

Los Angeles County
Metropolitan Transportation Authority
California

OPERATIONS MONTHLY RAIL PERFORMANCE REPORT

OCTOBER 2016



METRO RAIL PERFORMANCE – OCTOBER 2016

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Metro Rail Scorecard Overview

Metro operates heavy rail, the Red and Purple Lines, from Union Station to North Hollywood and Union Station to Wilshire/Western. Data for Red and Purple lines are reported under Metro Red line in this report.

Metro also operates four light rail lines: Blue Line from Downtown to Long Beach, Green Line along the 105 freeway, Gold Line from Azusa to East Los Angeles, and Expo Line from Los Angeles to Santa Monica.

Metro Rail is responsible for the operation of approximately 104 heavy rail cars and 203 light rail cars carrying nearly 110 million passengers each year.

Also included in this report are Key Performance Indicators for Wayside, which is in the process of being developed.

Measurement	FY 2014	FY 2015	FY 2016	FY 2017 Target	FY 2017 YTD	FYTD Status	Aug Month	Sep Month	Oct Month
Systemwide									
On-Time Pullouts	99.55%	99.67%	99.63%	99.50%	99.66%	●	99.43%	99.47%	99.96%
Mean Miles Between Chargeable Mechanical Failures	28,829	34,524	30,482	27,911	28,053	●	30,440	28,862	34,320
In-Service On-time Performance	97.92%	98.39%	98.10%	98.00%	98.62%	●	99.04%	98.52%	98.67%
Service Delivery Ratio	99.12%	99.35%	99.22%	99.25%	99.34%	●	99.53%	99.57%	99.21%
Traffic Accidents Per 100,000 Train Miles	1.47	1.18	1.17	0.00	1.20	●	1.35	0.71	1.63
CPUC Reportable Accidents per 100,000 Train Miles	0.10	0.43	0.60	0.67	0.41	●	0.54	0.28	0.54
Passenger Accidents per 100,000 Boardings	0.025	0.013	0.016	0.009	0.026	●	0.020	0.000	0.053
Complaints per 100,000 Boardings	0.91	0.78	1.43	1.12	2.02	●	2.08	1.95	1.86
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours ^{1,2}	15.35	11.11	10.97	10.42	11.65	●	9.45	8.90	14.24
Lost Work Days per 200,000 Exposure Hours ^{1,2}	861	880	482	458.16	747	●	747	961	-
OSHA Injuries per 200,000 Exposure Hours ^{1,2}	8.18	6.68	6.32	6.00	7.17	●	5.67	5.93	-
Wayside									
Overdue Work Orders	174	355	1,279	N/A	1,893	N/A	371	481	732
Overdue Preventive Maintenance Work Orders	0	5	162	N/A	673	N/A	125	203	202
Completed Inspections %	99.41%	99.51%	99.57%	N/A	99.47%	N/A	100.00%	99.27%	98.74%
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	9.28	9.07	4.77	4.53	4.94	●	3.66	8.11	7.89
Lost Work Days per 200,000 Exposure Hours ¹	179	309	148	141	62	●	10	130	-
OSHA Injuries per 200,000 Exposure Hours ¹	6.31	8.28	4.40	4.18	3.96	●	3.66	4.06	-
Blue Line									
On-Time Pullouts	99.37%	99.41%	99.59%	99.50%	99.52%	●	99.44%	99.25%	100.00%
Mean Miles Between Chargeable Mechanical Failures	18,731	23,716	19,240	19,572	16,363	●	14,730	15,526	20,992
In-Service On-time Performance	95.84%	97.28%	96.10%	97.00%	97.57%	●	97.51%	97.59%	98.47%
Service Delivery Ratio	98.36%	98.88%	98.41%	98.46%	99.01%	●	99.22%	99.22%	99.15%
Traffic Accidents Per 100,000 Train Miles	2.97	2.48	2.38	0.00	2.28	●	3.19	1.34	2.62
CPUC Reportable Accidents per 100,000 Train Miles	0.00	0.89	1.39	1.34	0.81	●	1.28	0.67	0.66
Passenger Accidents per 100,000 Boardings	0.058	0.034	0.016	0.006	0.035	●	0.000	0.000	0.048
Complaints per 100,000 Boardings	1.10	0.90	1.33	1.09	1.56	●	1.76	1.84	1.50
New Workers' Compensation Indemnity Claims per	17.46	15.10	15.08	15.58	16.41	●	17.94	5.38	15.51
Lost Work Days per 200,000 Exposure Hours ¹	990	1,622	797	786	971	●	1,182	998	-
OSHA Injuries per 200,000 Exposure Hours ¹	5.71	10.64	6.79	9.58	9.30	●	11.96	5.38	-

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.

● 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%.

Measurement	FY 2014	FY 2015	FY 2016	FY 2017 Target	FY 2017 YTD	FYTD Status	Aug Month	Sep Month	Oct Month
Red Line									
On-Time Pullouts	99.72%	99.91%	99.79%	99.50%	100.00%	●	100.00%	100.00%	100.00%
Mean Miles Between Chargeable Mechanical Failures	63,099	85,090	94,312	112,652	101,108	●	87,317	81,557	296,934
In-Service On-time Performance	98.91%	99.13%	99.45%	99.50%	99.57%	●	99.63%	99.72%	99.79%
Service Delivery Ratio	99.57%	99.60%	99.71%	99.71%	99.80%	●	99.79%	99.89%	99.94%
Traffic Accidents Per 100,000 Train Miles	1.01	0.47	0.75	0.00	0.64	●	0.00	0.87	0.84
CPUC Reportable Accidents per 100,000 Train Miles	0.00	0.07	0.07	0.60	0.00	●	0.00	0.00	0.00
Passenger Accidents per 100,000 Boardings	0.006	0.002	0.002	0.003	0.000	●	0.000	0.000	0.000
Complaints per 100,000 Boardings	0.60	0.54	0.57	0.56	0.86	●	0.72	0.86	0.91
New Workers' Compensation Indemnity Claims per	20.22	6.20	16.43	13.29	13.04	●	13.01	11.06	21.04
*Lost Work Days per 200,000 Exposure Hours	927	649	526	556	1,244	●	958	1,889	-
*OSHA Injuries per 200,000 Exposure Hours	11.79	3.54	7.99	6.55	6.00	●	6.51	11.06	-

Green Line									
On-Time Pullouts	99.69%	99.32%	99.49%	99.50%	99.83%	●	99.56%	100.00%	99.78%
Mean Miles Between Chargeable Mechanical Failures	19,513	21,054	19,238	19,911	18,809	●	21,187	18,497	18,831
In-Service On-time Performance	97.85%	97.39%	98.52%	98.20%	98.35%	●	98.91%	97.92%	98.37%
Service Delivery Ratio	99.57%	99.50%	99.59%	99.62%	99.60%	●	99.73%	99.52%	99.73%
Traffic Accidents Per 100,000 Train Miles	0.49	0.21	0.42	0.00	1.04	●	1.61	0.00	1.66
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	0.082	●	0.204	0.000	0.000
Complaints per 100,000 Boardings	1.15	0.88	1.53	1.30	2.29	●	1.63	2.04	2.58
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	16.51	7.32	7.18	9.27	7.79	●	11.80	0.00	0.00
*Lost Work Days per 200,000 Exposure Hours	1,299	479	228	195	1,110	●	1,591	1,208	-
*OSHA Injuries per 200,000 Exposure Hours	11.30	4.07	3.19	2.34	7.08	●	0.00	0.00	-

Gold Line									
On-Time Pullouts	99.56%	99.98%	99.68%	99.50%	99.94%	●	99.88%	100.00%	100.00%
Mean Miles Between Chargeable Mechanical Failures	45,894	44,171	40,426	51,665	28,750	●	38,914	40,000	30,271
In-Service On-time Performance	98.03%	98.56%	97.60%	97.50%	97.78%	●	98.94%	96.34%	97.45%
Service Delivery Ratio	99.03%	99.34%	99.11%	99.16%	99.01%	●	99.35%	99.55%	98.35%
Traffic Accidents Per 100,000 Train Miles	1.03	1.14	0.99	0.00	0.64	●	0.42	0.00	1.29
CPUC Reportable Accidents per 100,000 Train Miles	0.00	0.30	0.60	0.50	0.21	●	0.42	0.00	0.43
Passenger Accidents per 100,000 Boardings	0.052	0.007	0.039	0.035	0.035	●	0.000	0.000	0.140
Complaints per 100,000 Boardings	1.04	1.01	2.73	2.26	2.99	●	3.26	2.72	2.73
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	14.98	15.96	11.87	12.20	16.38	●	17.47	10.81	15.86
*Lost Work Days per 200,000 Exposure Hours	1,460	1,068	766	808	1,342	●	1,620	1,529	-
*OSHA Injuries per 200,000 Exposure Hours	9.12	3.83	9.29	10.07	9.20	●	11.64	0.00	-

Expo Line									
On-Time Pullouts	-	-	99.53%	99.50%	98.28%	●	96.77%	96.67%	100.00%
Mean Miles Between Chargeable Mechanical Failures	-	-	18,114	19,572	24,721	●	35,667	25,499	31,499
In-Service On-time Performance	98.70%	99.14%	98.61%	97.05%	98.99%	●	99.56%	99.41%	98.63%
Service Delivery Ratio	99.45%	99.64%	99.56%	99.65%	99.26%	●	99.61%	99.50%	98.84%
Traffic Accidents Per 100,000 Train Miles	1.17	1.02	0.74	0.00	1.75	●	1.96	2.16	1.79
CPUC Reportable Accidents per 100,000 Train Miles	1.17	1.02	0.50	0.37	1.25	●	0.98	1.08	1.79
Passenger Accidents per 100,000 Boardings	0.000	0.000	0.019	0.000	0.041	●	0.000	0.000	0.165
Complaints per 100,000 Boardings	1.53	1.13	3.38	1.87	5.22	●	6.02	4.79	3.97
New Workers' Compensation Indemnity Claims per	-	24.97	8.44	0.00	14.93	●	0.00	17.51	24.21
*Lost Work Days per 200,000 Exposure Hours	-	937	73	0	170	●	279	89	-
*OSHA Injuries per 200,000 Exposure Hours	-	-	5.63	0.00	11.60	●	-	17.51	-

* There is One Month lag in reporting this data

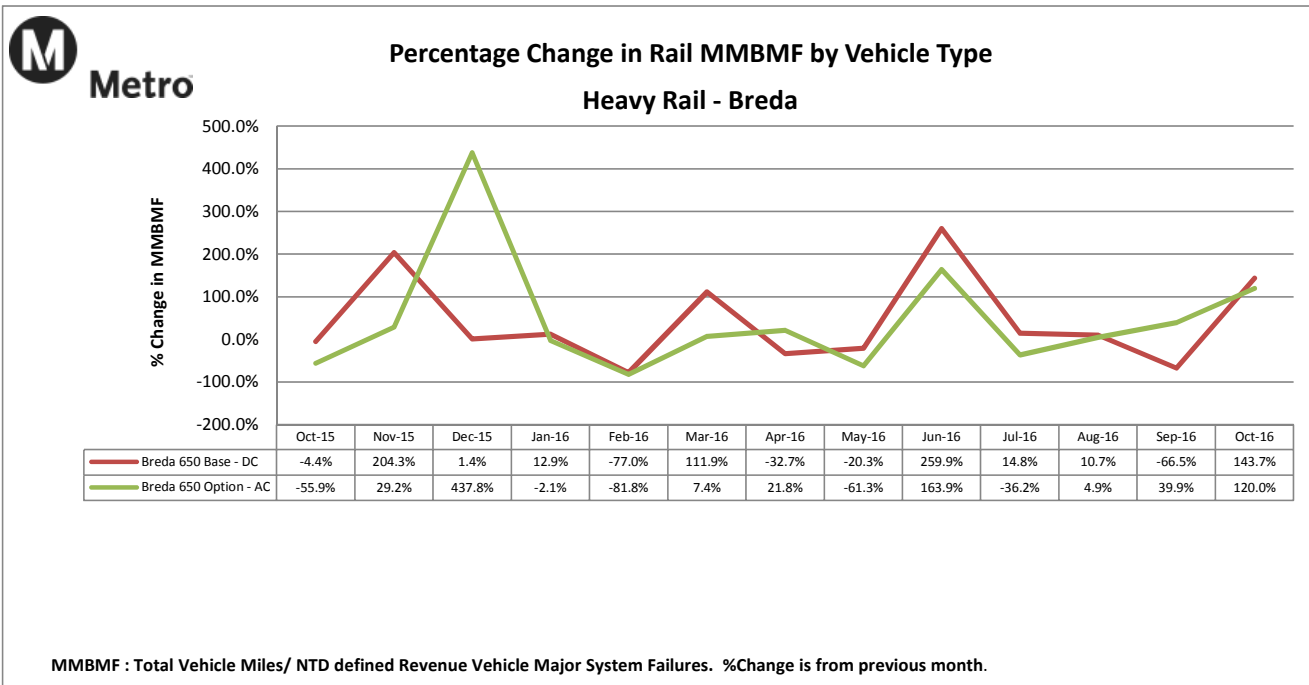
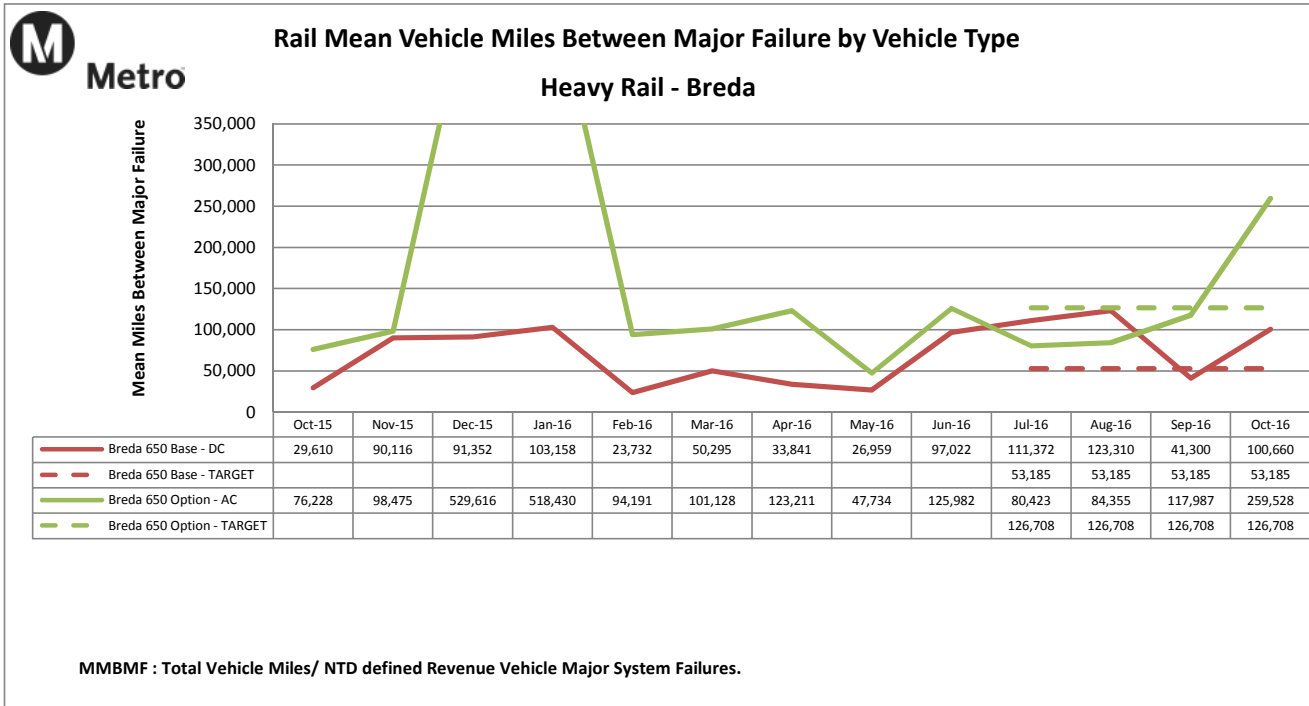
● Green - High probability of achieving the target (on track). Meets Target at 100% or better.

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

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METRO RAIL PERFORMANCE – OCTOBER 2016

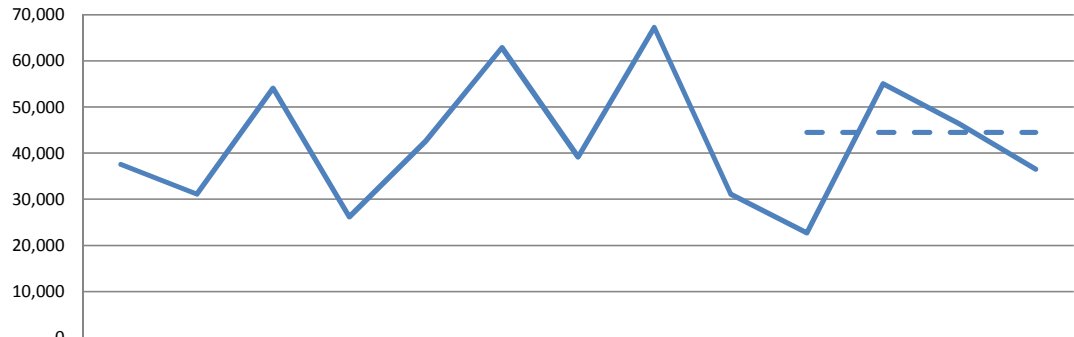
Rail Performance by Vehicle Type





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

Mean Miles Between Major Failure



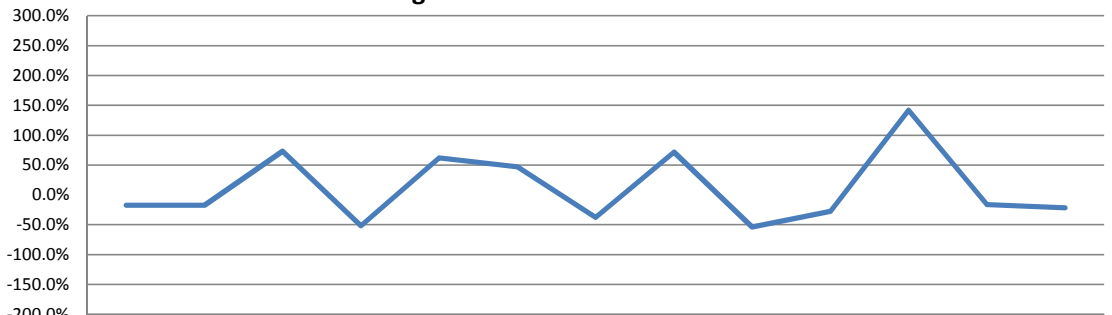
	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
— AnsaldoBreda 2550 Base - AC	37,598	31,107	54,057	26,240	42,632	62,875	39,188	67,279	31,159	22,741	55,074	46,395	36,556
- - - AnsaldoBreda 2550 Base - TARGET										44,517	44,517	44,517	44,517

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



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

% Change in MMBMF



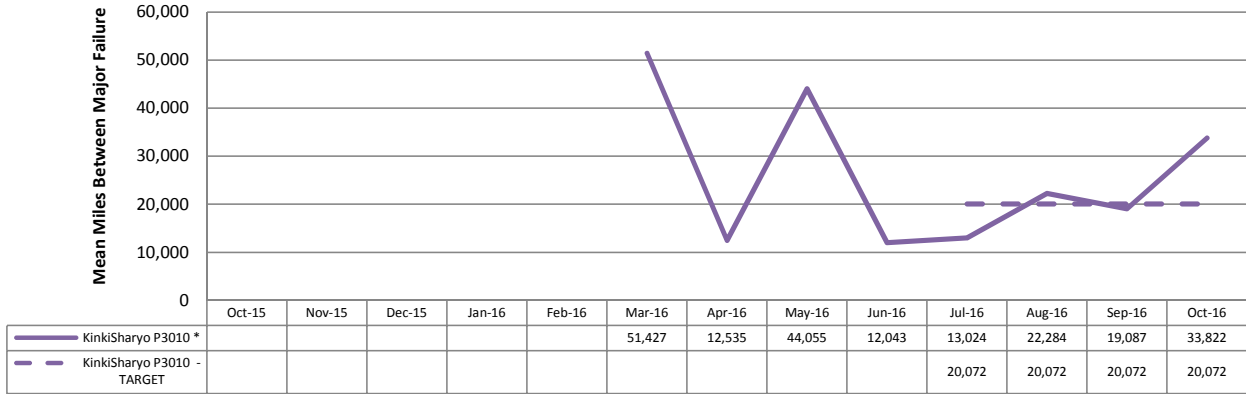
	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
— AnsaldoBreda 2550 Base - AC	-17.1%	-17.3%	73.8%	-51.5%	62.5%	47.5%	-37.7%	71.7%	-53.7%	-27.0%	142.2%	-15.8%	-21.2%

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



Metro

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

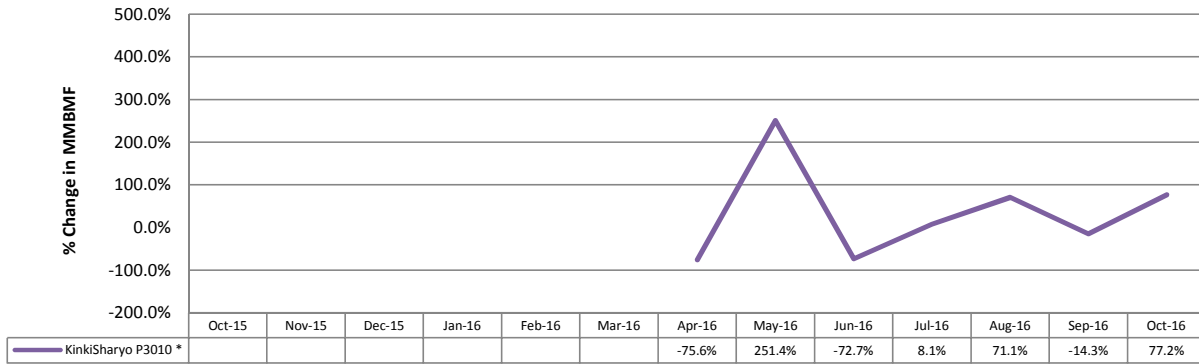


MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



Metro

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



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

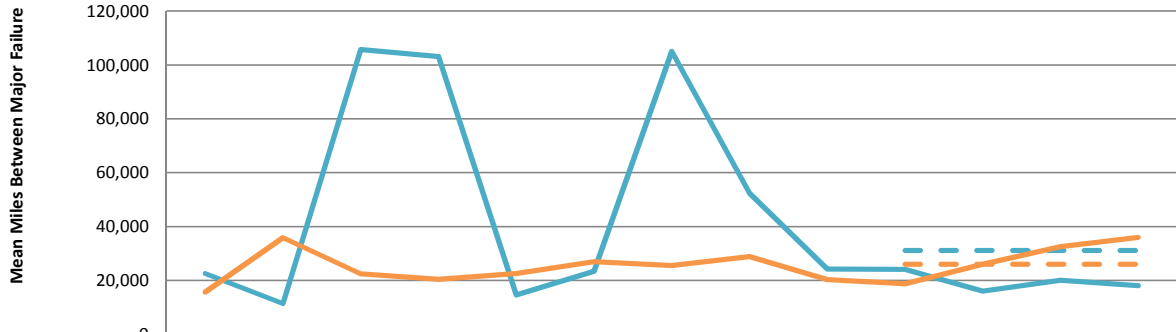
* KinkiSharyo rolling stock began service March 2016



Metro

Rail Mean Vehicle Miles Between Major Failure by Vehicle Type

Light Rail - NipponSharyo



	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
Nippon Sharyo 2020 - DC	22,622	11,500	105,799	103,129	14,620	23,452	105,138	52,426	24,256	24,134	16,076	20,161	18,085
Nippon Sharyo 2020 - TARGET										31,214	31,214	31,214	31,214
Nippon Sharyo 865 - DC	15,717	35,881	22,513	20,475	22,667	26,985	25,593	28,981	20,341	18,786	26,073	32,617	36,102
Nippon Sharyo 865 - TARGET										26,062	26,062	26,062	26,062

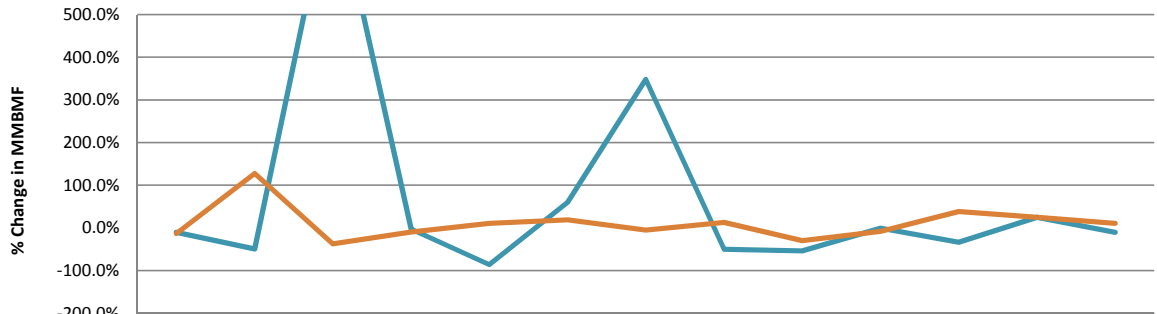
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



Metro

Percentage Change in Rail MMBMF by Vehicle Type

Light Rail - NipponSharyo



	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
Nippon Sharyo 2020 - DC	-10.1%	-49.2%	820.0%	-2.5%	-85.8%	60.4%	348.3%	-50.1%	-53.7%	-0.5%	-33.4%	25.4%	-10.3%
Nippon Sharyo 865 - DC	-13.4%	128.3%	-37.3%	-9.1%	10.7%	19.0%	-5.2%	13.2%	-29.8%	-7.6%	38.8%	25.1%	10.7%

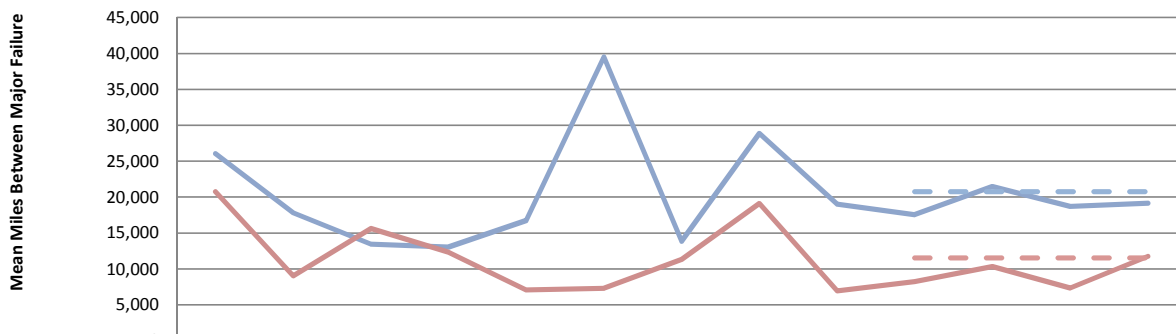
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures. %Change is from previous month.



Metro

Rail Mean Vehicle Miles Between Major Failure by Vehicle Type

Light Rail - Siemens



	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
Siemens 2000 Base - AC	26,070	17,834	13,486	13,075	16,751	39,513	13,853	28,871	19,031	17,567	21,505	18,725	19,184
Siemens 2000 Base - TARGET										20,778	20,778	20,778	20,778
Siemens 2000 GE/ATP - AC	20,792	9,039	15,658	12,375	7,094	7,303	11,344	19,136	6,984	8,241	10,345	7,365	11,790
Siemens 2000 GE/ATP - TARGET										11,559	11,559	11,559	11,559

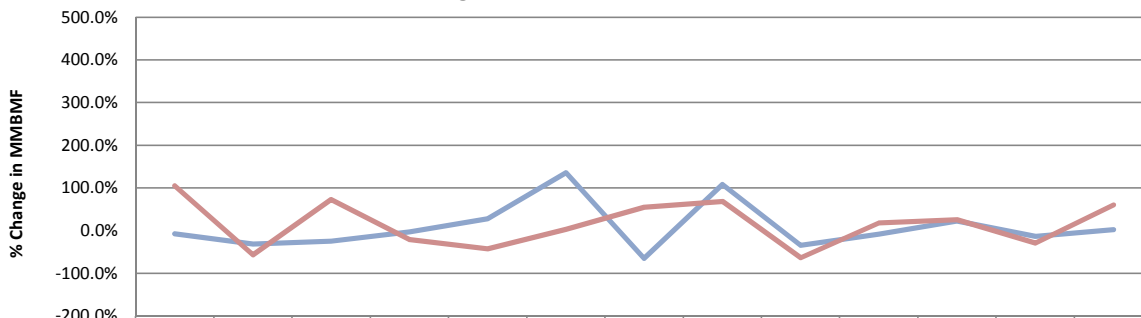
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



Metro

Percentage Change in Rail MMBMF by Vehicle Type

Light Rail - Siemens



	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
Siemens 2000 Base - AC	-7.0%	-31.6%	-24.4%	-3.0%	28.1%	135.9%	-64.9%	108.4%	-34.1%	-7.7%	22.4%	-12.9%	2.5%
Siemens 2000 GE/ATP - AC	105.4%	-56.5%	73.2%	-21.0%	-42.7%	3.0%	55.3%	68.7%	-63.5%	18.0%	25.5%	-28.8%	60.1%

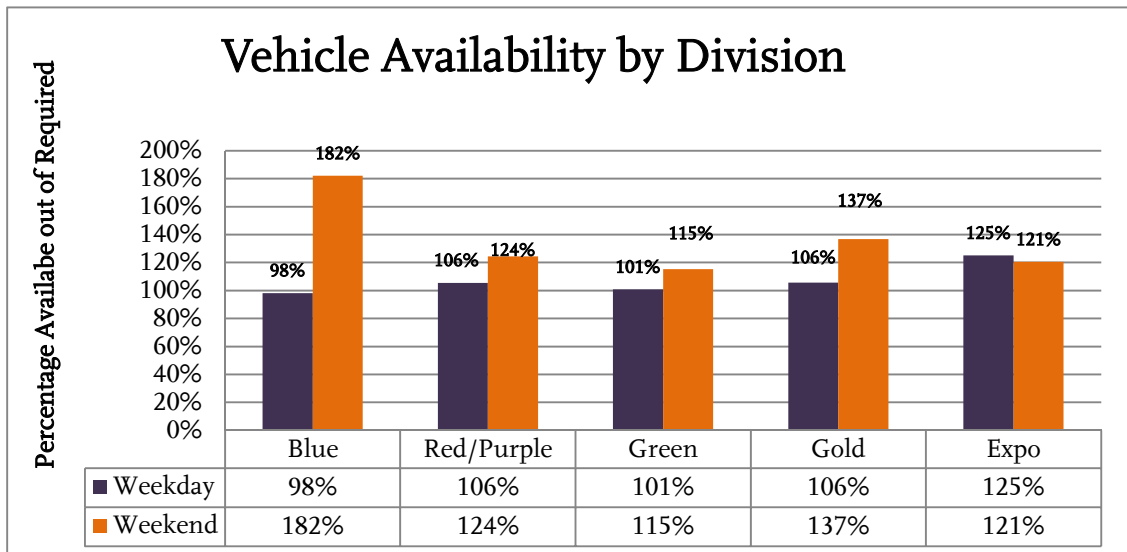
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures. %Change is from previous month.

