

Los Angeles County
Metropolitan Transportation Authority
California

OPERATIONS MONTHLY RAIL PERFORMANCE REPORT

OCTOBER 2017



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METRO RAIL PERFORMANCE – OCTOBER 2017

Contents	Page
Systemwide Performance	
Rail Scorecard	3
Rail Mean Miles Between Major Failure by Vehicle Type	5
Fleet Distribution Report	10
Vehicle Availability by Division	11
Cleanliness	12
Lost Revenue Vehicle Hours by Category, by Division	13
Rail Service Performance	16
Workers Comp Claims	21
Lost Work Days	22
Vertical Transportation - Systemwide	23
Blue Line Performance	
Performance Summary	24
Major Incident Detail	25
Performance Charts	34
Red / Purple Line Performance	
Performance Summary	38
Major Incident Detail	39
Performance Charts	42
Green Line Performance	
Performance Summary	46
Major Incident Detail	47
Performance Charts	50
Gold Line Performance	
Performance Summary	54
Major Incident Detail	55
Performance Charts	59
Expo Line Performance	
Performance Summary	64
Major Incident Detail	65
Performance Charts	68

Metro Rail Scorecard Overview

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

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

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

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

Measurement	FY 2015	FY 2016	FY 2017	FY 2018 Target	FY 2018 YTD	FYTD Status	Aug Month	Sep Month	Oct Month
Systemwide									
On-Time Pullouts	99.67%	99.63%	99.61%	99.50%	99.60%	●	99.81%	99.45%	99.36%
Mean Miles Between Chargeable Mechanical Failures	34,524	30,482	29,711	32,550	24,965	●	21,617	22,339	28,551
In-Service On-time Performance	98.39%	98.10%	98.24%	98.99%	98.26%	●	98.46%	98.17%	97.65%
Service Delivery Ratio	99.35%	99.22%	99.23%	99.00%	99.13%	●	99.14%	99.30%	98.82%
Traffic Accidents Per 100,000 Train Miles	1.18	1.17	1.01	1.01	1.16	●	1.17	1.09	1.59
CPUC Reportable Accidents per 100,000 Train Miles	0.43	0.60	0.36	0.37	0.73	●	0.65	0.68	1.19
Passenger Accidents per 100,000 Boardings	0.013	0.016	0.023	0.010	0.021	●	0.020	0.022	0.010
Complaints per 100,000 Boardings	0.78	1.43	1.98	1.10	1.83	●	1.78	2.02	1.95
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours ^{1,2}	11.11	10.97	12.27	10.42	12.33	●	9.39	10.95	14.79
Lost Work Days per 200,000 Exposure Hours ^{1,2}	880	482	733	450.00	761	●	828	734	-
OSHA Injuries per 200,000 Exposure Hours ^{1,2}	6.68	6.32	8.53	6.00	6.87	●	4.70	10.95	-
Wayside									
Overdue Work Orders (Non-PMP) - Aging of Outstanding Work Orders	94	454	1,229	N/A	1,810	N/A	324	458	826
Past-Due Preventive Maintenance - Aging of Outstanding Work Orders	1	13	142	N/A	205	N/A	19	68	70
% of Completed Inspections	99.51%	99.57%	99.72%	N/A	99.73%	N/A	99.71%	99.73%	99.51%
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	9.07	4.77	5.35	4.53	4.04	●	0.00	4.19	0.00
Lost Work Days per 200,000 Exposure Hours ¹	309	148	194	138	304	●	299	259	0
OSHA Injuries per 200,000 Exposure Hours ¹	8.28	4.40	4.01	4.18	4.12	●	0.00	4.19	0
Blue Line									
On-Time Pullouts	99.41%	99.59%	99.60%	99.50%	98.84%	●	99.72%	98.33%	98.01%
Mean Miles Between Chargeable Mechanical Failures	23,716	19,240	15,405	22,825	11,297	●	9,466	10,558	14,121
In-Service On-time Performance	97.28%	96.10%	96.44%	98.80%	96.19%	●	96.63%	94.11%	96.76%
Service Delivery Ratio	98.88%	98.41%	98.54%	99.00%	98.10%	●	98.06%	98.46%	97.69%
Traffic Accidents Per 100,000 Train Miles	2.48	2.38	2.18	2.18	2.10	●	3.14	1.98	2.62
CPUC Reportable Accidents per 100,000 Train Miles	0.89	1.39	0.71	0.40	1.29	●	1.88	1.32	1.31
Passenger Accidents per 100,000 Boardings	0.034	0.016	0.046	0.010	0.067	●	0.102	0.055	0.052
Complaints per 100,000 Boardings	0.90	1.33	1.67	1.07	2.41	●	2.51	2.81	2.76
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	15.10	15.08	16.74	10.42	18.11	●	10.06	15.87	19.96
Lost Work Days per 200,000 Exposure Hours ¹	1,622	797	836	450	826	●	879	837	-
OSHA Injuries per 200,000 Exposure Hours ¹	10.64	6.79	10.40	6.00	6.99	●	0.00	15.87	-

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%.

N/A = Not Available

Measurement	FY 2015	FY 2016	FY 2017	FY 2018 Target	FY 2018 YTD	FYTD Status	Aug Month	Sep Month	Oct Month
Red Line									
On-Time Pullouts	99.91%	99.79%	99.95%	99.50%	99.90%	●	99.80%	99.79%	100.00%
Mean Miles Between Chargeable Mechanical	85,090	94,312	104,637	131,376	62,850	●	49,953	52,087	77,032
In-Service On-time Performance	99.13%	99.45%	99.39%	99.50%	99.12%	●	99.09%	99.33%	98.63%
Service Delivery Ratio	99.60%	99.71%	99.72%	100.00%	99.62%	●	99.63%	99.67%	99.53%
Traffic Accidents Per 100,000 Train Miles	0.47	0.75	0.57	0.57	0.43	●	0.00	0.88	0.00
CPUC Reportable Accidents per 100,000 Train Miles	0.07	0.07	0.14	0.21	0.21	●	0.00	0.88	0.00
Passenger Accidents per 100,000 Boardings	0.002	0.002	0.004	0.000	0.000	●	0.000	0.000	0.000
Complaints per 100,000 Boardings	0.54	0.57	1.19	0.55	1.20	●	1.23	1.11	1.26
New Workers' Compensation Indemnity Claims per	6.20	16.43	12.68	10.42	9.81	●	21.29	5.61	10.87
*Lost Work Days per 200,000 Exposure Hours	649	526	992	450	1,158	●	1,597	930	-
*OSHA Injuries per 200,000 Exposure Hours	3.54	7.99	7.52	6.00	3.78	●	10.65	0.00	-

Green Line									
On-Time Pullouts	99.32%	99.49%	99.69%	99.50%	99.46%	●	99.31%	100.00%	98.58%
Mean Miles Between Chargeable Mechanical Failures	21,054	19,238	16,375	23,220	18,151	●	23,631	11,733	14,909
In-Service On-time Performance	97.39%	98.52%	98.69%	98.80%	98.93%	●	98.83%	99.21%	98.22%
Service Delivery Ratio	99.50%	99.59%	99.61%	99.00%	99.58%	●	99.74%	99.68%	99.12%
Traffic Accidents Per 100,000 Train Miles	0.21	0.42	0.48	0.48	0.61	●	0.80	0.83	0.00
CPUC Reportable Accidents per 100,000 Train Miles	0.07	0.07	0.07	0.40	0.00	●	0.00	0.00	0.00
Passenger Accidents per 100,000 Boardings	0.024	0.034	0.048	0.010	0.000	●	0.000	0.000	0.000
Complaints per 100,000 Boardings	0.89	1.54	2.08	1.27	1.84	●	2.20	2.30	1.59
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	7.32	7.18	9.14	10.42	14.43	●	9.69	19.89	18.01
*Lost Work Days per 200,000 Exposure Hours	479	228	712	450	890	●	945	826	-
*OSHA Injuries per 200,000 Exposure Hours	4.07	3.19	6.65	6.00	9.85	●	9.69	19.89	-

Gold Line									
On-Time Pullouts	99.98%	99.68%	99.82%	99.50%	100.00%	●	100.00%	100.00%	100.00%
Mean Miles Between Chargeable Mechanical Failures	44,171	40,426	38,427	60,252	36,286	●	30,787	47,052	37,707
In-Service On-time Performance	98.56%	97.60%	97.61%	98.80%	98.67%	●	99.13%	99.10%	97.76%
Service Delivery Ratio	99.34%	99.11%	98.88%	99.00%	99.04%	●	99.26%	99.27%	98.37%
Traffic Accidents Per 100,000 Train Miles	1.14	0.99	0.61	0.61	0.54	●	0.42	0.88	0.43
CPUC Reportable Accidents per 100,000 Train Miles	0.30	0.60	0.25	0.40	0.32	●	0.42	0.44	0.43
Passenger Accidents per 100,000 Boardings	0.007	0.039	0.030	0.010	0.053	●	0.000	0.075	0.000
Complaints per 100,000 Boardings	1.01	2.73	2.78	2.22	2.01	●	1.57	2.38	2.32
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	15.96	11.87	14.31	10.42	15.38	●	10.97	17.45	15.91
*Lost Work Days per 200,000 Exposure Hours	1,068	766	1,055	450	900	●	815	1,028	-
*OSHA Injuries per 200,000 Exposure Hours	3.83	9.29	9.69	6.00	13.29	●	10.97	23.27	-

Expo Line									
On-Time Pullouts	-	99.53%	98.76%	99.50%	99.78%	●	100.00%	99.34%	100.00%
Mean Miles Between Chargeable Mechanical Failures	-	18,114	33,402	22,825	32,619	●	25,087	29,559	46,590
In-Service On-time Performance	99.14%	98.61%	98.48%	98.80%	98.22%	●	98.45%	98.88%	96.63%
Service Delivery Ratio	99.64%	99.56%	99.46%	99.00%	99.42%	●	99.22%	99.52%	99.29%
Traffic Accidents Per 100,000 Train Miles	1.02	0.74	1.26	1.26	2.39	●	1.55	0.83	5.52
CPUC Reportable Accidents per 100,000 Train Miles	1.02	0.50	0.63	0.40	1.99	●	0.78	0.83	4.73
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	2.44	●	2.21	2.75	2.51
New Workers' Compensation Indemnity Claims per	24.97	8.44	19.26	10.42	17.00	●	7.22	7.96	36.88
*Lost Work Days per 200,000 Exposure Hours	937	73	887	450	690	●	605	725	-
*OSHA Injuries per 200,000 Exposure Hours	-	5.63	16.60	6.00	5.08	●	-	7.96	-

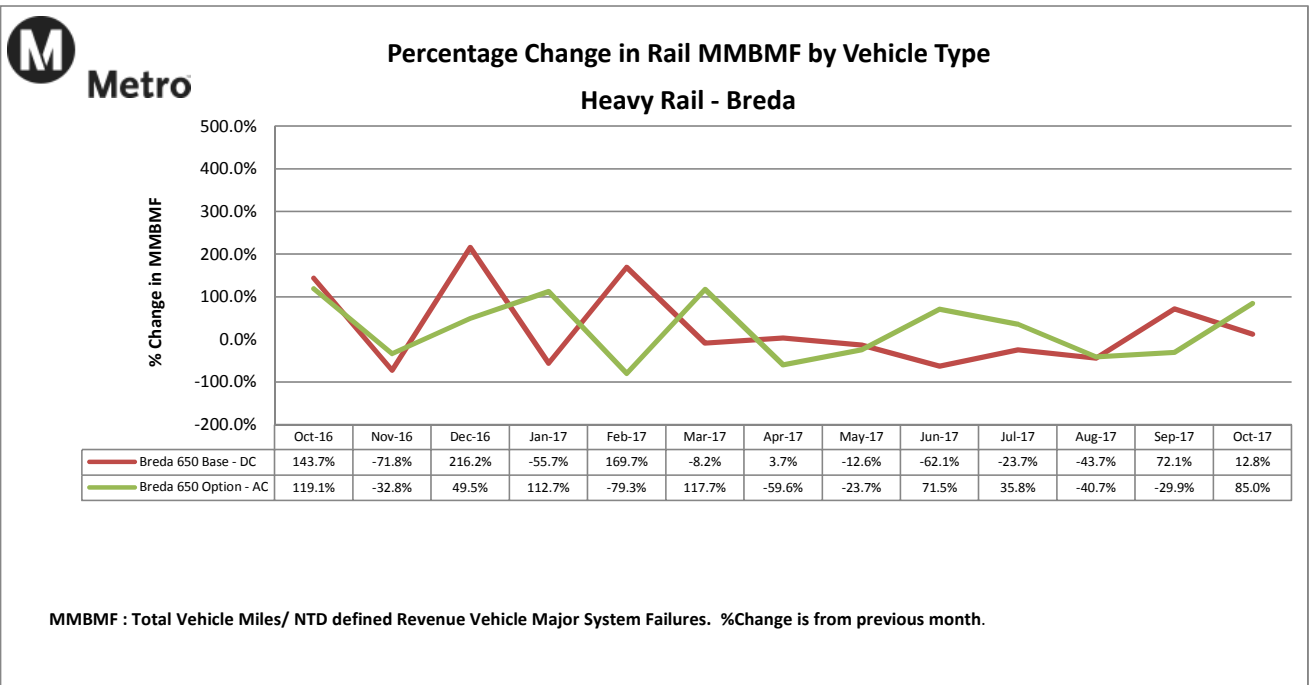
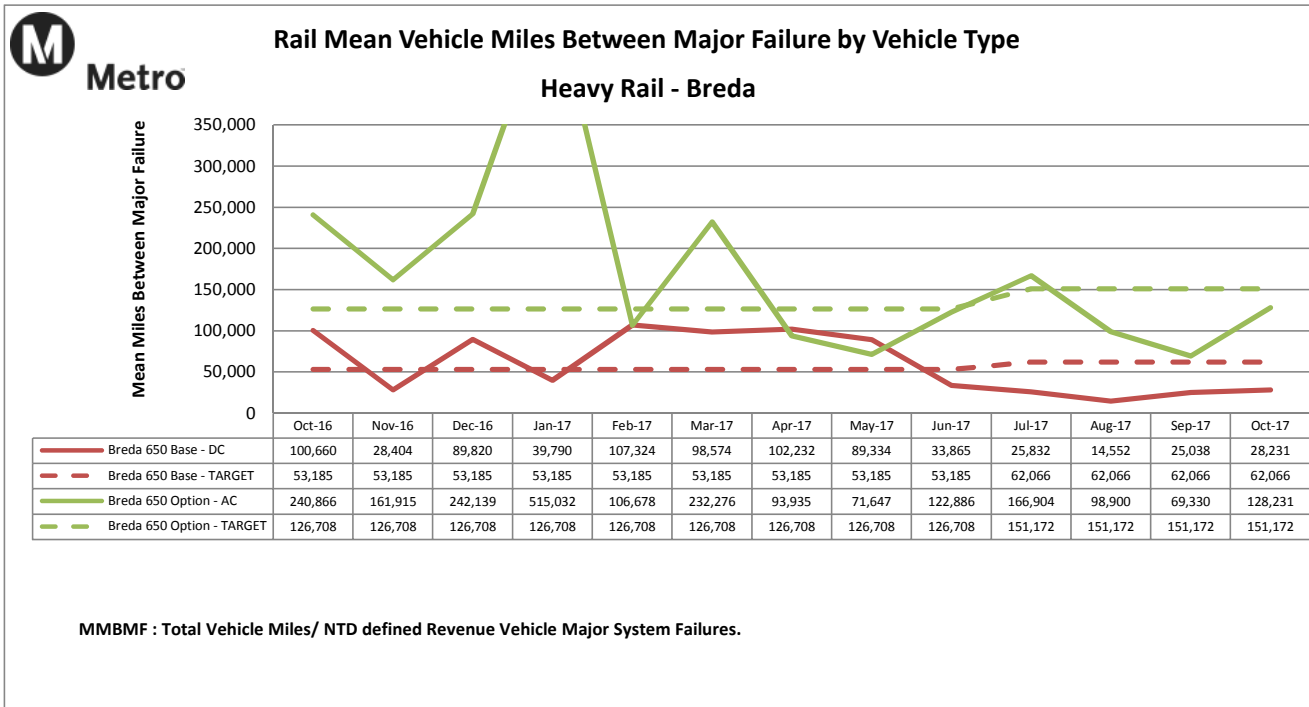
* There is One Month lag in reporting this data

- 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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N/A = Not Available

