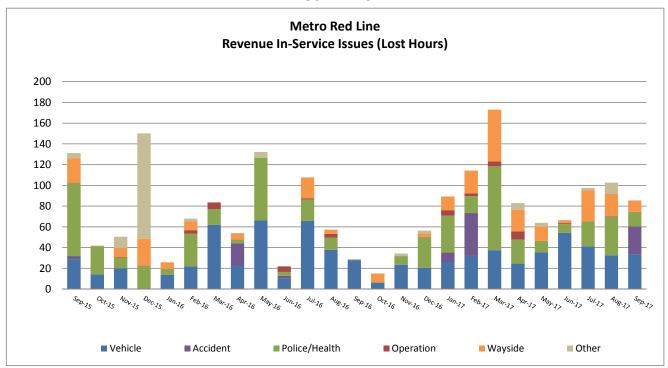
IN-SERVICE ON-TIME PERFORMANCE



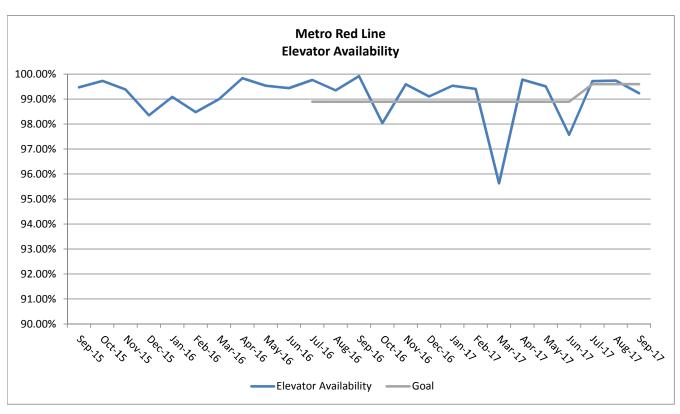
LOST TRIPS

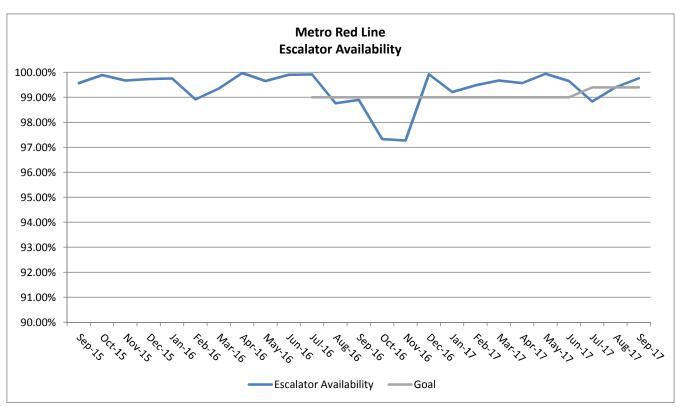


LOST TRIPS



VERTICAL TRANSPORTATION AVAILABILITY





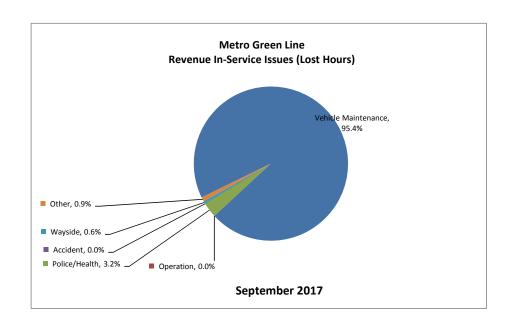
GREEN LINE

Out of a total of 8,045 hours operated, there were approximately 26 total hours of service delays.

	Kevenue	
September 2017 Service Hours *	Hours	Percent
Revenue Hours without Delays	8,019	99.7%
Cancelled + Delayed Hours	26	0.3%
Total Revenue Hours	8,045	100.0%

Summary of the major contributors:	Count	Hours	Percent
Operations	0	0.0	0.0%
Accidents	0	0.0	0.0%
Vehicle Maintenance	23	24.4	95.4%
Wayside	2	0.2	0.6%
Police & Health	5	0.8	3.2%
Other	1	0.2	0.9%
Total	31	25.6	100.0%

^{*} Data from M3 used to report Service Delays is under review for accuracy



September 2017 Green Line major delay contributors were as follows:

Operations Incidents:

Vehicle Maintenance Incidents:

9/2/2017 1:01:00 PM - Incident# 2906289 (1 lost trip, 60 lost minutes)

Train 332 car 203 has a propulsion speed restriction.

9/2/2017 3:40:00 PM - Incident# 2906314 (0 lost trips, 5 lost minutes)

Train 333 Car 224B developed a propulsion/speed restriction, fault is persistent unable to clear.

9/5/2017 3:31:00 PM - Incident# 2907324 (3 lost trips, 205 lost minutes)

Friction Brakes self applied, no movement on car (206).

Train # 344

T-344

Norwalk, track # 1, westbound

(206) 244

9/6/2017 6:36:00 PM - Incident# 2907905 (0 lost trips, 8 lost minutes)

Propulsion faults. No movement.

Train 335

T-450

Norwalk Station

Track 1, W/B

ATO mode

(216A)-208

9/7/2017 4:03:00 PM - Incident# 2908304 (1 lost trip, 66 lost minutes)

Train 346 Car 206B developed a no movement fault at Lakewood Station.

9/12/2017 7:58:00 AM - Incident# 2910086 (1 lost trip, 66 lost minutes)

Air leak on car (210).

Train # 337

T-210

Norwalk, track #1, westbound

218 (210)

9/13/2017 2:36:00 PM - Incident# 2910797 (0 lost trips, 11 lost minutes)

Recurring loss of cab signaling.

Train #343

T-085

Cars #207-(201-B).

E/Bound Yard Interface Track-2.

9/15/2017 5:51:00 AM - Incident# 2911359 (1 lost trip, 75 lost minutes)

Friction Brake Fault

Train 336

T-40

(208A)-225

Yard Interface.

Cancelled trip

9/15/2017 9:23:00 AM - Incident# 2911451 (0 lost trips, 14 lost minutes)

Propulsion and speed restrictiuon in Car 203 Train 331.

9/15/2017 4:03:00 PM - Incident# 2911631 (0 lost trips, 4 lost minutes)

Train 336 206 doors 7&8 not closing completely, caused brakes not to release. Operator cut out the doors and friction brake cleared.