Rail Fleet Distribution – OCTOBER 2016

Number of Rail Vehicle Type by Division	Blue	Red / Purple	Green	Gold	Expo
AnsaldoBreda 2550 Base - AC				50	
Breda 650 Base - DC		30			
Breda 650 Option - AC		74			
KinkiSharyo P3010				10	27
Nippon Sharyo 2020 - DC	14				1
Nippon Sharyo 865 - DC	38				16
Siemens 2000 Base - AC			29		
Siemens 2000 GE/ATP - AC	17				6
TOTALS	69	104	29	60	50

Vehicle Availability Systemwide

Blue			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	60	59	98%
Weekend	26	47	182%
Red/ Purple			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	74	78	106%
Weekend	54	67	124%
Green			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	22	22	101%
Weekend	14	16	115%
Gold			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	45	48	106%
Weekend	28	38	137%
Expo			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	28	35	125%
Weekend	29	35	121%

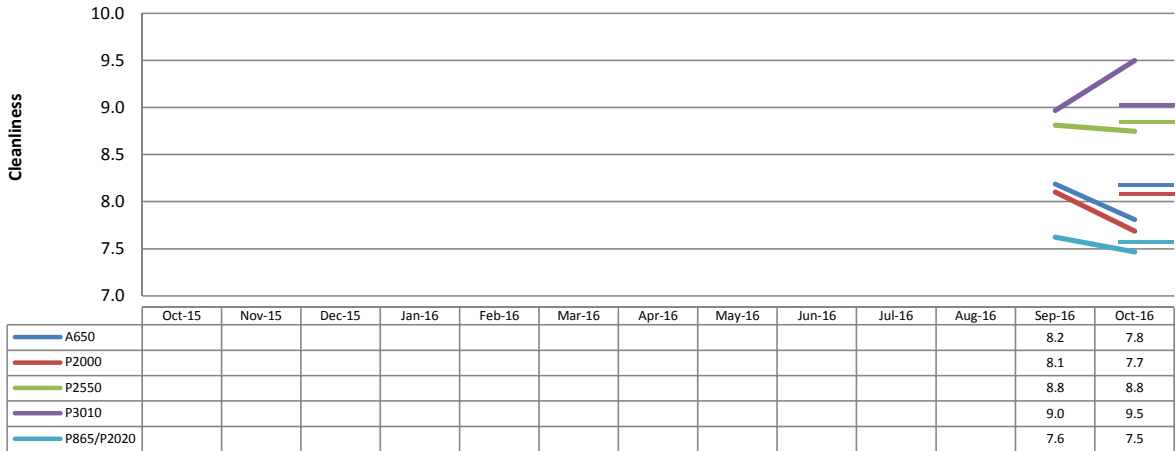


Cleanliness by Vehicle Type



Metro

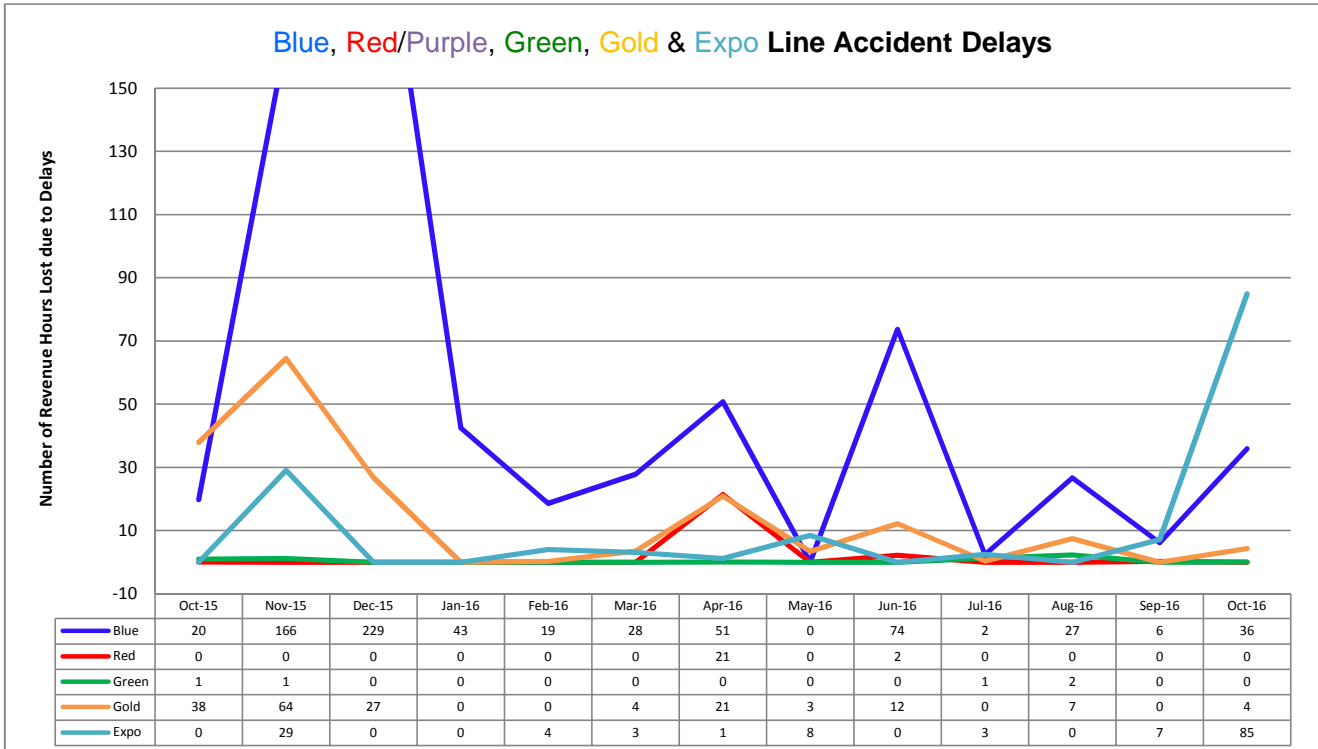
Rail Cleanliness by General Vehicle Type



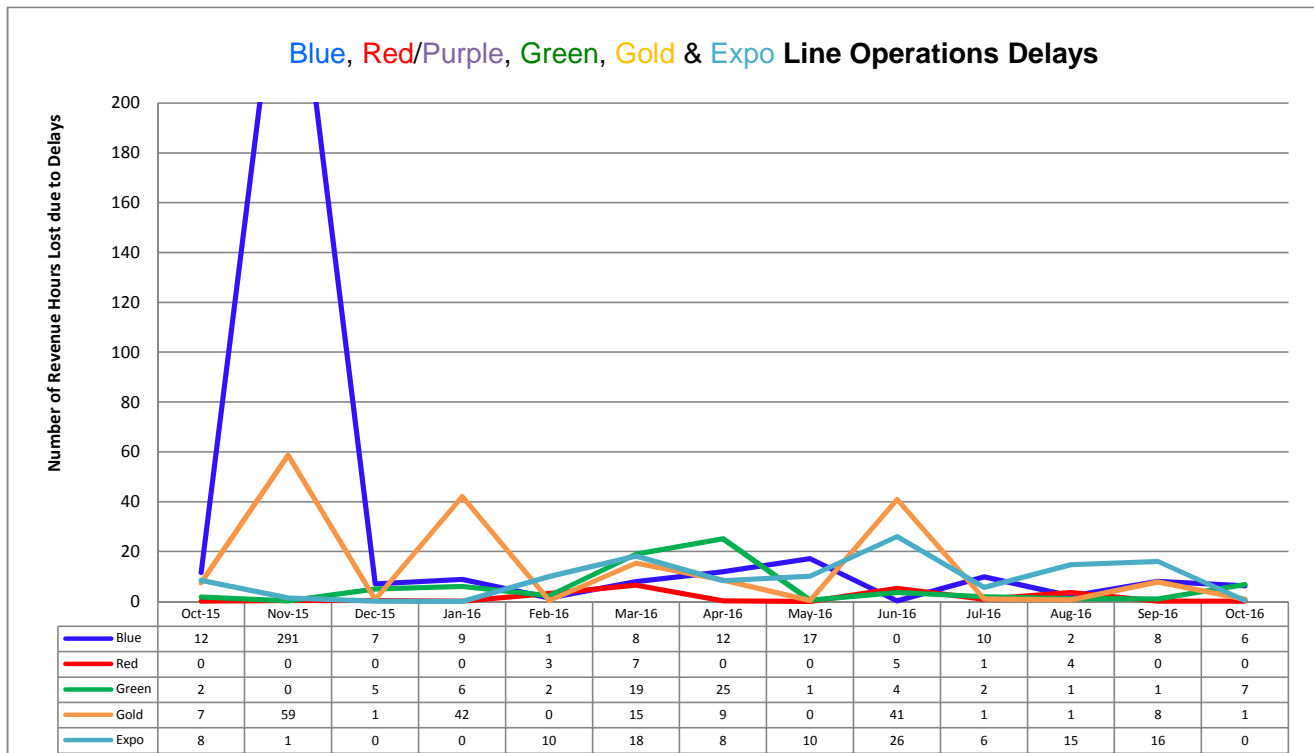
Note: Data Collection Began September 2016

RAIL DELAYS BY CATEGORY - SYSTEMWIDE

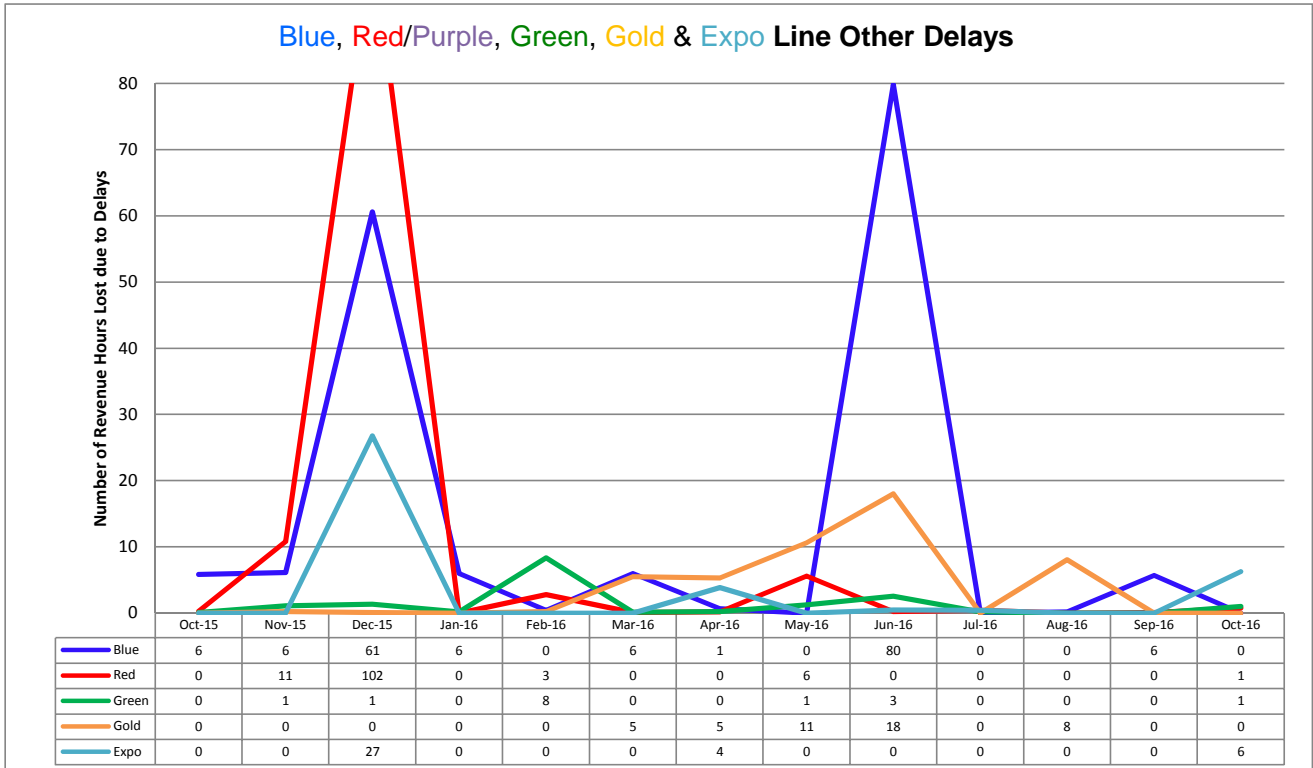
Revenue Hours Lost Related to - ACCIDENTS



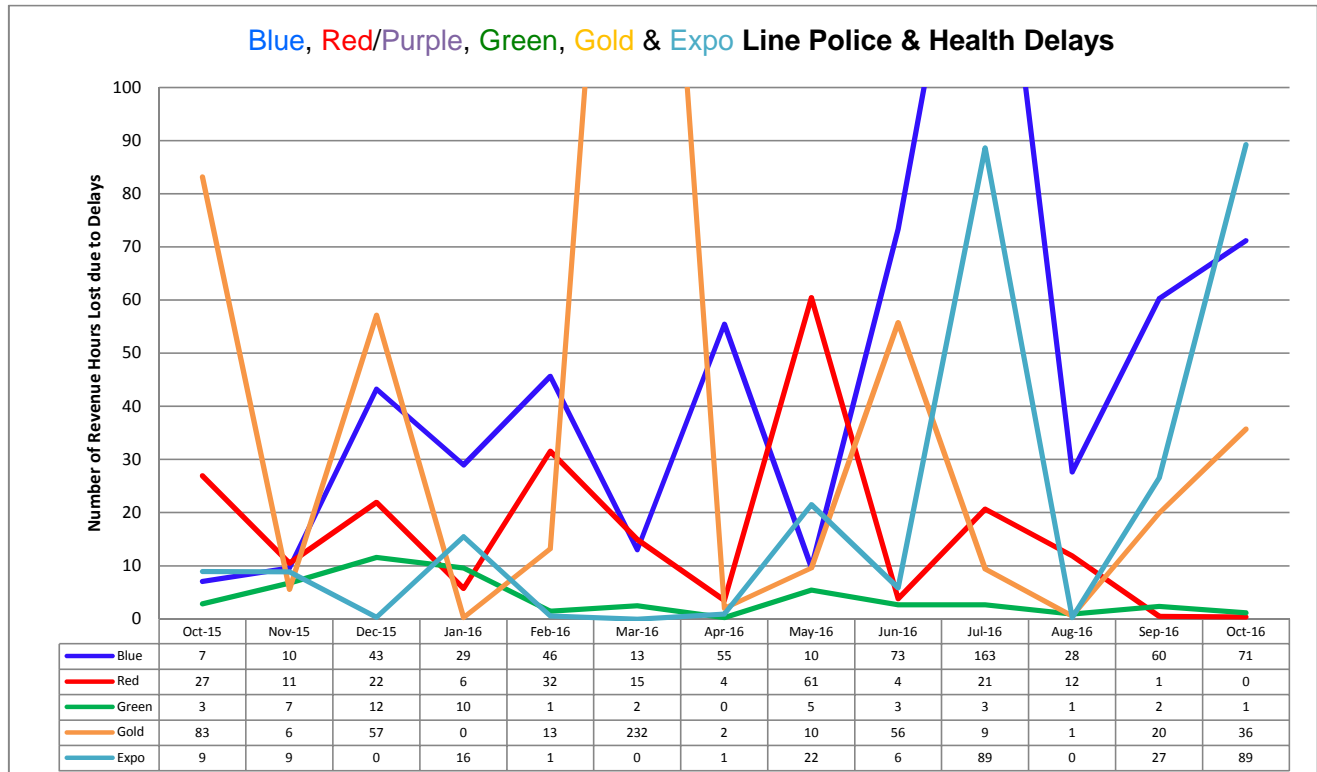
Revenue Hours Lost Related to - OPERATIONS



Revenue Hours Lost Related to - OTHER

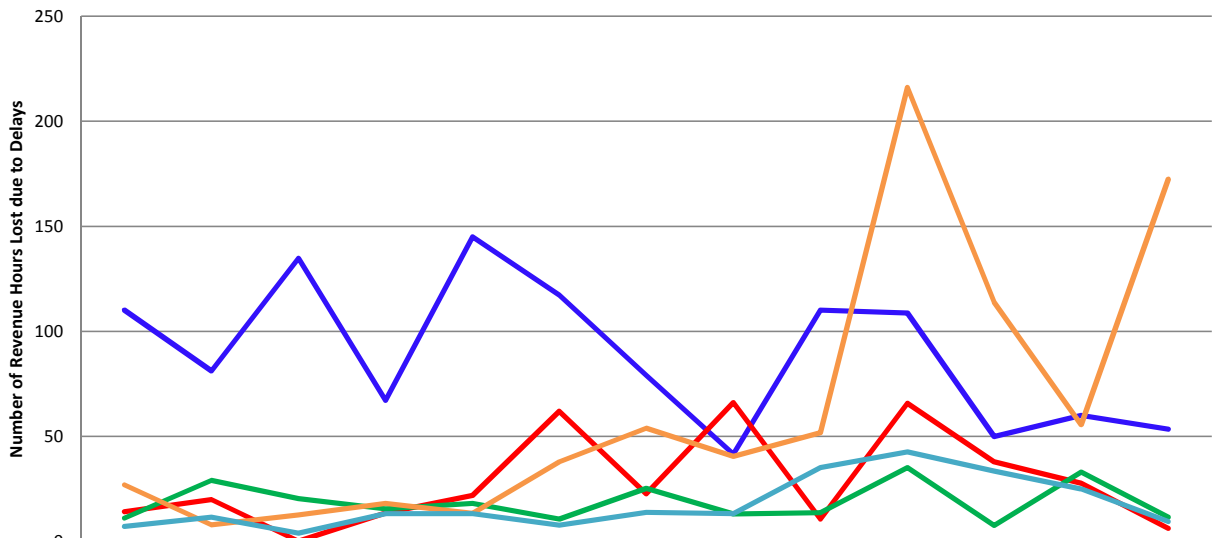


Revenue Hours Lost Related to - POLICE & HEALTH



Revenue Hours Lost Related to - Vehicle Delays

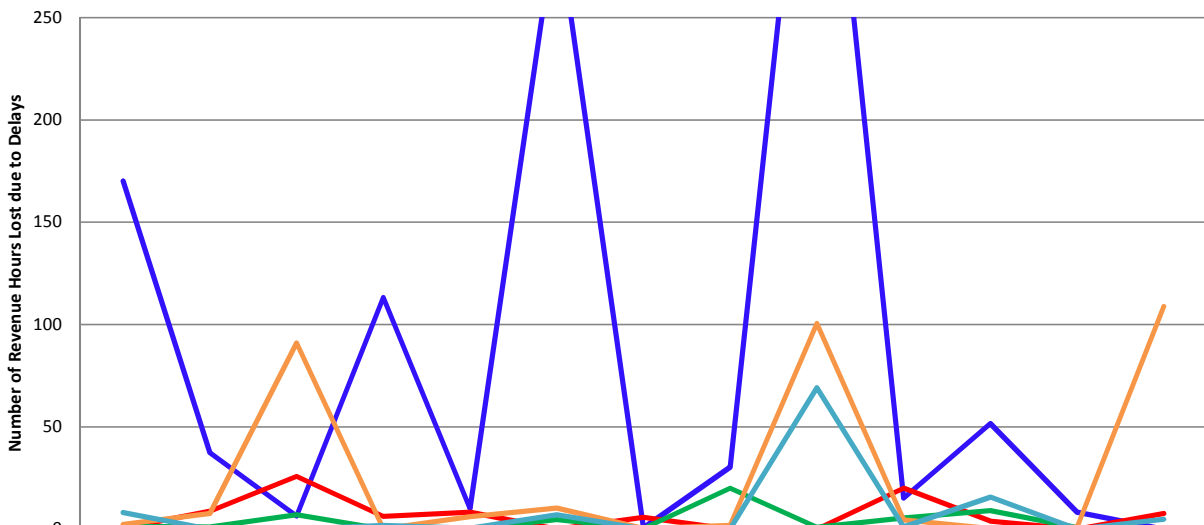
Blue, Red/Purple, Green, Gold & Expo Line Vehicle Delays



	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
Blue	110	81	135	67	145	117	79	42	110	109	50	60	54
Red	14	20	0	14	22	62	23	66	11	66	38	28	6
Green	11	29	20	16	18	11	25	13	14	35	8	33	12
Gold	27	8	13	18	13	38	54	41	52	216	114	56	172
Expo	7	12	4	13	13	8	14	13	35	43	34	25	10

Revenue Hours Lost Related to - WAYSIDE

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

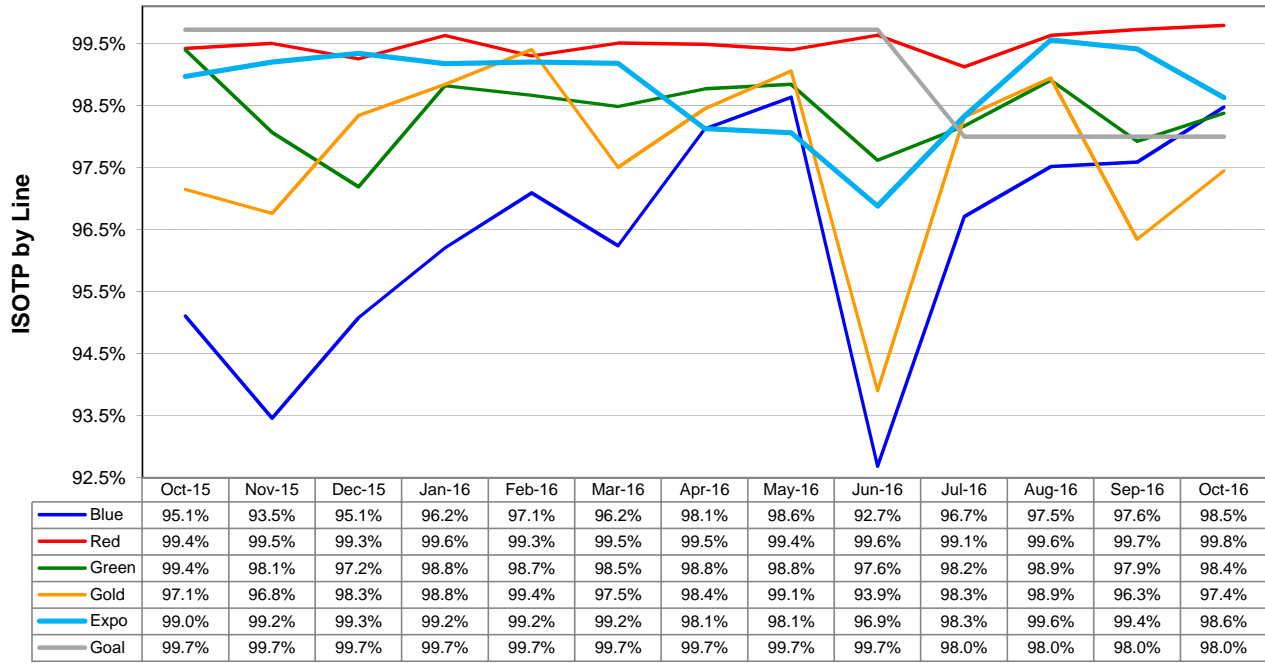


	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
Blue	170	37	6	113	10	300	1	30	424	15	52	8	0
Red	1	9	26	6	8	0	6	0	0	20	4	0	8
Green	1	1	7	0	0	5	0	20	1	6	9	1	1
Gold	2	8	91	0	6	10	0	2	101	5	0	1	109
Expo	8	0	0	2	0	7	0	0	69	1	16	0	5

Rail Service Performance

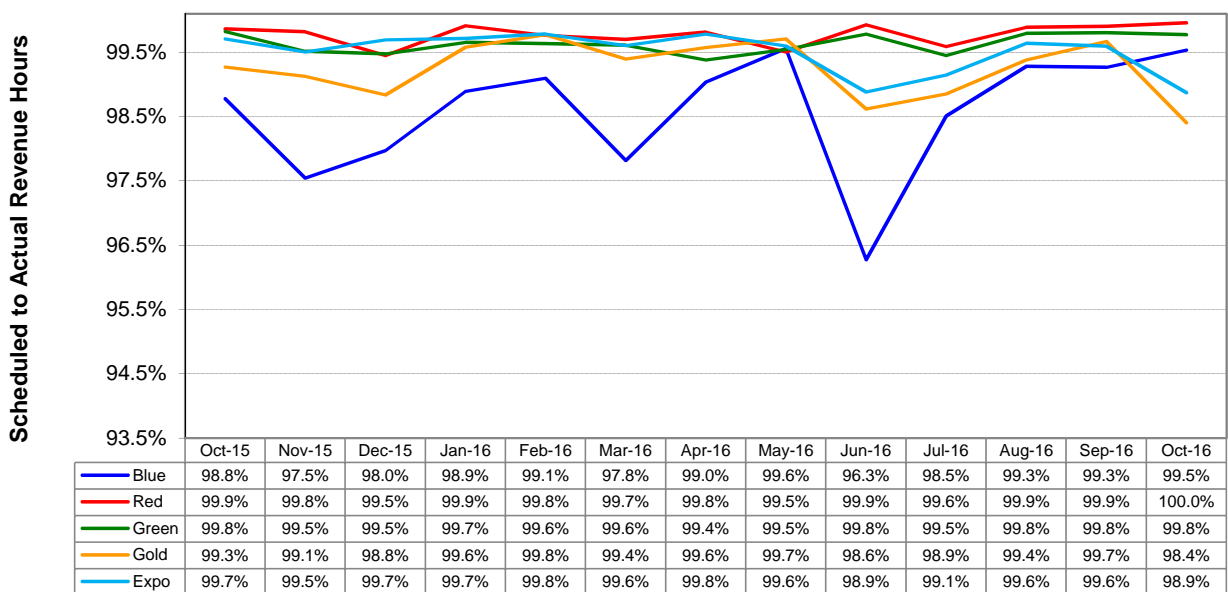
In Service On Time Performance by Line

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

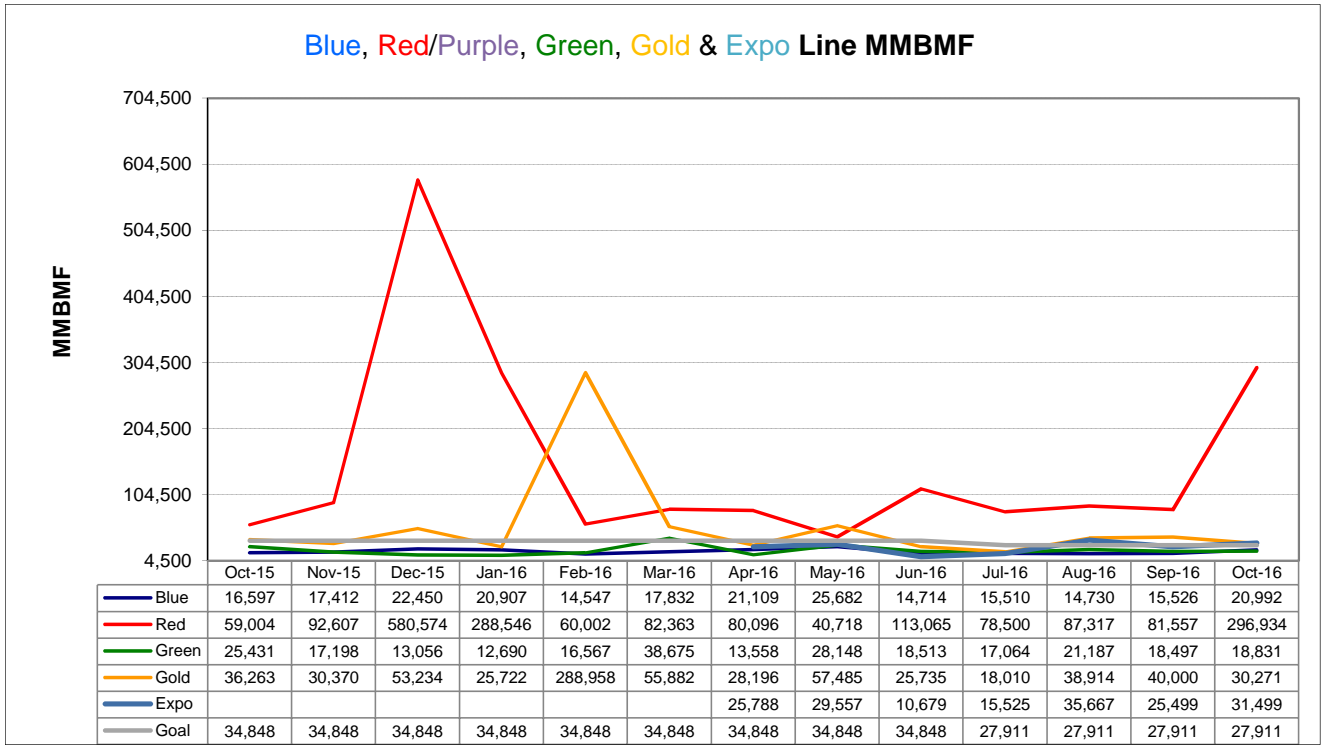


Ratio of Scheduled to Revenue Hours Delivered by Line

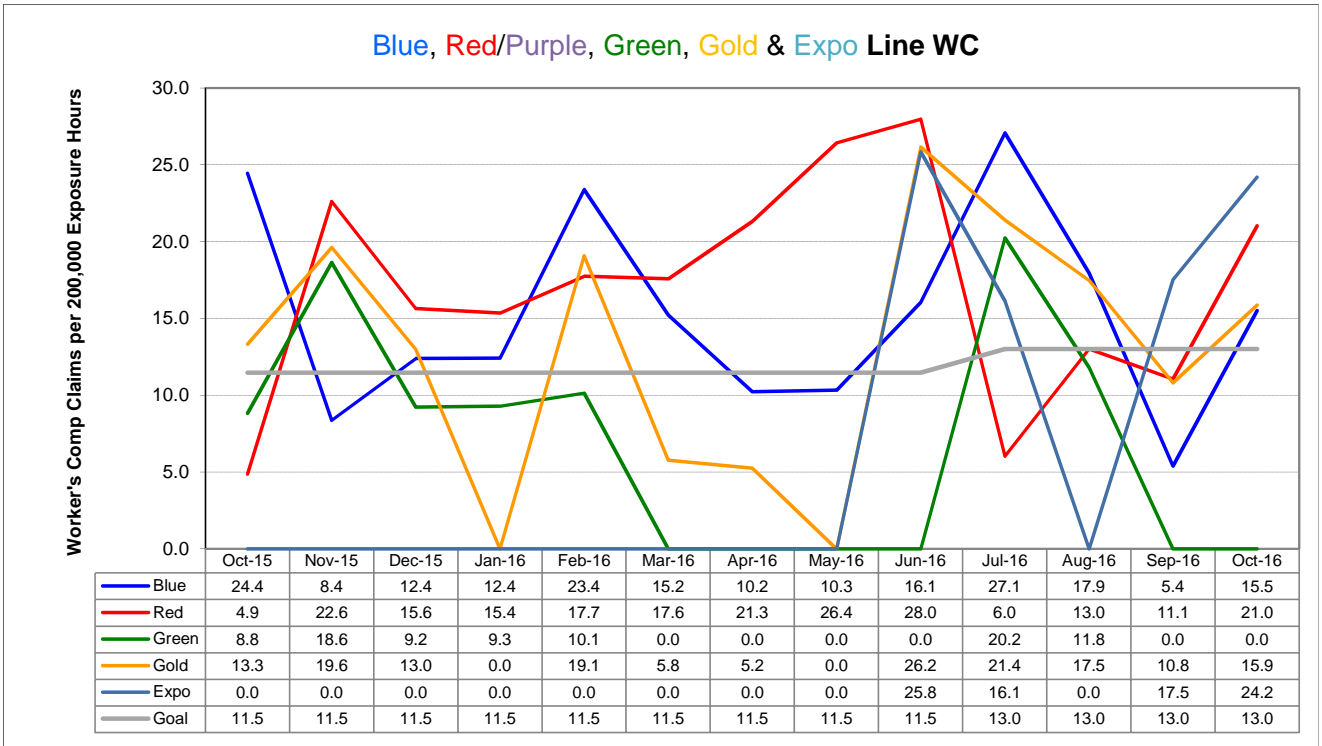
Blue, Red/Purple, Green, Gold & Expo Line SRHD