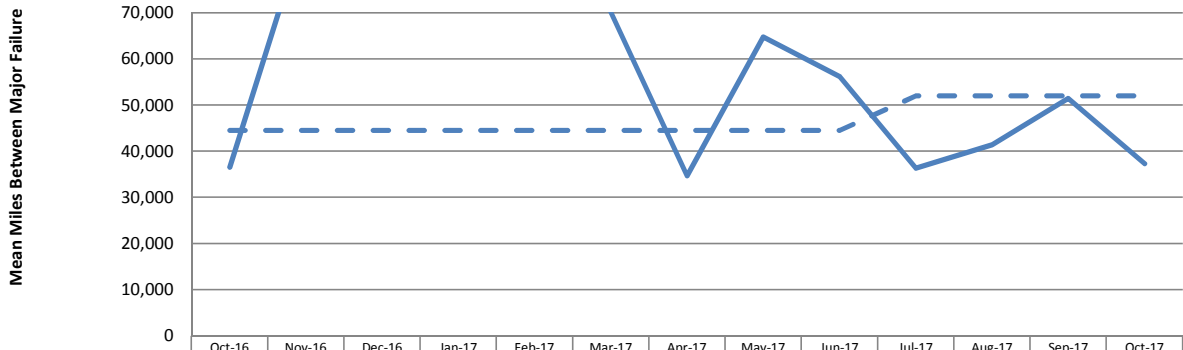
METRO RAIL PERFORMANCE – OCTOBER 2017

Rail Performance by Vehicle Type





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

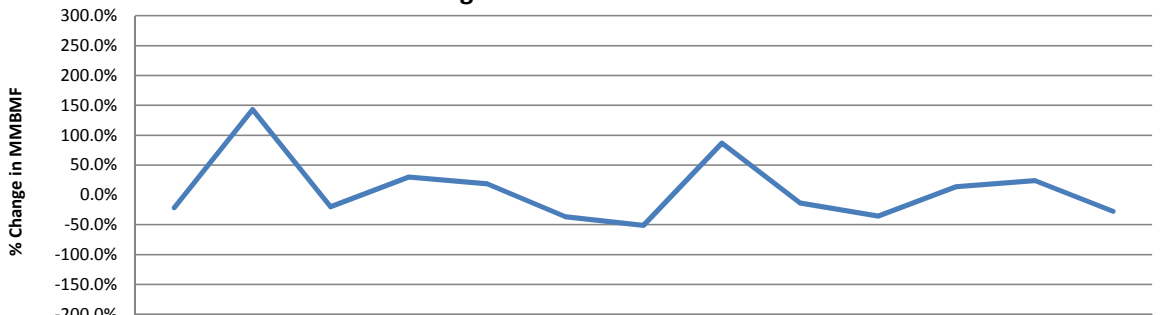


	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17
— AnsaldoBreda 2550 Base - AC	36,556	88,934	71,550	92,980	110,322	70,117	34,678	64,769	56,193	36,347	41,380	51,475	37,331
- - AnsaldoBreda 2550 Base - TARGET	44,517	44,517	44,517	44,517	44,517	44,517	44,517	44,517	44,517	51,977	51,977	51,977	51,977

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



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



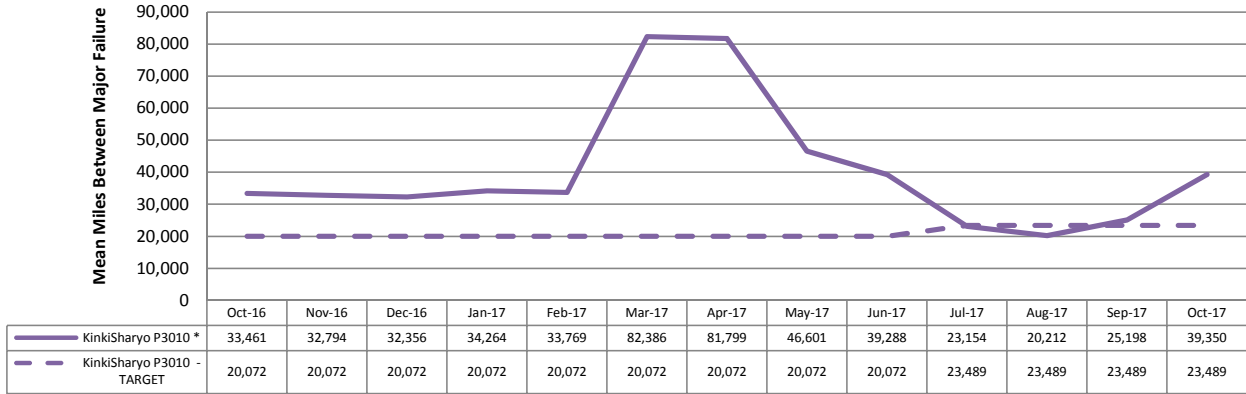
	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17
— AnsaldoBreda 2550 Base - AC	-21.2%	143.3%	-19.5%	30.0%	18.7%	-36.4%	-50.5%	86.8%	-13.2%	-35.3%	13.8%	24.4%	-27.5%

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

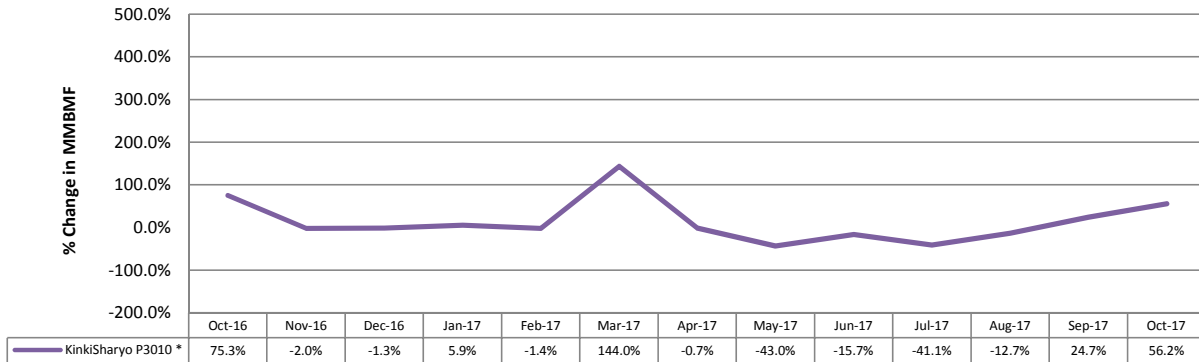


MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



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.

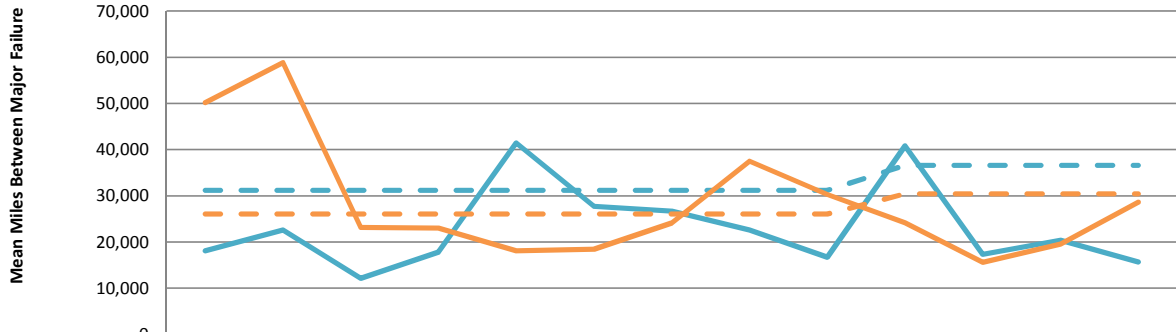
* KinkiSharyo rolling stock began service March 2016



Metro

Rail Mean Vehicle Miles Between Major Failure by Vehicle Type

Light Rail - NipponSharyo



	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17
Nippon Sharyo 2020 - DC	18,085	22,626	12,147	17,872	41,450	27,775	26,695	22,633	16,760	40,831	17,363	20,372	15,702
Nippon Sharyo 2020 - TARGET	31,214	31,214	31,214	31,214	31,214	31,214	31,214	31,214	31,214	36,599	36,599	36,599	36,599
Nippon Sharyo 865 - DC	50,219	58,887	23,153	23,038	18,103	18,440	24,152	37,503	30,335	24,140	15,639	19,578	28,653
Nippon Sharyo 865 - TARGET	26,062	26,062	26,062	26,062	26,062	26,062	26,062	26,062	26,062	30,478	30,478	30,478	30,478

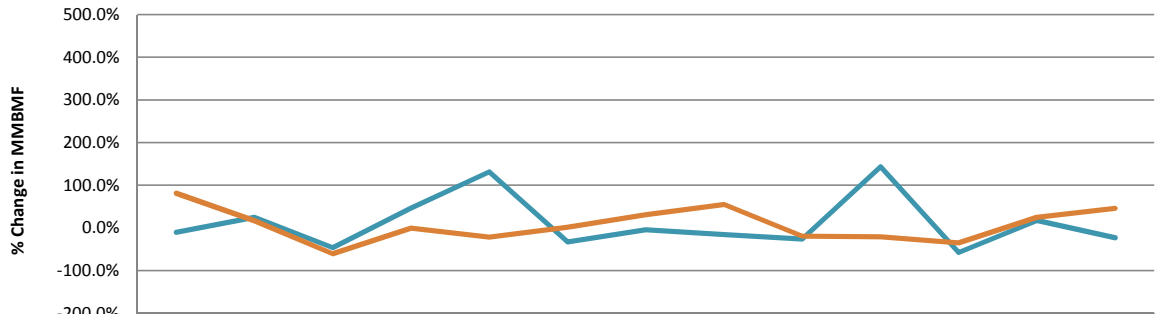
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



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Percentage Change in Rail MMBMF by Vehicle Type

Light Rail - NipponSharyo



	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17
Nippon Sharyo 2020 - DC	-10.3%	25.1%	-46.3%	47.1%	131.9%	-33.0%	-3.9%	-15.2%	-25.9%	143.6%	-57.5%	17.3%	-22.9%
Nippon Sharyo 865 - DC	81.4%	17.3%	-60.7%	-0.5%	-21.4%	1.9%	31.0%	55.3%	-19.1%	-20.4%	-35.2%	25.2%	46.4%

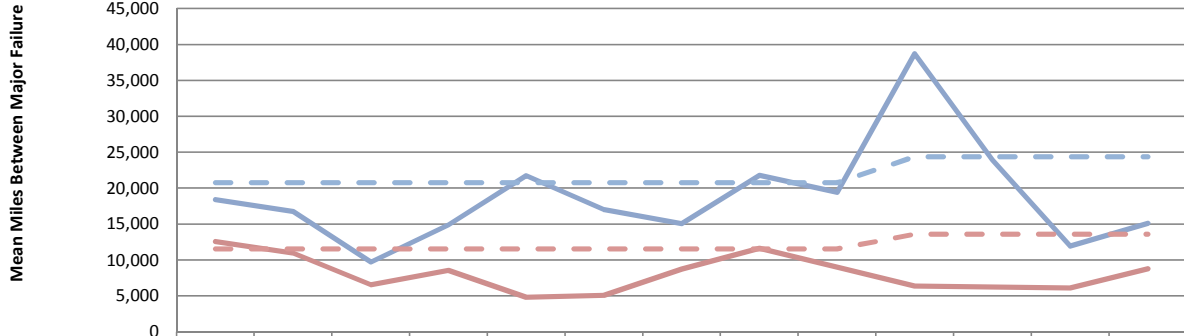
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures. %Change is from previous month.



Metro

Rail Mean Vehicle Miles Between Major Failure by Vehicle Type

Light Rail - Siemens



	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17
Siemens 2000 Base - AC	18,421	16,779	9,743	14,883	21,759	17,019	15,093	21,822	19,452	38,751	23,959	11,972	15,109
Siemens 2000 Base - TARGET	20,778	20,778	20,778	20,778	20,778	20,778	20,778	20,778	20,778	24,373	24,373	24,373	24,373
Siemens 2000 GE/ATP - AC	12,573	10,979	6,568	8,550	4,829	5,090	8,746	11,631	8,992	6,369	6,238	6,121	8,769
Siemens 2000 GE/ATP - TARGET	11,559	11,559	11,559	11,559	11,559	11,559	11,559	11,559	11,559	13,620	13,620	13,620	13,620

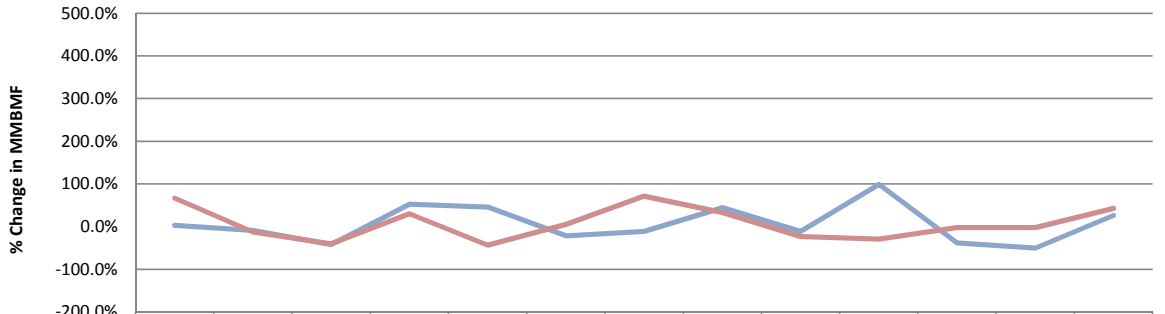
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



Metro

Percentage Change in Rail MMBMF by Vehicle Type

Light Rail - Siemens



	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17
Siemens 2000 Base - AC	3.0%	-8.9%	-41.9%	52.8%	46.2%	-21.8%	-11.3%	44.6%	-10.9%	99.2%	-38.2%	-50.0%	26.2%
Siemens 2000 GE/ATP - AC	67.0%	-12.7%	-40.2%	30.2%	-43.5%	5.4%	71.8%	33.0%	-22.7%	-29.2%	-2.1%	-1.9%	43.3%

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

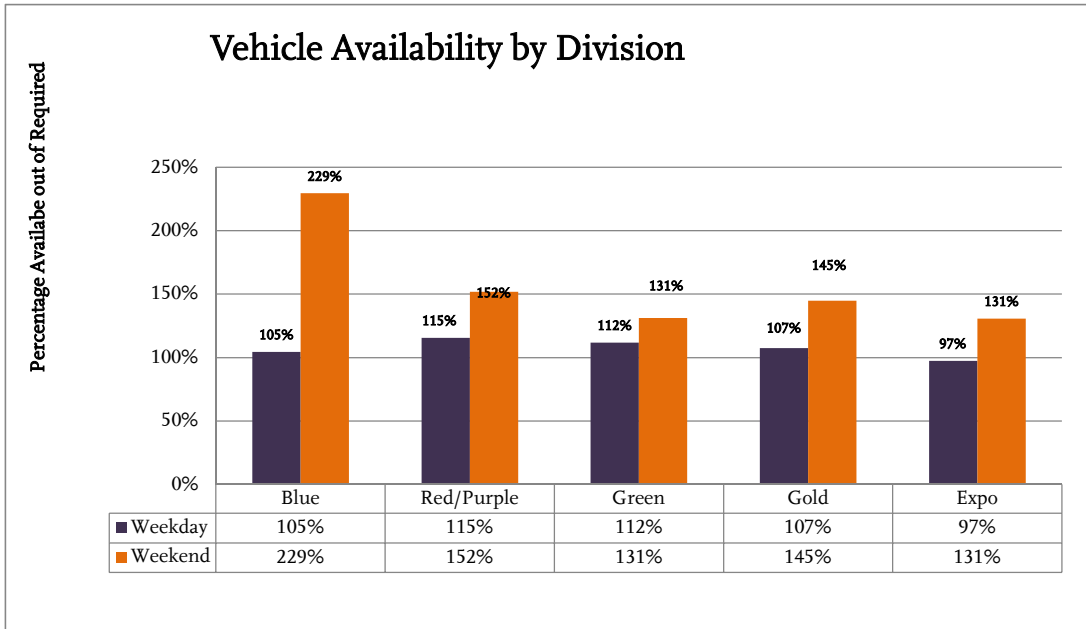
Mean Miles Between Major Failures

	FY 2017	FY 2018 Goal	FY 2018 YTD
AnsaldoBreda2550Base - AC	41,528	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 – OCTOBER 2017

Number of Rail Vehicle Type by Division	Blue	Red / Purple	Green	Gold	Expo
AnsaldoBreda 2550 Base - AC				50	
Breda 650 Base - DC		30			
Breda 650 Option - AC		70			
KinkiSharyo P3010	22		4	15	52
Nippon Sharyo 2020 - DC	15				
Nippon Sharyo 865 - DC	39				
Siemens 2000 Base - AC			28		
Siemens 2000 GE/ATP - AC	22				
TOTALS	98	100	32	65	52

Blue			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	71	74	105%
Weekend	26	60	229%
Red/ Purple			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	63	73	115%
Weekend	40	61	152%
Green			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	22	24	112%
Weekend	14	18	131%
Gold			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	50	53	107%
Weekend	28	41	145%
Expo			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	42	41	97%
Weekend	30	39	131%