9/17/2017 9:22:00 AM - Incident# 2912006 (0 lost trips, 5 lost minutes)

Train 331 Car 225A developed a propulsion fault with a speed restriction .

9/18/2017 4:52:00 AM - Incident# 2912152 (2 lost trips, 138 lost minutes)

Train Operator T-269 reports unsafe spin slide, not allowing the train to come to a stop without using track

brakes.

Train 334 T-269

Cars (205)-226

West of Crenshaw Station, Track 2, eastbound

9/18/2017 4:25:00 PM - Incident# 2912504 (1 lost trip, 66 lost minutes)

Train 342 Car 221 developed an ATP fault.

9/19/2017 7:10:00 PM - Incident# 2912962 (4 lost trips, 263 lost minutes)

Train 344, LRV's 208 and (215B)

Long Beach Station, Track 2 eastbound.

Friction brakes locked in car 215.

9/22/2017 4:26:00 AM - Incident# 2915330 (1 lost trip, 79 lost minutes)

Car 221A loss of proper speed code, 9 MPH only

Train 333

T-40

Eastbound track 2 approaching Douglas Station

Consist 221-206

9/23/2017 2:05:00 PM - Incident# 2914487 (0 lost trips, 10 lost minutes)

Train 335 Car 215 operator reports smoke coming out from car 215.

9/24/2017 4:54:00 AM - Incident# 2914592 (0 lost trips, 8 lost minutes)

Operator T-274 reports no movement.

Train 331

T-274

Cars (207B)-217

Marine Station, Track 2, Eastbound

9/24/2017 1:55:00 PM - Incident# 2914672 (0 lost trips, 10 lost minutes)

Train 332 Car 206 has propulsion and speed restriction.

9/26/2017 8:12:00 AM - Incident# 2915348 (0 lost trips, 10 lost minutes)

Train 337 reports propulsion faults on 243A

T-183, Train 337

Track 1, Avalon, West

(243A)-209

9/27/2017 6:27:00 AM - Incident# 2915731 (2 lost trips, 142 lost minutes)

Train 340 car 208 unable to gain cab signals

Douglas Track 2

T-193

Car # 217-(208)

9/27/2017 3:18:00 PM - Incident# 2916000 (2 lost trips, 145 lost minutes)

Report of friction brake won't release, no movement.

T-140

Train-346

Car (205)-219

Yard interface track 1 west bound.

9/29/2017 8:00:00 AM - Incident# 2916744 (1 lost trip, 64 lost minutes)

Train 337 Car 211/205 developed a friction brake, T-020 is unable to clear.

9/30/2017 11:20:00 AM - Incident# 2917107 (0 lost trips, 10 lost minutes)

Train 112 entered Mainline to test propulsion and brakes, with cars 205 and 209.

Wayside Incidents:

9/4/2017 5:40:00 AM - Incident# 2906693 (0 lost trips, 5 lost minutes)

Track Circuit 257 at Marine Station developed a false occupancy, trains had routing but no cab signals.

9/9/2017 4:30:00 PM - Incident# 2909111 (0 lost trips, 4 lost minutes)

False occupancy at the Yard Interface Track Circuit 13 and 19.

Police & Health Incidents:

9/22/2017 8:23:00 PM - Incident# 2914315 (0 lost trips, 7 lost minutes)

Train Operator reported that a Passenger requested Medical Attention at Norwalk Station Westbound Track #1.

Train 342

T-117 (217A)-212

Norwalk Station Track #1.

9/23/2017 3:41:00 AM - Incident# 2914361 (0 lost trips, 10 lost minutes)

Train 341 with a Sick Individual (seizure) onboard LRV 211 at Lakewood Station.

9/25/2017 11:06:00 AM - Incident# 2914983 (0 lost trips, 10 lost minutes)

LASD Carbajal requested that Train 336 hold at Long Beach Station.

9/29/2017 8:19:00 AM - Incident# 2916742 (0 lost trips, 11 lost minutes)

Train 333 Car 216 LASD requested a hold on Train due to a passenger was observed making threats with a knife.

9/30/2017 4:17:00 PM - Incident# 2917171 (0 lost trips, 10 lost minutes)

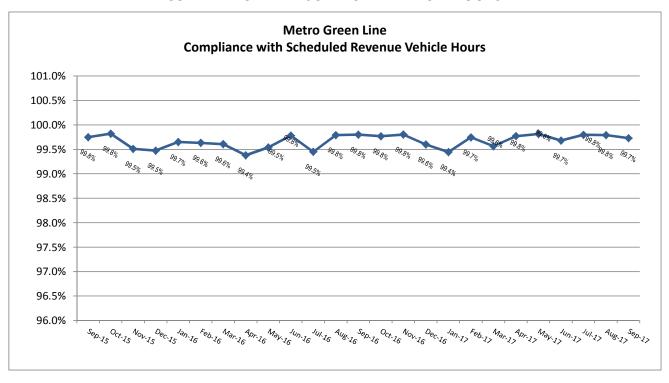
LASD Espinoza informed Control of a passenger onboard Train 336 with a hand gun.

Other Incidents:

9/16/2017 5:07:00 PM - Incident# 2911905 (0 lost trips, 14 lost minutes)
Train 335 Car 225A has Vomit.