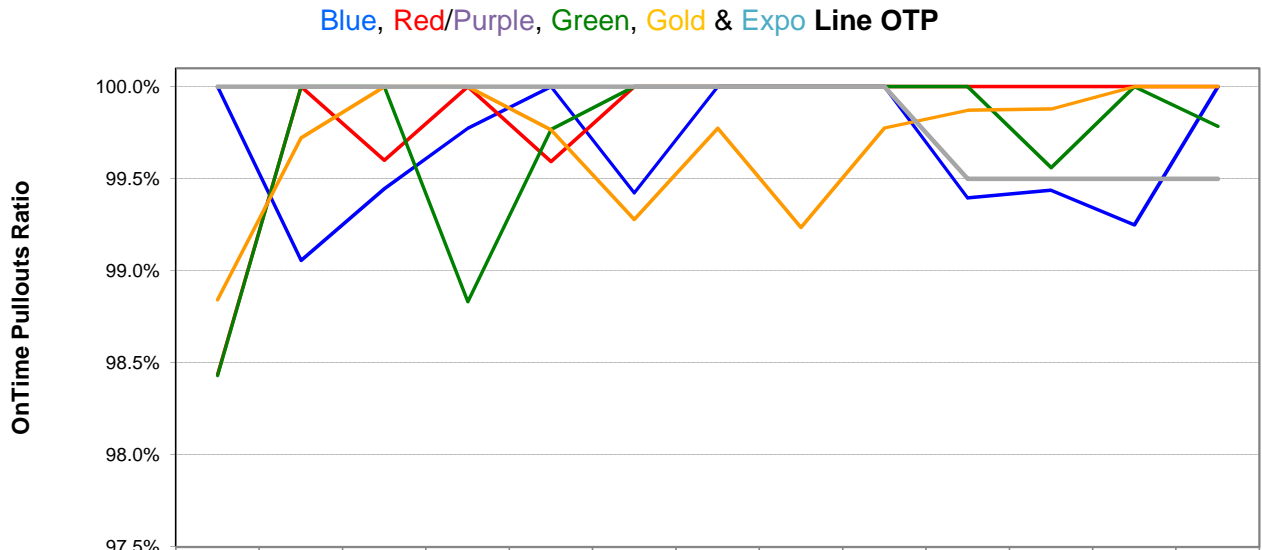
Mean Miles Between Mechanical Failures by Line



Workers Comp Claims by Line



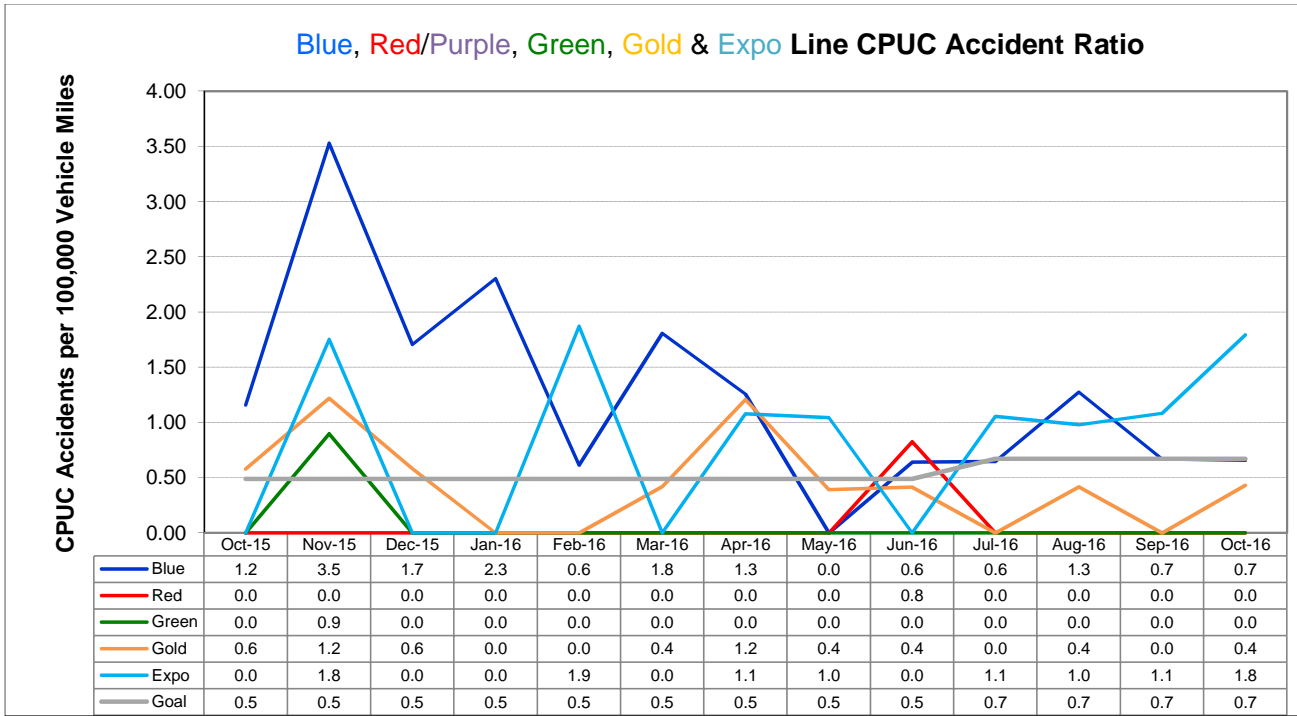
On-Time Pullouts Ratio by Line



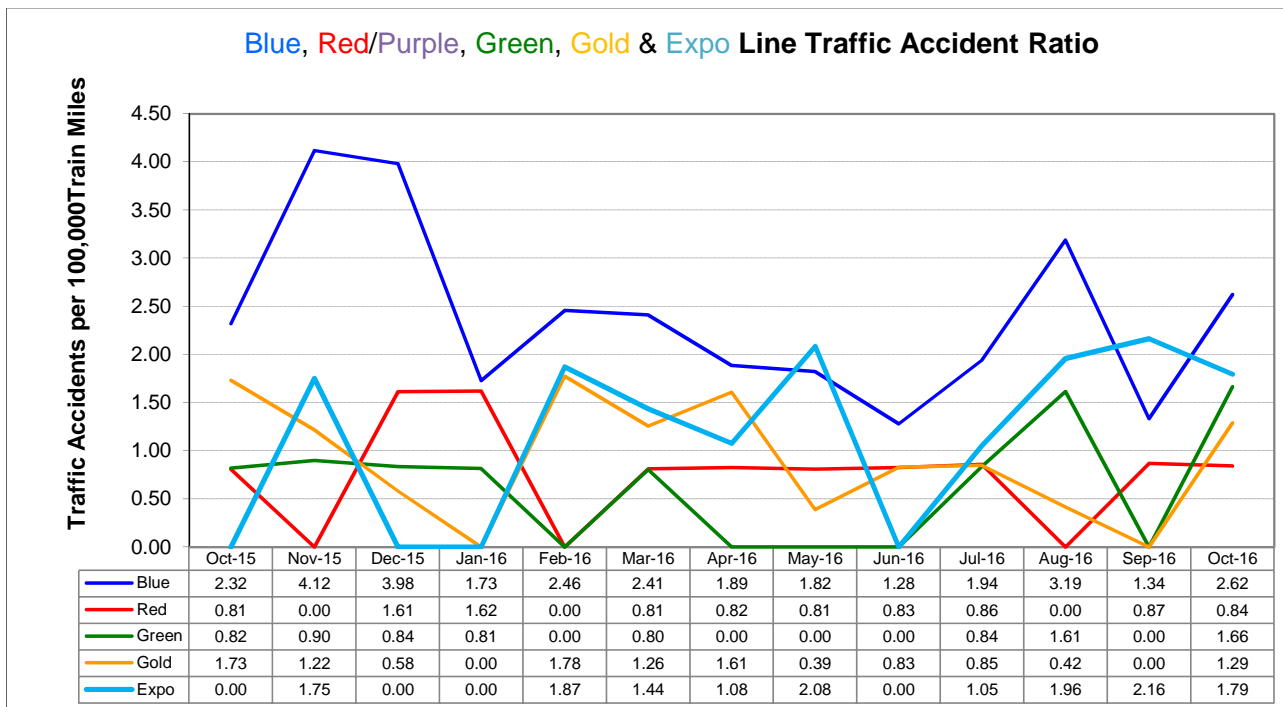
	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
Blue	100.0%	99.1%	99.4%	99.8%	100.0%	99.4%	100.0%	100.0%	100.0%	99.4%	99.4%	99.2%	100.0%
Red	98.4%	100.0%	99.6%	100.0%	99.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Green	98.4%	100.0%	100.0%	98.8%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	99.6%	100.0%	99.8%
Gold	98.8%	99.7%	100.0%	100.0%	99.8%	99.3%	99.8%	99.2%	99.8%	99.9%	99.9%	100.0%	100.0%
Expo										99.5%	99.5%	99.5%	99.5%
Goal	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.5%	99.5%	99.5%	99.5%

Rail Safety Performance

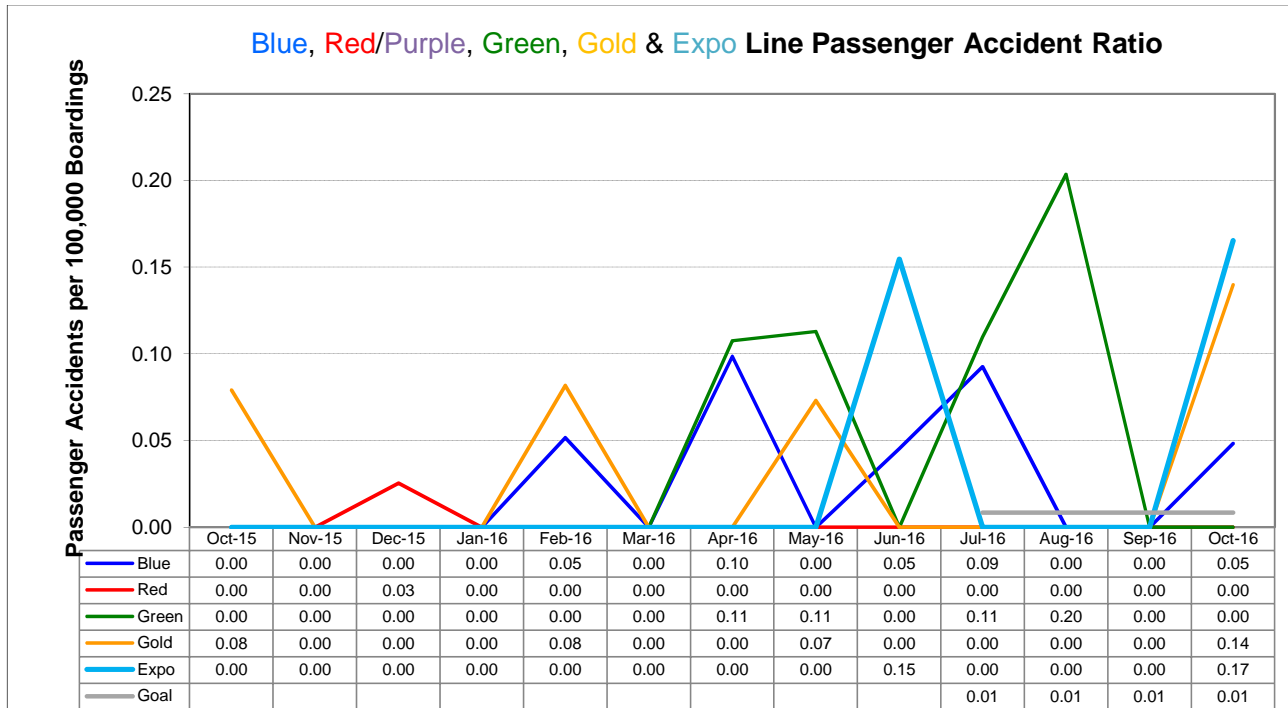
CPUC REPORTABLE ACCIDENTS PER 100,000 TRAIN MILES



TRAFFIC ACCIDENTS PER 100,000 TRAIN MILES



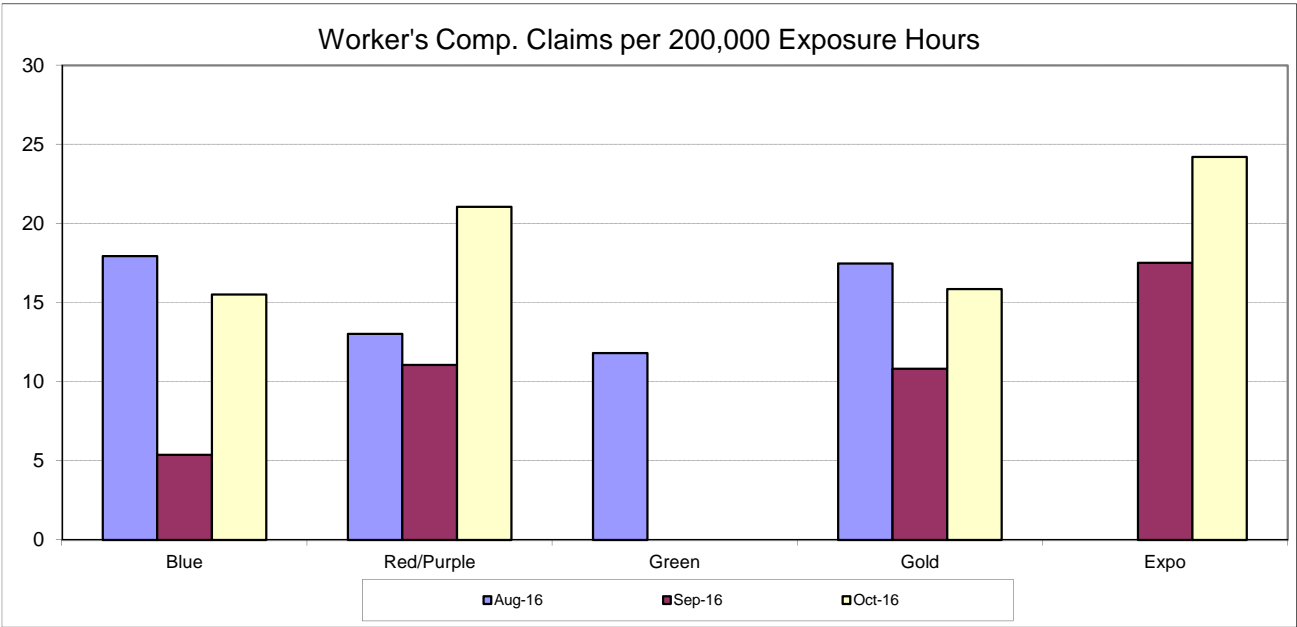
PASSENGER ACCIDENTS PER 100,000 BOARDINGS



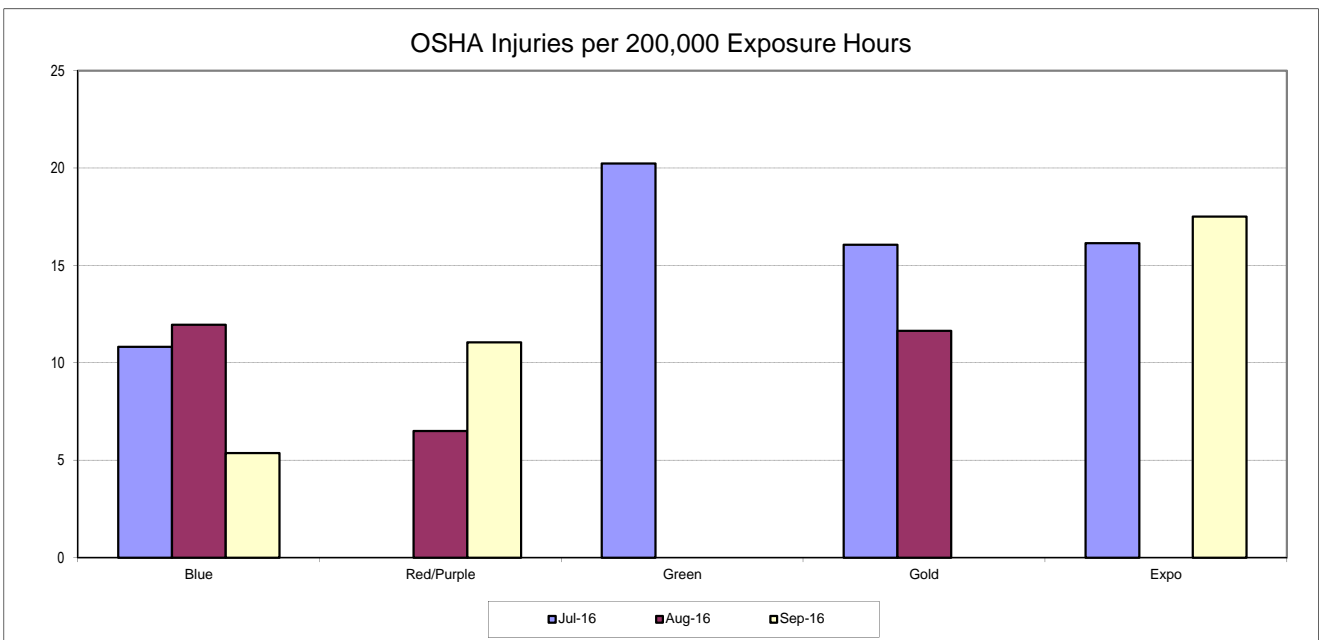
Worker's Comp. Claims

Aug 2016 - Oct 2016

3 Month Comparison

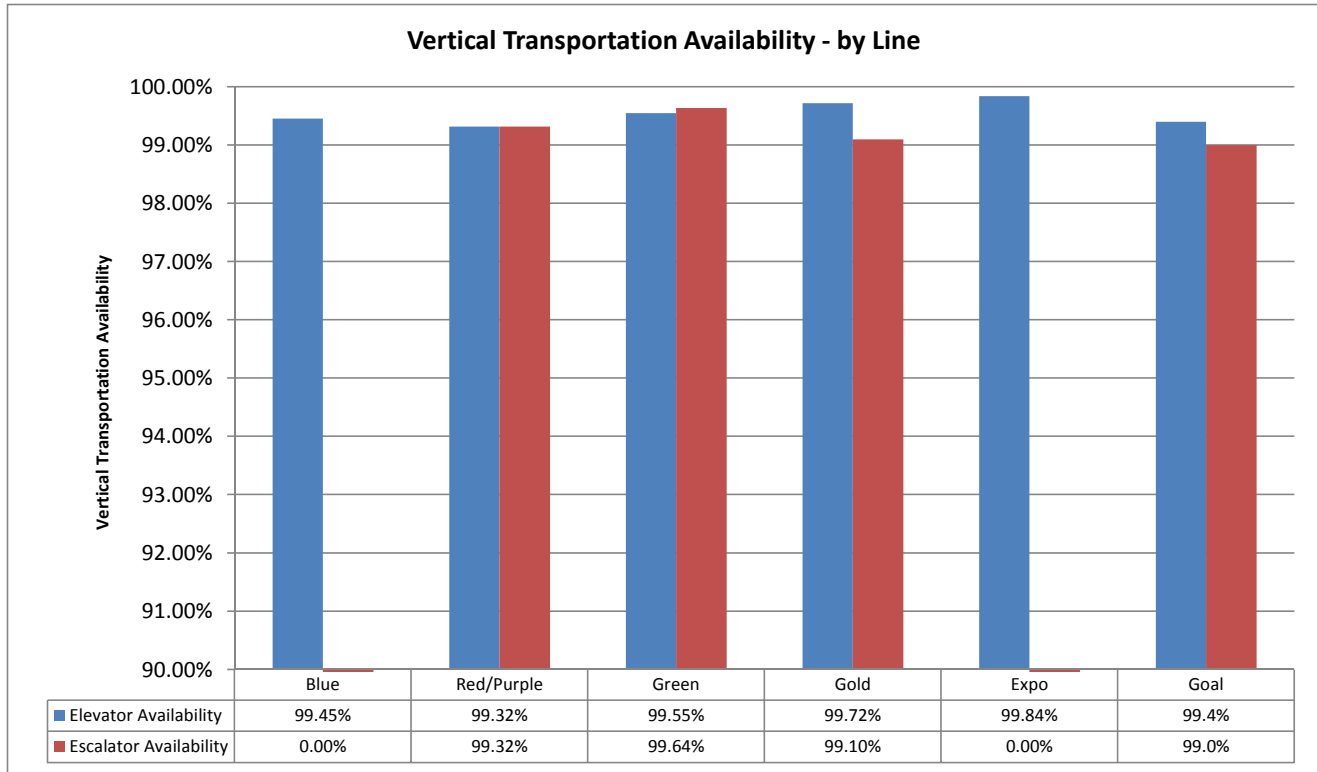


Lost Work Days and OSHA Injuries Jul 2016 - Sep 2016 3 Month Comparison



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

Systemwide Vertical Transportation Availability by Line



Note: Escalators at Blue and Expo Lines

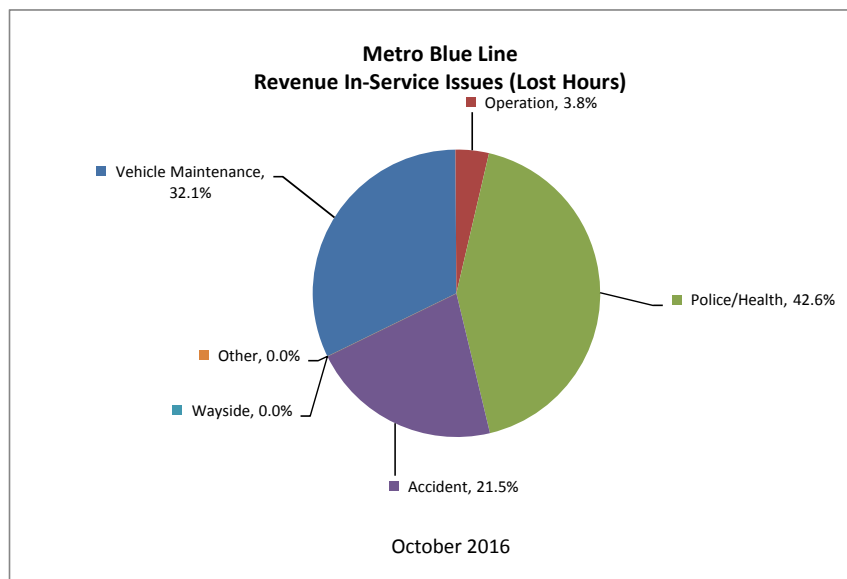
BLUE LINE

Out of a total of 19,736 hours operated, there were approximately 167 total hours of service delays.

October 2016 Service Hours *	Revenue	
	Hours	Per Cent
Revenue Hours without Delays	19,569	99.2%
Cancelled + Delayed Hours	167	0.8%
Total Revenue Hours	19,736	100.0%

Summary of the major contributors:	Count	Hours	Per Cent
Operations	7	6.3	3.8%
Accidents	4	35.9	21.5%
Vehicle Maintenance	38	53.6	32.1%
Wayside	0	0.0	0.0%
Police & Health	12	71.2	42.6%
Other	0	0.0	0.0%
Total	61	167.0	100.0%

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



October 2016 Blue Line major delay contributors were as follows:

Operations Incidents:

10/5/2016 6:36:00 PM - Incident# 2785157 (1 lost trip, 168 lost minutes)

Train Delay due to dirty car

10/6/2016 5:15:00 PM - Incident# 2785622 (0 lost trips, 6 lost minutes)

Operator reports of a medical problem on board train 147A

Train 127

T-376

(147A)156-125

Willow St., Trk. 2, southbound

10/7/2016 7:36:00 PM - Incident# 2786111 (0 lost trips, 6 lost minutes)

Near miss

Train 130

T-357

(239A)-233

Southbound, Gage crossing, Track 2

10/13/2016 12:48:00 PM - Incident# 2788254 (0 lost trips, 10 lost minutes)

Operator 10-100 @ Transit Mall

10/17/2016 3:41:00 PM - Incident# 2789621 (0 lost trips, 11 lost minutes)

Train 125 late pull, due to prop faults in the yard.

10/21/2016 12:23:00 AM - Incident# 2791214 (1 lost trip, 166 lost minutes)

7th and Metro/Sick Car on Train 108.

10/24/2016 2:46:00 PM - Incident# 2792379 (0 lost trips, 10 lost minutes)

Transit Mall

Accidents:

10/8/2016 7:48:00 PM - Incident# 2786341 (1 lost trip, 137 lost minutes)

Train vs Pedestrian

Train 101

Track 1, NB Imperial Ped X-Ing

T-253

(236A)-250-246

10/9/2016 5:35:00 AM - Incident# 2786391 (1 lost trip, 178 lost minutes)

Train vs Auto

Train 102

Track #1 NB

Washington Blvd/Broadway Ave

T-363

(140A)-163-149

10/19/2016 9:43:00 AM - Incident# 2790362 (1 lost trip, 167 lost minutes)

Track-2 under I10 Freeway, Train-103 T-102 consist #168-125-165 struck auto attempting left turn in front of train into parking lot under I-10 Freeway.

10/19/2016 12:56:00 PM - Incident# 2790399 (10 lost trips, 1,672 lost minutes)

10-73

Train 107

T-132

(235A)-239-232

Southbound track 2 at Florence crossing.

Vehicle Maintenance Incidents:

10/3/2016 4:40:00 PM - Incident# 2784174 (0 lost trips, 12 lost minutes)

Propulsion fault with no movement

Train #127

T-125

(233)-245-239

San Pedro Station, Track #2, SB

10/4/2016 12:50:00 PM - Incident# 2784514 (1 lost trip, 178 lost minutes)

Operator reports of no movement

Train 105

T-307

137-153-142

Motorman platform, Trk. 1, northbound

10/5/2016 5:41:00 AM - Incident# 2784784 (0 lost trips, 7 lost minutes)

Propulsion / Dynamic Brakes

(157A)-126-151

Train 101

T-118

North of Spring, Southbound, Track 2

10/6/2016 5:34:00 AM - Incident# 2785252 (0 lost trips, 10 lost minutes)

Propulsion faults/loss of cab signal

Train 111

LRV 109A/114/140

T-152

103rd St station track 1

10/6/2016 6:00:00 PM - Incident# 2785631 (1 lost trip, 175 lost minutes)

Operator reports of no movement at the Artesia interlocking

Train 122

T-059

139-168-(153A)

Artesia interlocking, Trk. 1, northbound

10/7/2016 2:47:00 PM - Incident# 2786036 (0 lost trips, 12 lost minutes)

Door will not close.

Train 104

T-

(143A)-(123)-(150)

Washington Station, Track 2, southbound.

M-175 Notified to board all cars at 103rd st station

10/7/2016 3:45:00 PM - Incident# 2786051 (0 lost trips, 6 lost minutes)

Propulsion brake fault

Train 126

T-291

118A-163-137

Florence Station, Track 1, Northbound.

10/7/2016 4:02:00 PM - Incident# 2786076 (0 lost trips, 20 lost minutes)

No horn and gong.

Train 104

T-400

(233B)-239

Artesia Station, Track 1, Northbound.

10/7/2016 5:40:00 PM - Incident# 2786097 (1 lost trip, 169 lost minutes)

No Fault - No Movement.

Train 124

T-298

(138)-160-112

Southbound, 7th and Metro Center Station, Track 2

Notifications: S: R-; S: R-; S: R-; S: R-; CCTV: R-; ROC Floor Manager: R-; MBL yard co

10/7/2016 6:58:00 PM - Incident# 2786106 (0 lost trips, 6 lost minutes)

Door problem operator error.

Train 127

T-053

116-145-127

Southbound, Pico Station, Track 2

10/8/2016 8:31:00 AM - Incident# 2786211 (1 lost trip, 122 lost minutes)

Recurring propulsion failure.

Train # 603

T-405

Cars # 162-107-(100-B).

S/Bound 7th & Metro Station Platform # 2.

10/8/2016 12:32:00 PM - Incident# 2786259 (0 lost trips, 12 lost minutes)

Operator reports of no movement

Train #605

T-241

(1022)-1027-1021

Pico Station, Track #2, SB

10/8/2016 4:44:00 PM - Incident# 2786315 (0 lost trips, 12 lost minutes)

Propulsion fault with a speed restriction of 35mph

Train #107

T-291

(148B)-152

Pico Station, Track #2, SB

10/9/2016 12:38:00 PM - Incident# 2786447 (0 lost trips, 12 lost minutes)

Reports of over speed, requesting ATP bypass for motivate

Train #107

T-473

(109A)-114

Compton Station, Track #2, SB

10/10/2016 5:50:00 PM - Incident# 2786941 (1 lost trip, 167 lost minutes)

Propulsion fault with a speed restriction.

Reports recurring propulsion dynamic brake fault.

Train 132

T-300

240-237-302

Southbound, Artesia Station, Track 1

10/11/2016 7:20:00 PM - Incident# 2787502 (0 lost trips, 15 lost minutes)

Operator reports of a no movement no indication.

Train 321

T-321

232-238-245

Vernon station, Trk. 2, southbound

10/12/2016 6:50:00 PM - Incident# 2787943 (3 lost trips, 515 lost minutes)

Operator reports of no movement

Train 123

T-082

(158)120-135

Pico station, Trk. 1, northbound

10/12/2016 7:00:00 PM - Incident# 2787944 (0 lost trips, 12 lost minutes)

Operator reports of no movement

Train 109

T-201

247-248

Artesi station, Trk. 1, northbound

10/13/2016 8:01:00 AM - Incident# 2788117 (0 lost trips, 6 lost minutes)

ATP failure/Overspeed alarm

Train 103

LRV 118A/115/161

T-182

Wardlow station track 2 southbound

10/14/2016 2:46:00 PM - Incident# 2788736 (1 lost trip, 172 lost minutes)

No Fault - No Movement, Cars #(118B)-138-122

Train #123

T-246

200 feet of Del Amo Station, Track #001, Northbound.