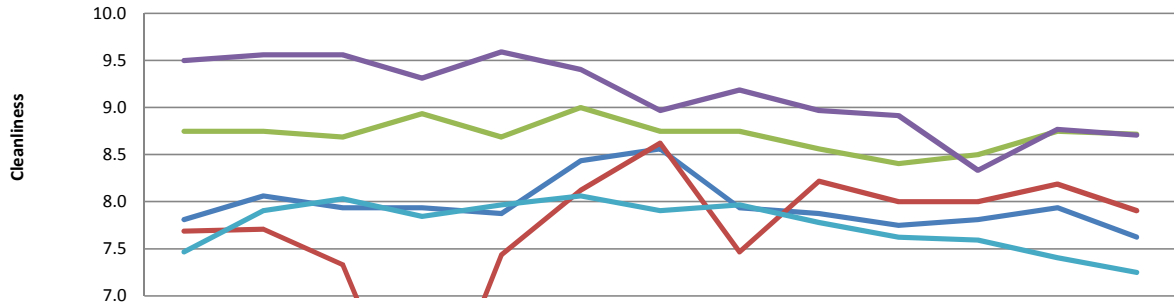


Cleanliness by Vehicle Type



Metro

Rail Cleanliness by General Vehicle Type

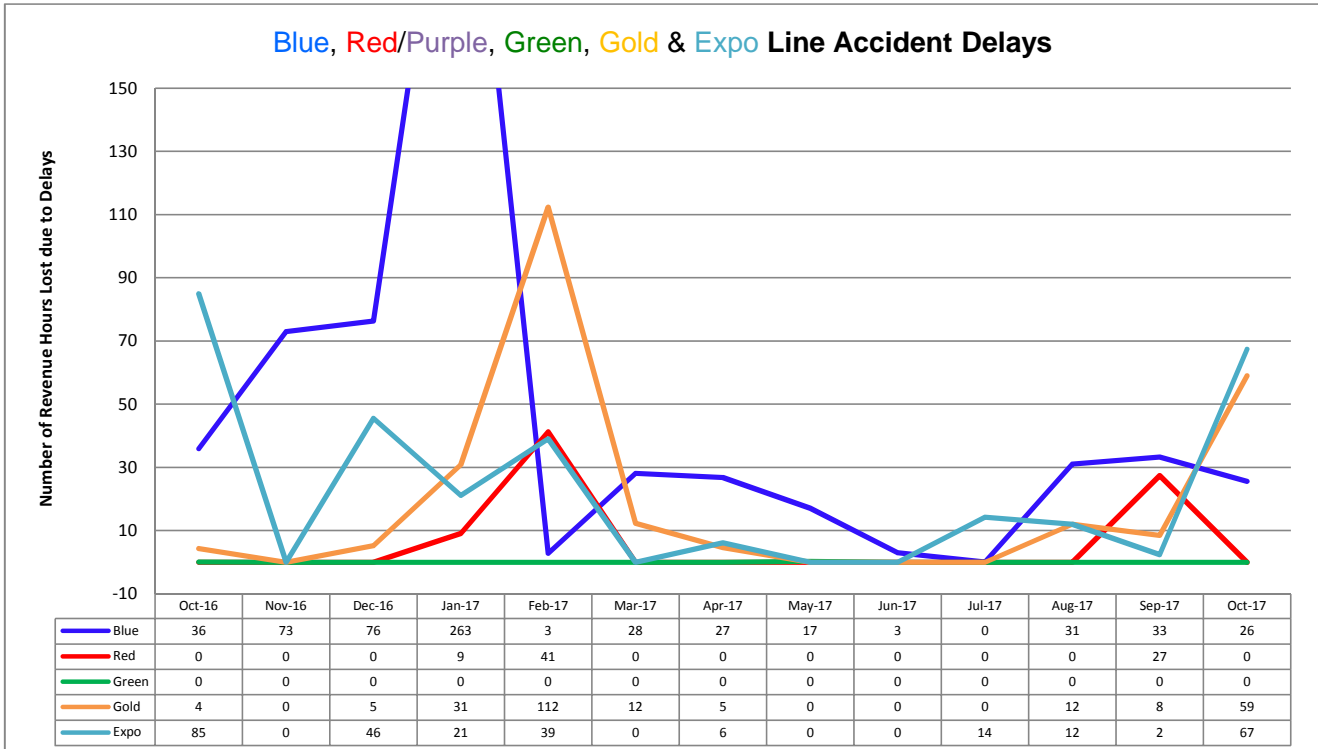


	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17
A650	7.8	8.1	7.9	7.9	7.9	8.4	8.6	7.9	7.9	7.8	7.8	7.9	7.6
P2000	7.7	7.7	7.3	5.3	7.4	8.1	8.6	7.5	8.2	8.0	8.0	8.2	7.9
P2550	8.8	8.8	8.7	8.9	8.7	9.0	8.8	8.8	8.6	8.4	8.5	8.8	8.7
P3010	9.5	9.6	9.6	9.3	9.6	9.4	9.0	9.2	9.0	8.9	8.3	8.8	8.7
P865/P2020	7.5	7.9	8.0	7.8	8.0	8.1	7.9	8.0	7.8	7.6	7.6	7.4	7.3

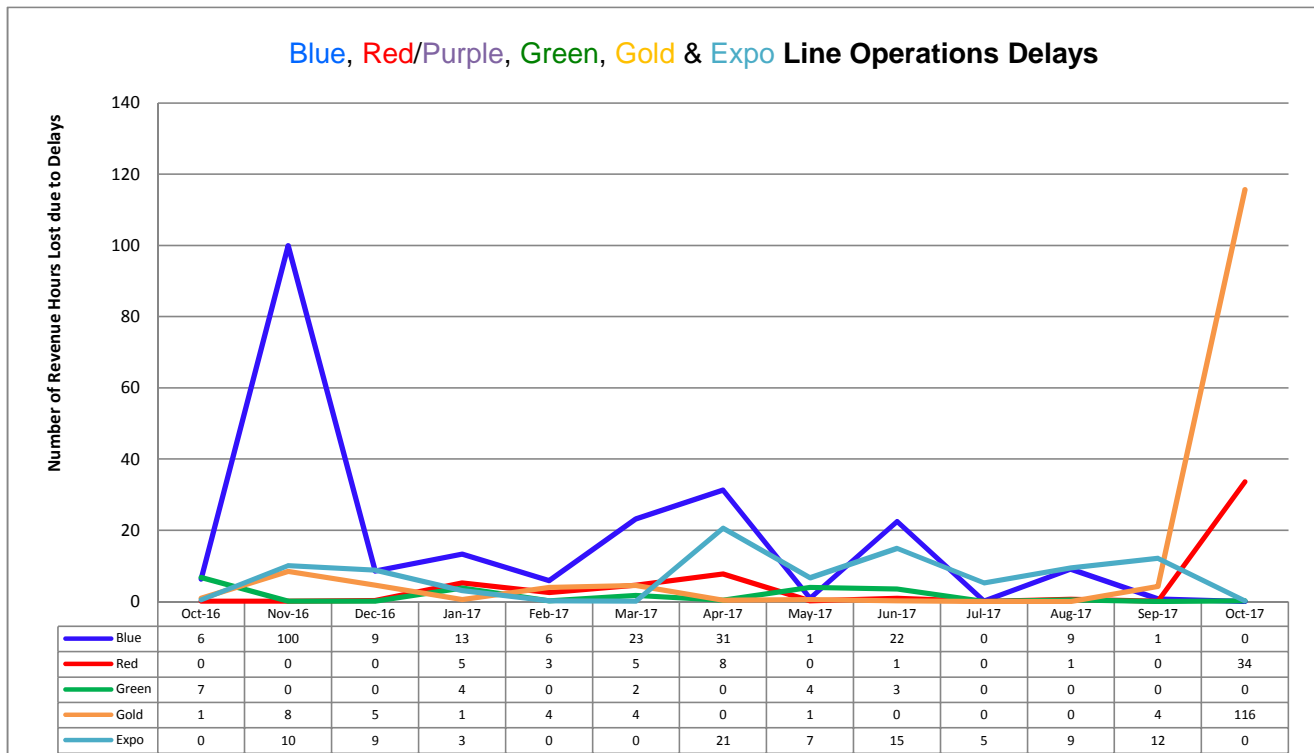
Note: Data Collection Began September 2016

RAIL DELAYS BY CATEGORY - SYSTEMWIDE

Revenue Hours Lost Related to - ACCIDENTS

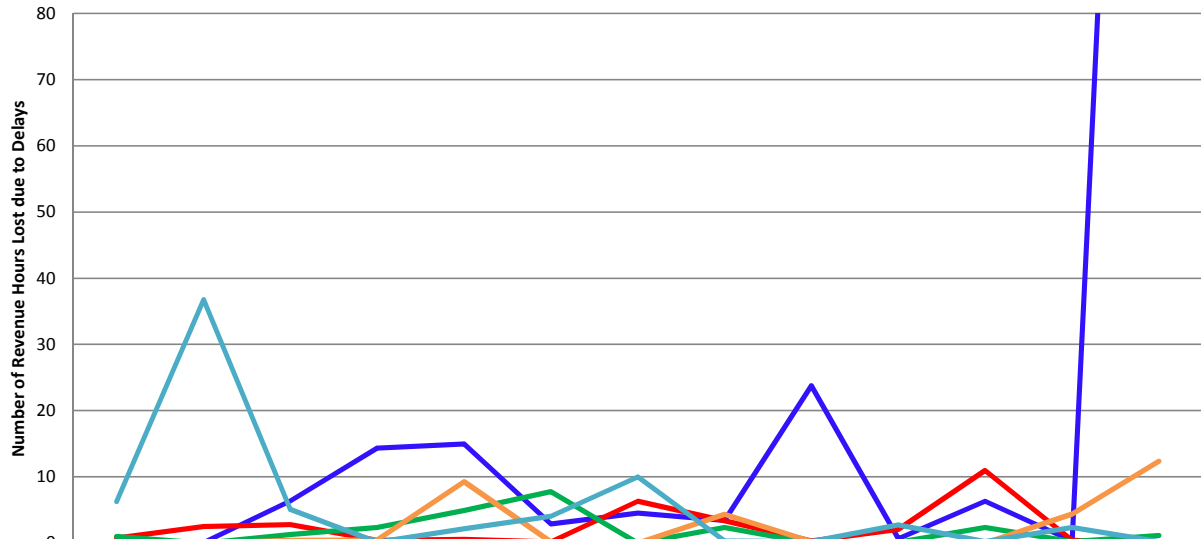


Revenue Hours Lost Related to - OPERATIONS



Revenue Hours Lost Related to - OTHER

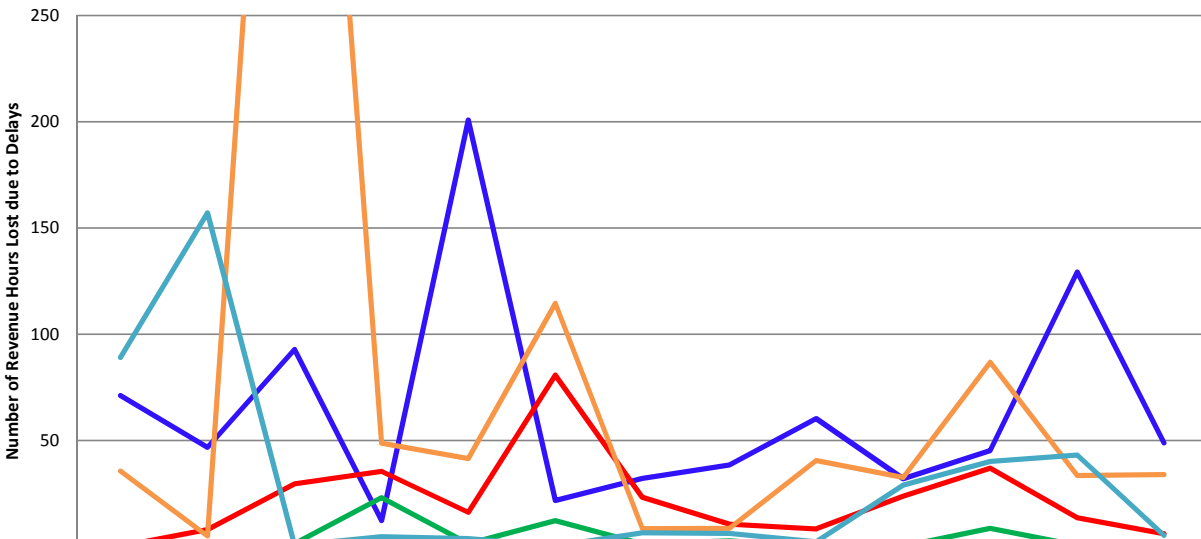
Blue, Red/Purple, Green, Gold & Expo Line Other Delays



	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17
Blue	0	0	6	14	15	3	5	3	24	1	6	0	271
Red	1	2	3	0	1	0	6	3	0	2	11	0	0
Green	1	0	1	2	5	8	0	2	0	0	2	0	1
Gold	0	0	0	0	9	0	0	4	0	0	0	4	12
Expo	6	37	5	0	2	4	10	0	0	3	0	2	0

Revenue Hours Lost Related to - POLICE & HEALTH

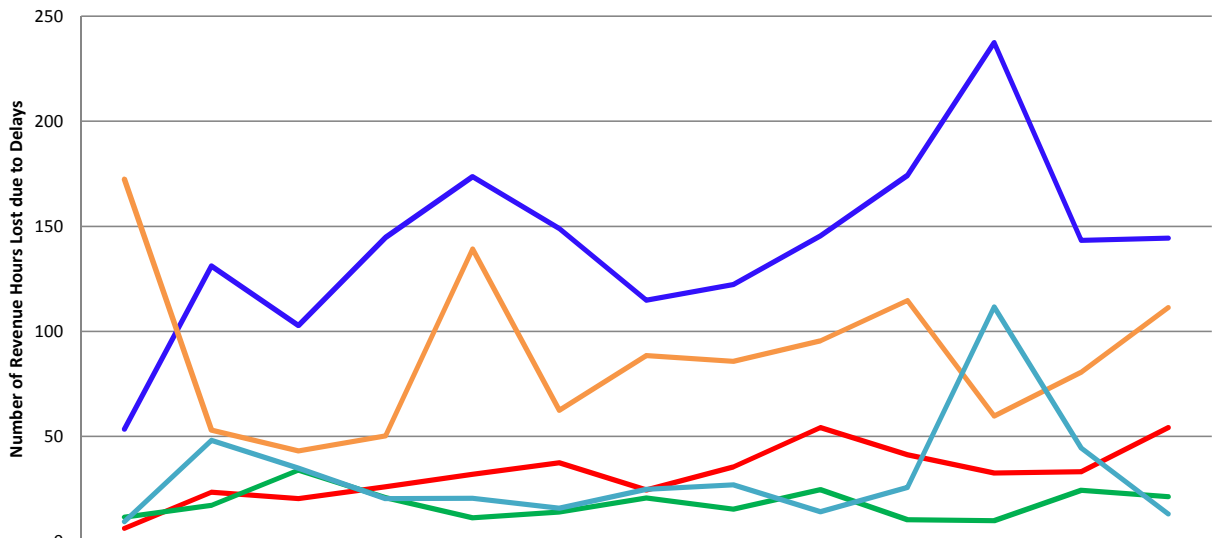
Blue, Red/Purple, Green, Gold & Expo Line Police & Health Delays



	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17
Blue	71	47	93	12	201	22	32	39	60	32	45	129	49
Red	0	8	30	36	16	81	23	11	8	24	37	14	6
Green	1	1	2	23	2	12	1	3	0	0	9	1	1
Gold	36	5	597	49	42	115	9	9	41	33	87	34	34
Expo	89	157	1	5	4	1	7	6	2	29	40	43	6

Revenue Hours Lost Related to - Vehicle Delays

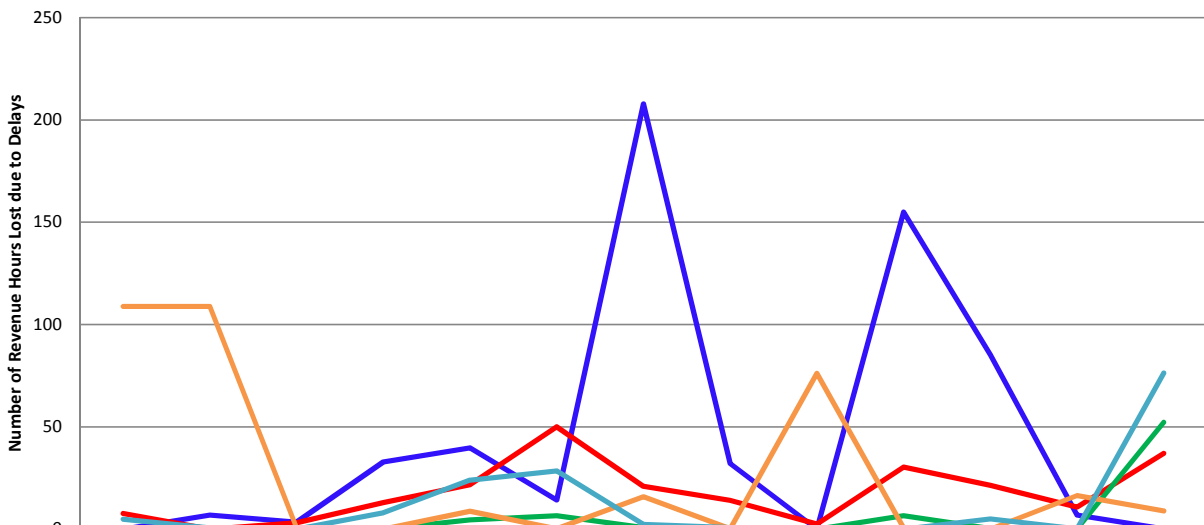
Blue, Red/Purple, Green, Gold & Expo Line Vehicle Delays