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

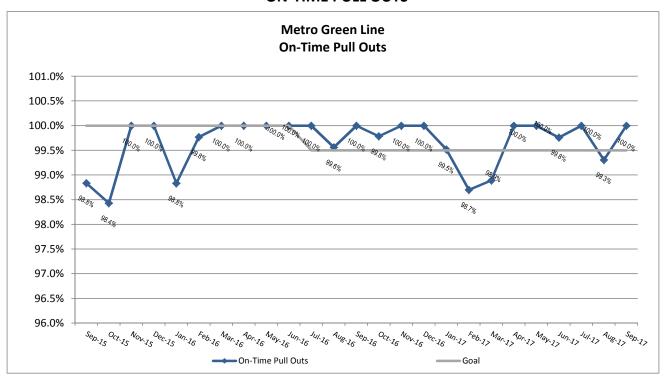
COMPLIANCE WITH SCHEDULED VEHICLE HOURS



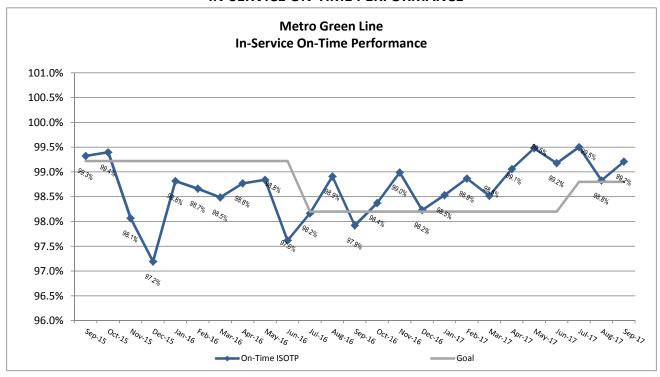
COMPLIANCE WITH SCHEDULED TRAIN MILES



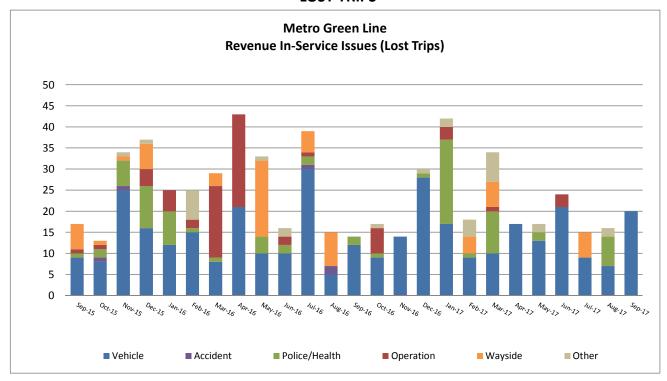
ON-TIME PULL OUTS



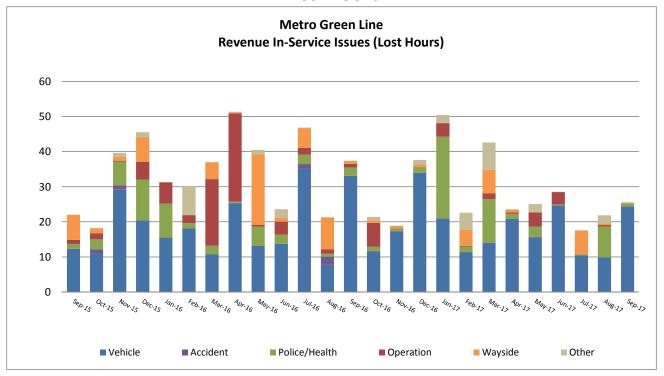
IN-SERVICE ON-TIME PERFORMANCE



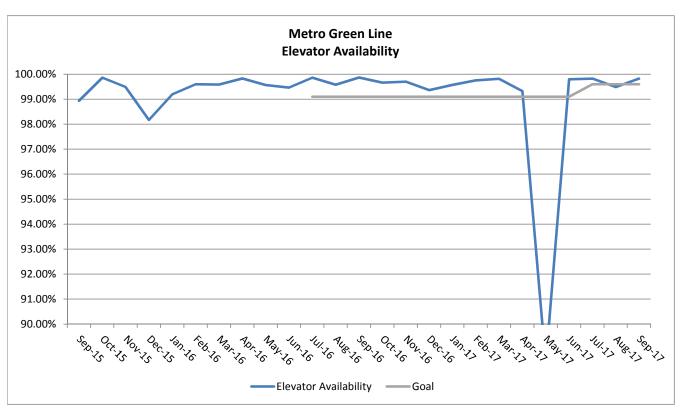
LOST TRIPS

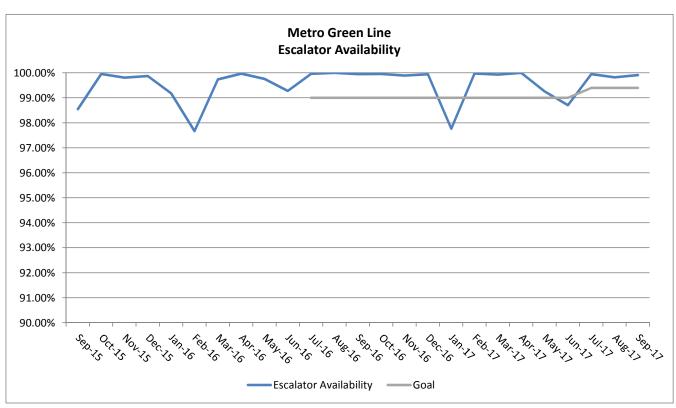


LOST HOURS



VERTICAL TRANSPORTATION AVAILABILITY





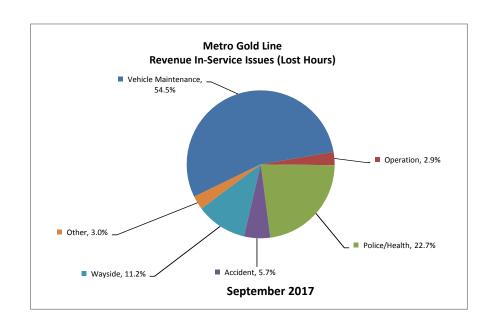
GOLD LINE

Out of a total of 20,296 hours operated, there were approximately 148 total hours of service delays.

	Revenue		
September 2017 Service Hours *	Hours	Percent	
Revenue Hours without Delays	20,148	99.3%	
Cancelled + Delayed Hours	148	0.7%	
Total Revenue Hours	20,296	100.0%	

Summary of the major contributors:	Count	Hours	Percent
Operations	2	4.3	2.9%
Accidents	3	8.4	5.7%
Vehicle Maintenance	25	80.6	54.5%
Wayside	2	16.5	11.2%
Police & Health	8	33.6	22.7%
Other	3	4.4	3.0%
Total	43	147.8	100.0%

^{*} Data from M3 used to report Service Delays is under review for accuracy



September 2017 Gold Line major delay contributors were as follows:

Operations Incidents:

9/15/2017 6:47:00 AM - Incident# 2911382 (1 lost trip, 248 lost minutes)

Train 414

T-154

Cars (748A)-735-715

Northbound Track #1

Del Mar Station

4270 Bypassing Stations Authorization

Train Operators shall not bypass stations unless authorized by

Control.