10/16/2016 1:11:00 PM - Incident# 2789103 (1 lost trip, 162 lost minutes)

Operator reports of no movement

Train #101

T-490

(134)-158-135

Elm grade crossing, Track #1, NB

10/16/2016 4:55:00 PM - Incident# 2789130 (1 lost trip, 162 lost minutes)

Operator reports of no movement

Train #111

T-75

(115A)-120-156

Artesia Station, Track #1, NB

10/17/2016 6:49:00 AM - Incident# 2789266 (0 lost trips, 5 lost minutes)

ATP failure.

Train # 102

T-335

(140A)-113-162

SB, Artesia Station, Track # 2

10/17/2016 6:52:00 AM - Incident# 2789271 (1 lost trip, 167 lost minutes)

Propulsion fault with a speed restriction.

Train 115

T-415

(AB)--

NB, Florence Station, Track 1

10/17/2016 9:09:00 AM - Incident# 2789371 (0 lost trips, 6 lost minutes)

Train 108 reports broken wiper on car (248B)

10/17/2016 3:01:00 PM - Incident# 2789600 (1 lost trip, 177 lost minutes)

Reports of self applying brakes

Train #106

T-286

156-158-117

Grand Station, Track #2, SB

10/19/2016 8:28:00 AM - Incident# 2790297 (1 lost trip, 167 lost minutes)

7MC, Train-115 T-415 consist #163-153-123 with dirty car on car #153A.

10/19/2016 4:33:00 PM - Incident# 2790499 (0 lost trips, 5 lost minutes)

Propulsion fault with a speed restriction.

Reports recurring propulsion dynamic brake fault.

Train 123

T-034

(148B)-(130)-(117)

Southbound, Willobrook Station, Track 2

10/20/2016 2:33:00 PM - Incident# 2791037 (0 lost trips, 10 lost minutes)

Reports of propulsion fault and MA Low/ Emergency lighting.

Train #109

T-348

116-145-109

Willow Station, Track #1, NB

10/20/2016 6:02:00 PM - Incident# 2791126 (1 lost trip, 167 lost minutes)

Reports of propulsion fault with a speed restriction of 35mph

Train #125

T-34

105-140-113

Willowbrook Station, Track #2, SB

10/21/2016 6:53:00 AM - Incident# 2791301 (0 lost trips, 6 lost minutes)

Auto Train Protection (Speed Limit) (No Movement)

(232B)-239-235

Train 111

T-211

Willow, Southbound, Track 2

10/21/2016 4:03:00 PM - Incident# 2791538 (0 lost trips, 5 lost minutes)

Propulsion / Dynamic Brakes

Train 123

T-034

237-(234)

Vernon Station, Track 2, Southbound

10/23/2016 6:10:00 PM - Incident# 2792004 (0 lost trips, 12 lost minutes)

Operator reports of no movement

Train 114

T-490

(240)247

Grand station, Trk. 1, northbound

10/24/2016 4:53:00 AM - Incident# 2792094 (0 lost trips, 5 lost minutes)

Propulsion / Dynamic Brakes

(163A)-158-168

Train 109

T-46

Willow, Southbound, Track 2

10/26/2016 9:49:00 AM - Incident# 2793174 (0 lost trips, 10 lost minutes)

MP 13.4 track-2, Train-118 T-262 consist #235-242-236 with loss of cab signaling and propulsion faults on rail vehicle also. Operating car/cab #235B.

10/28/2016 7:39:00 AM - Incident# 2794010 (1 lost trip, 166 lost minutes)

Operator reports friction brakes problems on LRV 156

Train 114

T-415

LRV'S (156) 129-166

Willow Station, track 2, Northbound (crossing over from track 2 to track 1 at willow pocket).

10/28/2016 12:52:00 PM - Incident# 2794156 (0 lost trips, 12 lost minutes)

Train 103 has a door problem. Doors 7 and 8 on 249A are off the track and will not close.

Train 103

T-251

LRV'S (249A) 236-250

Transit Mall, Track 1 northbound.

10/31/2016 8:00:00 AM - Incident# 2794850 (2 lost trips, 331 lost minutes)

Operator reports of an air leak

Train 113

T-487

(113)162-122

7th Metro Ctr., Trk.2, southbound

Police & Health Incidents:

10/1/2016 3:23:00 PM - Incident# 2783570 (0 lost trips, 12 lost minutes)

Operator reported sick individual.

Train 108

T-183

(140A)-117-161

Northbound, Willowbrook Station, Track 1

10/3/2016 7:04:00 PM - Incident# 2784195 (0 lost trips, 3,600 lost minutes)

T-415 was informed that there is a suspicious package on platform #1

10/6/2016 1:20:00 PM - Incident# 2785522 (0 lost trips, 5 lost minutes)

LASD Deputy Whitmore advises of a male black with a gun

10/6/2016 4:05:00 PM - Incident# 2785599 (0 lost trips, 12 lost minutes)

LASD reports of a traffic accident at 8th & Pine

10/10/2016 1:38:00 PM - Incident# 2786844 (0 lost trips, 8 lost minutes)

passenger refused medical attention.

Train 106

T-149

(126A)-118-157

Southbound, 1st Station, Track 2.

10/10/2016 7:42:00 PM - Incident# 2786961 (0 lost trips, 18 lost minutes)

Wilmington/T-353 reports a PIC reporting a man having a stroke.

10/14/2016 12:16:00 AM - Incident# 2788448 (0 lost trips, 10 lost minutes)

Sick patron on train

Train 104

Transit Mall Station Southside

T-237

(250A)-236

10/19/2016 11:56:00 AM - Incident# 2790383 (0 lost trips, 10 lost minutes)

3rd st and Long Beach Blvd. Trespasser

10/19/2016 5:13:00 PM - Incident# 2790513 (0 lost trips, 15 lost minutes)

Sick passenger

Train 102

T-059

111-(126)-160

Southbound, Grand station track 2.

10/24/2016 5:26:00 AM - Incident# 2792101 (0 lost trips, 10 lost minutes)

Traffic Accident MTA Not Involved at Myrrh Grade Crossing.

10/29/2016 1:07:00 PM - Incident# 2794415 (2 lost trips, 232 lost minutes)

Passenger alleged to have a gun. Black male, black shirt, black beanie.

Train 106

T-494

147-110

SB, PCH Station, Track 2

10/31/2016 4:55:00 PM - Incident# 2795073 (2 lost trips, 341 lost minutes)

Operator reports of a traffic accident (non MTA) at the intersection of Venice and Flower

Train 122

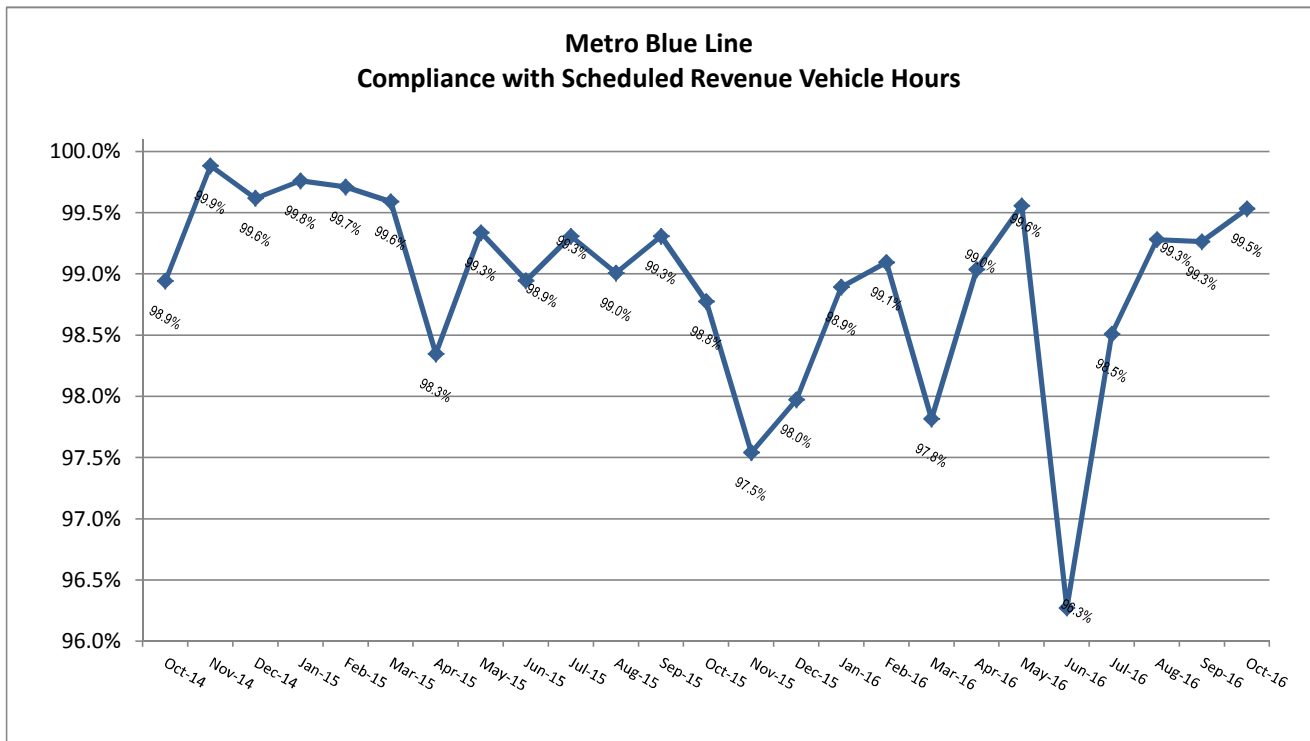
T-231

234-230-245

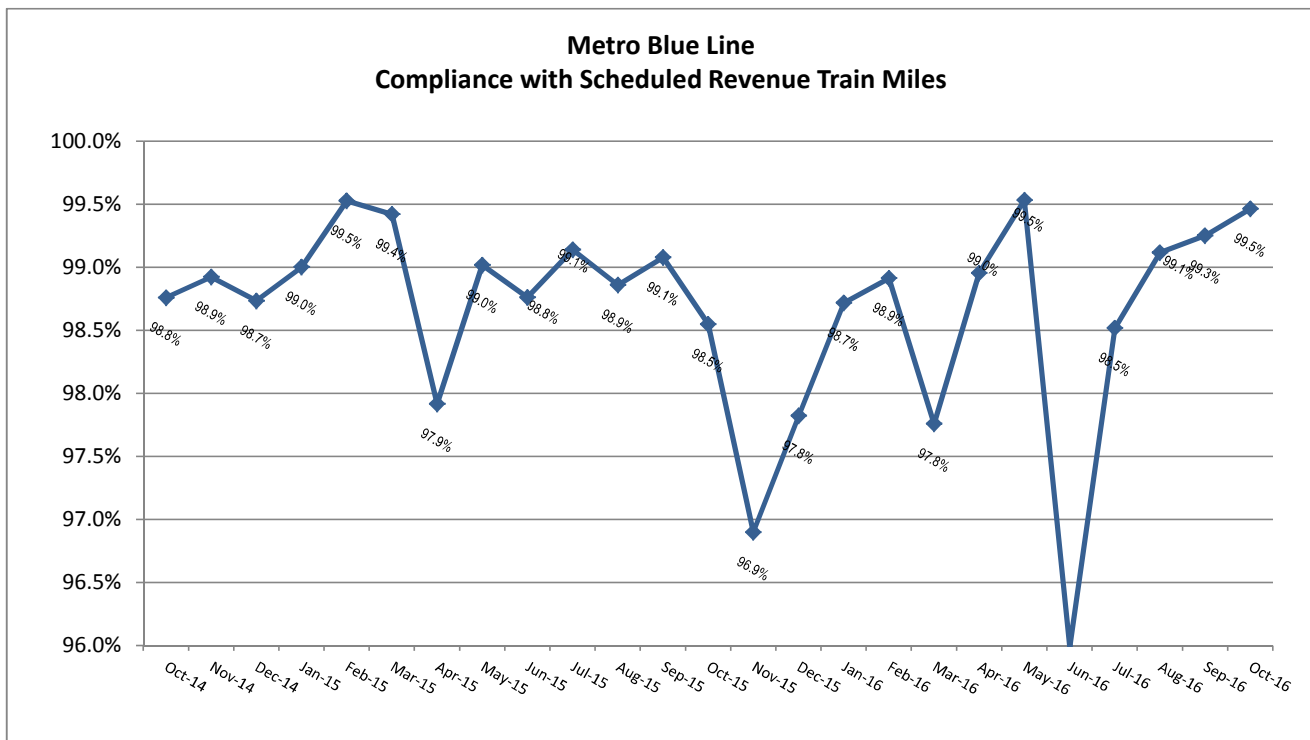
Venice Blvd., Trk. 1, northbound

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

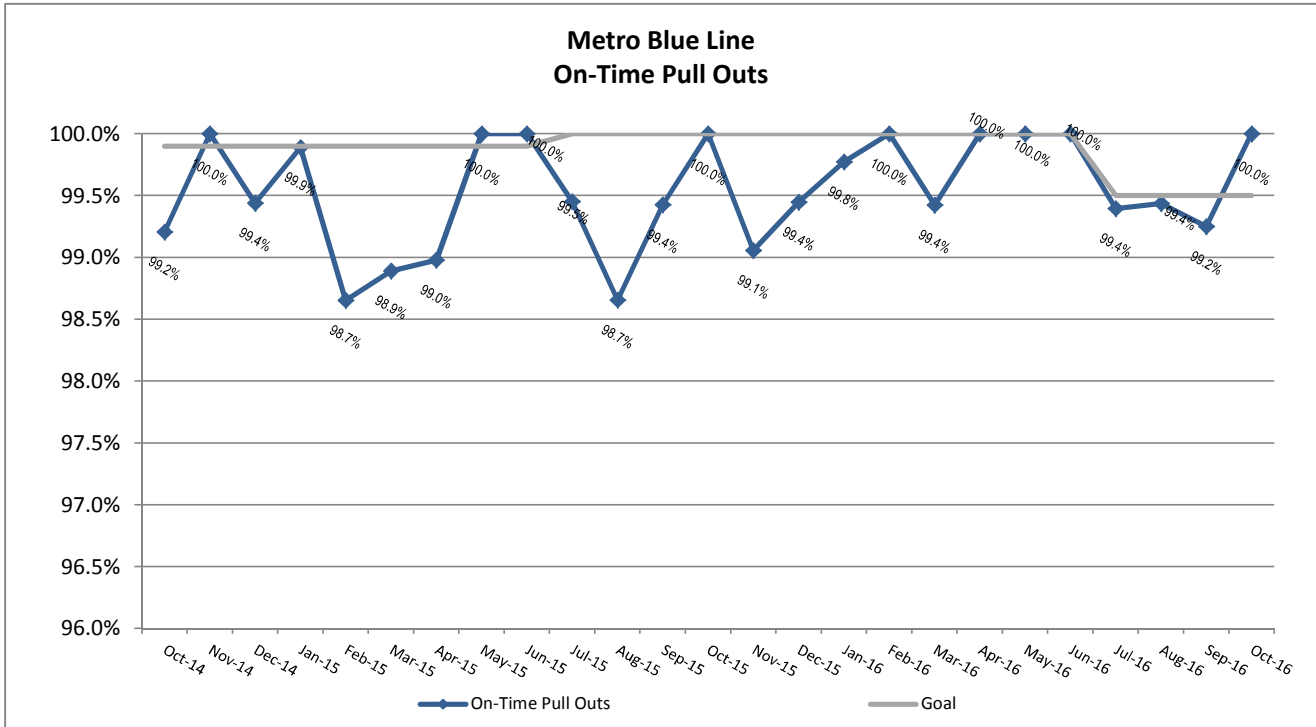
COMPLIANCE WITH SCHEDULED VEHICLE HOURS CHART



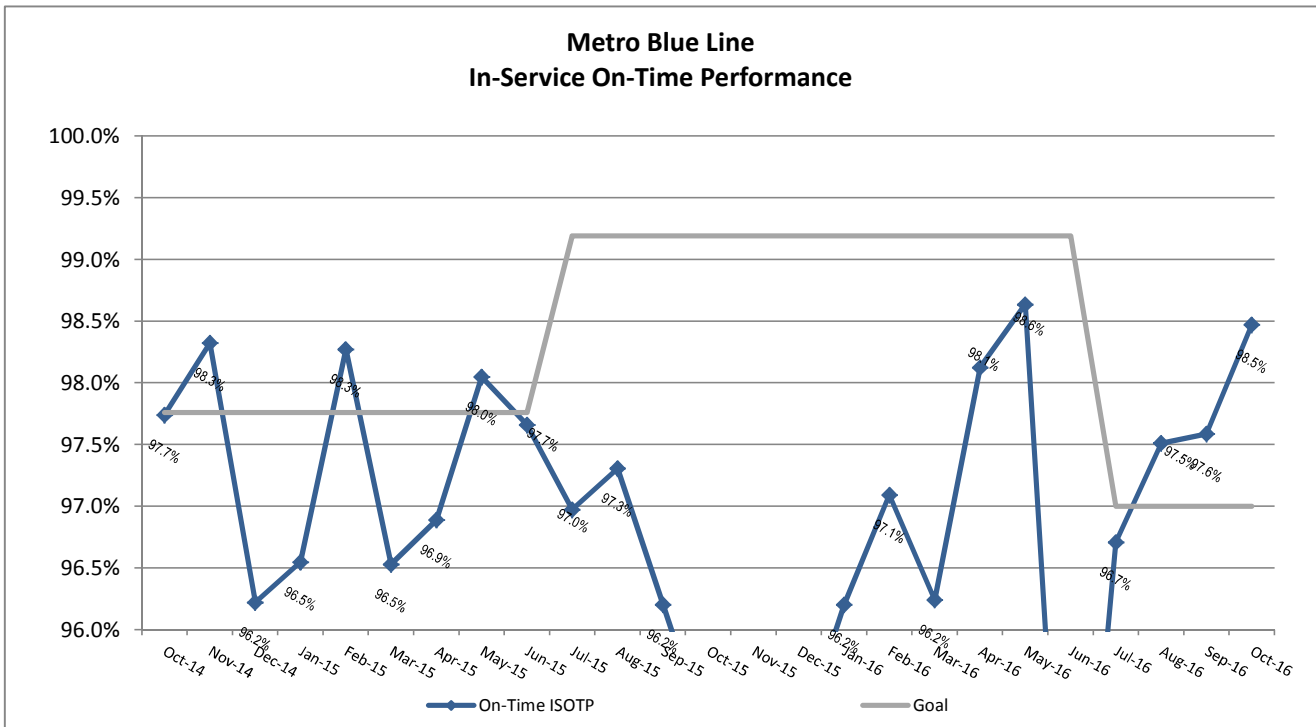
COMPLIANCE WITH SCHEDULED TRAIN MILES CHART



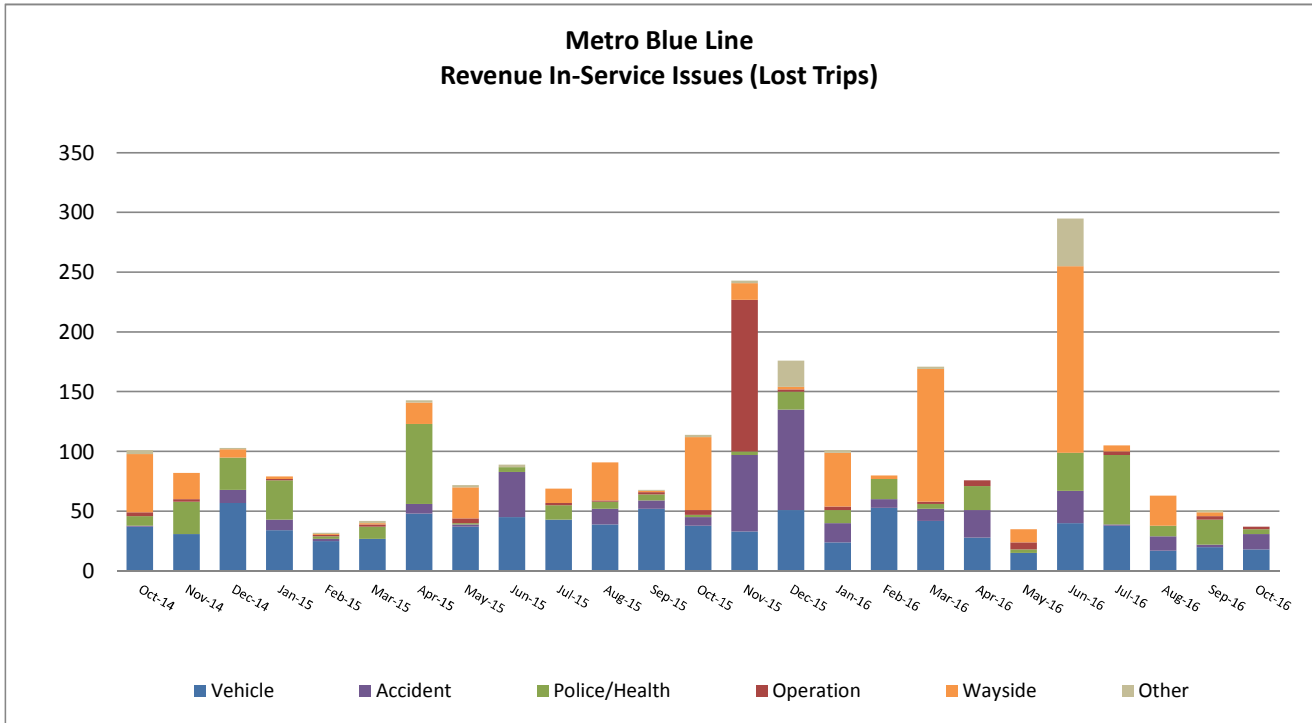
ON-TIME PULL OUTS CHART



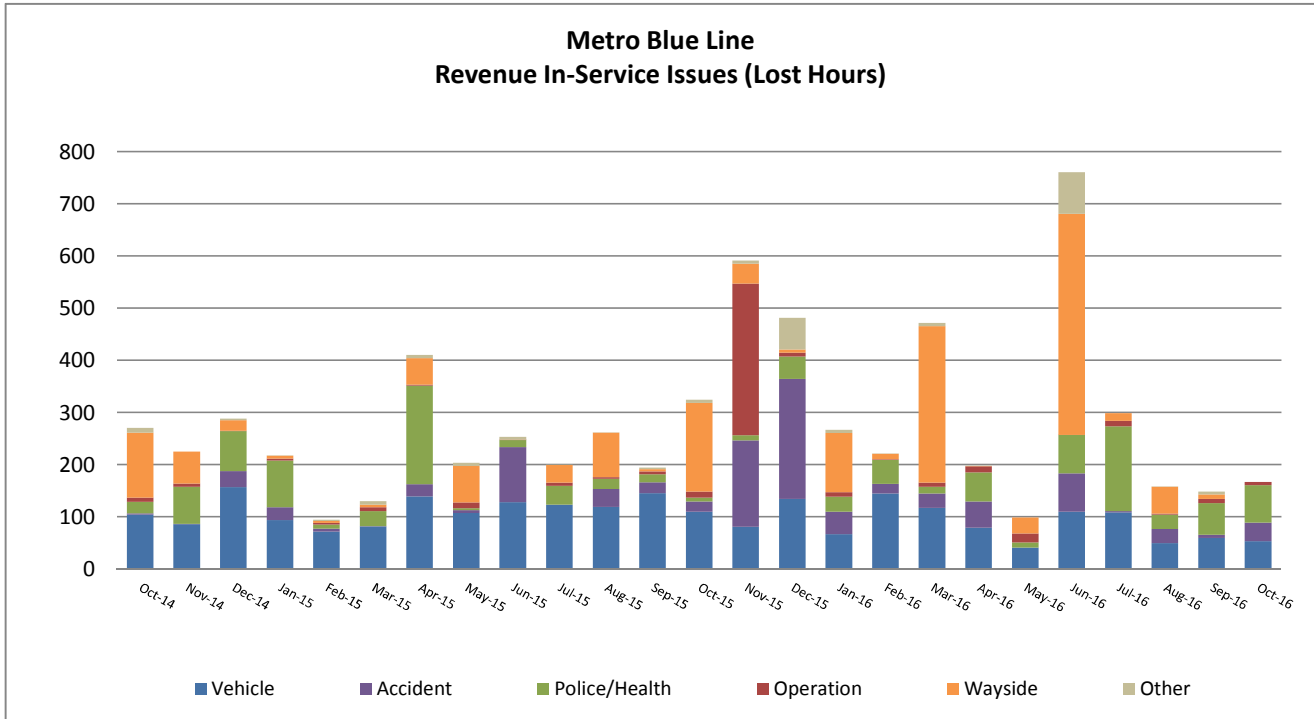
IN-SERVICE ON-TIME PERFORMANCE CHART



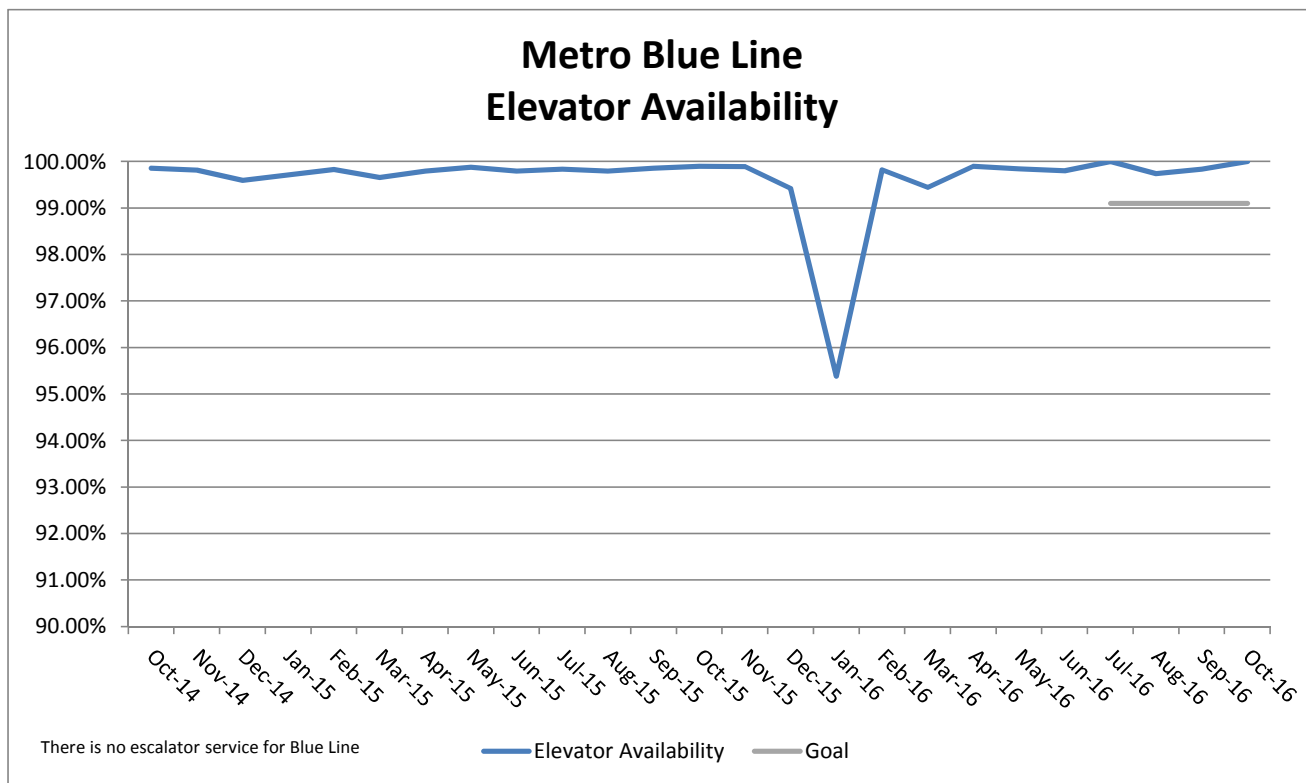
LOST TRIPS



LOST HOURS



VERTICAL TRANSPORTATION AVAILABILITY



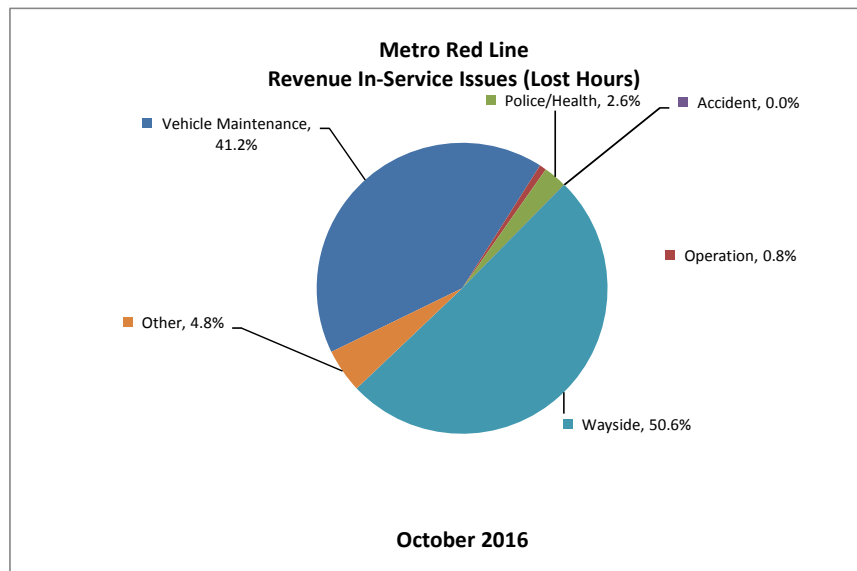
RED LINE

Out of a total of 27,195 hours operated, there were approximately 15 total hours of service delays.

October 2016 Service Hours *	Revenue	
	Hours	Per Cent
Revenue Hours without Delays	27,180	99.9%
Cancelled + Delayed Hours	15	0.1%
Total Revenue Hours	27,195	100.0%

Summary of the major contributors:	Count	Hours	Per Cent
Operations	1	0.1	0.8%
Accidents	0	0.0	0.0%
Vehicle Maintenance	8	6.3	41.2%
Wayside	1	7.7	50.6%
Police & Health	3	0.4	2.6%
Other	2	0.7	4.8%
Total	15	15.3	100.0%

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



October 2016 Red Line major delay contributors were as follows:

Operations Incidents:

10/18/2016 5:06:00 AM - Incident# 2789807 (0 lost trips, 7 lost minutes)

Train 201+07 West from Civic Center Station

Vehicle Maintenance Incidents:

10/7/2016 6:00:00 AM - Incident# 2785723 (0 lost trips, 7 lost minutes)

LVPS failure

Train 204

T-080

Cars 553-554-603-(604)-593-594

Wilshire Vermont AL East

10/8/2016 12:06:00 PM - Incident# 2786240 (0 lost trips, 9 lost minutes)

Operator reports doors are not opening.