	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17
Blue	54	131	103	145	174	149	115	122	145	174	237	143	145
Red	6	24	20	26	32	38	25	36	54	41	33	33	54
Green	12	17	34	21	11	14	21	15	25	10	10	24	21
Gold	172	53	43	50	139	63	89	86	96	115	60	81	111
Expo	10	48	35	21	21	16	25	27	14	26	112	44	13

Revenue Hours Lost Related to - WAYSIDE

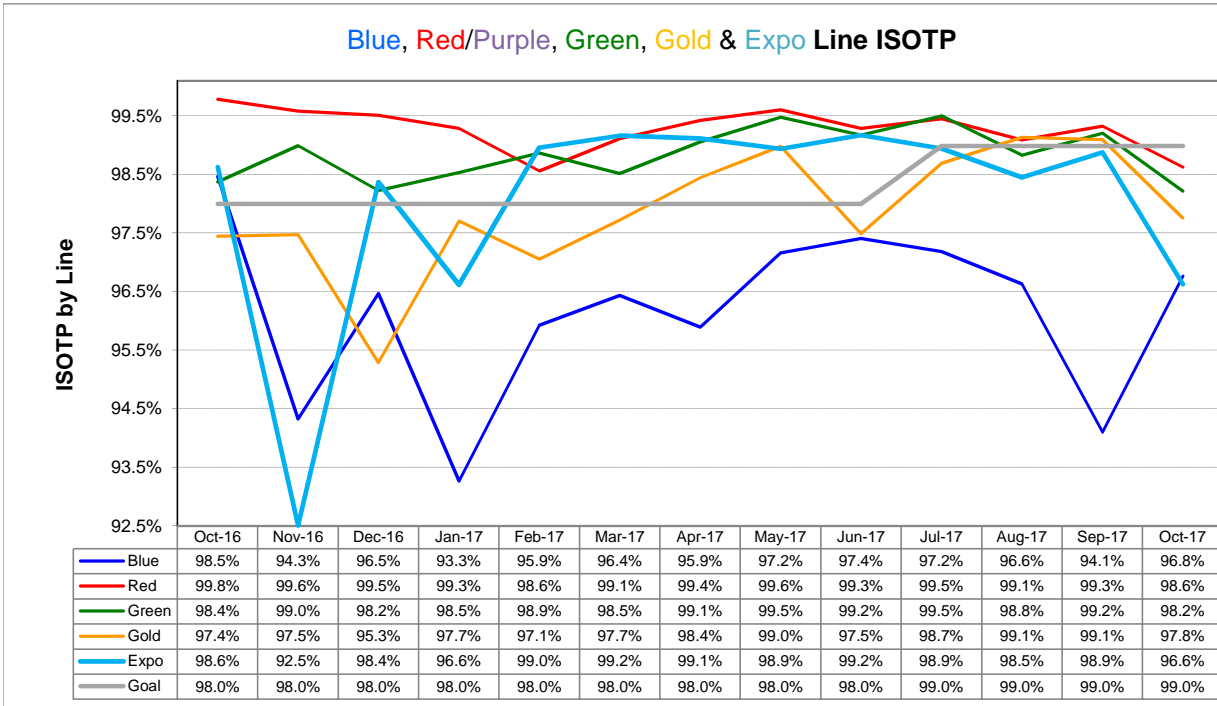
Blue, Red/Purple, Green, Gold & Expo Line Wayside Delays



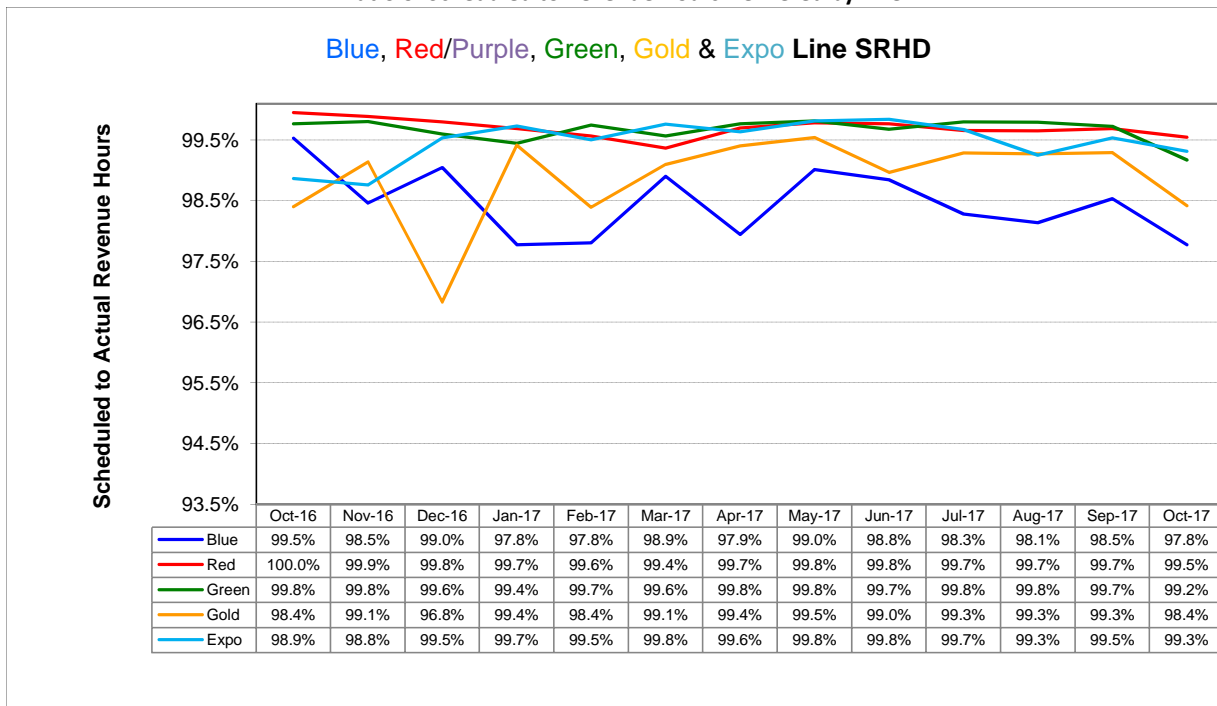
	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17
Blue	0	7	4	33	40	14	208	32	0	155	85	7	0
Red	8	0	3	13	22	50	21	14	3	30	21	11	37
Green	1	1	1	0	5	7	1	0	0	7	0	0	52
Gold	109	109	1	0	9	0	16	0	76	1	0	17	9
Expo	5	1	0	8	24	28	2	1	0	0	5	0	76

Rail Service Performance

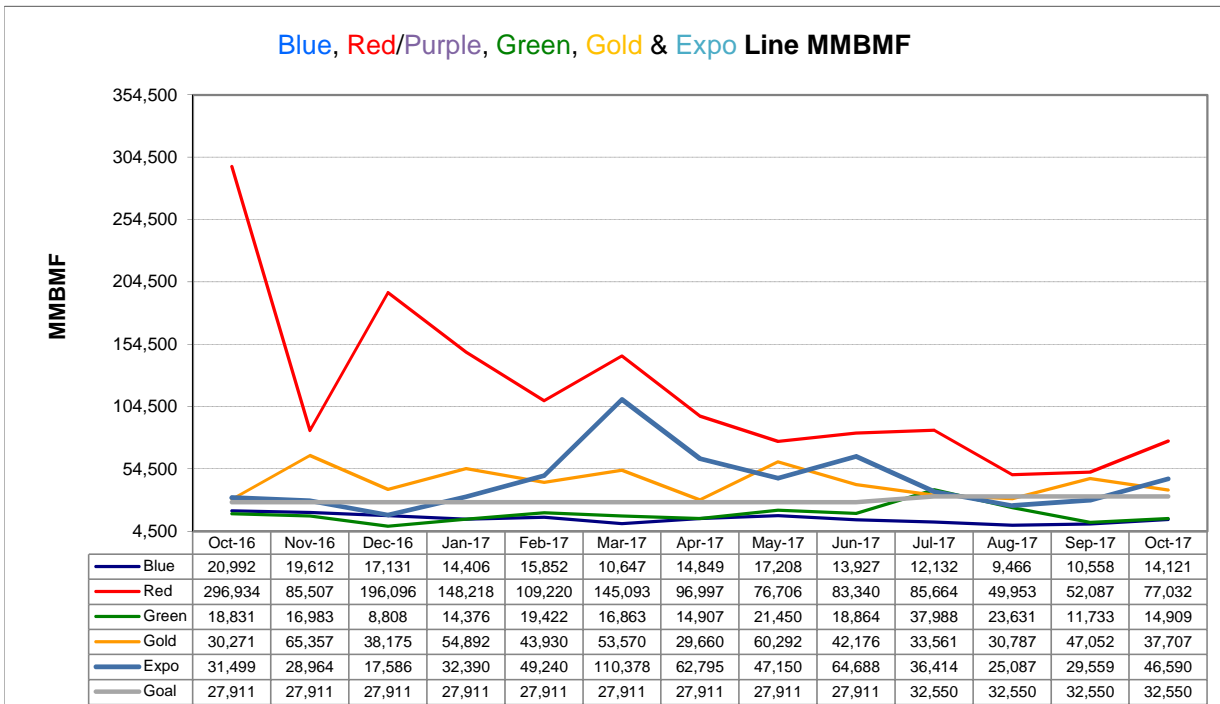
In Service On Time Performance by Line



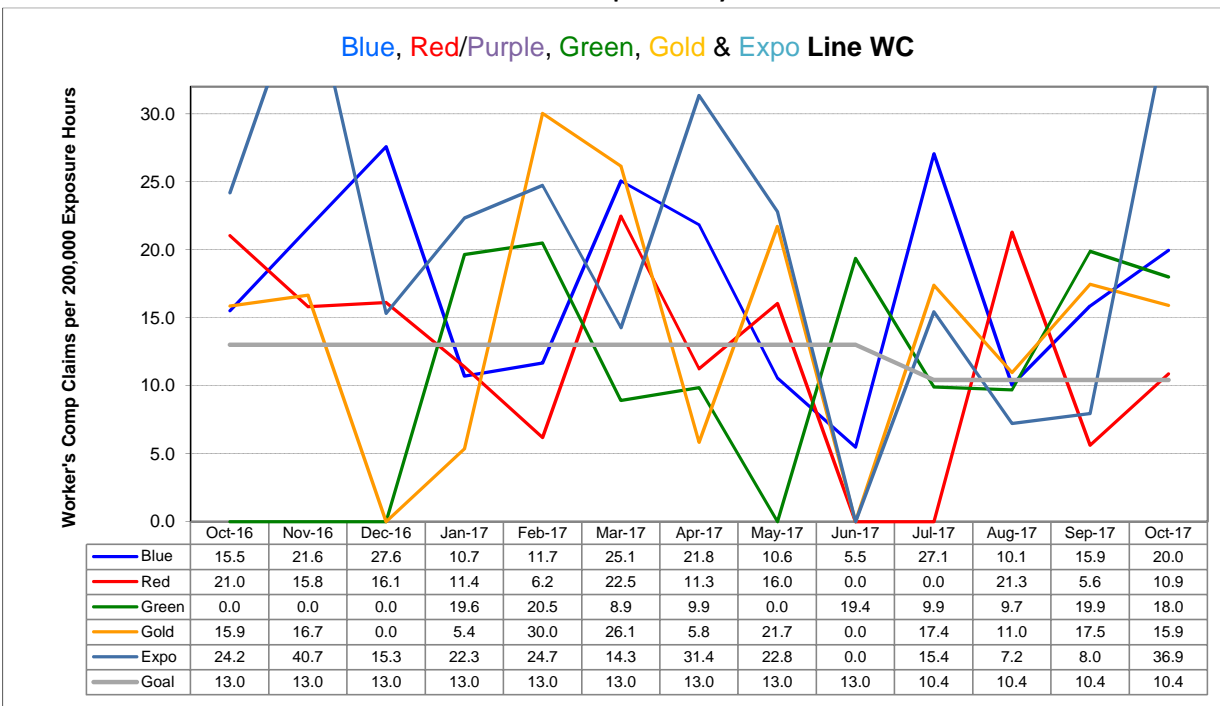
Ratio of Scheduled to Revenue Hours Delivered by Line



Mean Miles Between Mechanical Failures by Line

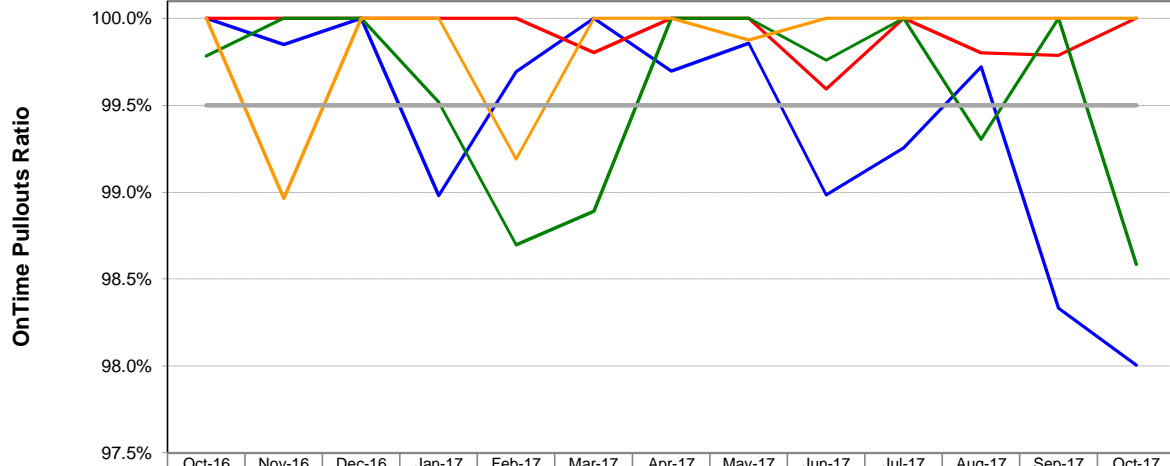


Workers Comp Claims by Line



On-Time Pullouts Ratio by Line

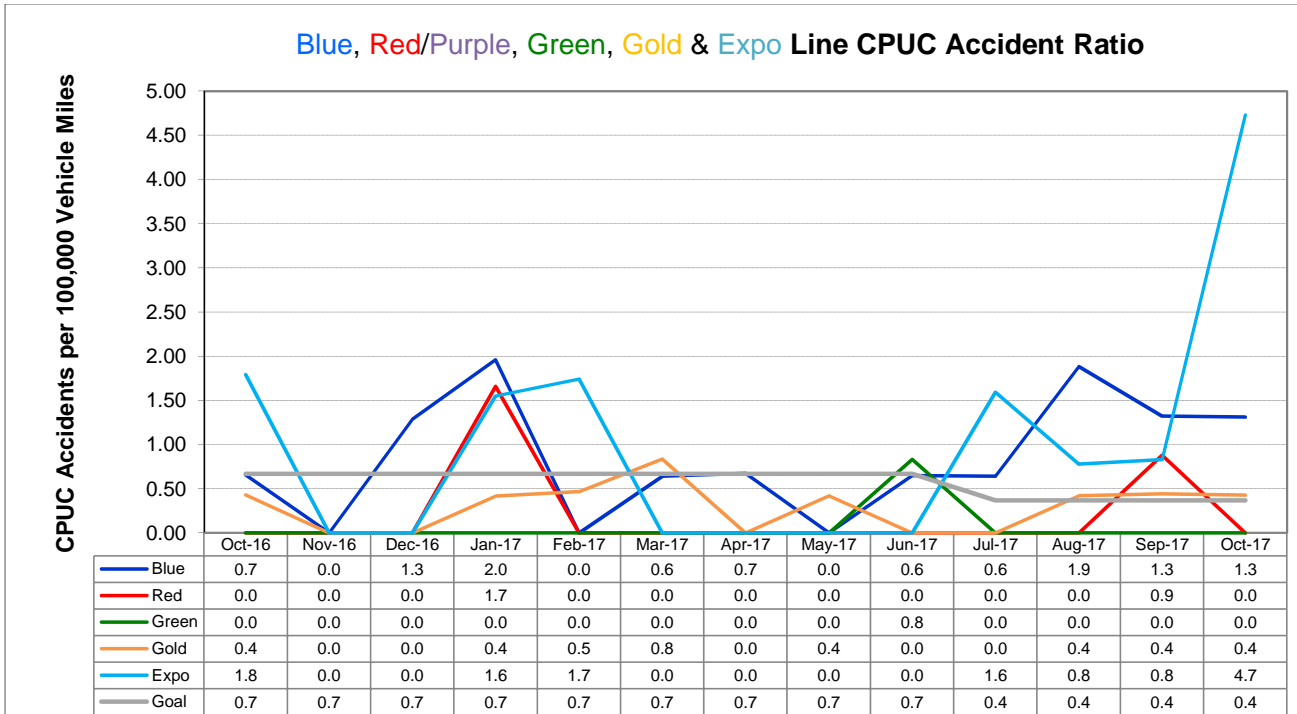
Blue, Red/Purple, Green, Gold & Expo Line OTP