9/23/2017 5:45:00 AM - Incident# 2914378 (0 lost trips, 7 lost minutes)

Train Delay, (718B)-723

Train #401

T-216

Azusa/Citrus Station

Accidents:

9/5/2017 11:25:00 PM - Incident# 2907463 (1 lost trip, 247 lost minutes)

Door closure on passenger, car 723 doors A7/A8.

Train 426

T-480

Consist 726a-723-725

Duarte Station, Track 2 SB

9/8/2017 7:47:00 PM - Incident# 2908899 (0 lost trips, 10 lost minutes)

Patron Fell Onto Track 1 at Del Mar Station

9/22/2017 7:47:00 AM - Incident# 2914030 (1 lost trip, 249 lost minutes)

Auto vs. Train, Cars #(746B)-731

Train #413

T-018

3rd and La Verne, Track #002, Southbound.

Vehicle Maintenance Incidents:

9/5/2017 4:24:00 AM - Incident# 2906936 (0 lost trips, 7 lost minutes)

Reports of ATP failure

Train#401

T-216

(726B)-740

Maravilla Station, Track #1, NB

9/5/2017 5:39:00 AM - Incident# 2906943 (1 lost trip, 247 lost minutes)

Reports of HVAC

Train #413

T-158 (750B)-717

Monrovia Station, Track #2, SB

9/6/2017 2:42:00 PM - Incident# 2907810 (0 lost trips, 5 lost minutes)

Doors, 735-(718B 7/8)

Train #433

T-063

Atlantic Station, Track #001, Northbound.

9/7/2017 6:55:00 AM - Incident# 2908047 (0 lost trips, 7 lost minutes)

Reports of cab signal failure

Train # 411

T-301

738-742-(721)

Arcadia Station, Track #1, NB

9/7/2017 3:09:00 PM - Incident# 2908277 (0 lost trips, 10 lost minutes)

Door problem consist 1/2, 3/4 (713)5/6, 7/8(749).

South Pasadena Station

Train #403, T-92, track #2, southbound.

9/8/2017 10:40:00 AM - Incident# 2908657 (0 lost trips, 3 lost minutes)

Heating / Air Conditioning

Train 407 T-178

LRV (736),744

APU Station

Track 2, Southbound

9/8/2017 8:05:00 PM - Incident# 2908916 (1 lost trip, 244 lost minutes)

(730)-748-737

Propulsion Fault/Speed Restriction

SB Allen

T-151

Train 424

9/10/2017 2:43:00 AM - Incident# 2909210 (1 lost trip, 224 lost minutes)

Door Jam/ Train move with door open 3 and 4 $\,$

Train 409

T-251

Cars 1006 (1013a)

NB, Irwindale Station, Track 1

9/11/2017 10:40:00 AM - Incident# 2909683 (0 lost trips, 12 lost minutes)

HSCB Trip LRV 710

T-11

Train 454

LRV 710/703

Indiana Staion, track 1, northbound.

9/11/2017 12:34:00 PM - Incident# 2909759 (1 lost trip, 248 lost minutes)

Doors not closing LRV 1006

T-301

Train 401

LRV 1006-1013

Soto Station, Track 1, northbound.

9/11/2017 8:43:00 PM - Incident# 2909934 (1 lost trip, 245 lost minutes)

T-63 reports multiple faults on Train 429, cars 736, 735, 715, Track 1, Sierra Madre Station, Northbound. Speed code of 10 mph.

9/14/2017 12:51:00 PM - Incident# 2911142 (0 lost trips, 17 lost minutes)

Auto Train Protection (Speed Limit) 1059A

T-304

Train 406

LRV 1005-(1059)

South Pasadena Station, Track 1, northbound.

9/16/2017 11:13:00 AM - Incident# 2911823 (1 lost trip, 312 lost minutes)

1009 loses cab signal at every station

Train 413

T-301 and T-8

Lake Station and APU

1009-1007

9/16/2017 3:59:00 PM - Incident# 2911894 (0 lost trips, 12 lost minutes)

Cars 721-724 propulsion fault/speed restriction.

T-466

Train 408

Cars 732-(721-724)

Monrovia Station, Track 2, southbound.

9/18/2017 5:46:00 AM - Incident# 2912206 (4 lost trips, 984 lost minutes)

Reports door problem.

Train # 455

T-36

(703B)-709

Civic Center Station, Track #1, NB

9/18/2017 7:54:00 PM - Incident# 2912554 (1 lost trip, 252 lost minutes)

Train 424 (cars 727-740) reports ATP fault on lead car 727. Duarte Station, Track 2, Southbound. Speed code of 35 mph.

9/18/2017 9:56:00 PM - Incident# 2912575 (0 lost trips, 8 lost minutes)

T-347 reports speed restriction of 10 mph on Train 422 (cars 748, 735) on lead car 735B, APU/Citrus, Track 2, Southbound

9/21/2017 6:04:00 AM - Incident# 2913570 (0 lost trips, 7 lost minutes)

Reports of LVPS fault

Train #421

T-159

(720)-715-745

Azusa Station, Track #2, SB

9/25/2017 5:15:00 PM - Incident# 2915165 (1 lost trip, 244 lost minutes)

Train 405 (739-727), T-452, Soto Station, track 1 reports speed restriction operating out of car 727.

9/26/2017 4:03:00 PM - Incident# 2915534 (1 lost trip, 256 lost minutes)

Operator reports of ATP failure at Cirus station

Train 441

T-251

(748A)729-744

Citrus Station, Trk. 2, southbound

9/27/2017 5:16:00 AM - Incident# 2915664 (0 lost trips, 7 lost minutes)

ATP failure

Train 411

T-216

Track 1 north Allen

734 (748)

9/27/2017 8:22:00 AM - Incident# 2915783 (3 lost trips, 736 lost minutes)

No movement

Train 419

T-196

Track 2 south Irwindale.