Cars: 509 508 (505) 506 523 524.

Vermont Beverly Station, AL track, eastbound.

Train 202, T-483

10/11/2016 10:26:00 AM - Incident# 2787298 (0 lost trips, 5 lost minutes)

Car 523 doors 1/3 cut out

Train 202

T-209

7th Metro Station AL track Eastbound

consist 513-514-523-528

10/12/2016 10:04:00 PM - Incident# 2787974 (0 lost trips, 20 lost minutes)

Reports emergency brake failure, unable to move.

T-328

Train 217

Vermont Santa Monica, AL, Eastbound

Cars: 567 566 581 582 575 (576)

10/14/2016 11:12:00 AM - Incident# 2788643 (0 lost trips, 12 lost minutes)

Car 595-596 Electric Brake cut out and Propulsion cut out

Train 207

T-22

T-333

Civic Center Station and Westlake MacArthur park Station

AR Westbound

Consist 603-604-595-596

10/25/2016 5:10:00 PM - Incident# 2792885 (0 lost trips, 10 lost minutes)

Train 217 (591,592,585,586,563,564) T-217, Pershing Square Station, AL reports he is having a door problem.

10/27/2016 8:19:00 AM - Incident# 2793566 (0 lost trips, 6 lost minutes)

Train 207(539,540,533,534,591,59) T-319, 7th & Metro, AR reports possible door problem, friction brake application.

10/31/2016 8:19:00 PM - Incident# 2795111 (2 lost trips, 309 lost minutes)

Recurring Emergency Brake Application.

Train #214

T-166

Cars #(601)-602-541-542-553-554.

W/Bound Vermont Beverly Station A/R Track.

Wayside Incidents:

10/19/2016 4:33:00 PM - Incident# 2790524 (3 lost trips, 463 lost minutes)

SCADA indicates D05, D04, D03, and DIS 01 opened on their own at 7th Metro Cntr at 1633 hrs.

Police & Health Incidents:

10/1/2016 8:55:00 AM - Incident# 2783490 (0 lost trips, 8 lost minutes)

Patron reported laying on the floor of car 539 on train 201. Medical requested

10/18/2016 12:00:00 PM - Incident# 2789974 (0 lost trips, 6 lost minutes)

Female patron reported to have a seizure on board train 202 car 541 at Vermont Sunset Station

10/31/2016 5:14:00 PM - Incident# 2795079 (0 lost trips, 10 lost minutes)

Train # 213 Cars # 593-594-589-(590)-547-548 Operator T-483, reports a female patron has been assaulted.

Other Incidents:

10/23/2016 9:17:00 AM - Incident# 2791923 (0 lost trips, 40 lost minutes)

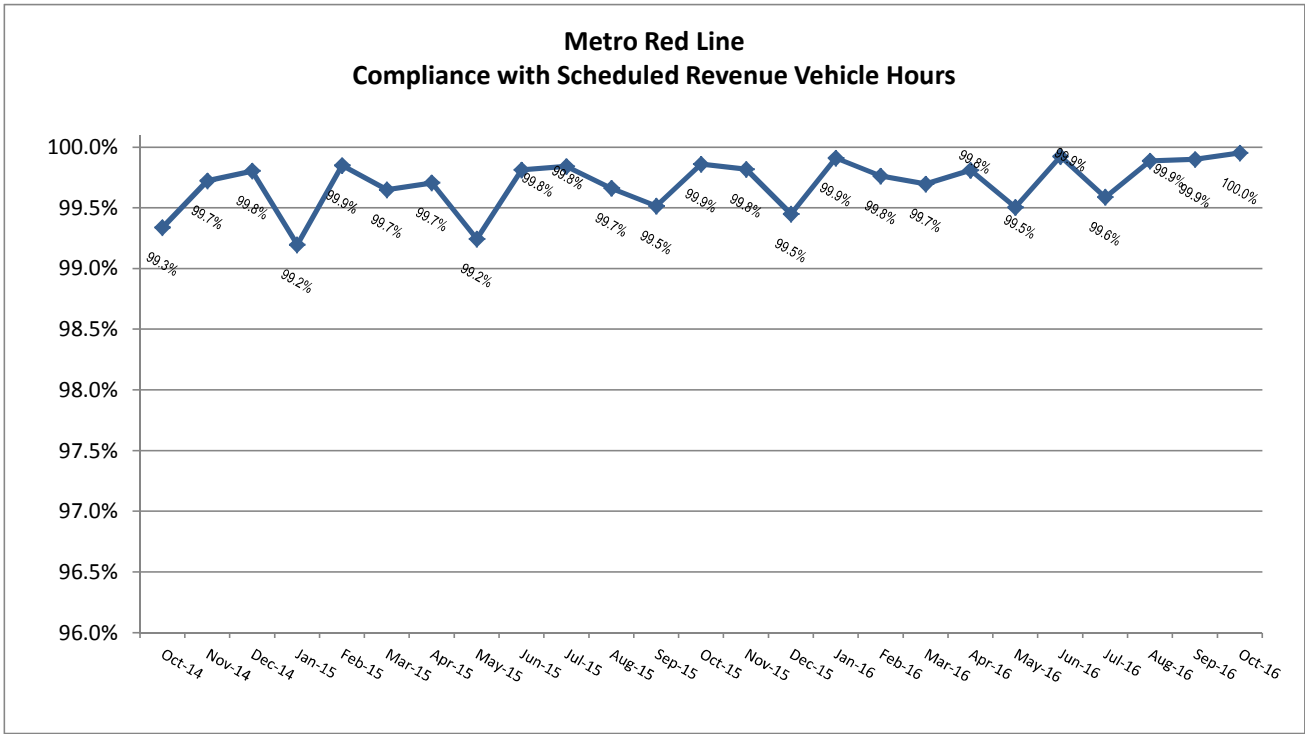
SCADA Failure system wide, Control unable to remotely close breakers at Union Station.

10/24/2016 2:26:00 PM - Incident# 2792392 (0 lost trips, 4 lost minutes)

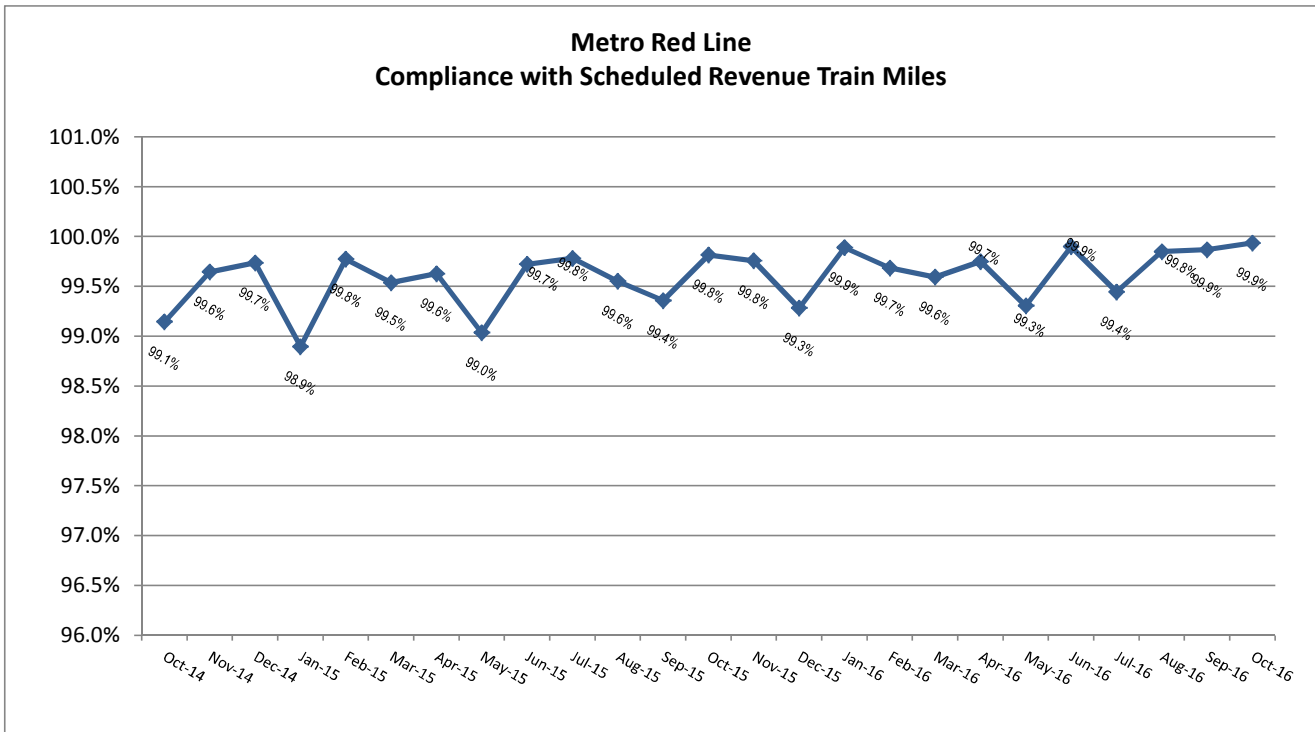
TRACS indicates loss of TRACS throughout the mainline.

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

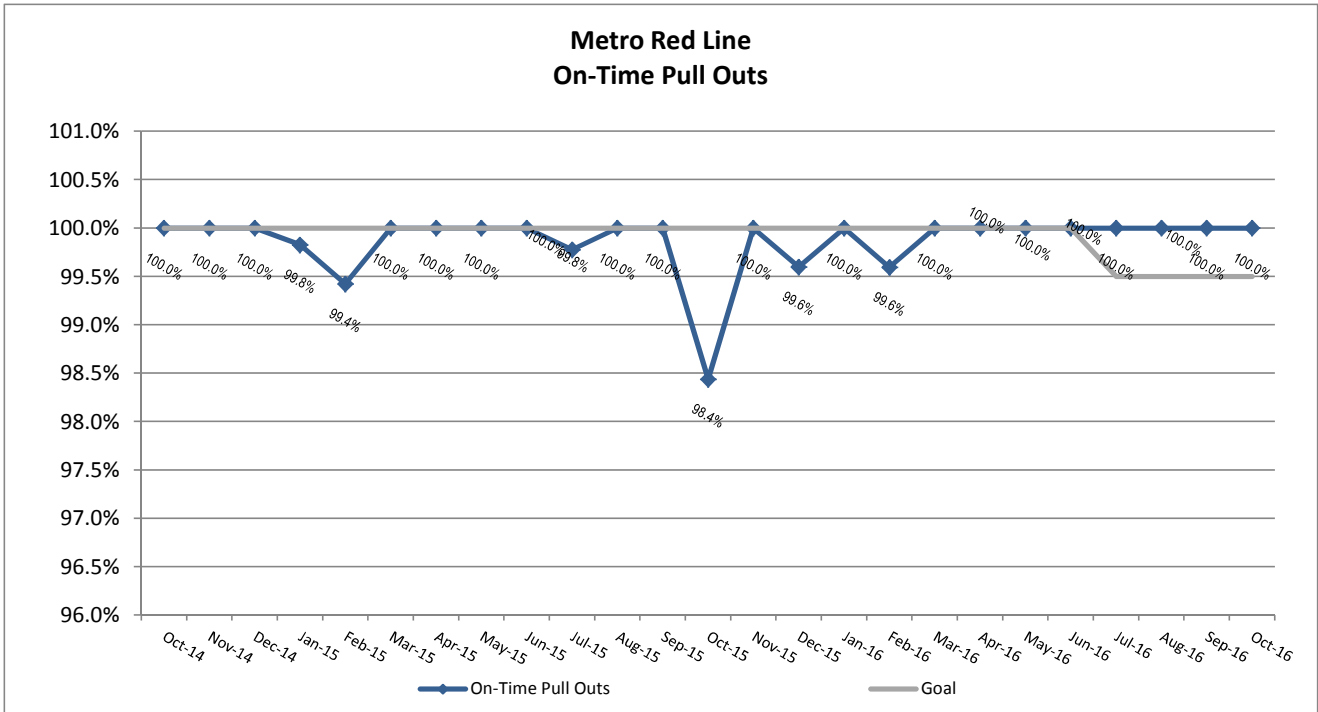
COMPLIANCE WITH SCHEDULED VEHICLE HOURS CHART



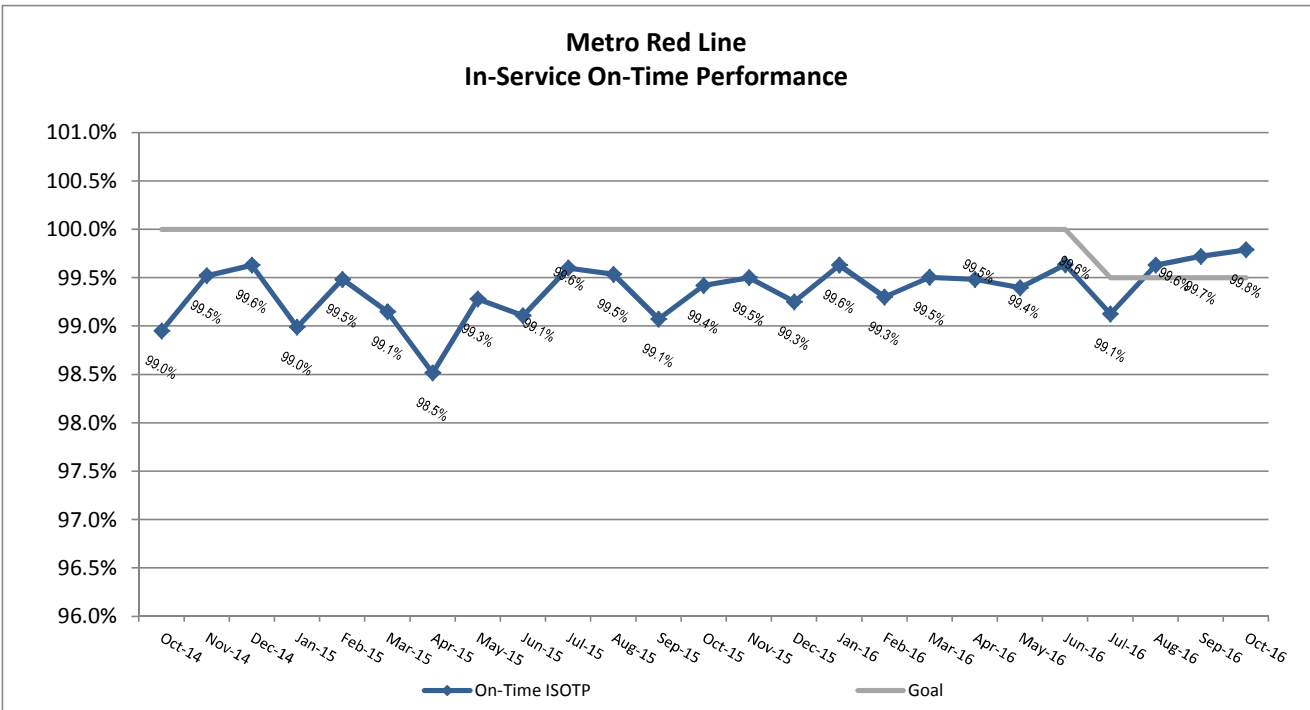
COMPLIANCE WITH SCHEDULED TRAIN MILES CHART



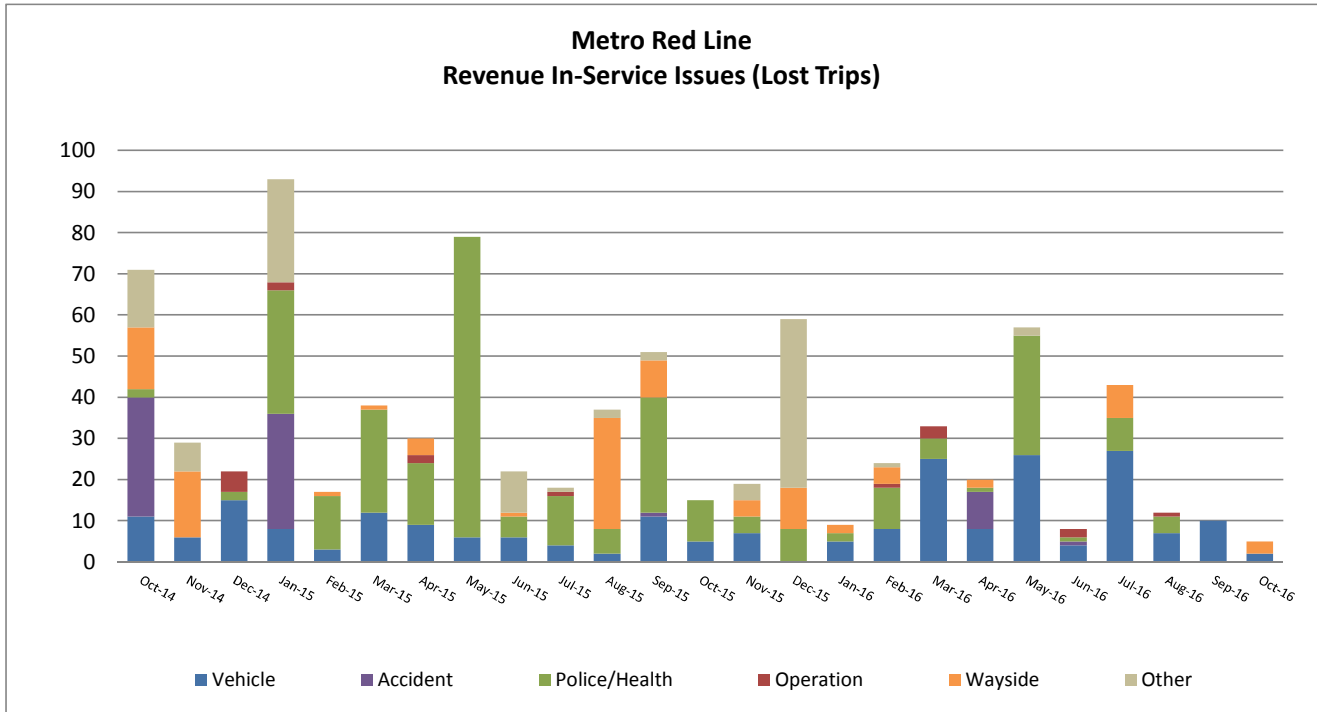
ON-TIME PULL OUTS CHART



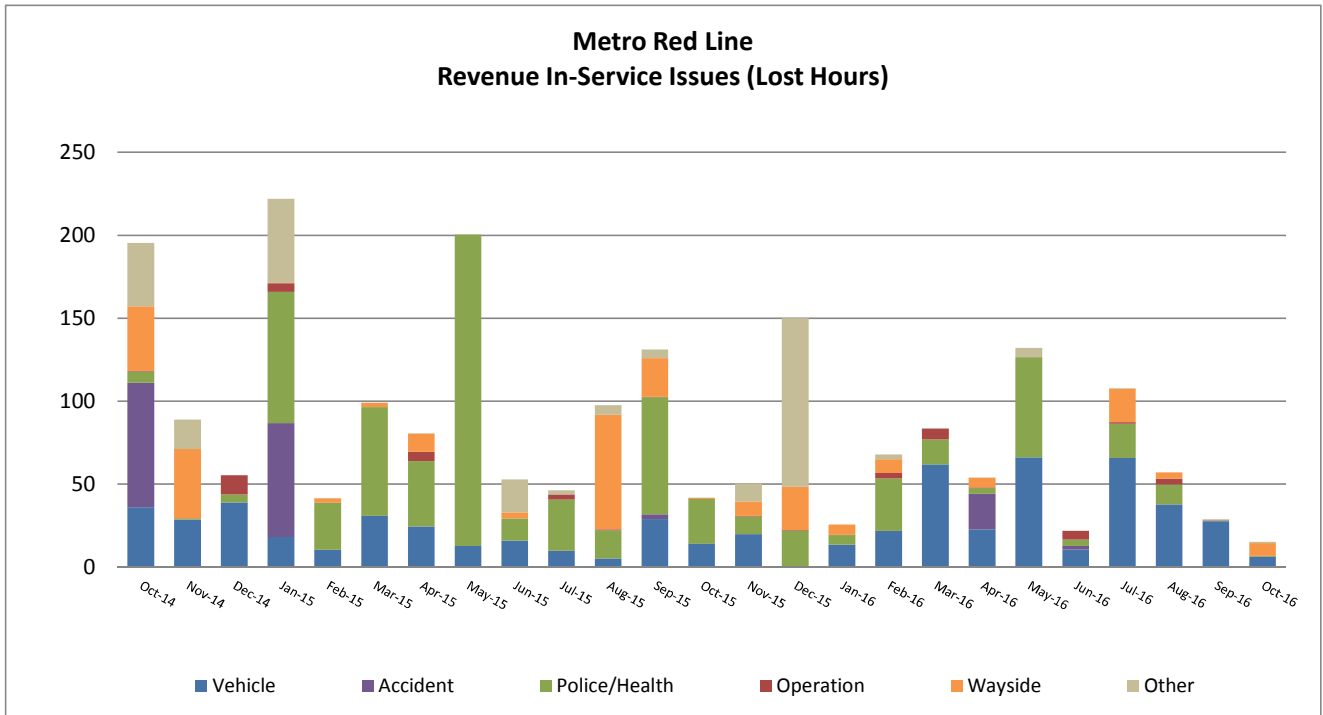
IN-SERVICE ON-TIME PERFORMANCE CHART



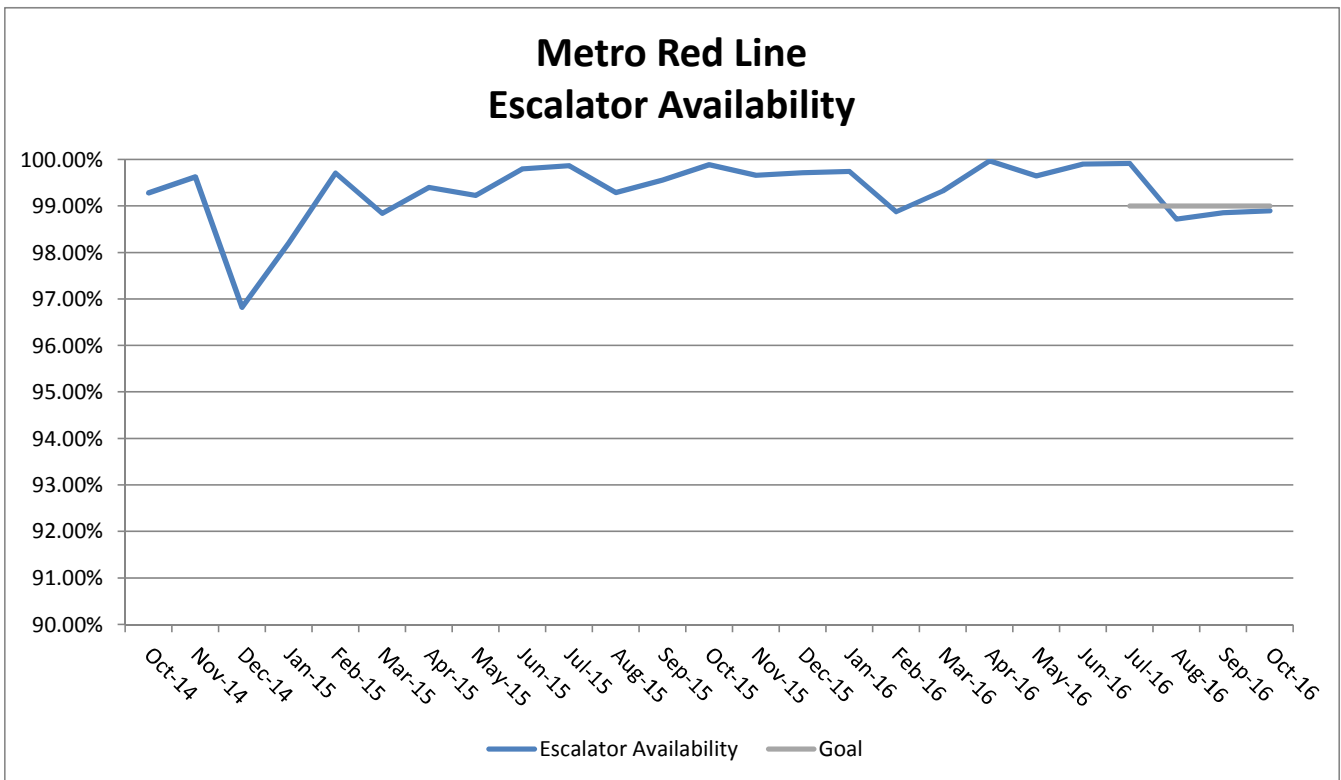
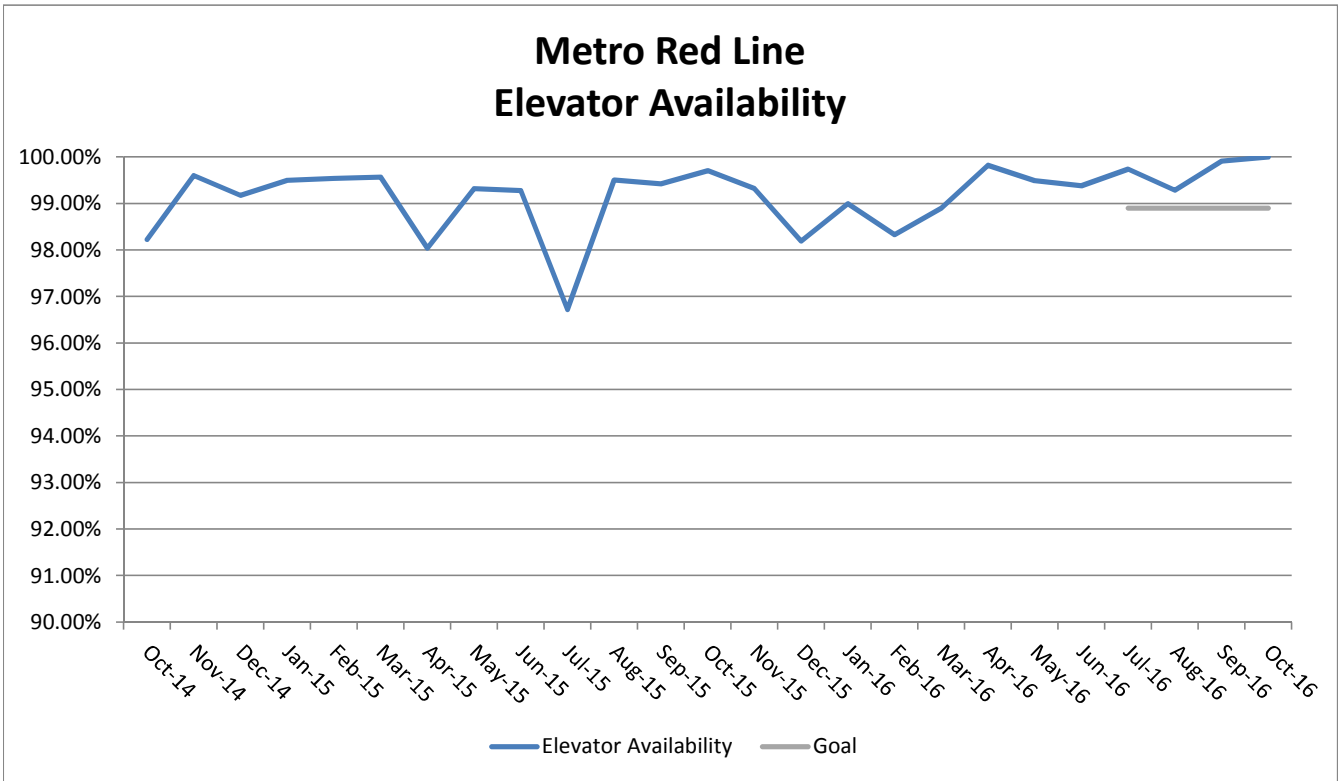
LOST TRIPS



LOST TRIPS



VERTICAL TRANSPORTATION AVAILABILITY



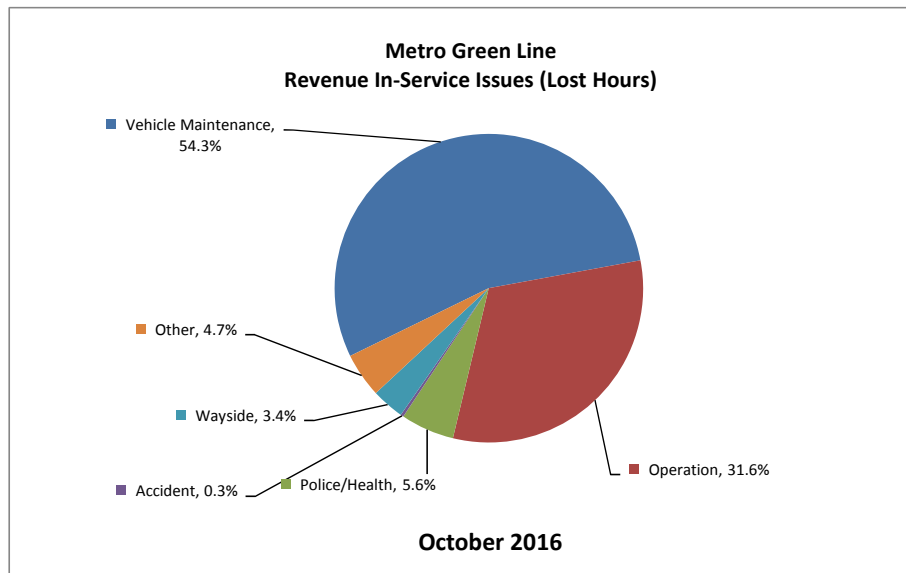
GREEN LINE

Out of a total of 7,992 hours operated, there were approximately 21 total hours of service delays.

October 2016 Service Hours *	Revenue	
	Hours	Per Cent
Revenue Hours without Delays	7,970	99.7%
Cancelled + Delayed Hours	21	0.3%
Total Revenue Hours	7,992	100.0%

Summary of the major contributors:	Count	Hours	Per Cent
Operations	3	6.8	31.6%
Accidents	1	0.1	0.3%
Vehicle Maintenance	18	11.6	54.3%
Wayside	5	0.7	3.4%
Police & Health	2	1.2	5.6%
Other	1	1.0	4.7%
Total	30	21.4	100.0%

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



October 2016 Green Line major delay contributors were as follows:

Operations Incidents:

10/3/2016 2:32:00 PM - Incident# 2784110 (6 lost trips, 395 lost minutes)

Due to no manpower at the Green Line Yard, Alpha "I" has been canceled. Summary adjustments will be made to provide rush hour service with minimal delays.

10/4/2016 2:52:00 PM - Incident# 2784564 (0 lost trips, 5 lost minutes)

Late pull out due to signaling issues in the yard.