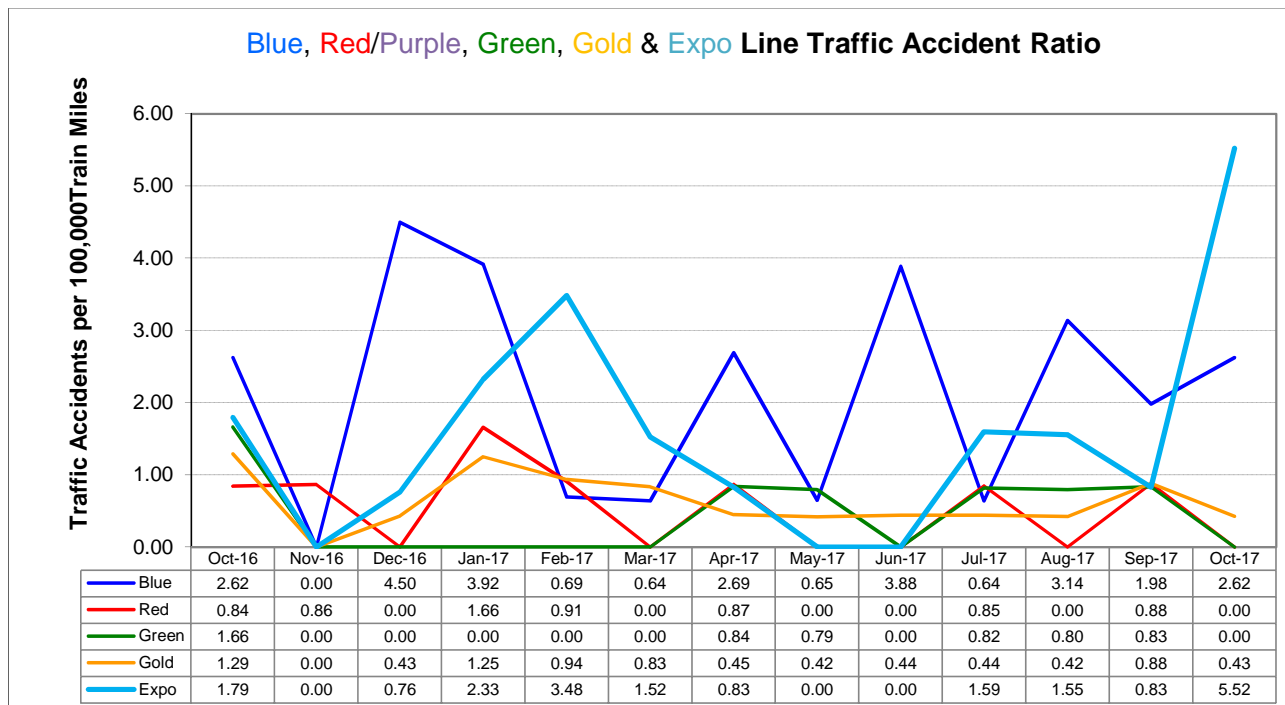
	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17
Blue	100.0%	99.8%	100.0%	99.0%	99.7%	100.0%	99.7%	99.9%	99.0%	99.3%	99.7%	98.3%	98.0%
Red	100.0%	100.0%	100.0%	100.0%	100.0%	99.8%	100.0%	100.0%	99.6%	100.0%	99.8%	99.8%	100.0%
Green	99.8%	100.0%	100.0%	99.5%	98.7%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

Rail Safety Performance

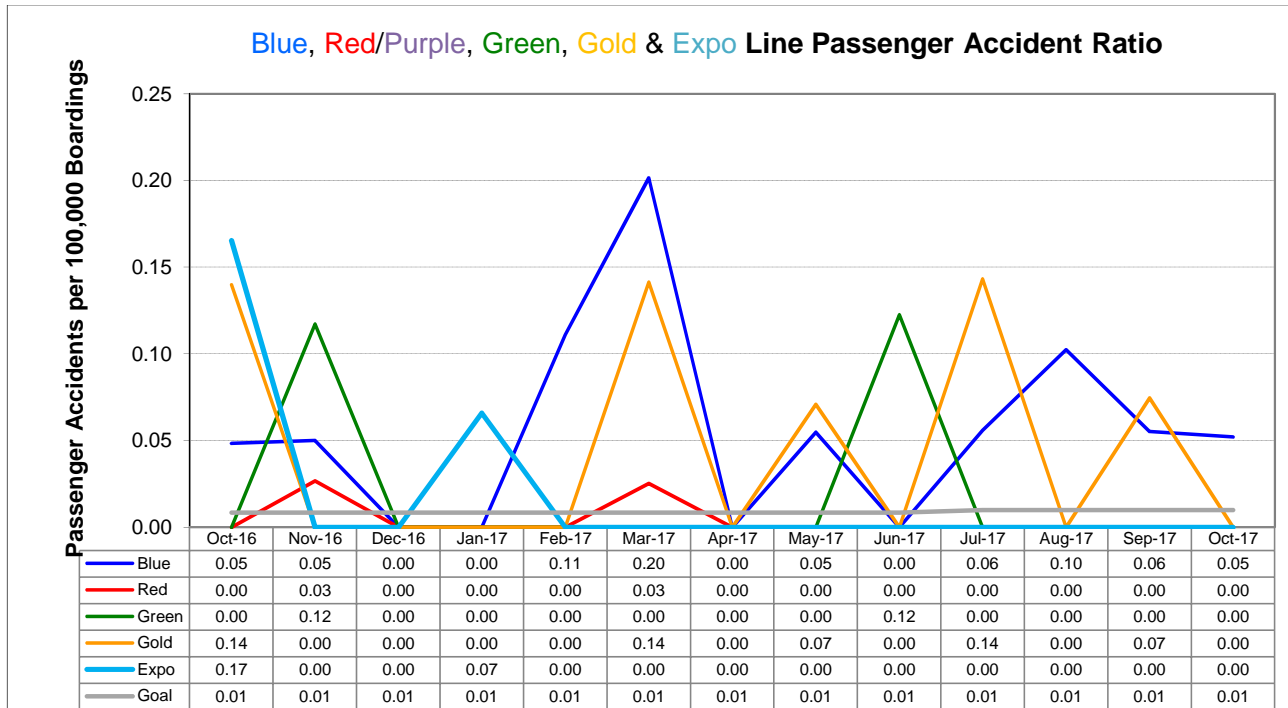
CPUC REPORTABLE ACCIDENTS PER 100,000 TRAIN MILES



TRAFFIC ACCIDENTS PER 100,000 TRAIN MILES



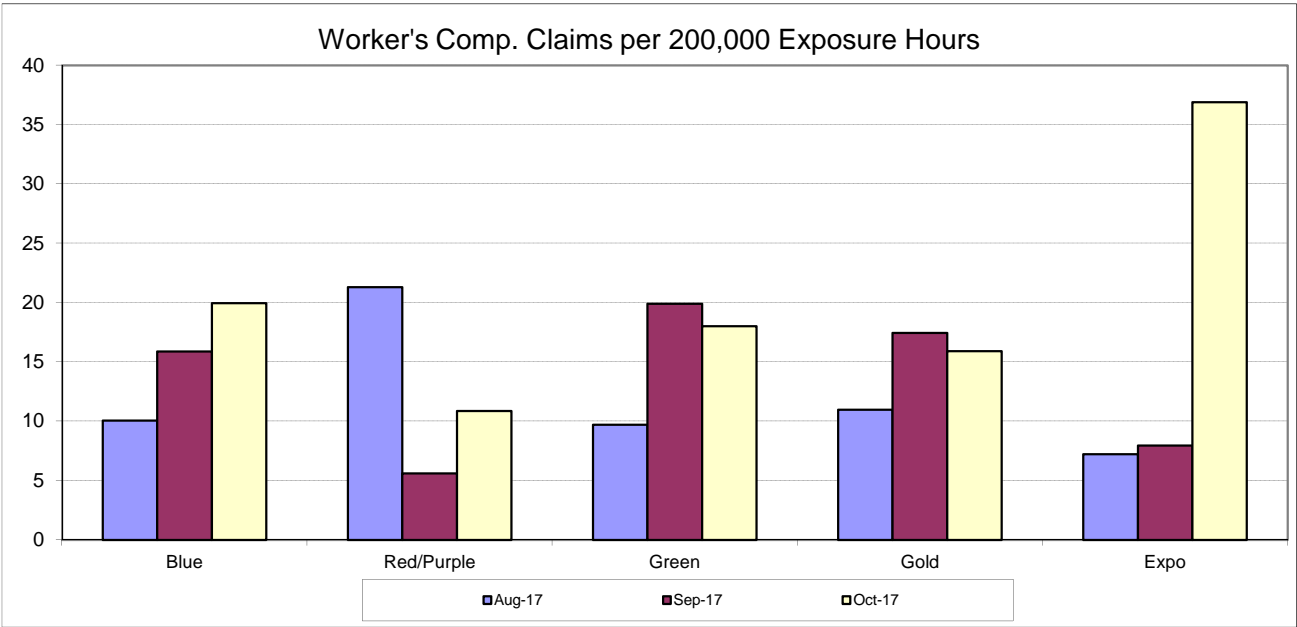
PASSENGER ACCIDENTS PER 100,000 BOARDINGS



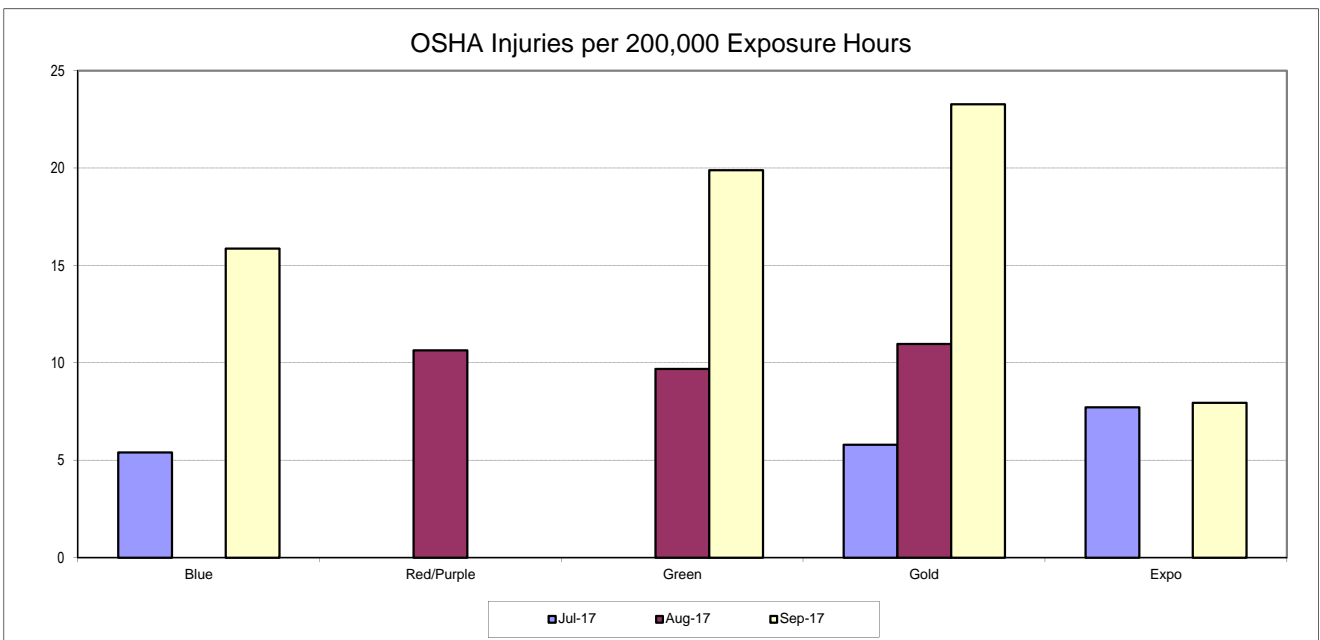
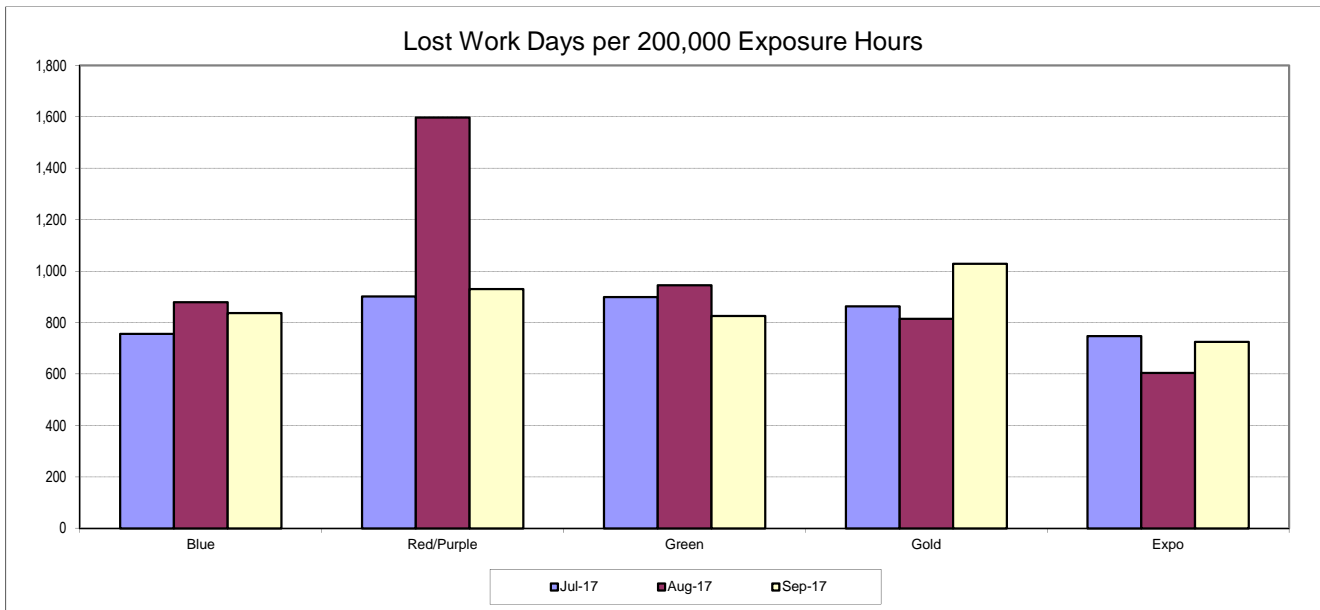
Worker's Comp. Claims

Aug 2017 - Oct 2017

3 Month Comparison



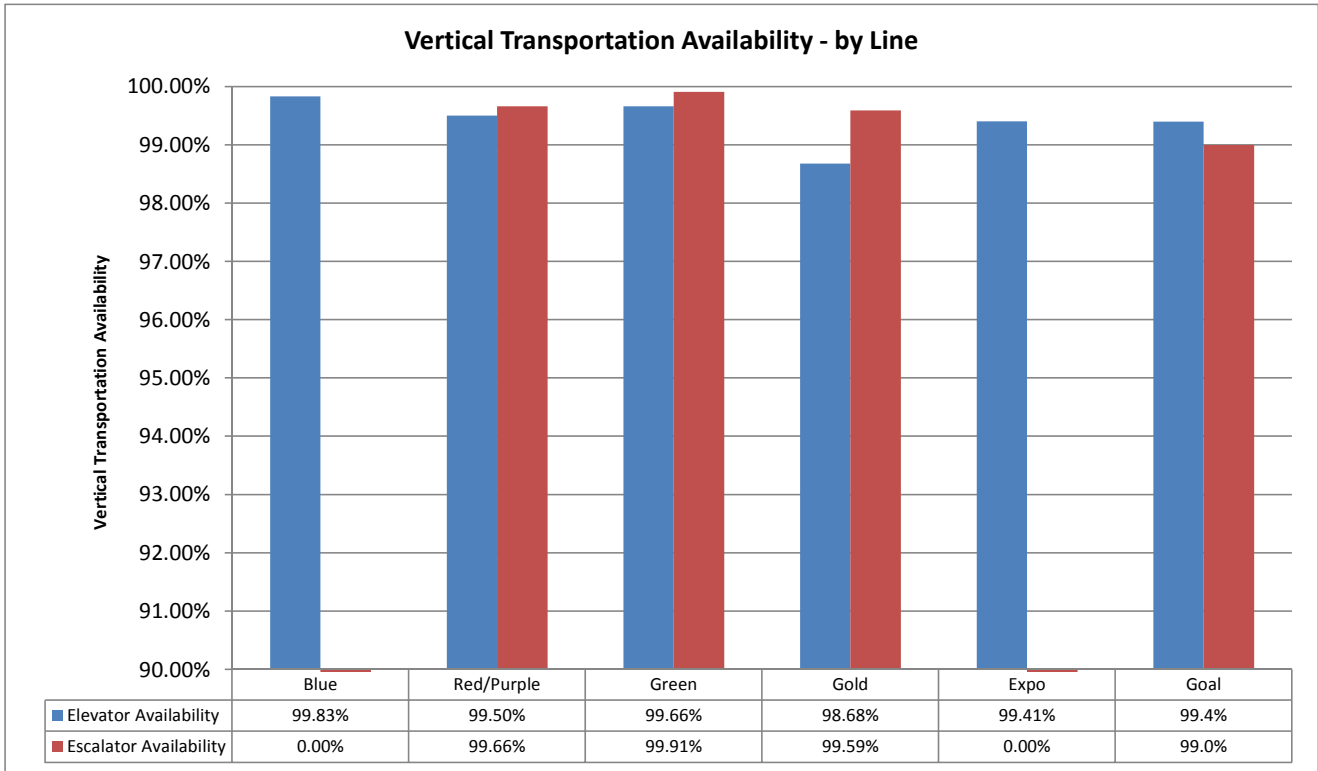
Lost Work Days and OSHA Injuries Jul 2017 - Sep 2017 3 Month Comparison