1006 (1011)

9/29/2017 6:40:00 PM - Incident# 2916978 (0 lost trips, 7 lost minutes)

Train with no speed code

Train 426

T-92

Cars (1058b),1013

NB, Track 1, Atlantic Station

9/29/2017 10:47:00 PM - Incident# 2917029 (3 lost trips, 731 lost minutes)

Friction Brakes fault car (724b)

T-283

Train 403

SB, Track 2, Duarte Station

Cars 715, (724b)

9/30/2017 7:58:00 PM - Incident# 2917214 (0 lost trips, 10 lost minutes)

(731)-720-744

Propulsion Fault/Speed Restriction

SB Allen Station

T-250 Train 403

Wayside Incidents:

9/1/2017 10:24:00 AM - Incident# 2905882 (4 lost trips, 984 lost minutes)

AC Breaker: Open at the Irwindale TPSS.

9/14/2017 7:04:00 AM - Incident# 2910990 (0 lost trips, 7 lost minutes)

ARINC SUMMARY ALARM indicates "cut section (mission) Data Link Failure" creating false occupancy at on track circuit 478-2/456-2

Police & Health Incidents:

9/4/2017 7:24:00 PM - Incident# 2906854 (0 lost trips, 6 lost minutes)

Vomit on cars (730)(741).

Citrus Station

Train #402, T-430, track #1, northbound.

9/4/2017 8:21:00 PM - Incident# 2906865 (0 lost trips, 6 lost minutes)

Patron reports individual on board consist possibly with a weapon.

Allen Station

Train #407, T-480, track #1, northbound.

Consist 1006(1008).

9/16/2017 1:38:00 AM - Incident# 2911747 (0 lost trips, 10 lost minutes)

Train 404 reported a vehicle struck on Track #1 at Highland Ave Grade Crossing.

Train 40 T-482

717-722

Duarte Station Track #1 Northbound

9/17/2017 6:11:00 AM - Incident# 2911980 (0 lost trips, 14 lost minutes)

Train 405 reports a blockage track #1 Downey Road and 3rd. MTA not invovled.

9/18/2017 5:15:00 PM - Incident# 2912525 (0 lost trips, 5 lost minutes)

Trespasser reported by CCTV R-440 at Downtown Azusa on track 2 side.

9/29/2017 8:08:00 PM - Incident# 2916998 (0 lost trips, 7 lost minutes)

Sick Individual on board train 429

Train 429

Cars (1059a),1011,1006

NB, Track 1, Mariachi Station

9/29/2017 8:08:00 PM - Incident# 2917004 (0 lost trips, 10 lost minutes)

Patron on board the train request medical attention

Train 453

T-223

Cars (703a),709

SB, Track 2, Little Tokyo Station

9/30/2017 4:24:00 AM - Incident# 2917048 (6 lost trips, 1,958 lost minutes)

Assault, cars #(730B)-722-714

Train #401

T-077

East Los Angeles Civic Center, Track #001, Northbound.

Other Incidents:

9/6/2017 6:56:00 AM - Incident# 2907611 (0 lost trips, 8 lost minutes)

Passenger preventing doors from clossing, cars #(723A)-725-726

Train #416

T-134

Indiana Station, Track #002, Southbound

9/6/2017 7:30:00 PM - Incident# 2907915 (1 lost trip, 251 lost minutes)

Feces in car 1058.

Train 434

T-215

Consist 1058-1007-1056

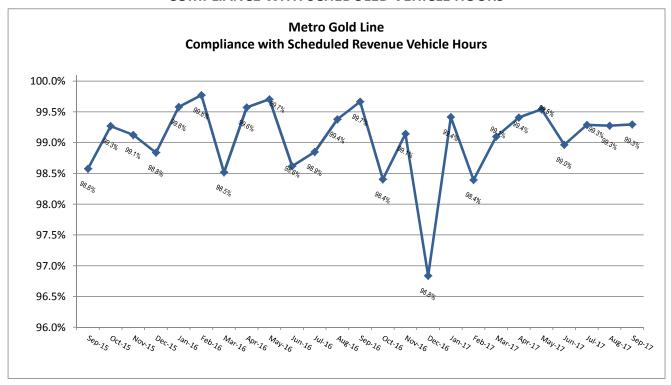
Figueroa Box Track 1 NB

9/14/2017 3:09:00 PM - Incident# 2911238 (0 lost trips, 5 lost minutes)

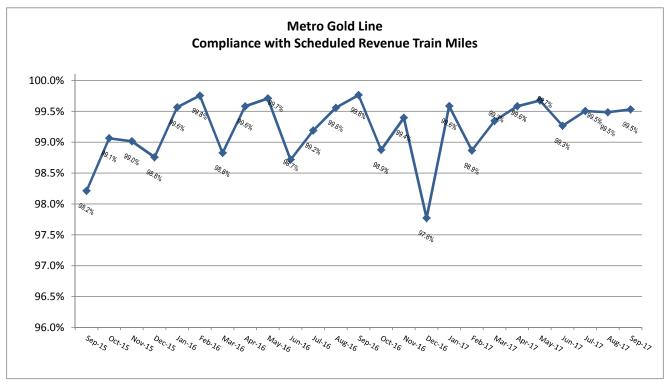
T-250 signed on late with a Miss-out assigned. Train Operator Alphas were bumped at APU/Citrus heading southbound. Trains obtained detail of 5 mins southbound.