10/6/2016 3:25:00 PM - Incident# 2785582 (0 lost trips, 7 lost minutes)

No operator

Accidents:

10/19/2016 4:39:00 PM - Incident# 2790508 (0 lost trips, 4 lost minutes)

Train vs. bicycle, Cars #(203A)-205

Train #332

T-274

Harbor Station, Track #002, Eastbound

Vehicle Maintenance Incidents:

10/1/2016 2:34:00 PM - Incident# 2783543 (1 lost trip, 60 lost minutes)

Propulsion unable to clear. cars 204A-208

T-235

Train 334

Westbound

Long Beach station

MTO MODE

10/2/2016 1:02:00 PM - Incident# 2783733 (1 lost trip, 62 lost minutes)

Friction brake fault cars 201-225

T-269

Train 333

Track 2

Eastbound

Crenshaw station

ATO MODE

10/2/2016 10:03:00 PM - Incident# 2783809 (1 lost trip, 82 lost minutes)

Car 205 lost air pressure

T-13

Train 332

Consist(205)

East of Douglas Station, Track #2, Eastbound

10/3/2016 6:25:00 AM - Incident# 2783873 (0 lost trips, 7 lost minutes)

Loss of cab signal

Train 336

LRV 222A/224

T-496

Marine station track 1

10/3/2016 1:15:00 PM - Incident# 2784077 (1 lost trip, 66 lost minutes)

Auto Train Protection (Speed Limit), Cars #(221A-210)

Train #332

T-274

Wilmington East tail track, track #002, Eastbound

10/4/2016 4:02:00 PM - Incident# 2784621 (0 lost trips, 5 lost minutes)

Car 223A Prop fault/Speed Restriction not clearing.

T-409

Train 352

Cars (223A)-205

Marine Station, Tracj 2, eastbound.

10/5/2016 3:53:00 PM - Incident# 2785105 (0 lost trips, 5 lost minutes)

Cab signal loss

Train 350

Car 223

T-343

Wilmington Station

Westbound

10/5/2016 5:55:00 PM - Incident# 2785143 (0 lost trips, 5 lost minutes)

Car 221B loses ATP in ATO/Manual Modes.

T-105

Train 334

Cars (221B)-243

Vermont Station, Track 2,westbound.

10/5/2016 7:37:00 PM - Incident# 2785164 (0 lost trips, 15 lost minutes)

Emergency lighting
Train 361
Car 228
T-105
Normalk Station

10/7/2016 8:25:00 AM - Incident# 2785851 (1 lost trip, 73 lost minutes)

Friction brakes failure to release.
Train # 341
T-344
Cars # 211-(224-B)
W/Bound approaching Hawthorne Station Track-1.

10/13/2016 4:35:00 PM - Incident# 2788357 (0 lost trips, 7 lost minutes)

ATP failure/loss of cab signal
Train 333
T-458
El Segundo Interlocking
Eastbound

10/17/2016 4:57:00 PM - Incident# 2789661 (0 lost trips, 7 lost minutes)

Auto Train Protection (Speed Limit), Cars #(207A)-203
Train #353
T-458
Norwalk Station, Track #001, Westbound.

10/20/2016 2:45:00 PM - Incident# 2791077 (1 lost trip, 66 lost minutes)

No fault no movement cars 220-207
Train 352
T-247
Track 2
Eastbound
YDI #4

10/20/2016 5:17:00 PM - Incident# 2791120 (0 lost trips, 8 lost minutes)

Propulsion fault unable to clear. cars 207-204
Train 31
T-343
Track 2
Marine station
East bound

10/22/2016 9:24:00 PM - Incident# 2791824 (0 lost trips, 5 lost minutes)

Windows on doors 1 and 2 are shattered on car 208B.

Train 331

T-450

Track 1, W/B

Norwalk Station

(208B)-218

ATO mode

10/25/2016 7:06:00 AM - Incident# 2792623 (1 lost trip, 74 lost minutes)

Car 204 B has unclearable prop faults with speed restriction

T-057

Train-342

Consist-204(203B)

Crenshaw Station, Track #2, Eastbound

10/26/2016 6:16:00 AM - Incident# 2793035 (0 lost trips, 12 lost minutes)

Friction brake fault. Speed restriction.

Train 342

T-40

Norwalk Station

Track 1, W/B

ATO & MTO modes

(204A)-209

10/27/2016 6:44:00 AM - Incident# 2793517 (2 lost trips, 141 lost minutes)

Doors will not open.

Train 335

Track 1, W/B

Lakewood Station

T-71

(210A)-223

ATO & MTO modes

Wayside Incidents:

10/9/2016 12:02:00 PM - Incident# 2786443 (0 lost trips, 4 lost minutes)

Marine interlocking false occupancy.

10/14/2016 1:05:00 PM - Incident# 2788713 (0 lost trips, 12 lost minutes)

False occupancy (Track Circuit 21)

10/20/2016 9:22:00 AM - Incident# 2790846 (0 lost trips, 7 lost minutes)

Aviation East to Crenshaw

10/22/2016 7:33:00 PM - Incident# 2791812 (0 lost trips, 10 lost minutes)

Multiple locations with breakers opened, Hawthorne yard, El Segundo, Crenshaw, Paramount and Bell flower. De energized tracks at the locations stated.

10/24/2016 5:44:00 AM - Incident# 2792098 (0 lost trips, 10 lost minutes)

OCS: hanger wires and arm damage

R-099

2.0 mile post marker, 100 East of Douglas Station, track #001

Police & Health Incidents:

10/2/2016 4:14:00 PM - Incident# 2783769 (1 lost trip, 62 lost minutes)

Person on bridge over norwalk station, LASD has stopped train movement.

10/8/2016 1:07:00 PM - Incident# 2786255 (0 lost trips, 10 lost minutes)

Train unable to depart norwalk station due to trespasser.

Train 332

T-235

204A-216

Track 1

Norwalk station

Westbound

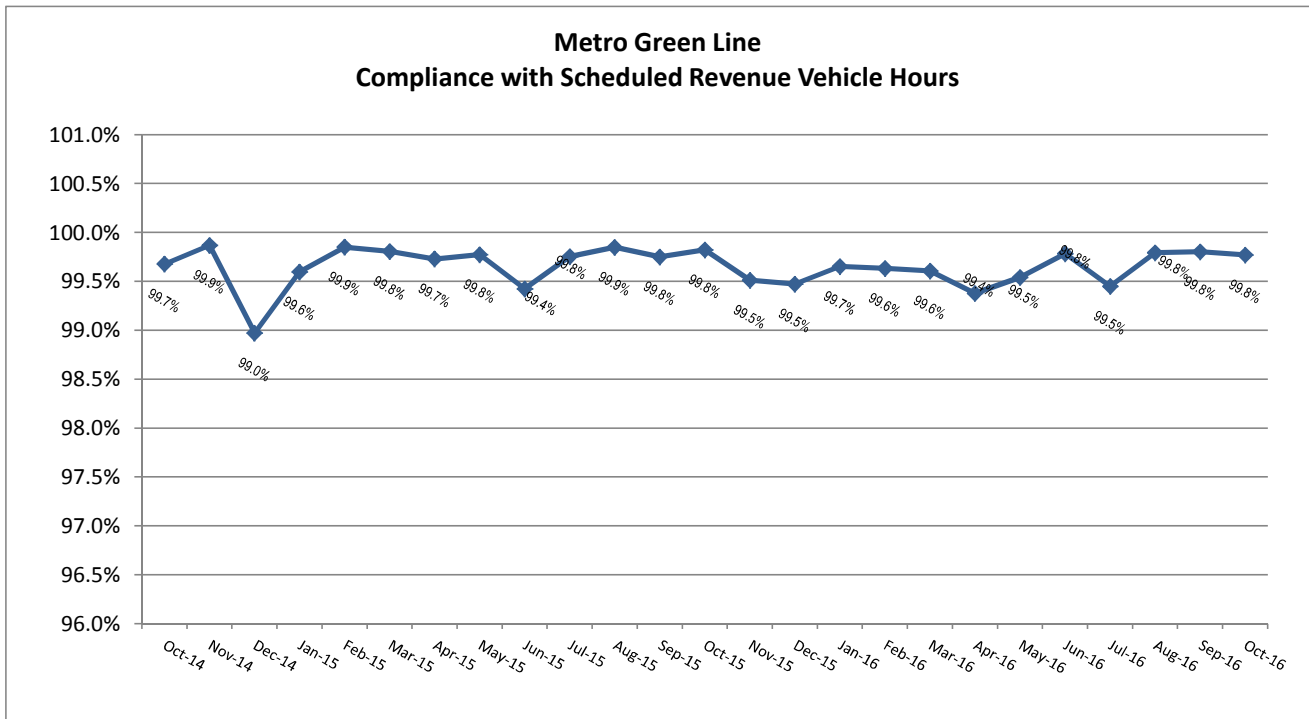
Other Incidents:

10/1/2016 2:50:00 PM - Incident# 2783546 (1 lost trip, 60 lost minutes)

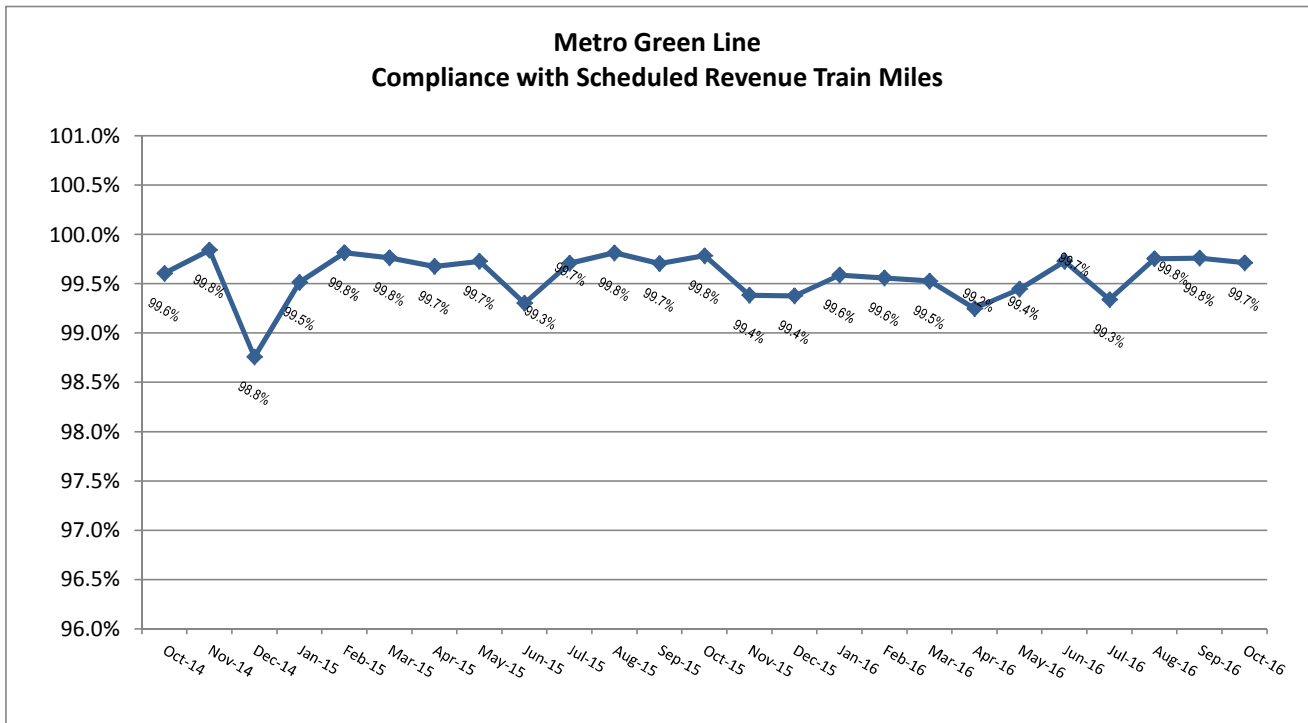
Palm trees outside of ROC need to be trimmed

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

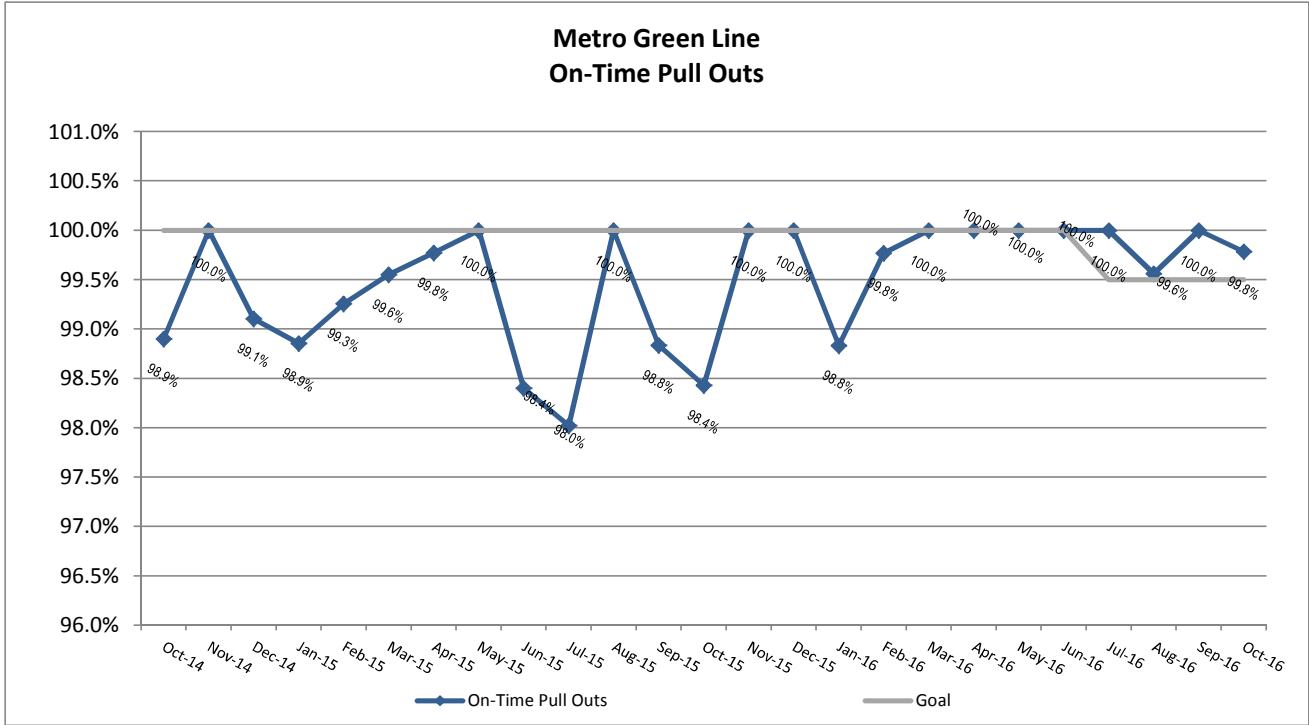
COMPLIANCE WITH SCHEDULED VEHICLE HOURS CHART



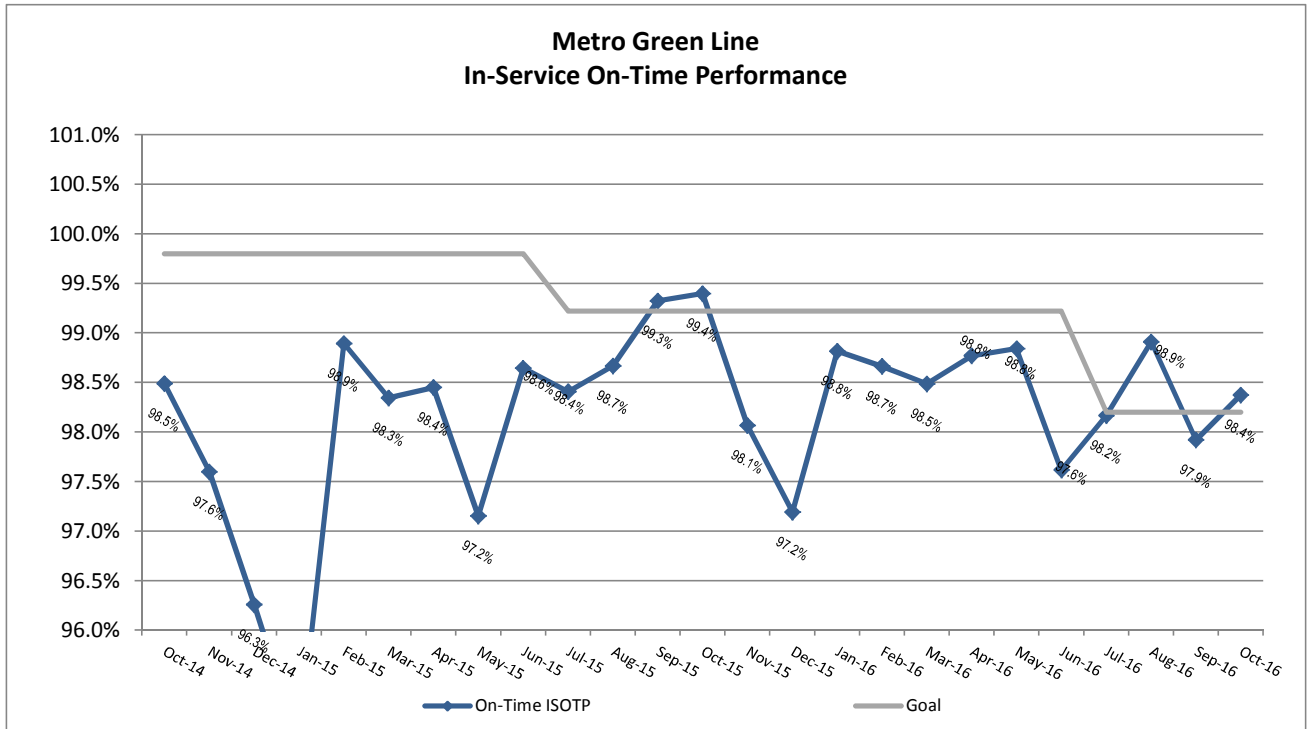
COMPLIANCE WITH SCHEDULED TRAIN MILES CHART



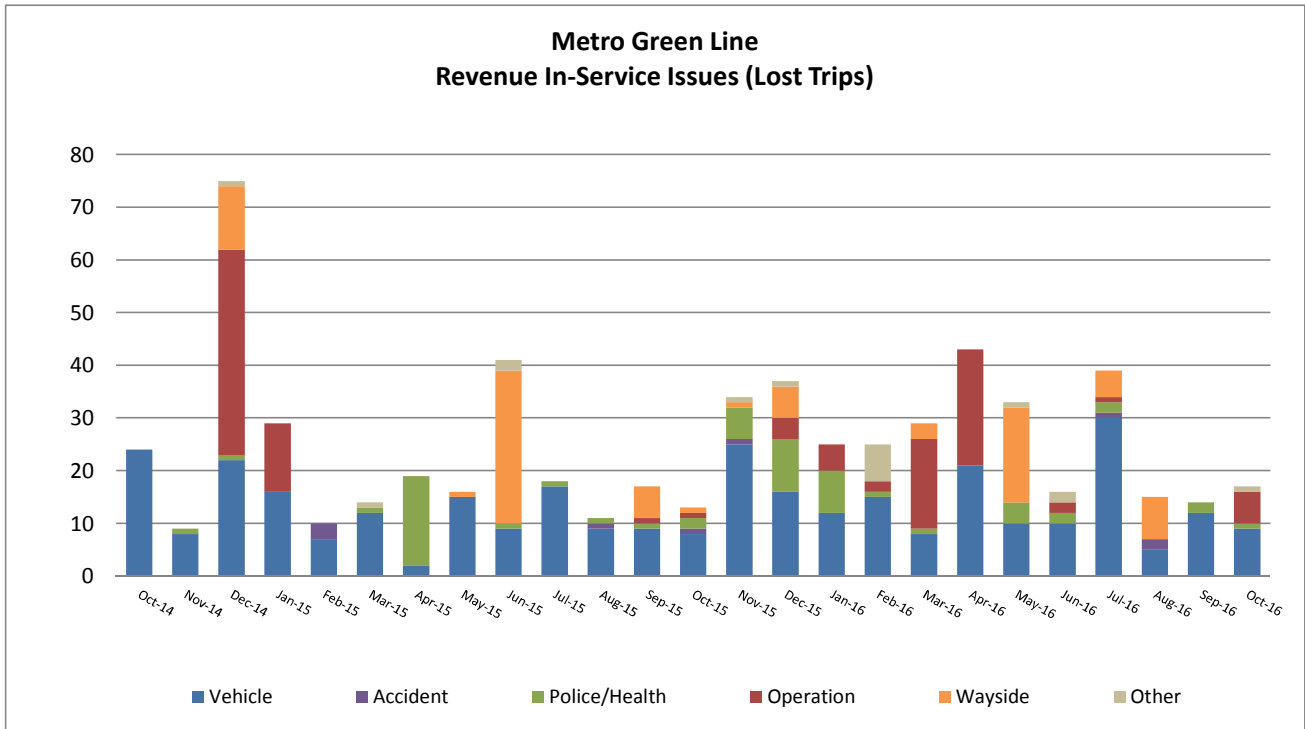
ON-TIME PULL OUTS CHART



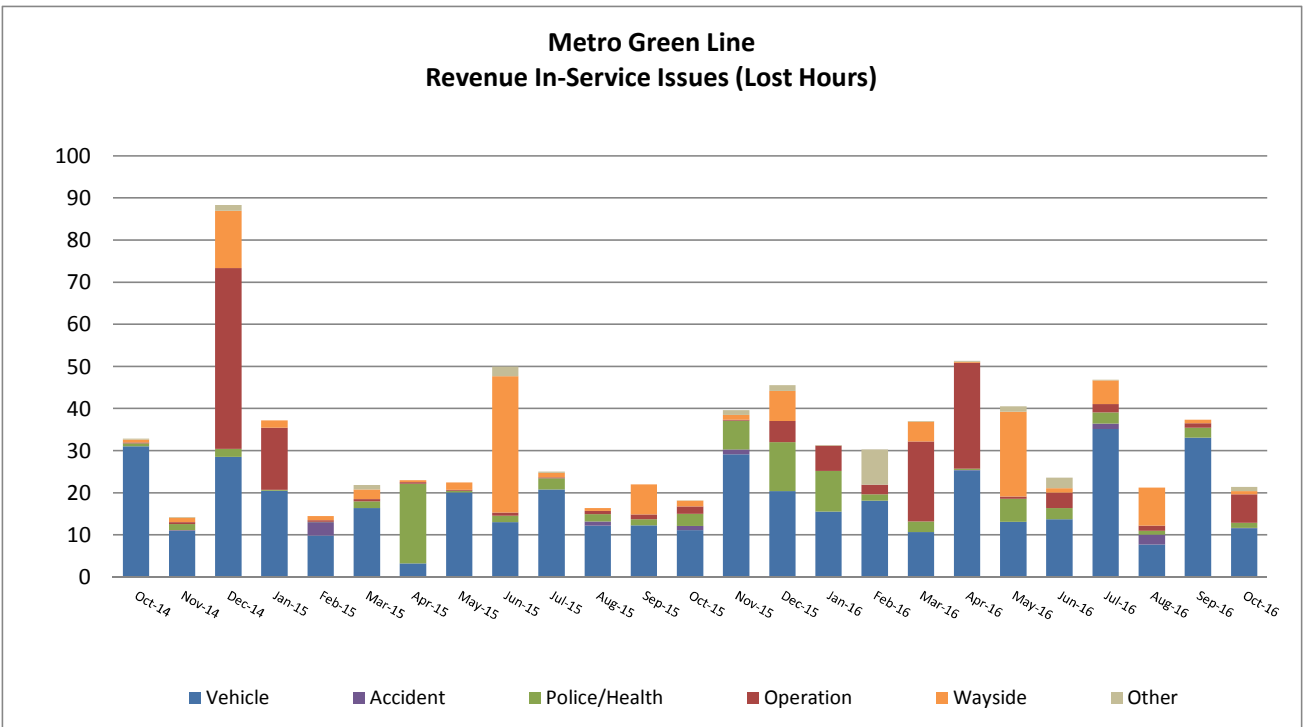
IN-SERVICE ON-TIME PERFORMANCE CHART



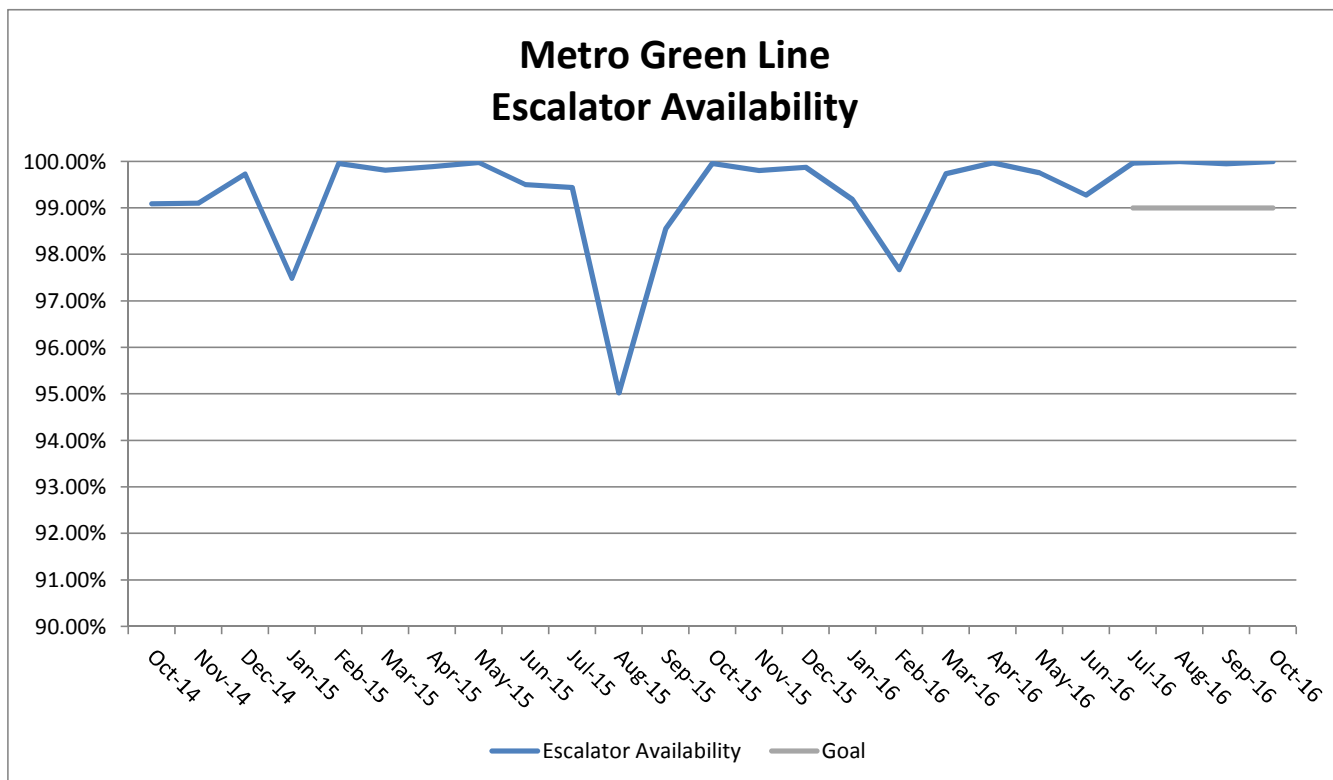
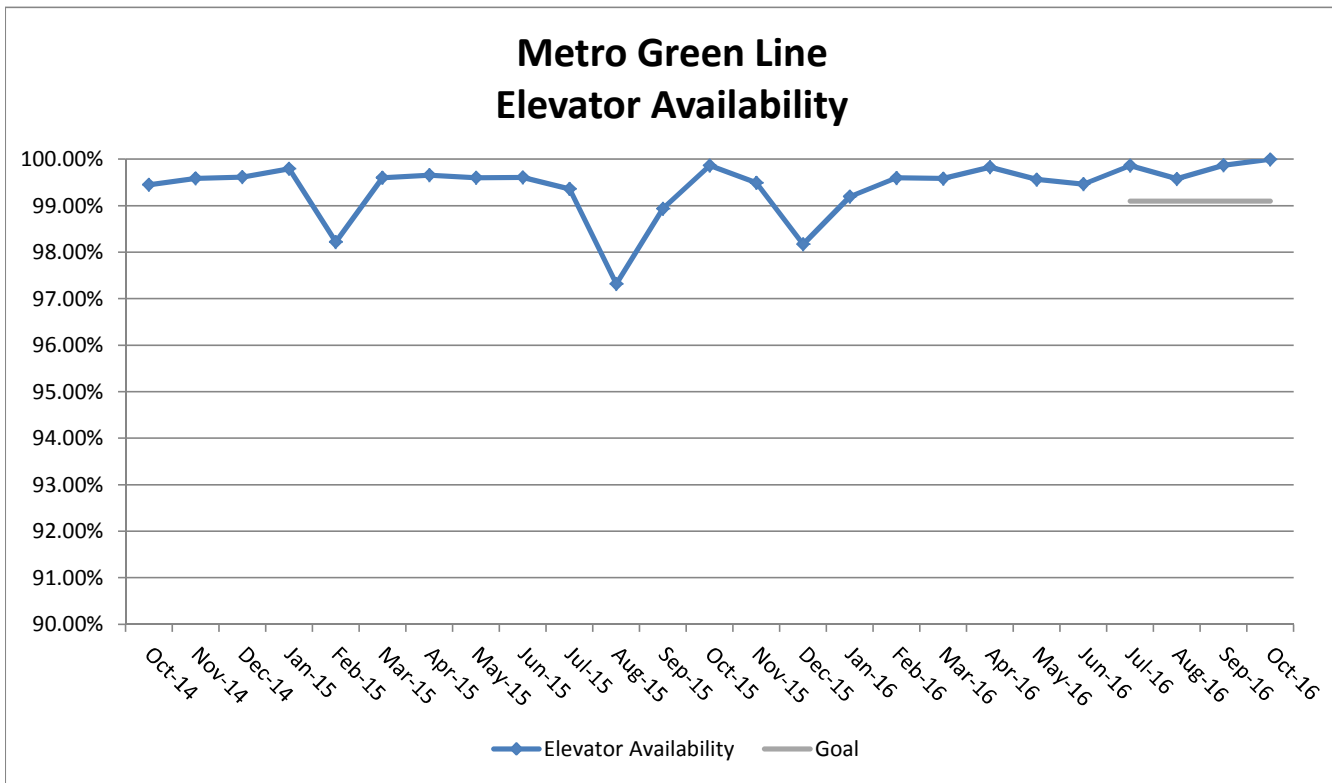
LOST TRIPS



LOST HOURS



VERTICAL TRANSPORTATION AVAILABILITY



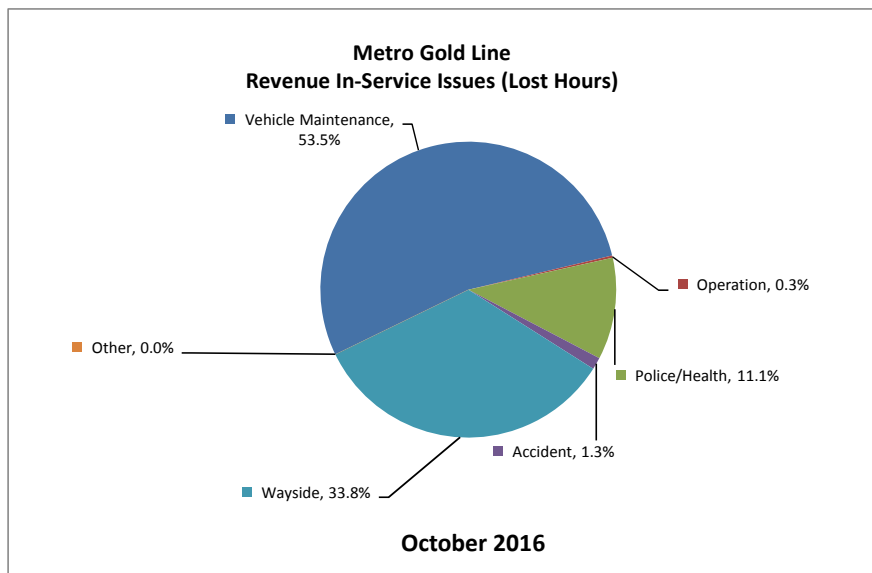
GOLD LINE

Out of a total of 19,505 hours operated, there were approximately 322 total hours of service delays.