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

Systemwide Vertical Transportation Availability by Line

Aug 2017 - Oct 2017



Note: No Escalators at Blue and Expo Lines

BLUE LINE

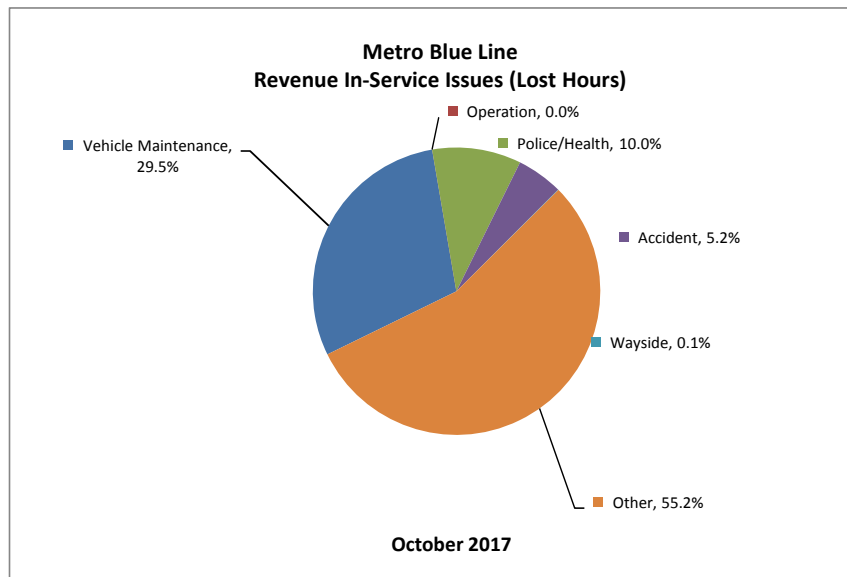
Out of a total of 21,200 hours operated, there were approximately 490 total hours of service delays.

October 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	20,709	97.7%
Cancelled + Delayed Hours	490	2.3%
Total Revenue Hours	21,200	100.0%

Summary of the incidents:	Count	Hours	Percent
Operations	0	0.0	0.0%
Accidents	4	25.6	5.2%
Vehicle Maintenance	54	144.5	29.5%
Wayside	2	0.3	0.1%
Police & Health	14	49.1	10.0%
Other	3	270.6	55.2%
Total	77	490.1	100.0%

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

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



October 2017 Blue Line incidents causing delay were as follows:

Operations Incidents:

10/6/2017 6:25:00 AM - Incident# 2919366 (0 lost trips, lost minutes)

Late trip
Train 103
T-281
1086-1094-1089
Del Amo Station, Northbound, Track 1

Accidents:

10/1/2017 6:59:00 PM - Incident# 2917359 (0 lost trips, 12 lost minutes)

Patron fell in front of the northbound train at Wardlow grade crossing. No contact made with the train.
T-237
Train 103
Cars (107a),118
NB, Wardlow Station, Track 1

10/21/2017 6:35:00 AM - Incident# 2925007 (1 lost trip, 174 lost minutes)

Train vs. Auto
T-321
(240)-235-239
55th Grade crossing N/B

10/22/2017 3:45:00 AM - Incident# 2925205 (0 lost trips, 10 lost minutes)

Train operator T-236 departed late from 7th Metro Ctr.
Train 109
T-236
158-141-161
7th Metro Ctr., Trk. 1, southbound

10/26/2017 8:58:00 AM - Incident# 2927165 (8 lost trips, 1,342 lost minutes)

Train vs Pedestrian at 55th Grade Crossing
Train # 102
T-259
55th Grade Crossing
(242A) 339 231

Vehicle Maintenance Incidents:

10/1/2017 5:59:00 AM - Incident# 2917252 (0 lost trips, 7 lost minutes)

Operator reports of no movement.
T-292
Train#102
Cars(112-106-135)
7th Metro Trk#2
Southbound

10/2/2017 6:45:00 AM - Incident# 2917513 (0 lost trips, lost minutes)

Locker Doors causing cab door to open.
Train 110
T-292
(1065)-1061-1077
Southbound, Track 2

10/2/2017 8:05:00 AM - Incident# 2917565 (3 lost trips, 503 lost minutes)

Other Vehicle System (VDU/Network System B/O)
(1072B)-1067-1069
Train 103
T-494
Washington, Southbound, Track 2

10/2/2017 8:05:00 AM - Incident# 2918108 (3 lost trips, 503 lost minutes)

Other Vehicle System (VDU/Network B/O)
(1072B)-1067-1069
Train 103
T-494
Washington, Southbound, Track 2

10/2/2017 3:30:00 PM - Incident# 2917777 (0 lost trips, 15 lost minutes)

(1088)-1063-1073
Propulsion Fault w/Speed Restriction
SB Florence
T-187
Train 103

10/2/2017 3:37:00 PM - Incident# 2917790 (1 lost trip, 168 lost minutes)

(241)-302
Could Not Obtain Cab Signal
NB Yard Limits
T-130
Train 125

10/4/2017 5:55:00 AM - Incident# 2918351 (1 lost trip, 168 lost minutes)

ATP failure on car 1086 at Mainyard pulling out.

10/4/2017 7:09:00 AM - Incident# 2918374 (0 lost trips, lost minutes)

Train 119 pulled out of yard at 709 hours, 18 minutes past pull out time of 0651

10/4/2017 8:04:00 AM - Incident# 2918420 (0 lost trips, 12 lost minutes)

Propulsion / Dynamic Brakes
(241A)-250-233
Train 118
T-281
Slauson, Southbound, Track 2

10/4/2017 9:19:00 AM - Incident# 2918502 (0 lost trips, 18 lost minutes)

No Fault - No Movement
(1020)-1023-1072
Train 662
T-47
Metro Cente, Southbound, Track 2

10/4/2017 9:20:00 PM - Incident# 2918696 (1 lost trip, 168 lost minutes)

Self applying friction brakes on car 244A/237/236.
T-321.
Train 118.

10/5/2017 5:52:00 AM - Incident# 2918857 (0 lost trips, 5 lost minutes)

Train 603 pulled out 5 minutes late due to a Friction Brake Fault on car 166.
T-231
Consist 157-111-(166)

10/6/2017 5:28:00 AM - Incident# 2919322 (0 lost trips, 12 lost minutes)

Self-applying brakes
Train 105
T-152
(1088)-1082-1070
7th/Metro, Track 2, Southbound

10/6/2017 11:15:00 AM - Incident# 2919513 (1 lost trip, 166 lost minutes)

A/C, Speed restriction/Propulsion fault on car (320A).
Train # 119
T-182
Anaheim, track #1, northbound
(302A) 249 245

10/6/2017 2:10:00 PM - Incident# 2919604 (0 lost trips, 12 lost minutes)

ATP Failure No Street Run: Train Offloaded
Train 101, T-174
Cars 231, 246, (234)
Willow, Trk 1, North

10/7/2017 11:16:00 AM - Incident# 2919838 (0 lost trips, 10 lost minutes)

Propulsion / Dynamic Brakes

Train 111

T-281

Southbound, track 2 at 103rd street station.

10/7/2017 2:38:00 PM - Incident# 2919886 (1 lost trip, 171 lost minutes)

Propulsion / Dynamic Brakes

Train 109

T-376

(1074B)-1079-1087

Southbound, Track 2 Washington Station.

10/7/2017 5:44:00 PM - Incident# 2919936 (0 lost trips, 12 lost minutes)

Propulsion / Dynamic Brakes

Train 104

T-081

(150A)-110-137

Northbound, Track 1 Willow station.

10/8/2017 9:23:00 PM - Incident# 2920154 (1 lost trip, 162 lost minutes)

Propulsion fault unable to clear. 123-126

Train 107

T-072

Track 1

Northbound

Del Amo station

10/9/2017 2:58:00 PM - Incident# 2920519 (0 lost trips, 6 lost minutes)

Friction brake fault. cars 114-165-107

Train 123

T-300

Metro center

Track 2

Southbound

10/9/2017 4:09:00 PM - Incident# 2920529 (1 lost trip, 167 lost minutes)

Propulsion fault unable to clear. 238A-250-235

T*-231

Train -101

Track 2

Southbound

Willow station

10/10/2017 5:22:00 AM - Incident# 2920691 (2 lost trips, 335 lost minutes)

Operator reports of a propulsion brake fault with a speed restriction.

T-211

Train#104

Cars(1094B)-1086-1080

Washington, Trk#2

Southbound

10/10/2017 7:09:00 AM - Incident# 2920741 (4 lost trips, 689 lost minutes)

Operator reports of no movement.

T-087

Train#114

Cars(1037)-1054-1032

Florence Trk#2

Southbound

10/12/2017 7:08:00 AM - Incident# 2921611 (0 lost trips, lost minutes)

Operator reports of door not opening .

T-069

Train#119

Cars(133)-302-230

Del Amo St Trk#1

Northbound

10/12/2017 12:41:00 PM - Incident# 2921753 (0 lost trips, 4 lost minutes)

Doors are opening very slow (door button malfunctioning) (1076)-1072-1097
Train #101
T-130
Pico Station, Track #001, Northbound.

10/12/2017 5:22:00 PM - Incident# 2921850 (0 lost trips, 6 lost minutes)

Cab door lock mis aligned (161A)121,111.
Willow Station
Train #108, T-69, track #2, southbound.

10/12/2017 5:51:00 PM - Incident# 2921865 (1 lost trip, 168 lost minutes)

Propulsion Fault with Speed Restriction
Train 101, T-075
Cars (238), 241, 239
Wardlow, Trk 1, Northbound

10/13/2017 6:32:00 PM - Incident# 2922286 (1 lost trip, 166 lost minutes)

Recurring emergency brake applications.
Train #104
T-495
Cars #(233-247-2444
N/Bound Willow brook Station Track#1.

10/16/2017 8:25:00 AM - Incident# 2922853 (0 lost trips, 10 lost minutes)

Doors
(106)-108-159
Train 118
T-415
Artesia, Southbound, Track 2

10/16/2017 2:10:00 PM - Incident# 2923057 (1 lost trip, 167 lost minutes)

Reoccurring propulsion fault 118A-151-127
Train 106
T-201
Track 2
Southbound
Washington station

10/16/2017 3:06:00 PM - Incident# 2923104 (1 lost trip, 167 lost minutes)

No movement north bound 238-231-237
Train 120
T-300
Track 1
Northbound
Vernon station

10/17/2017 5:03:00 AM - Incident# 2923277 (1 lost trip, 167 lost minutes)

Operator reports of a propulsion dynamic brake fault with a speed restriction.
T-182
Train#101
Cars(250A)-239-242
Washington Trk2
Southbound

10/17/2017 5:07:00 AM - Incident# 2923260 (0 lost trips, lost minutes)

Train #111 departed the blue line yard late due to a beakdown in the yard.
T-262
Train#111
Cars#237-231-238
Southbound
Mainyard, Trk#2

10/17/2017 7:06:00 AM - Incident# 2923335 (2 lost trips, 344 lost minutes)

Operator reports of self applying brakes .

T-262

Train#113

Cars(244A)-234-229

Artesia St. Trk#2

Souithbound

10/17/2017 2:32:00 PM - Incident# 2923534 (1 lost trip, 167 lost minutes)

Recurring friction brake failure.

Train #103

T-042

Cars #104-157-140.

S/Bound Firestone Station Track-2.

10/17/2017 4:56:00 PM - Incident# 2923620 (1 lost trip, 192 lost minutes)

Door problem with no movement.

Train #125

T-531

Cars #247-(240-B).

N/Bound Vernon Station Track-1.

10/18/2017 6:36:00 AM - Incident# 2923774 (1 lost trip, 167 lost minutes)

Train 116 reports no horn/ Gong no audibles at Artesia station track 1. Vehicle tech boarded at Willowbrook station unable to perform repairs. cars 1089 1087 1088, operator T-34.

10/18/2017 8:07:00 AM - Incident# 2923819 (2 lost trips, 335 lost minutes)

160B Prop Fault

Train 118

T-174

Tk 2 SB Vernon

160-155-136

10/18/2017 4:52:00 PM - Incident# 2924057 (3 lost trips, 526 lost minutes)

Brake Fault Monitor Failure.

Train #121

T-528

Cars #238-(231)-237

N/Bound Pacific Street Station.

10/19/2017 9:05:00 AM - Incident# 2924287 (0 lost trips, 16 lost minutes)

Doors (Sensitive Edge)

(153)-160-110

Train 113

T-200

Washington, Southbound, Track 2

10/19/2017 3:52:00 PM - Incident# 2924455 (1 lost trip, 168 lost minutes)

Train line problems.

Train #121

T-059

Cars #1089-1087-(1088-A).

S/Bound Washington Station Track-2.

10/23/2017 3:17:00 PM - Incident# 2925787 (1 lost trip, 168 lost minutes)

Door issues no movement. 161-164-157

Train 123

T-086

Track 1

Northbound

Del Amo

10/23/2017 3:44:00 PM - Incident# 2925833 (1 lost trip, 168 lost minutes)

Propulsion fault unable to clear. 139A-114-153
T-059
Track 2
Southbound
Grand station

10/23/2017 3:52:00 PM - Incident# 2925838 (1 lost trip, 168 lost minutes)

Low air pressure. 250-231-241
T-164
Train 107
Track 1
Northbound
T Mall station

10/24/2017 4:04:00 PM - Incident# 2926372 (0 lost trips, lost minutes)

Friction Brakes (not releasing SB)
Train 117
Track #2 7MC SB
T-82
(144)-111-120

10/25/2017 5:01:00 AM - Incident# 2926531 (1 lost trip, 168 lost minutes)

Yard Controller reports that train #110 had no movement in the yard.
T-495
Train #110
Cars(155)-121-148
Blue line Yard

10/25/2017 6:27:00 AM - Incident# 2926579 (1 lost trip, 168 lost minutes)

Yard Controller reports that train #117 was out late because of door problems.
T-528
Train #117
Cars-141(161)-163
Blue line Yard

10/25/2017 11:03:00 AM - Incident# 2926746 (1 lost trip, 173 lost minutes)

Track Brakes applied.
T-54
Train 117
(244)-229-236
Track 1 N/B Del Amo Station

10/25/2017 11:47:00 AM - Incident# 2926771 (0 lost trips, 12 lost minutes)

Friction Brakes not releasing.
Train 103
T-026
(167B)-119-103
Track 2 Washington S/B

10/25/2017 2:38:00 PM - Incident# 2926857 (0 lost trips, 6 lost minutes)

Report of friction brake self applied.
T-485
Train-108
Cars 111. 165, (140)
Metro Center track 2 SB

10/25/2017 4:20:00 PM - Incident# 2926924 (1 lost trip, 174 lost minutes)

Report of repeated self applying friction brake.
T-291
Train 101
Cars 111-165-(140)
Firestone track 2 SB

10/26/2017 2:59:00 PM - Incident# 2927341 (1 lost trip, 174 lost minutes)

Self applying Friction Brake with audible on car (163A).

Train # 108

T-234

Imperial, track #2, southbound

(163A) 141 114

10/26/2017 5:19:00 PM - Incident# 2927402 (1 lost trip, 168 lost minutes)

Reports self applying friction brakes at Slauson Street.

Train # 107

T-130

129th Street, track #2, southbound

104 (107) 135

10/28/2017 12:57:00 AM - Incident# 2927895 (0 lost trips, 20 lost minutes)

Prop Fault/ Speed Restriction

Train 118

T-390

(247)-239-242

Slauson Station, Track 2, Southbound

10/28/2017 10:53:00 AM - Incident# 2928001 (1 lost trip, 174 lost minutes)

Friction Brakes

Train 103

T-200

(244)-233-241

Southbound, Track 2 at Firestone station.