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

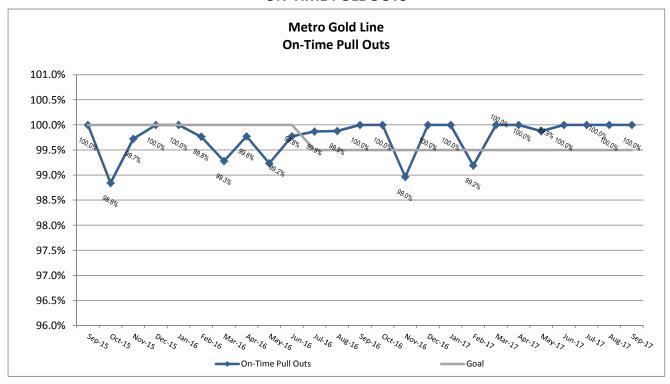
COMPLIANCE WITH SCHEDULED VEHICLE HOURS



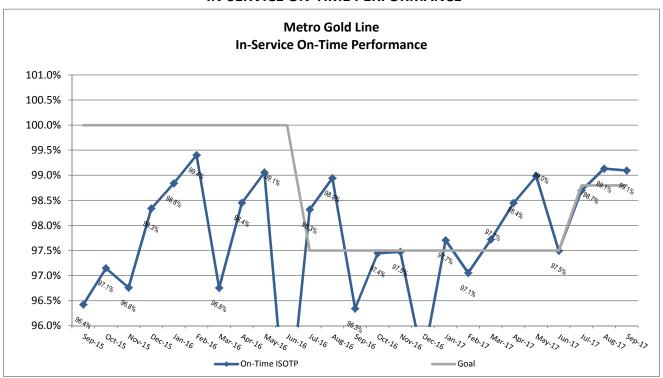
COMPLIANCE WITH SCHEDULED TRAIN MILES



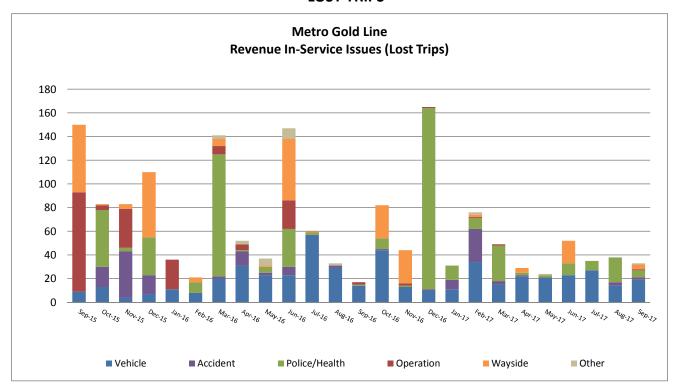
ON-TIME PULL OUTS



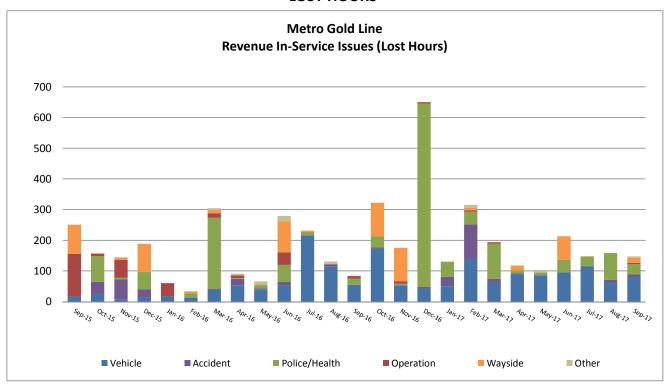
IN-SERVICE ON-TIME PERFORMANCE



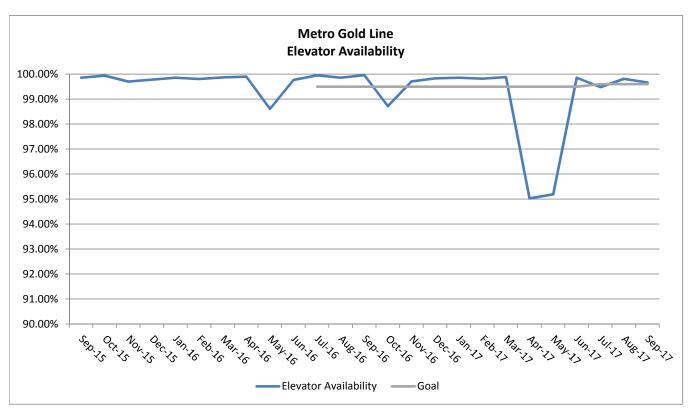
LOST TRIPS

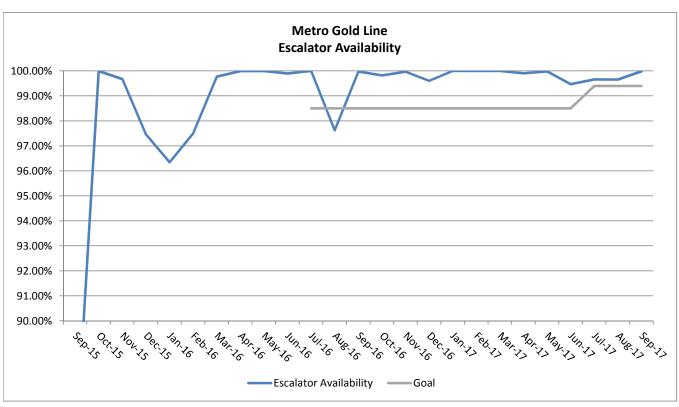


LOST HOURS



VERTICAL TRANSPORTATION AVAILABILITY





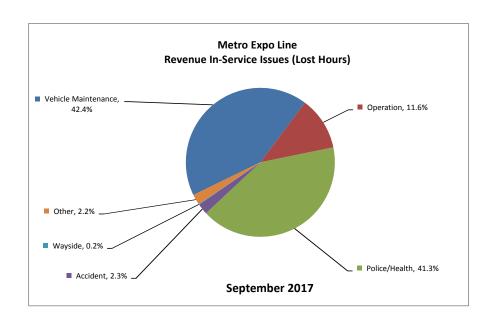
EXPO LINE

Out of a total of 21,874 hours operated, there were approximately 105 total hours of service delays.

	Revenue	
September 2017 Service Hours *	Hours	Percent
Revenue Hours without Delays	21,769	99.5%
Cancelled + Delayed Hours	105	0.5%
Total Revenue Hours	21,874	100.0%

Summary of the major contributors:	Count	Hours	Percent
Operations	3	12.1	11.6%
Accidents	1	2.5	2.3%
Vehicle Maintenance	20	44.5	42.4%
Wayside	1	0.2	0.2%
Police & Health	6	43.3	41.3%
Other	1	2.4	2.2%
Total	32	104.8	100.0%

^{*} Data from M3 used to report Service Delays is under review for accuracy



September 2017 Expo Line major delay contributors were as follows:

Operations Incidents:

9/8/2017 6:08:00 PM - Incident# 2908861 (0 lost trips, 11 lost minutes)

Train 651

T-180

Cars (1039)-1046-1030

Northbound, Track #3

Santa Monica Station

Eleven minute delay in service due to 10-100.

9/16/2017 5:50:00 AM - Incident# 2911771 (0 lost trips, 12 lost minutes)

Train Delay due to Train 658 with no movement Re: M3# 2911772

9/19/2017 1:56:00 PM - Incident# 2912885 (5 lost trips, 705 lost minutes)

In reference to M3# 2912845 Expo had delays due to disabled expo train at Pico SB.