October 2016 Service Hours *	Revenue	
	Hours	Per Cent
Revenue Hours without Delays	19,182	98.3%
Cancelled + Delayed Hours	322	1.7%
Total Revenue Hours	19,505	100.0%

Summary of the major contributors:	Count	Hours	Per Cent
Operations	4	0.9	0.3%
Accidents	3	4.3	1.3%
Vehicle Maintenance	26	172.4	53.5%
Wayside	3	108.9	33.8%
Police & Health	5	35.8	11.1%
Other	0	0.0	0.0%
Total	41	322.2	100.0%

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



October 2016 Gold Line major delay contributors were as follows:

Operations Incidents:

10/13/2016 7:49:00 AM - Incident# 2788110 (0 lost trips, 5 lost minutes)

Operator Late

T-159

Train 452

LRV (706) 708

Union Station, Track 1, Northbound.

10/24/2016 7:43:00 AM - Incident# 2792210 (0 lost trips, 9 lost minutes)

Train 427, T-338 experienced no movement departing Azusa / Citrus.

10/27/2016 8:27:00 PM - Incident# 2793853 (0 lost trips, 15 lost minutes)

Single tracking implemented Irwindale and Citrus station on track 2 due to Hi-rail vehicle setting on. (Emergency Work being performed)

10/30/2016 6:30:00 AM - Incident# 2794535 (0 lost trips, 23 lost minutes)

Tree trimming as per Track Allocation.

Accidents:

10/6/2016 9:54:00 PM - Incident# 2785672 (0 lost trips, 10 lost minutes)

10/72 at Ave 57 Track 1 Northbound.

T-11, Train 401 (non revenue)

Operating Car 726A, 748

10/9/2016 2:51:00 AM - Incident# 2786375 (1 lost trip, 244 lost minutes)

Train 407 was involved in a vehicular hit and run (10-73) southbound at Avenue 52.

10/10/2016 5:22:00 AM - Incident# 2786587 (0 lost trips, 4 lost minutes)

Allleged Slip/Fall on LRV 737A

T-347

Train # 411

LRV (737A) 743

Monrovia Station, Track 1, northbound.

Vehicle Maintenance Incidents:

10/3/2016 5:35:00 AM - Incident# 2783863 (1 lost trip, 224 lost minutes)

Train 405, Cars (1011) and 1010.

Azusa/ Citrus Station, Platform 1 south.

No cab signal and sluggish propulsion.

10/7/2016 7:34:00 AM - Incident# 2785824 (1 lost trip, 229 lost minutes)

Master Controller loose on LRV 703A
T-077
Train 453
LRV (703A) 704
Atlantic Station, Track 1, northbound.

10/7/2016 4:44:00 PM - Incident# 2786077 (1 lost trip, 231 lost minutes)

Propulsion failure on consist (1011)1015.
Southwest Museum Station
Train #429, T-463, track #2, southbound.

10/8/2016 2:45:00 PM - Incident# 2786287 (0 lost trips, 9 lost minutes)

(729)-733
Propulsion Fault
Train# 402
SB Allen
T-151

10/11/2016 10:03:00 AM - Incident# 2787264 (2 lost trips, 464 lost minutes)

ATP fault no movement
Train #407 T-014 Car#1008A-1009
Highland park station northbound.

10/11/2016 3:50:00 PM - Incident# 2787460 (2 lost trips, 461 lost minutes)

No movement consist (1011B)1015.
Sierra Madre Station
Train #405, T-482, track #2, southbound.

10/11/2016 6:05:00 PM - Incident# 2787499 (0 lost trips, 10 lost minutes)

ATP failure consist (747B)713.
Arcadia Station
Train #407, T-273, track #1, northbound.

10/12/2016 8:57:00 AM - Incident# 2787706 (2 lost trips, 471 lost minutes)

Propulsion / Dynamic Brakes LRV 710
T-017
Train 452
LRV 710 705
SMV Station, Track 2, southbound.

10/13/2016 4:53:00 AM - Incident# 2788032 (0 lost trips, 12 lost minutes)

APS fault with no AC rail car 1006

T-120, Train 404

1007-(1006)

Track 2, Citrus, South

10/13/2016 5:55:00 PM - Incident# 2788384 (2 lost trips, 463 lost minutes)

(741)-715

ATP/ADU Miscommunication

Train 427

NB Union Station

T-232

10/14/2016 6:40:00 PM - Incident# 2788801 (2 lost trips, 462 lost minutes)

No high or low horn (718A)740.

Arcadia Station

Train #407, T-441, track #2, southbound.

10/15/2016 11:12:00 PM - Incident# 2789010 (0 lost trips, 10 lost minutes)

Train 409 Atlantic Station

No Fault - No Movement

Car 740-B

10/17/2016 7:37:00 AM - Incident# 2789386 (0 lost trips, 10 lost minutes)

Prop fault

Train 404

Cars: (1005A)-1009

T-109

Southbound, Track 2, Citrus station

10/17/2016 8:38:00 PM - Incident# 2789714 (13 lost trips, 3,009 lost minutes)

Car 1012-1006 no movement, unable to initiate stop and proceed.

T-425

Train 421

Cars (1012)-1006

Union Station North Interlocking signal 2N Track 1 NB.

10/20/2016 9:41:00 AM - Incident# 2790844 (0 lost trips, 8 lost minutes)

Self Applying Friction Brakes LRV 941B

T-248

Train 408

LRV (741B) 748

Civic Center Station, Track 1, northbound.

10/22/2016 9:01:00 PM - Incident# 2791821 (0 lost trips, 13 lost minutes)

Auto Train Protection (Speed Limit) ATP failure
cars #(747B)-727
Train #407
T-441
Irwindale Station, Track #002, Southbound

10/24/2016 1:38:00 PM - Incident# 2792381 (0 lost trips, 12 lost minutes)

Train 404, Cars 714 and 727.
Duarte Station, Track 2 south.
Prop fault unclearable.

10/24/2016 3:24:00 PM - Incident# 2792435 (2 lost trips, 483 lost minutes)

T-453 reports smoke in the train on train 404, cars 735-738, Highland Park Station, Track 1, Northbound.

10/24/2016 7:31:00 PM - Incident# 2792492 (1 lost trip, 232 lost minutes)

T-151 on train 453 cars 1008,1007 reports no movement at Highland Park Station, Track 1, Northbound.

10/25/2016 9:38:00 AM - Incident# 2792680 (0 lost trips, 13 lost minutes)

Friction brakes wont release
Train 402
LRV 741A/731
T-103
Duarte station track 2 southbound

10/25/2016 11:48:00 AM - Incident# 2792741 (1 lost trip, 232 lost minutes)

Speed restriction unknown cause
Train 407
LRV 1010/1015
T-173
Irwindale station track 2 southbound

10/26/2016 6:55:00 AM - Incident# 2793049 (0 lost trips, 10 lost minutes)

Auto Train Protection (Speed Limit)
T-338
Train 425
LRV 747-743
Lake Station, Track 1, northbound.

10/26/2016 3:41:00 PM - Incident# 2793312 (1 lost trip, 252 lost minutes)

Friction brakes would not release 727,(741 B)

Lincoln Heights station

Train 455, T-60, TK 1, NB

10/26/2016 6:07:00 PM - Incident# 2793344 (1 lost trip, 232 lost minutes)

ATP failure 736,(712)

Downtown Azusa

Train 438, T-196, Tk 2, SB

10/28/2016 7:03:00 AM - Incident# 2793997 (12 lost trips, 2,785 lost minutes)

Propulsion / Dynamic Brakes, cars #(741-736)

Train #406

T-028

60 Fwy, Track #002, Southbound.

10/31/2016 9:11:00 AM - Incident# 2794866 (0 lost trips, 7 lost minutes)

Auto Train Protection (Speed Limit) failure on LRV 747A

T-270

Train 401

LRV 747A-736

Irwindale Station, Track 2, southbound.

Wayside Incidents:

10/4/2016 10:00:00 AM - Incident# 2784441 (0 lost trips, 18 lost minutes)

Blown OCS insulation on track #2, by MOS 221 Indiana Siding.

10/7/2016 10:09:00 AM - Incident# 2785891 (0 lost trips, 10 lost minutes)

Track MT-126, walking Track Inspection from SMV to Fillmore Station.

10/27/2016 3:32:00 PM - Incident# 2793827 (28 lost trips, 6,503 lost minutes)

Damaged OCS

Azusa Citrus tail track 1

Police & Health Incidents:

10/13/2016 4:45:00 PM - Incident# 2788362 (6 lost trips, 1,389 lost minutes)

T-441 Reported Vehicle Fouling Track 2 at 1st and Indiana.

10/18/2016 11:07:00 AM - Incident# 2789962 (0 lost trips, 4 lost minutes)

Patron reporting a man with a gun on Train 402, LRV (749)-741, northbound from Memorial Park Station.

10/23/2016 7:21:00 PM - Incident# 2792020 (0 lost trips, 25 lost minutes)

Train 402 reported a stalled vehicle on track no.1 at Fremont and Grevelia.

10/27/2016 11:22:00 AM - Incident# 2793638 (2 lost trips, 480 lost minutes)

Notified by LASD Dixon of a trespasser on right of way between Union and Chinatown.

10/27/2016 1:39:00 PM - Incident# 2793662 (1 lost trip, 249 lost minutes)

Medical emergency on board train 401

T-134

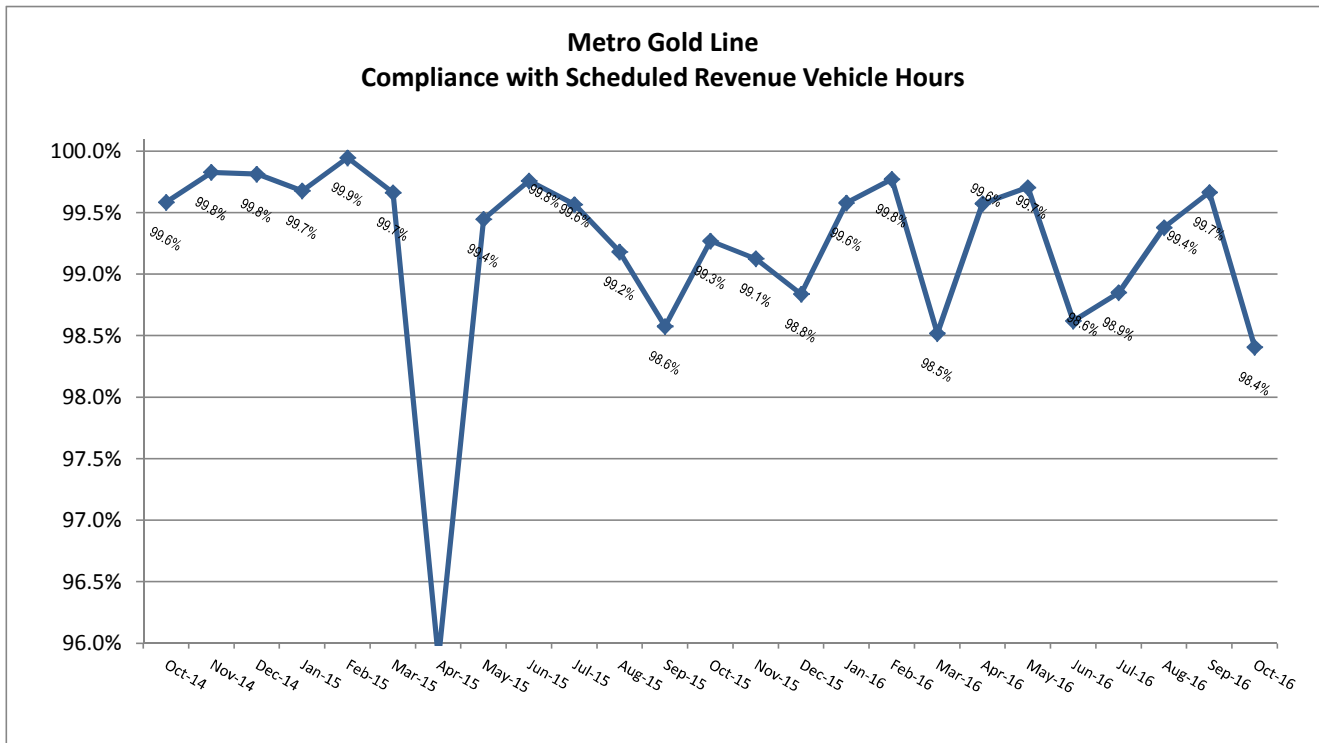
Train 401

Track 2 at South Pasadena.

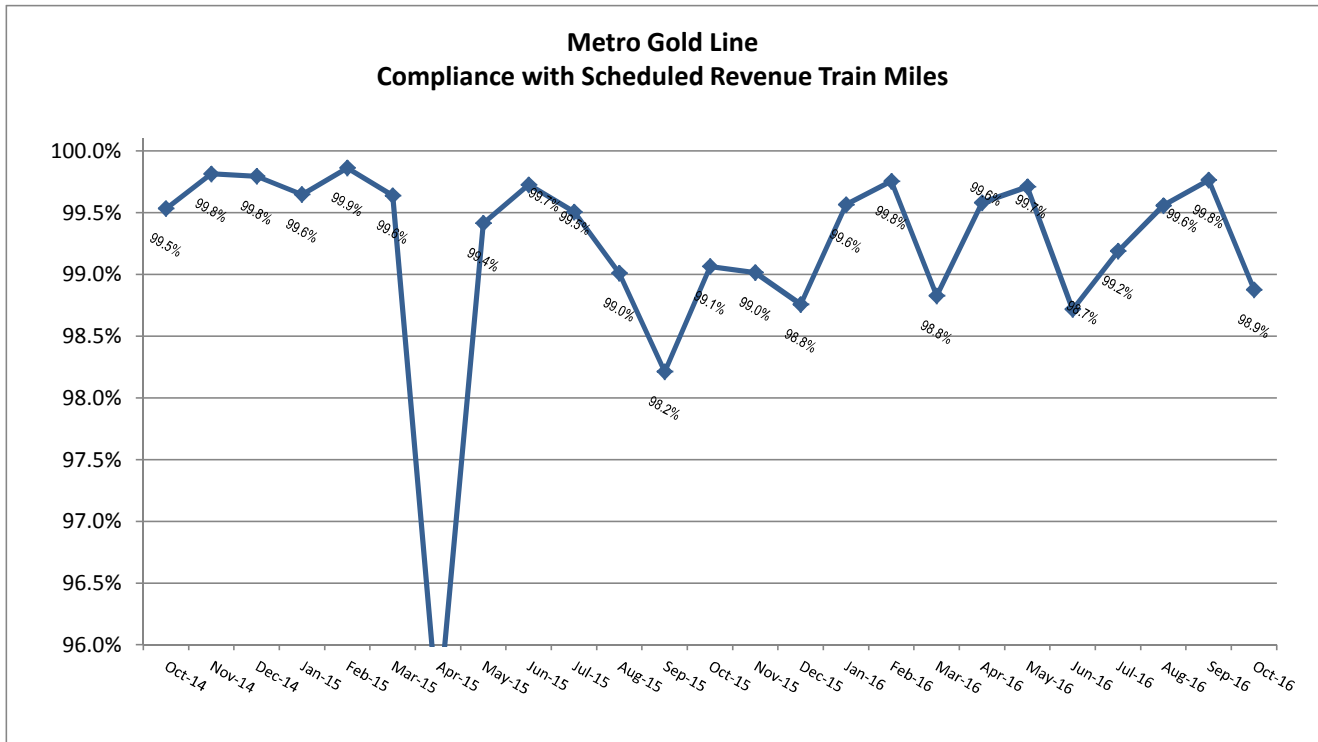
714 735

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

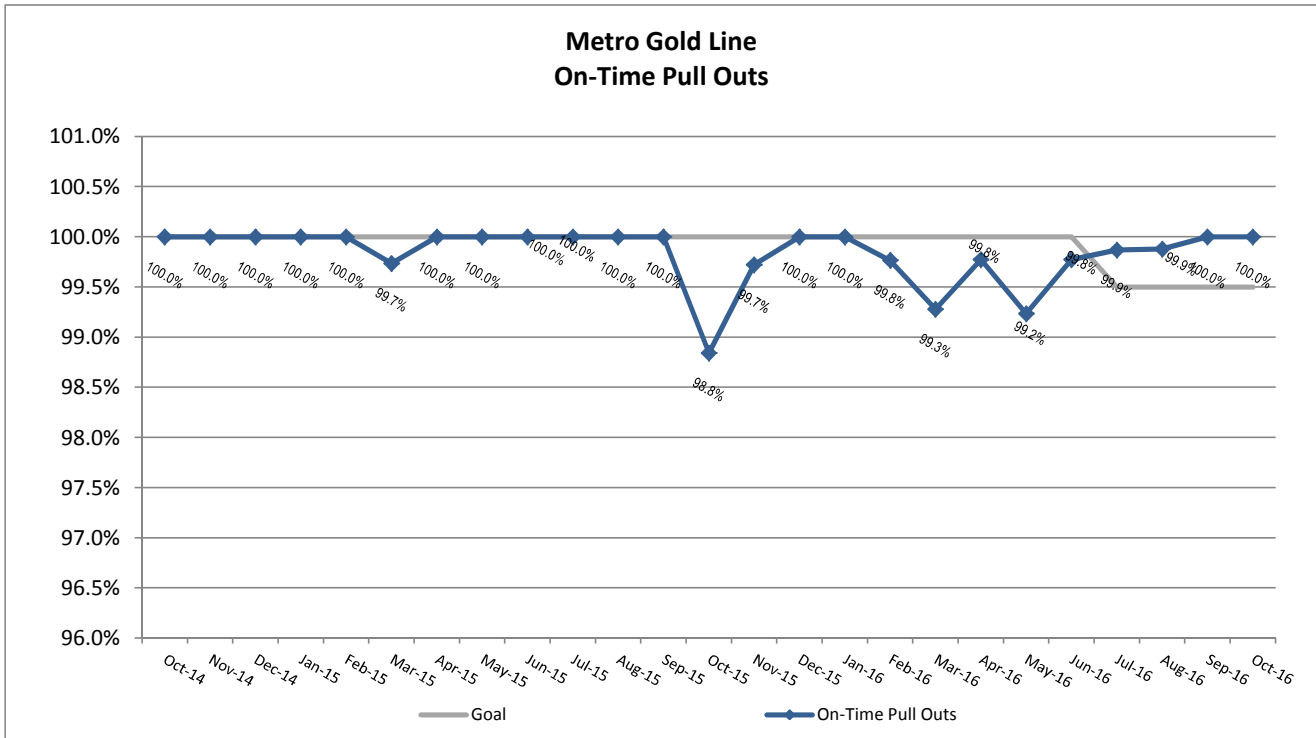
COMPLIANCE WITH SCHEDULED VEHICLE HOURS CHART



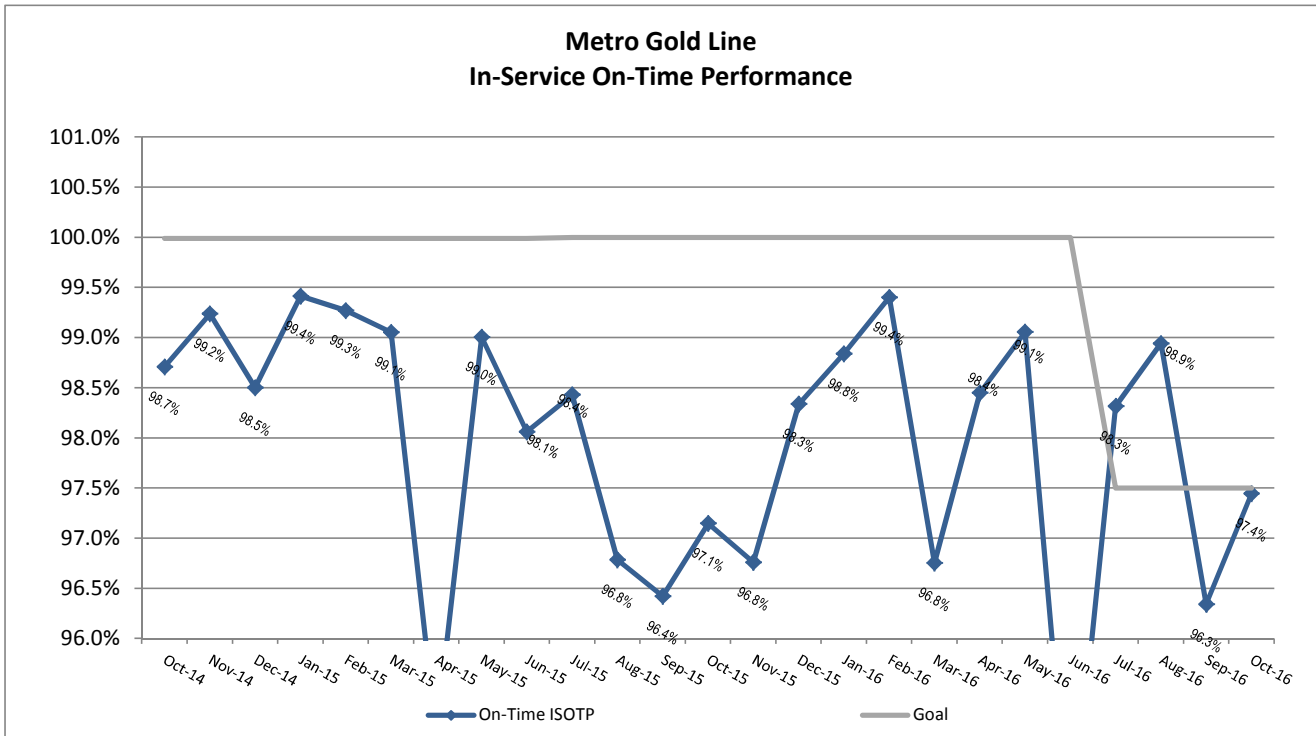
COMPLIANCE WITH SCHEDULED TRAIN MILES CHART