10/29/2017 4:44:00 AM - Incident# 2928145 (2 lost trips, 344 lost minutes)

Train 108 pull-out late from the yard due to a break down.

10/29/2017 2:41:00 PM - Incident# 2928260 (1 lost trip, 172 lost minutes)

Auto Train Protection (Speed Limit)

Train 103

T-291

Cars (242)-239

Washington station Track 2 S/B

10/30/2017 6:31:00 AM - Incident# 2928410 (1 lost trip, 168 lost minutes)

Train 119 unable to make rollout.

10/31/2017 9:02:00 PM - Incident# 2929186 (1 lost trip, 168 lost minutes)

Doors

T-handle broken doors 1/2

Train 107

T-413

Cars 166-(107)-127

Firestone track 2 S/B

Wayside Incidents:

10/3/2017 3:47:00 PM - Incident# 2918210 (0 lost trips, 6 lost minutes)

Interlocking: Switch Out Of Correspondence at Mainyard interlocking switch 43A/B.

10/27/2017 7:11:00 AM - Incident# 2927571 (0 lost trips, 10 lost minutes)

False Occupancies

Mainyard Interlocking

Police & Health Incidents:

10/1/2017 8:34:00 PM - Incident# 2917375 (2 lost trips, 294 lost minutes)

Pacific and Broadway in the city of Long Beach blockade. Accident MTA not involved.

10/2/2017 5:27:00 AM - Incident# 2917501 (0 lost trips, 13 lost minutes)

Fight onboard train, victims holding attacker

Train 605

T-26

Car 1077

Florence Station, Track 1, Northbound

10/4/2017 9:09:00 AM - Incident# 2918449 (0 lost trips, 15 lost minutes)
Theft/Robberies suspect on board Train 103

10/9/2017 9:45:00 PM - Incident# 2920611 (1 lost trip, 167 lost minutes)
T-286 reports disturbance on board train
Train101
T-286
113B-120
Track 2
Del Amo station

10/10/2017 8:59:00 PM - Incident# 2921068 (0 lost trips, 15 lost minutes)
Train Delay
Train 129
T-307
Cars 249-244-237
Willowbrook station tk2

10/19/2017 5:28:00 AM - Incident# 2924189 (4 lost trips, 691 lost minutes)
Sick Individual (Patron fell from wheelchair on board train)

10/20/2017 7:22:00 PM - Incident# 2924923 (1 lost trip, 189 lost minutes)
Person jumped off the 405 overpass.

10/21/2017 9:31:00 PM - Incident# 2925185 (0 lost trips, 11 lost minutes)
Train 108 was held at Grand Station Southbound Track #2 due to Pedestrian vs Auto at Washington and Olive
Train 108
160-110-101
T-490
Grand Station Track #2 Southbound.

10/23/2017 5:38:00 PM - Incident# 2925894 (0 lost trips, 10 lost minutes)
Pallets on the ROW at Long Beach and Washington track 1 blocked.

10/23/2017 5:49:00 PM - Incident# 2925878 (1 lost trip, 168 lost minutes)
Multiple individual pepper sprayed.
Train 103
T-034
1093-1094-1074
Track 2
Southbound
Florence station

10/25/2017 5:56:00 AM - Incident# 2926602 (0 lost trips, lost minutes)
Operator reports of a patron laying down, seemingly unresponsive on the floor of car 1073B.

10/27/2017 3:36:00 PM - Incident# 2927802 (2 lost trips, 332 lost minutes)
Sheriff report man with a gun at Del Amo Station

10/28/2017 5:40:00 AM - Incident# 2927933 (0 lost trips, 15 lost minutes)
Passed out passenger on car floor
Train 103
T-415
Car 1085
Washington Station, Track 2, Southbound

10/28/2017 8:47:00 AM - Incident# 2927969 (0 lost trips, 18 lost minutes)
Sick Individual
Train 107
T-415
114-(138)-163
Southbound, Track 2 Compton station.

10/31/2017 11:35:00 PM - Incident# 2929215 (6 lost trips, 1,007 lost minutes)
LBPD shutting down the Transit Mall Station due to Possible Suicide Suspect.

Other Incidents:

10/13/2017 7:26:00 AM - Incident# 2922031 (1 lost trip, 166 lost minutes)

Near Miss

Train 107

T-200

151-149-111

Wardlow Station, Track 1, Northbound

10/16/2017 4:10:00 PM - Incident# 2923141 (96 lost trips, 16,057 lost minutes)

Report of a sick/injured individual on the ROW Track 1 at Firestone just south of the platform.

Train 127

T-522

1080B-1086-1071

Track 2

Southbound

Firestone station

10/17/2017 10:36:00 AM - Incident# 2923423 (0 lost trips, 12 lost minutes)