Accidents:

9/15/2017 1:27:00 PM - Incident# 2911574 (1 lost trip, 147 lost minutes)

Train vs. automobile at 14th/Colorado.

Train # 603

T-180

14th/Colorado, track #3/northbound

(1071A) 1067 1072

Vehicle Maintenance Incidents:

9/1/2017 4:22:00 AM - Incident# 2905807 (0 lost trips, 17 lost minutes)

Train 658 reports no movements.

Train 658

T-543

Cars(1022)-1016-1023

South of LaCienega Station, Track 3, Northbound

9/1/2017 4:33:00 PM - Incident# 2906063 (1 lost trip, 141 lost minutes)

Train-605

T-380

Cars (117B)-152-159

Northbound, Track #3

Culver City Station

Friction Brakes reported burning smell.

9/2/2017 10:48:00 AM - Incident# 2906263 (0 lost trips, 7 lost minutes)

Propulsion / Dynamic Brakes

Train 656

T-510

(1054)-1030-1046

Northbound, Track 3 Santa Monica.

9/3/2017 4:38:00 AM - Incident# 2906432 (0 lost trips, 22 lost minutes)

Yard Control R-190 reports Train 659 pulled out 16 minutes late due to multiple consists exchanges due to breakdowns in the Expo Yard.

9/3/2017 7:15:00 PM - Incident# 2906638 (1 lost trip, 141 lost minutes)

(1049)-1026-1032

Friction Brake/Air Loss/No Movement

SB Jefferson

T-455

Train 655

9/7/2017 11:25:00 AM - Incident# 2908190 (0 lost trips, 5 lost minutes)

Train with no movement Over speed unable to switch from cab to street run.

Train #601 T-135 Car#137A-118-123

southbound at 23rd street station.

9/8/2017 9:13:00 AM - Incident# 2908615 (0 lost trips, 5 lost minutes)

Train 660 reporting doors will not closed on LRV 126

T-545

LRV'S 102-(126)-109

Jefferson Station, track 4, southbound.

9/11/2017 11:24:00 AM - Incident# 2909695 (1 lost trip, 146 lost minutes)

Train with air leak no movement at Sepulveda

Train #653 T-313 1050-1003-1035

NB @Sepulveda Station

9/11/2017 7:15:00 PM - Incident# 2909922 (1 lost trip, 141 lost minutes)

(1022b)-1037-1033

Propulsion Fault w/ Speed Restriction

SB Sepulveda

T-536

Train 672

9/13/2017 8:08:00 AM - Incident# 2912229 (1 lost trip, 141 lost minutes)

Low Air Pressure No Movement

Train 664

Train Operator T-534

Cars (159A), 146, 114

Venice Interlocking, Track 2, Southbound

9/15/2017 3:29:00 PM - Incident# 2911619 (2 lost trips, 294 lost minutes)

Self applying brakes on car (301B).

Train #655

T-449

La Cienega Station, track #4, southbound

(301B) 302 231

9/16/2017 5:50:00 AM - Incident# 2911772 (6 lost trips, 858 lost minutes)

Train 658 reports no movement with HSCB

Train 658

T-417

LRV'S (1003) 1050-1034

Pico Station, Track 1, Northbound

9/18/2017 5:05:00 AM - Incident# 2912155 (1 lost trip, 161 lost minutes)

Operator reports of no movement.

T-472

Train#658

Cars(1023B)-1022-1035

Washington/Flower Junction

Southbound Trk#4

9/18/2017 3:30:00 PM - Incident# 2912479 (1 lost trip, 141 lost minutes)

Train 653 reports doors will not open.

T-541

Tk 3 NB La Cienega

1025-1026-1016

9/19/2017 7:26:00 AM - Incident# 2912705 (0 lost trips, 8 lost minutes)

Operator reports of no movement.

T-459

Train #653

Cars(1029A)-1052-1054

Santa Monica St.

Northbound Trk#4

9/21/2017 2:53:00 PM - Incident# 2913766 (0 lost trips, 10 lost minutes)

Train 652 departed minus 10 minutes, northbound from Santa Monica Station. The operator conducted a local-off to clear propulsion

faults at 7th and Metro-southbound.

Train#652

T#546

1043,1048

1043,10

Track#3,Northbound,Santa Monica Station

9/22/2017 10:18:00 PM - Incident# 2914342 (0 lost trips, 9 lost minutes)

Self Applying Brakes

Train #672, T-514

1038-1044-1053

7th and Metro Center Station

9/25/2017 3:10:00 PM - Incident# 2915094 (1 lost trip, 141 lost minutes)

RFS Called to advise about performing a ground inspection on train 666

9/29/2017 4:36:00 AM - Incident# 2916666 (1 lost trip, 141 lost minutes)

Operator reports of train shaking and braking.

Train#660

Cars(155)-121-102

La Cienega, Trk 3

Northbound

9/30/2017 11:35:00 PM - Incident# 2917230 (1 lost trip, 141 lost minutes)

Train Operator reported Friction Brake Fault on car 1038A. It was determined that an air leak on car 1022 caused the problem.

1038-1071-1022

Westwood Station Northbound Track #3

Wayside Incidents:

9/25/2017 3:16:00 PM - Incident# 2915129 (0 lost trips, 10 lost minutes)

Train 669 was delayed due to switch 5 at Signal 8N being out of correspondence

T-133

Expo Yard, Trk. 3, northbound

Police & Health Incidents:

9/2/2017 10:55:00 PM - Incident# 2906410 (0 lost trips, 10 lost minutes)

Physical alteration

Train 693

T-243

Cars (151)-125-104

Santa Monica station tk3

9/4/2017 8:17:00 PM - Incident# 2906862 (1 lost trip, 141 lost minutes)

Individual was assaulted. T-541 reports blood on the train

Train652

T-541

Track 3

Northbound

Crenshaw station

9/8/2017 7:03:00 AM - Incident# 2908555 (1 lost trip, 168 lost minutes)

Field Supervisor S-61 R-110 reports a slip and fall on board Train 605 car 234.

Train 605

T-123

Cars 250-234-244

Sepulveda Station, Track 3, Northbound

9/13/2017 5:35:00 AM - Incident# 2910533 (0 lost trips, 20 lost minutes)

Train delay due to police activity at Washington and Santee. Ref: M3# 2,910,494.