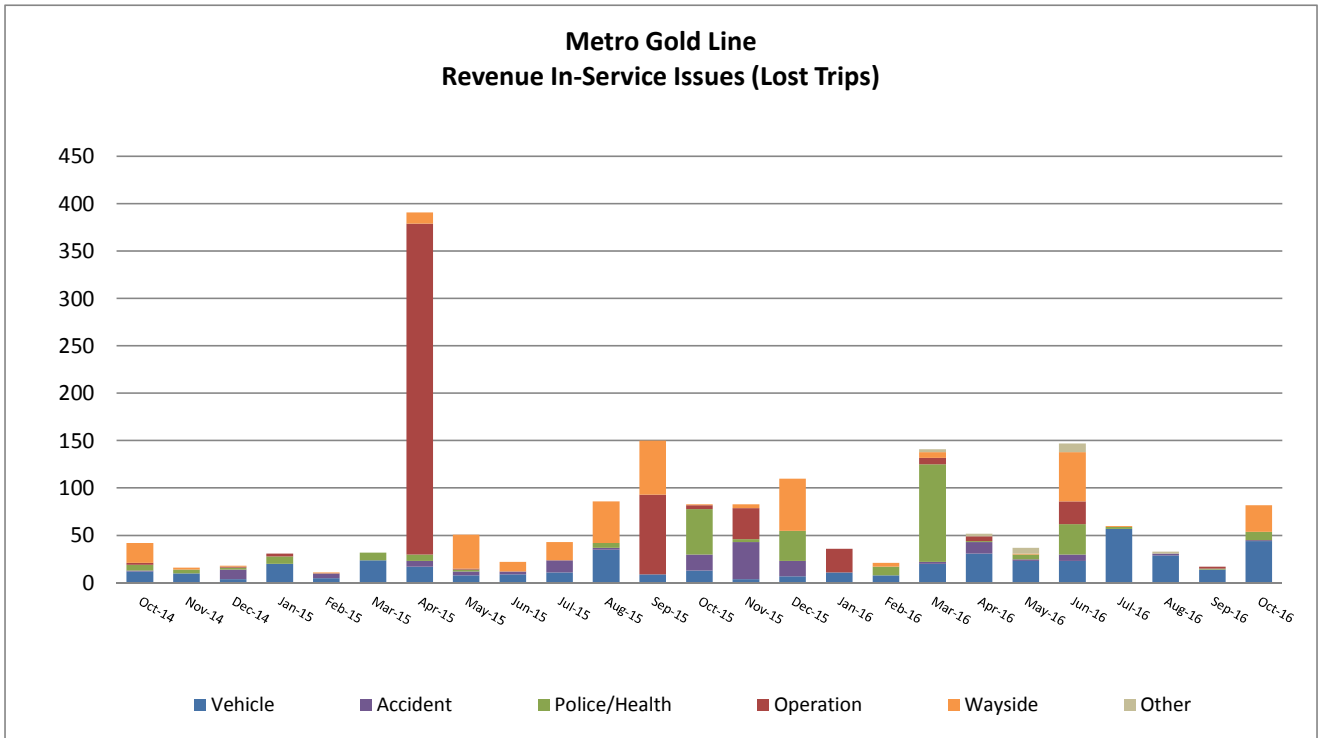
ON-TIME PULL OUTS CHART



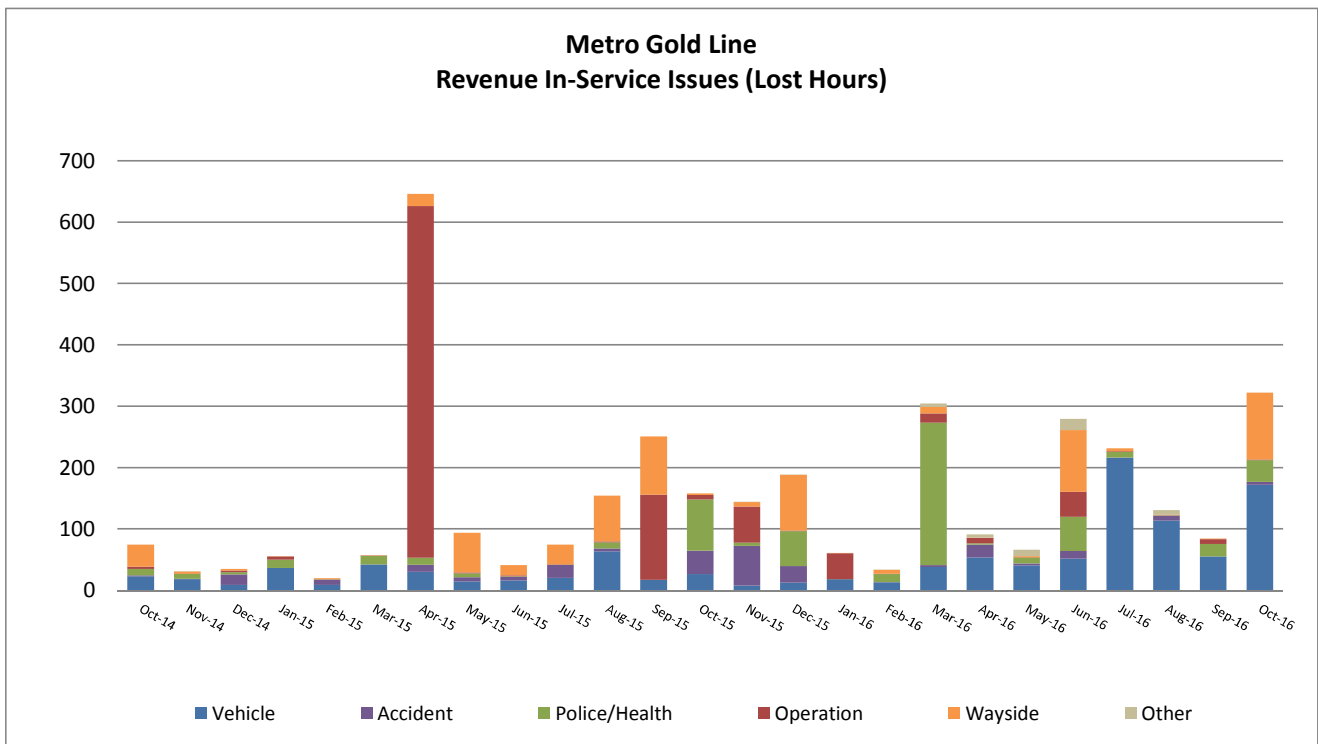
IN-SERVICE ON-TIME PERFORMANCE CHART



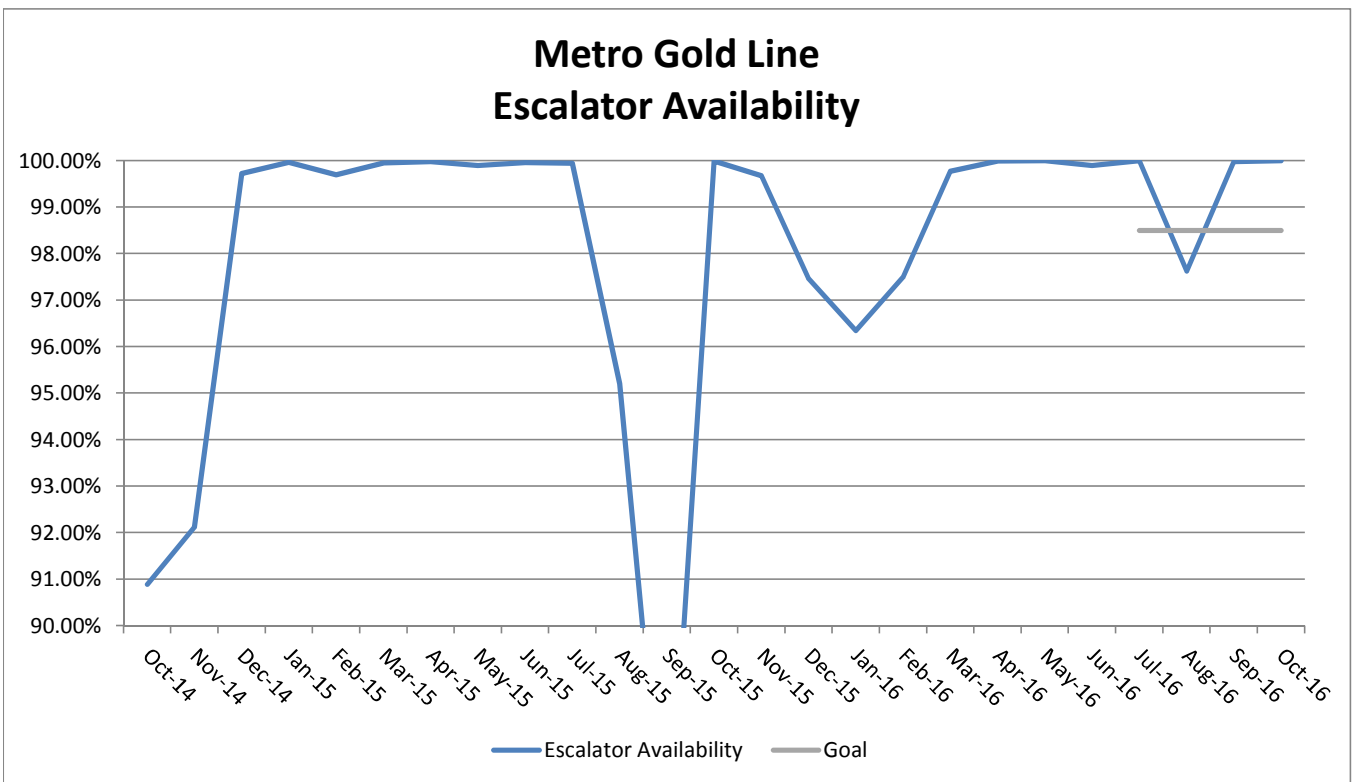
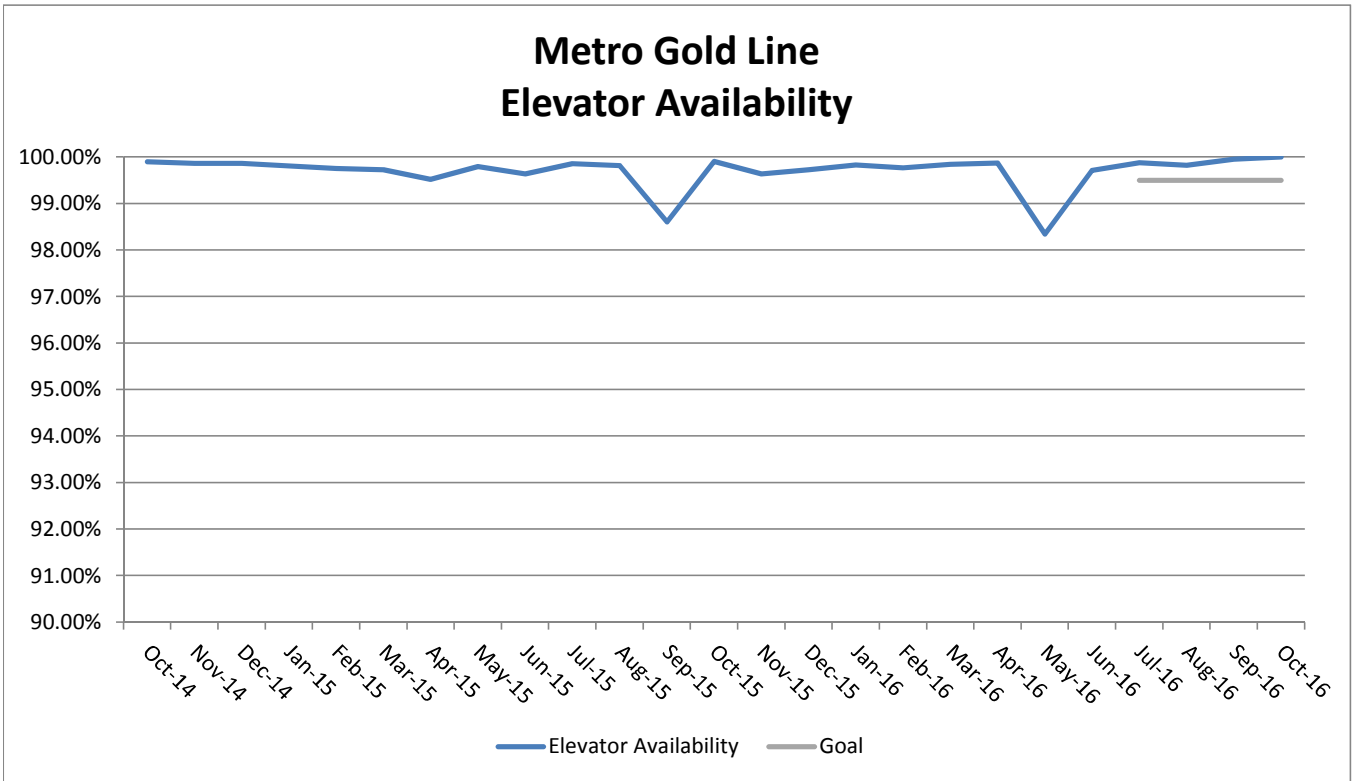
LOST TRIPS



LOST HOURS



VERTICAL TRANSPORTATION AVAILABILITY



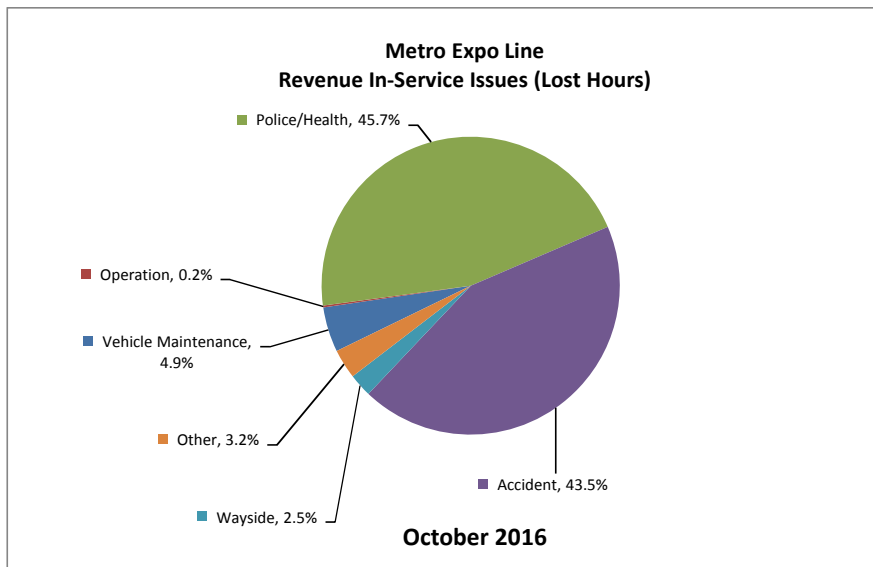
EXPO LINE

Out of a total of 16,836 hours operated, there were approximately 195 total hours of service delays.

October 2016 Service Hours *	Revenue	
	Hours	Per Cent
Revenue Hours without Delays	16,641	98.8%
Cancelled + Delayed Hours	195	1.2%
Total Revenue Hours	16,836	100.0%

Summary of the major contributors:	Count	Hours	Per Cent
Operations	3	0.4	0.2%
Accidents	3	85.0	43.5%
Vehicle Maintenance	11	9.5	4.9%
Wayside	2	5.0	2.5%
Police & Health	4	89.3	45.7%
Other	1	6.3	3.2%
Total	24	195.4	100.0%

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



October 2016 Expo Line major delay contributors were as follows:

Operations Incidents:

10/1/2016 7:30:00 PM - Incident# 2783605 (0 lost trips, 7 lost minutes)

Canceled assignment due to no operator

10/25/2016 5:22:00 PM - Incident# 2792884 (0 lost trips, 9 lost minutes)

Operator departs 4th Street Station 9 minutes late.

10/28/2016 3:17:00 AM - Incident# 2793931 (0 lost trips, 10 lost minutes)

Information only.

Car adds at Santa Monica station per schedule M-727

Accidents:

10/17/2016 10:59:00 AM - Incident# 2789446 (1 lost trip, 145 lost minutes)

Train versus trespasser.

Train 609

T-227

1024-1038-1017

NB-Arlington grade crossing- track 3

10/30/2016 8:40:00 PM - Incident# 2794680 (31 lost trips, 4,371 lost minutes)

Train 606 reported a possible body near Track 4 at Bagley Grade Crossing.

Train 606

1035-1037-1016

T-392

Culver City Station Northbound Track #3.

10/31/2016 3:27:00 PM - Incident# 2795049 (6 lost trips, 584 lost minutes)

10-73 Train vs Auto at Halldale Ave. and Exposition track 3

Incident location later updated to Denker Ave.

Vehicle Maintenance Incidents:

10/1/2016 4:25:00 AM - Incident# 2783428 (0 lost trips, 15 lost minutes)

No movement, no faults

Train 602

T-54

(165)-115-135

7th/metro S/B

15 minute service delay.

10/2/2016 7:13:00 PM - Incident# 2783790 (0 lost trips, 12 lost minutes)

Door problem no movement.

Train 603

T-325

(1023B)-1018-1038

Southbound, Culver City Station, Track 4

10/7/2016 8:39:00 PM - Incident# 2786123 (1 lost trip, 137 lost minutes)

Propulsion / Dynamic Brakes, cars #(233B)-250

Train #607

T-142

Expo/USC station, Track #004, Southbound.

10/11/2016 2:50:00 PM - Incident# 2787412 (1 lost trip, 137 lost minutes)

Operator reports of no movement

Train 603

T-142

(1021B)1027-1023

26th Strret, Trk. 3, northbound

10/14/2016 12:48:00 PM - Incident# 2788700 (0 lost trips, 7 lost minutes)

Propulsion / Dynamic Brakes

T-268

Train 606

(1026B)-1044-1020

Southbound, La Brea station track 4.

10/15/2016 6:50:00 PM - Incident# 2788986 (1 lost trip, 132 lost minutes)

Operator reports of rail car (106) shutting down every few seconds

Train 605

T-252

(106)146-154

Santa Monica Terminal, Trk. 3, northbound

10/20/2016 8:30:00 AM - Incident# 2790817 (0 lost trips, 7 lost minutes)

Train 607 has Kinky Sharyo Issues no movement

T-47, Train 607

Track 3, Santa Monica, North

1030-1024-1039

10/20/2016 6:00:00 PM - Incident# 2791127 (0 lost trips, 12 lost minutes)

Prop fault w/ speed restriction on car 249A

T-407, train 605

(249)-246-250

23rd Street Station, track 4, south

10/21/2016 7:11:00 AM - Incident# 2791319 (0 lost trips, 8 lost minutes)

Auto Train Protection (Speed Limit) (No Movement)

1035-1038-1034

T-47

Train 606

Metro, Southbound, Track 2

10/25/2016 5:51:00 PM - Incident# 2792890 (1 lost trip, 94 lost minutes)

Service cancelled from 4th Street Station to 26th Street Station due to a B/O consist.

10/28/2016 11:50:00 AM - Incident# 2794219 (0 lost trips, 9 lost minutes)

Train-612

T-438

Cars (105)-132-115

Northbound, Track #3

Western Station

Door problem.

Wayside Incidents:

10/24/2016 12:25:00 PM - Incident# 2792362 (0 lost trips, 15 lost minutes)

Train 617 signal overrun.

10/31/2016 5:07:00 AM - Incident# 2794734 (3 lost trips, 282 lost minutes)

DC Breaker: B05 Open and unable to close remotely.

Police & Health Incidents:

10/4/2016 1:50:00 PM - Incident# 2784575 (40 lost trips, 5,322 lost minutes)

Officer involved stabbing/shooting at Santa Monica Station

10/11/2016 4:09:00 PM - Incident# 2787453 (0 lost trips, 12 lost minutes)

LASD Deputy Whitmore reports of a person with a gun aboard train 603

Train 603

T-097

115-108-161

Palms station, Trk. 4, southbound

10/19/2016 12:48:00 PM - Incident# 2790404 (0 lost trips, 10 lost minutes)

Traffic accident MTA not involved at 11th ave blocking track 4

10/22/2016 1:31:00 PM - Incident# 2791719 (0 lost trips, 12 lost minutes)

Operator reports of Sheriff's personnel dealing with an unruly passenger on board rail car 1022

Train 607

T-524 (student), T-354

1023(1022)1019

La Cienega, Trk. 4, southbound

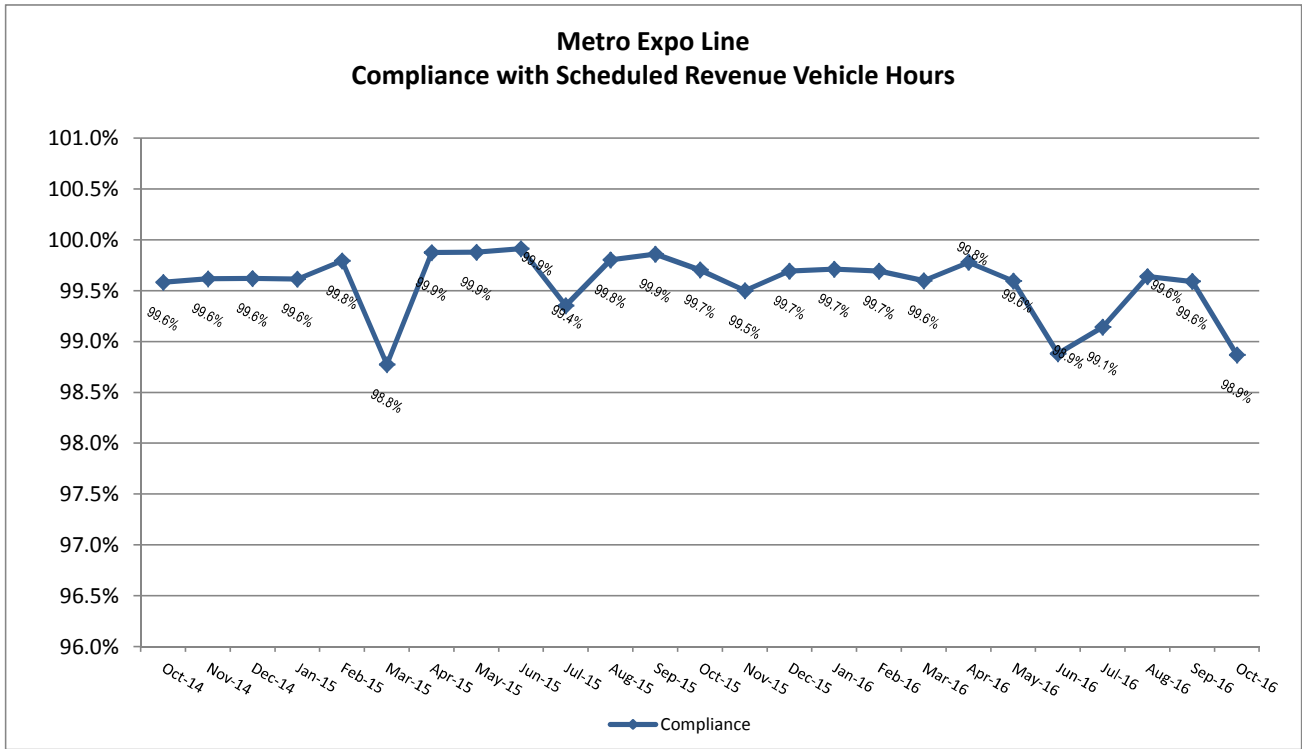
Other Incidents:

10/31/2016 6:13:00 AM - Incident# 2794802 (4 lost trips, 376 lost minutes)

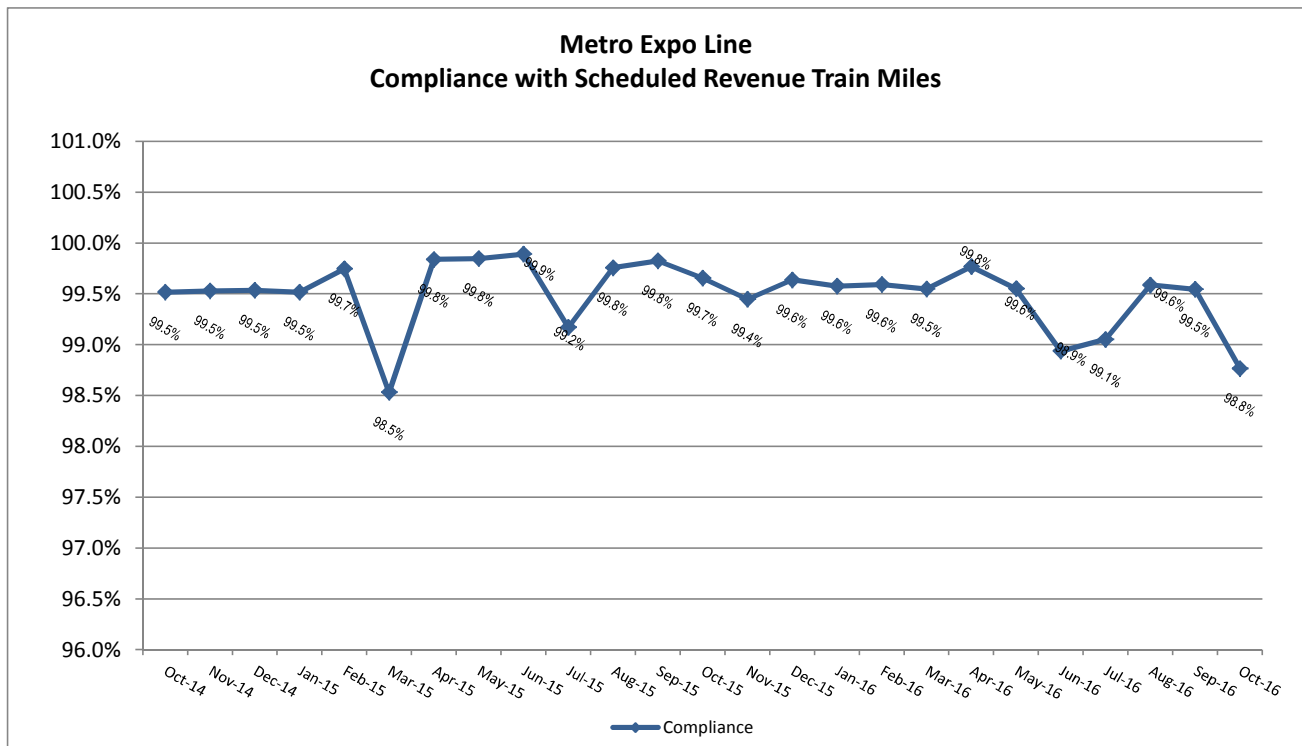
Train Delay due to RFS Inspection

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

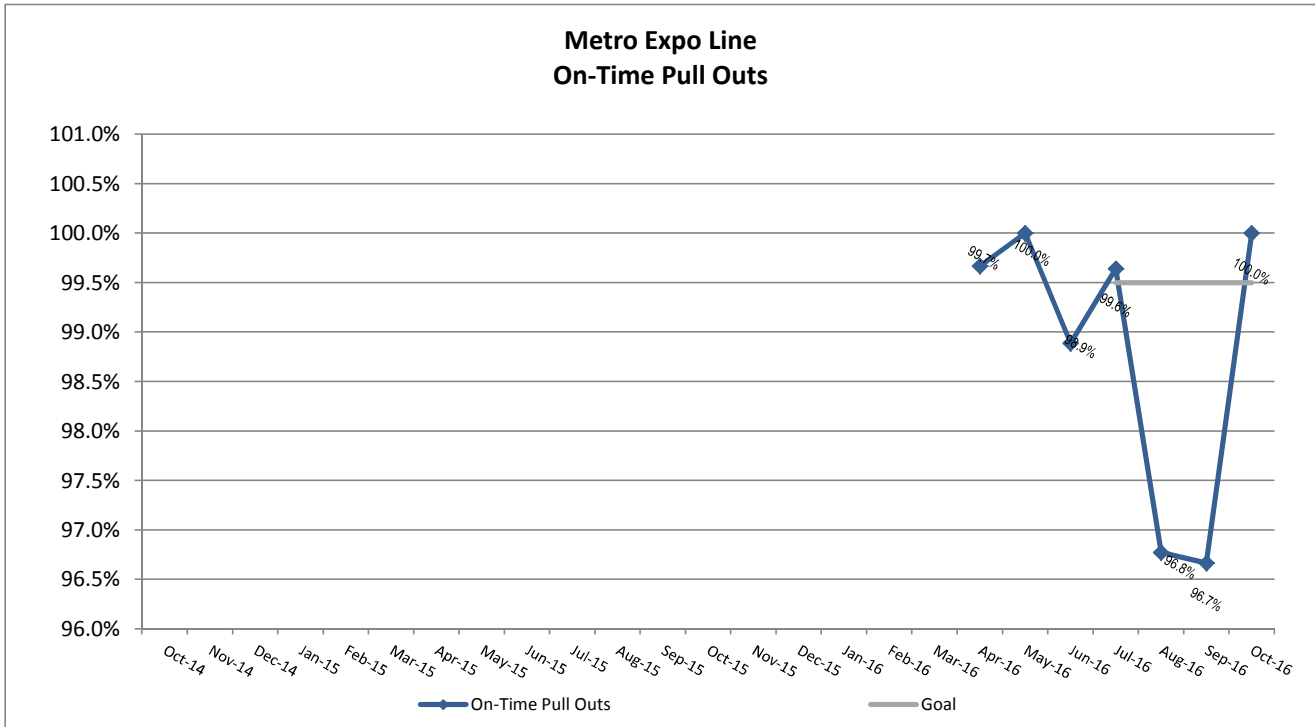
COMPLIANCE WITH SCHEDULED VEHICLE HOURS CHART



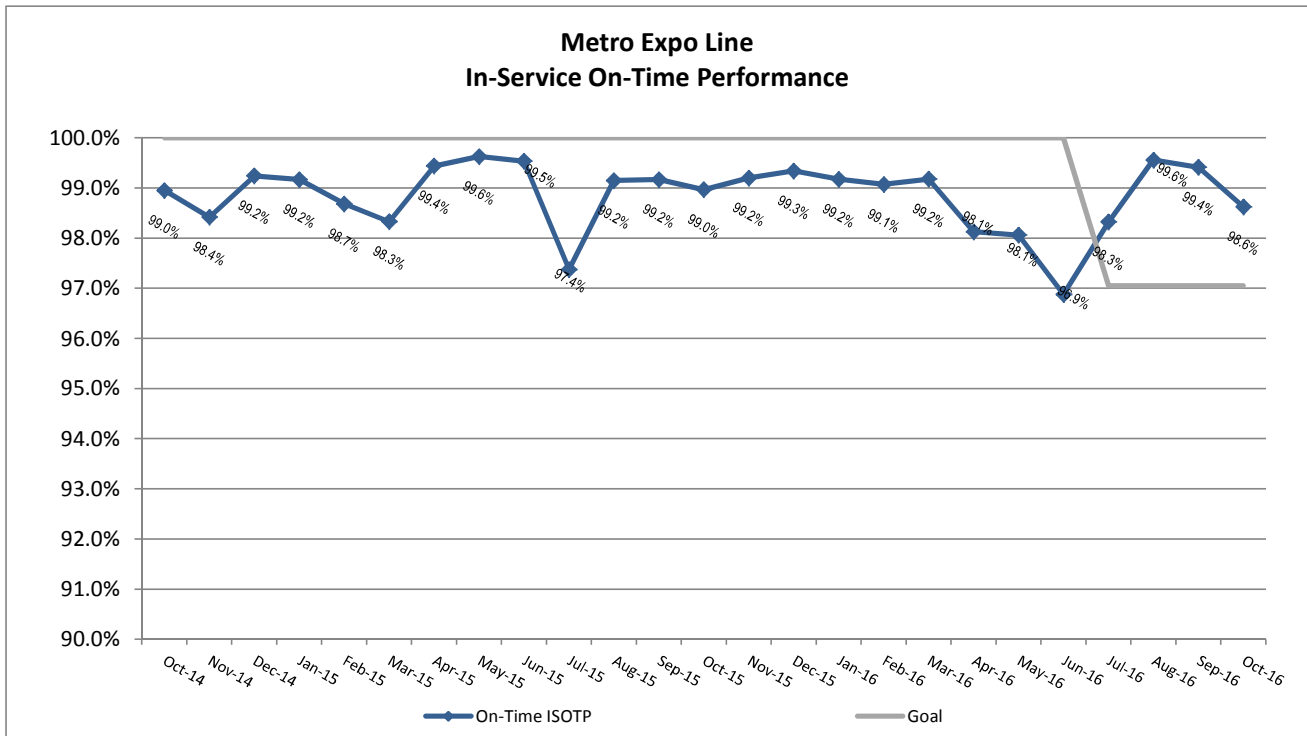
COMPLIANCE WITH SCHEDULED TRAIN MILES CHART



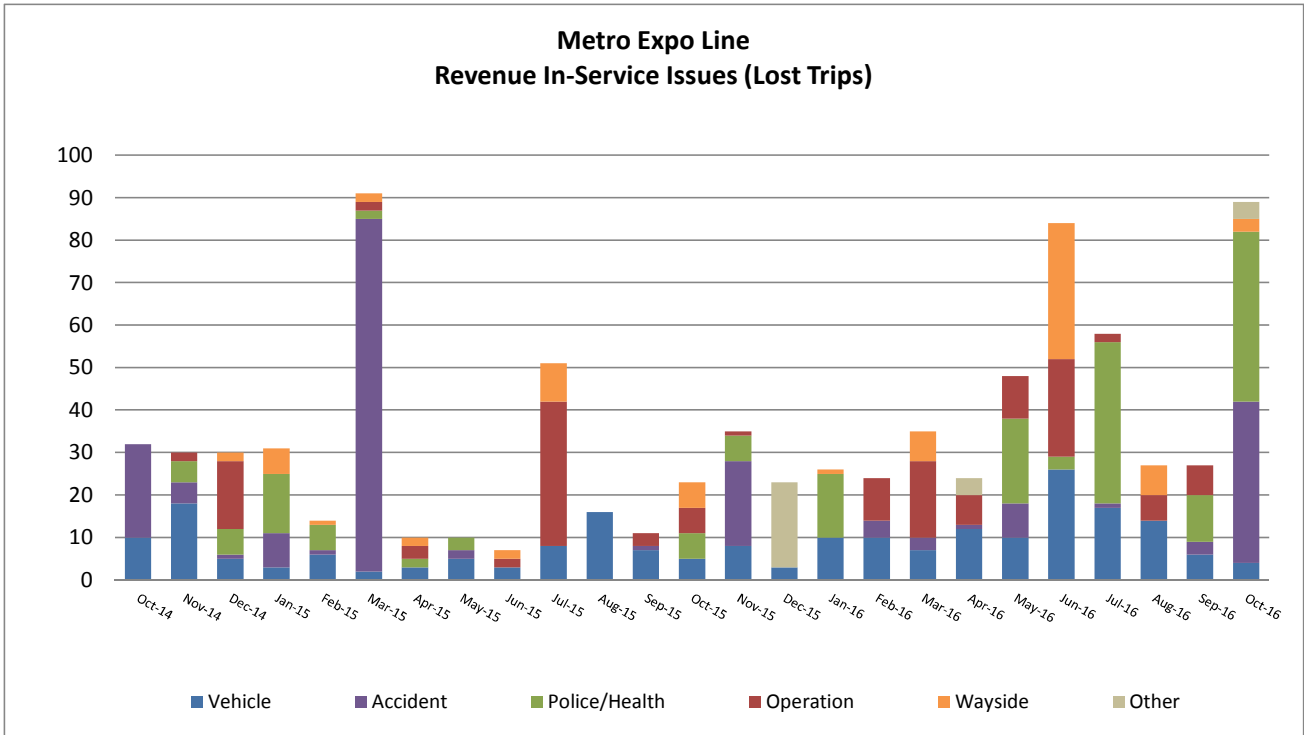
ON-TIME PULL OUTS CHART



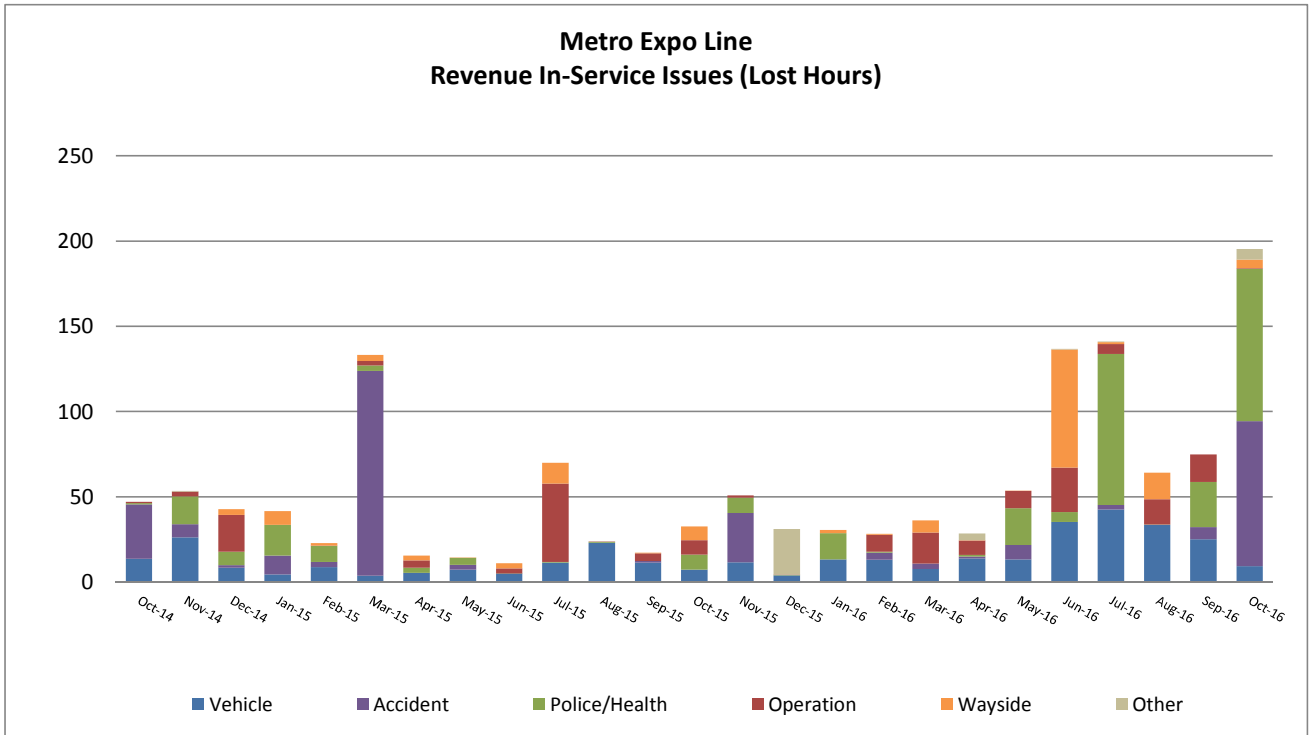
IN-SERVICE ON-TIME PERFORMANCE CHART



LOST TRIPS



LOST HOURS



VERTICAL TRANSPORTATION AVAILABILITY