9/13/2017 8:32:00 AM - Incident# 2910832 (8 lost trips, 1,128 lost minutes)

Due to Downtown incident M3# 2910494 4 trains were turned back SB from 23rd street station.

9/13/2017 9:37:00 AM - Incident# 2910840 (8 lost trips, 1,128 lost minutes)

Due to earlier incident M3# 2910494 some trains trips had to be canceled.

Other Incidents:

9/21/2017 4:04:00 PM - Incident# 2913829 (1 lost trip, 141 lost minutes)

Emergency 10-100.

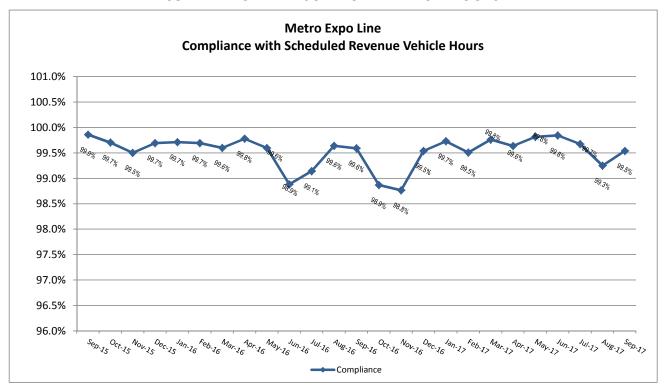
Train#673

1028,1036,1033

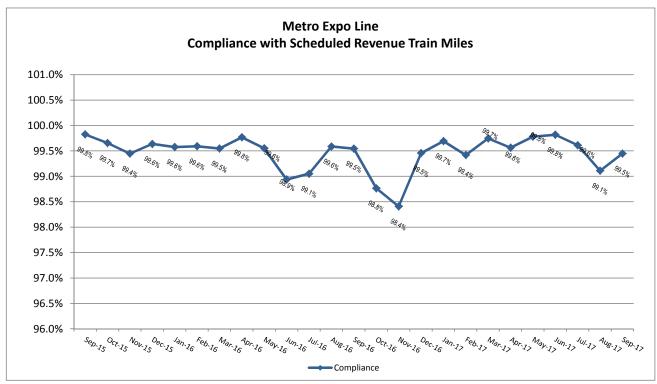
8N Bundy, Northbound

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

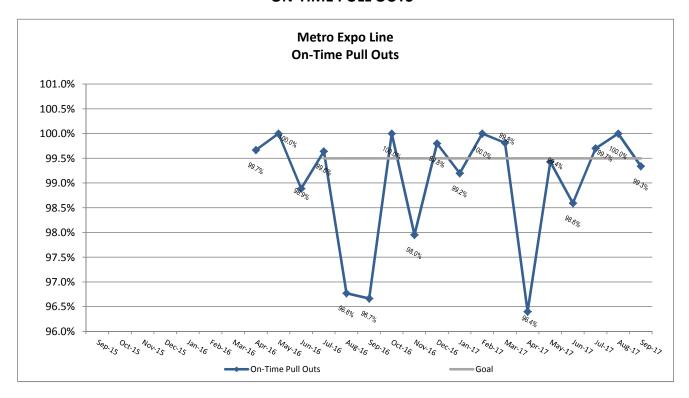
COMPLIANCE WITH SCHEDULED VEHICLE HOURS



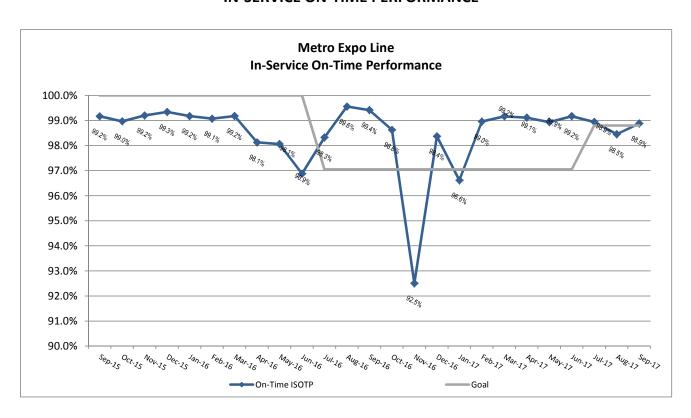
COMPLIANCE WITH SCHEDULED TRAIN MILES



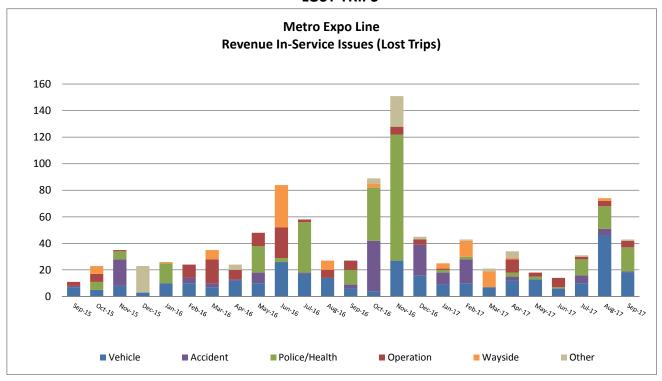
ON-TIME PULL OUTS



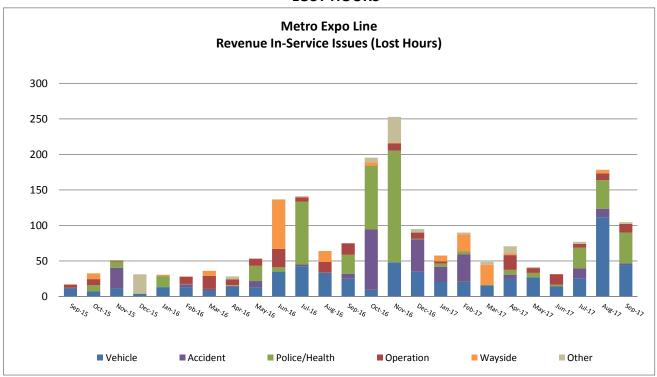
IN-SERVICE ON-TIME PERFORMANCE



LOST TRIPS



LOST HOURS



VERTICAL TRANSPORTATION AVAILABILITY