Doors

(238)-231 237

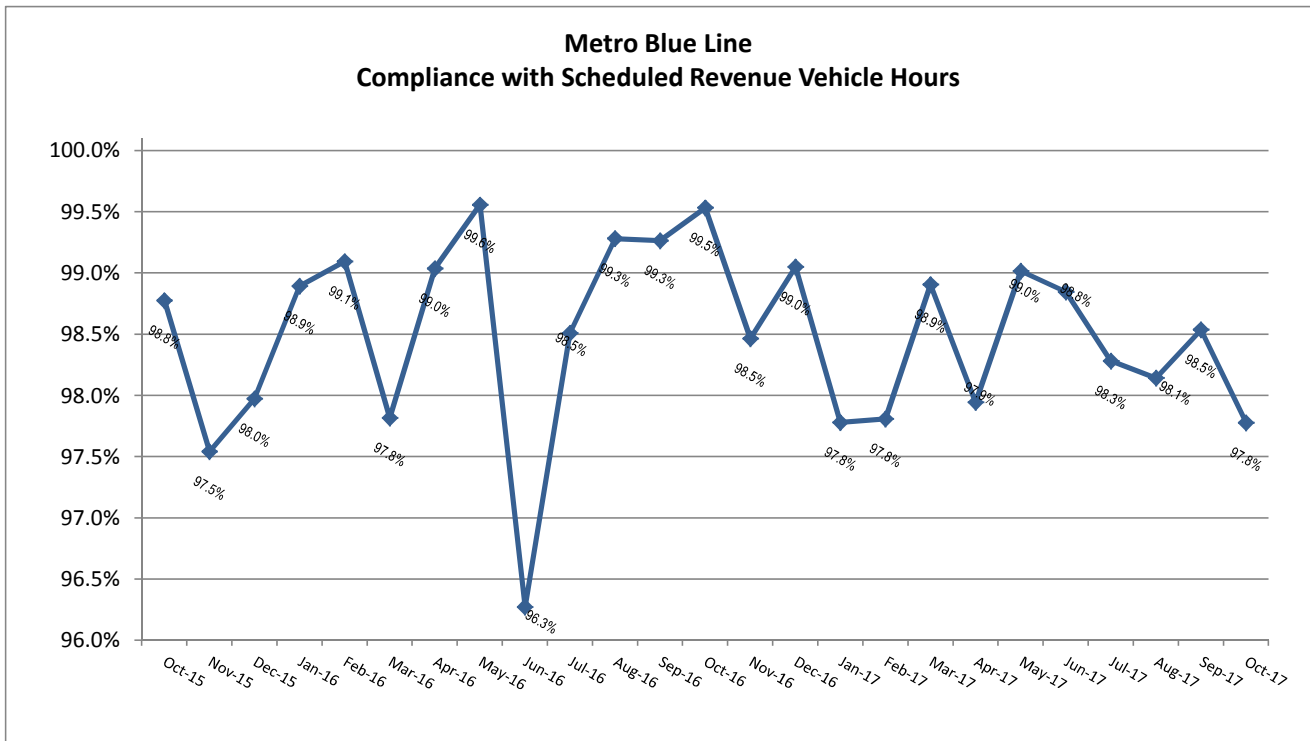
Train 107

T-125

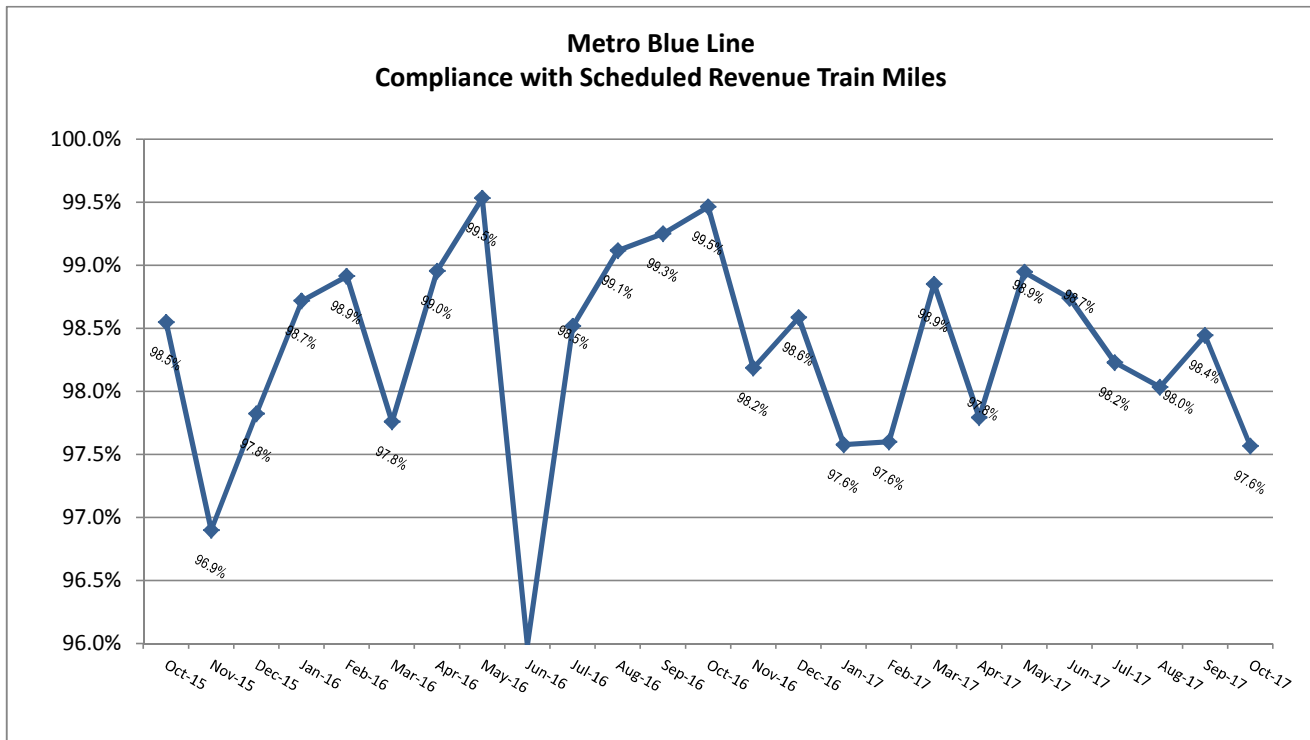
Washington, Southbound, Track 2

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

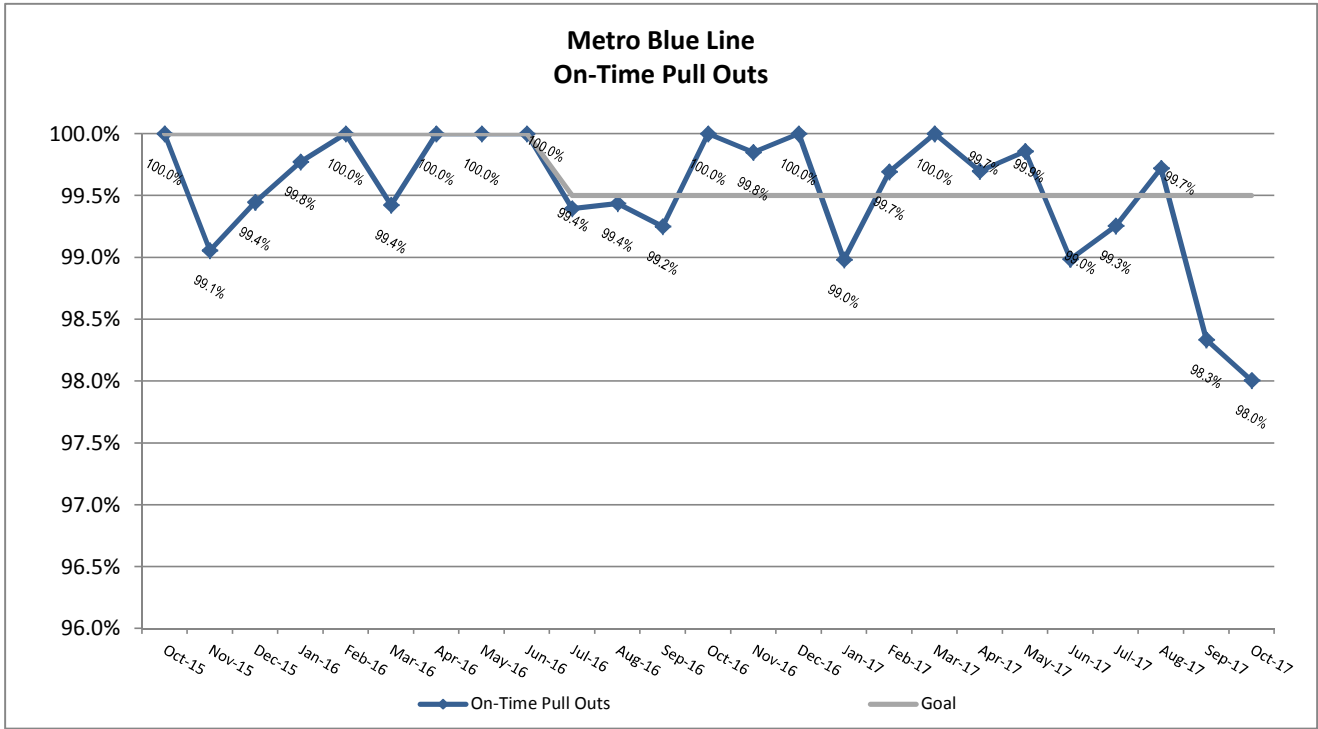
COMPLIANCE WITH SCHEDULED VEHICLE HOURS



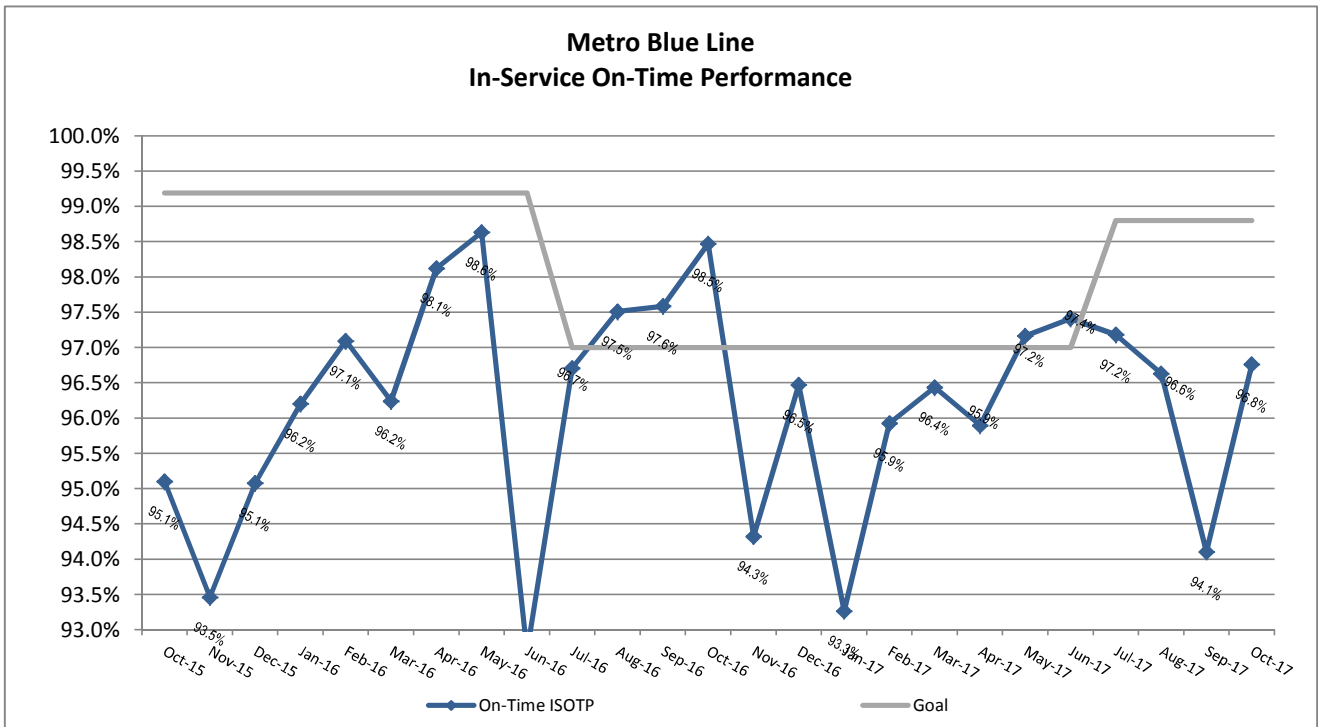
COMPLIANCE WITH SCHEDULED TRAIN MILES



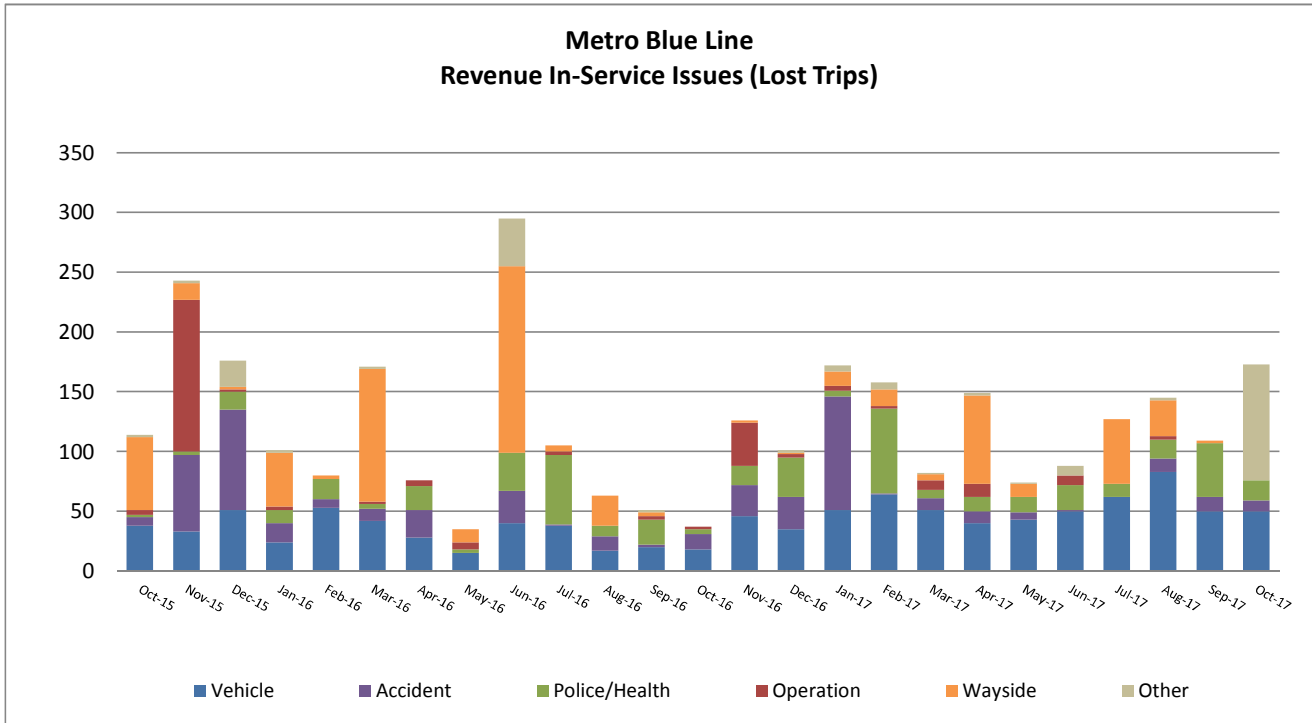
ON-TIME PULL OUTS



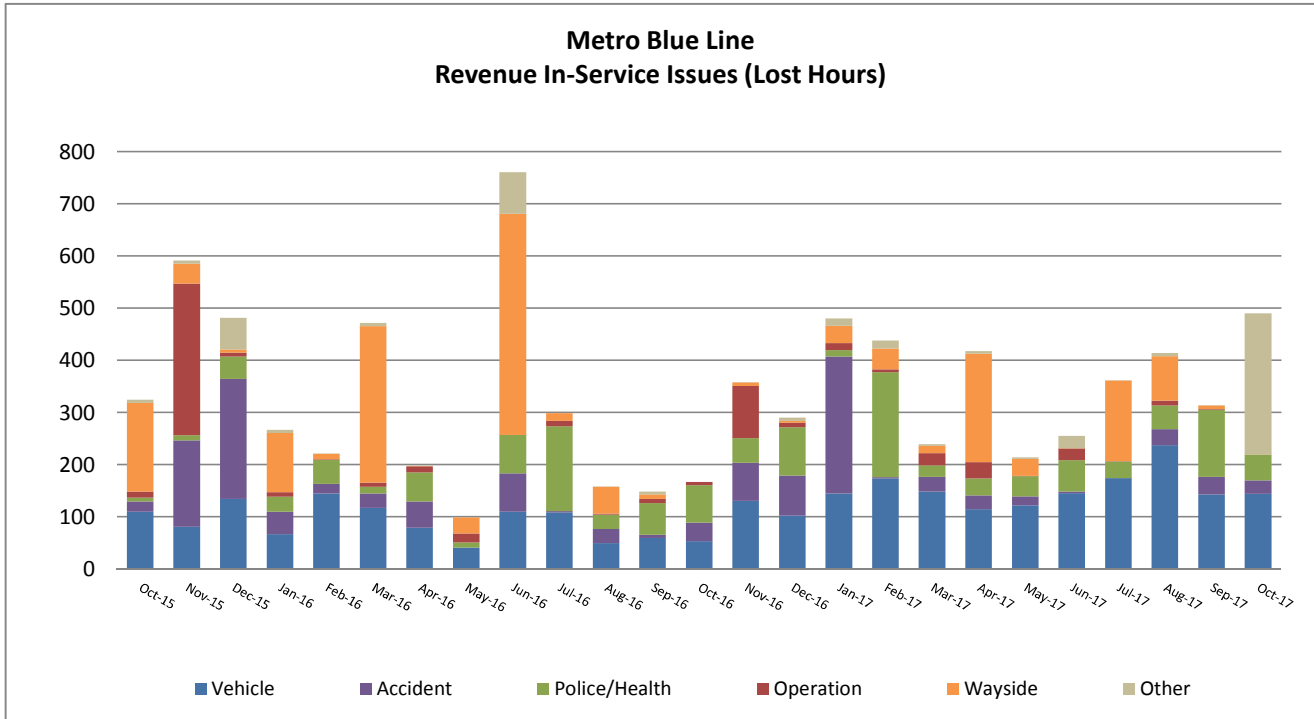
IN-SERVICE ON-TIME PERFORMANCE CHART



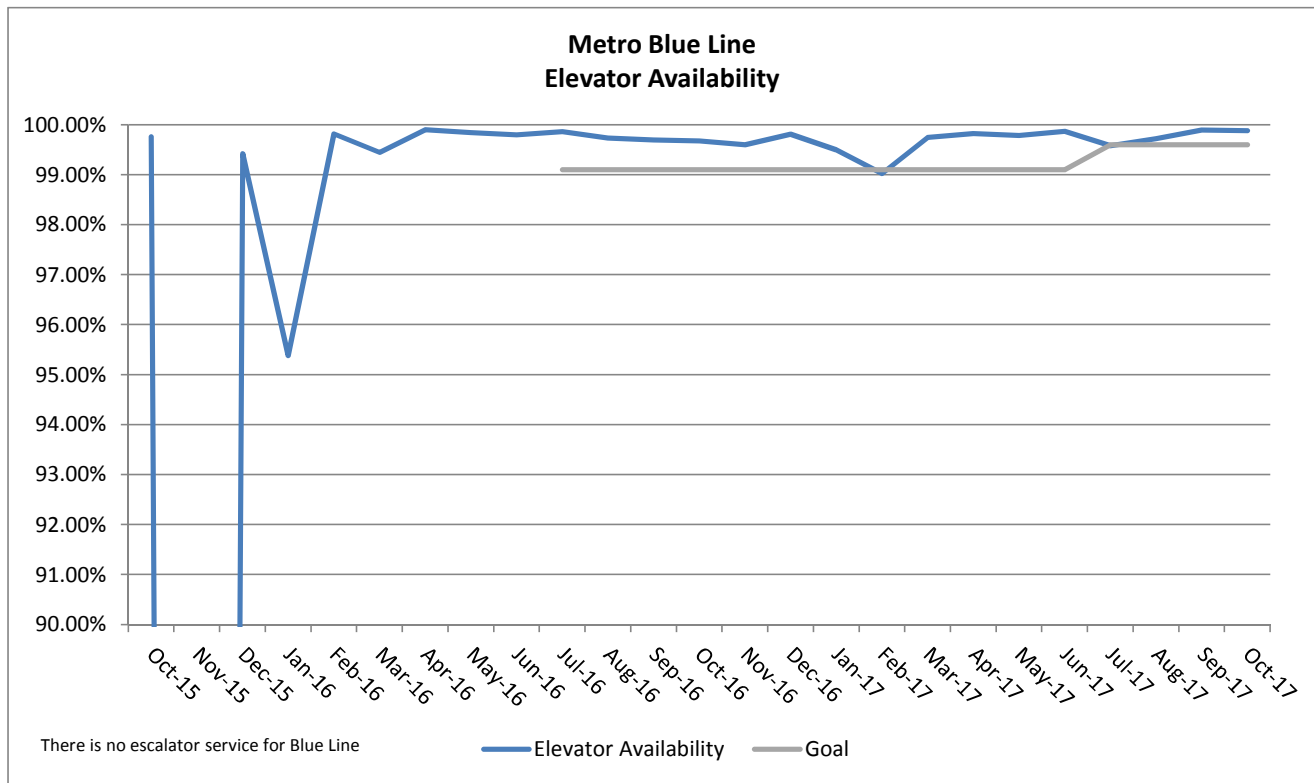
LOST TRIPS



LOST HOURS



VERTICAL TRANSPORTATION AVAILABILITY



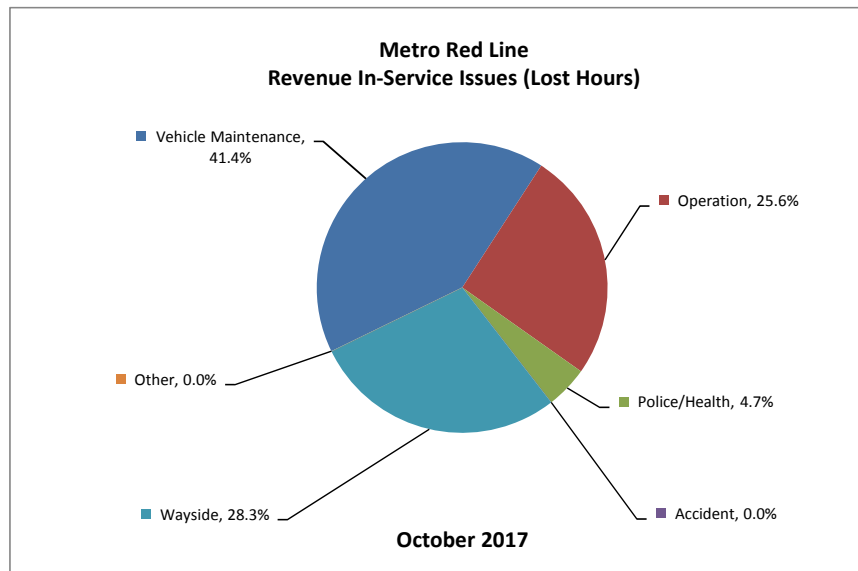
RED LINE

Out of a total of 27,890 hours operated, there were approximately 131 total hours of service delays.

October 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	27,758	99.5%
Cancelled + Delayed Hours	131	0.5%
Total Revenue Hours	27,890	100.0%

Summary of the incidents:	Count	Hours	Percent
Operations	3	33.6	25.6%
Accidents	0	0.0	0.0%
Vehicle Maintenance	15	54.3	41.4%
Wayside	9	37.1	28.3%
Police & Health	6	6.2	4.7%
Other	0	0.0	0.0%
Total	33	131.2	100.0%

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



October 2017 Red Line incidents causing delay were as follows:

Operations Incidents:

10/11/2017 8:52:00 PM - Incident# 2921487 (13 lost trips, 1,978 lost minutes)

RC-110 reports he is supporting Dyna Electric as the EIC.

10/18/2017 8:41:00 PM - Incident# 2924084 (0 lost trips, 20 lost minutes)

RC-156 request to activate work permit D-002 to support DynaElectric.

10/19/2017 9:11:00 PM - Incident# 2924536 (0 lost trips, 17 lost minutes)

FM-167 supporting contractor Hayward Baker as EIC and pilot with FM-181 as the watchperson.

Vehicle Maintenance Incidents:

10/3/2017 6:40:00 AM - Incident# 2917967 (1 lost trip, 150 lost minutes)

Car 516 Emergency Brake Application, unable to engage EMO

Train 208

T-074

wilshire Western Station BR Eastbound

Consist 516-515-508-509

10/9/2017 3:56:00 PM - Incident# 2920521 (2 lost trips, 299 lost minutes)

Train 202 was cancelled due to no equipment for service.

10/14/2017 4:35:00 PM - Incident# 2922472 (1 lost trip, 174 lost minutes)

Door Jammed on Car 516 7th/Metro Station

Cars 515, (516), 527, 522, 507, 508

7/Metro, AL, East

T-155, M-156

10/14/2017 7:32:00 PM - Incident# 2922490 (1 lost trip, 184 lost minutes)

Friction Brakes Not Releasing

T-418, Train 205

Cars 569, 570, (553), 554, 533, 534

7th/Metro, AR, West

10/16/2017 9:44:00 AM - Incident# 2922898 (0 lost trips, 9 lost minutes)

Train 205 developed an Emergency Brake fault at the West Interlocking.

10/17/2017 6:53:00 AM - Incident# 2923323 (0 lost trips, 8 lost minutes)

Car 538 no movement, no faults.

Train 201

T-544

North Hollywood Station AR Eastbound

Consist 541-542-589-590-537-(538)

10/18/2017 11:26:00 PM - Incident# 2924141 (3 lost trips, 453 lost minutes)

Operator T-320 reports prop failure, aux failure and no head lights leaving 7th & Metro at 23:26 hours. And no power/movement after servicing Wilshire/Vermont at 23:29 hours.

Train #214

Cars 515,516,501,502,(525),(524)

10/19/2017 8:02:00 PM - Incident# 2924522 (1 lost trip, 155 lost minutes)

Train 212 (569,570,539,540,547,548) T-176, North Hollywood, AL reports auxillary fault train line indication, no power.

10/25/2017 6:44:00 AM - Incident# 2926583 (0 lost trips, 8 lost minutes)

Operator reports door problems at N/H AR on car 528.

Train #201

T-022

Cars 517, 518, 523, (528), 509, 508

At North Hollywood.

10/28/2017 5:52:00 AM - Incident# 2927934 (1 lost trip, 174 lost minutes)

Emergency brake not releasing.

(601) 602 573 574

T-22

Train 208

Pershing Sq AR West

10/30/2017 12:30:00 AM - Incident# 2928335 (2 lost trips, 299 lost minutes)

CB1 trip car # 515
Civic Center AR West
Train # 209 T-199
Car # (515)-516-503-504-523-524

10/30/2017 7:15:00 AM - Incident# 2928444 (2 lost trips, 299 lost minutes)

Air leak in car 591.
T-288
Train 206
Cars (591),592,537,538
Wilshire/Western BR EB.

10/30/2017 1:30:00 PM - Incident# 2928636 (1 lost trip, 152 lost minutes)

Friction brakes not releasing operating out of car 540.
T-210
T-3290
Cars 537,538,539, 540
Westlake/MacArthur AL EB.

10/30/2017 6:02:00 PM - Incident# 2928732 (4 lost trips, 597 lost minutes)

Reports propulsion and Aux power failure on car 541.
T-544
Train 203
Wilshire Normandie, BR, Westbound
Cars: (541) 542 581 582

10/31/2017 6:40:00 AM - Incident# 2928899 (2 lost trips, 299 lost minutes)

Operator reported a Propulsion Fault at H/V.
T-271
Train #204
Cars 507, 510,(513), 514, 523, 528.

Wayside Incidents:

10/3/2017 9:01:00 PM - Incident# 2918282 (0 lost trips, 20 lost minutes)

MT-133 reports he is the EIC supporting the Hi Rail Vehicle relocating from Yard Limits via the AR, crossing over to the AL track at Universal City Interlocking to work location at switch 3A North Hollywood Interlocking.

10/12/2017 6:04:00 PM - Incident# 2921877 (4 lost trips, 634 lost minutes)

TRACS indicates signal overrun Union Station West Interlocking and Westlake Interlocking with all DC Breakers opening at Hollywood Highland.

10/13/2017 10:12:00 AM - Incident# 2922117 (0 lost trips, 12 lost minutes)

US 02 indicates over run with train 203 West of the signal. Ground, over run, false occupancy with blown fuse indicated in the West interlocking at Union Station,

10/13/2017 5:12:00 PM - Incident# 2922273 (2 lost trips, 307 lost minutes)

US 02 indicates over run with train 202 West of the signal. Ground, over run, false occupancy with blown fuse indicated in the West interlocking at Union Station.

10/14/2017 1:02:00 AM - Incident# 2922337 (7 lost trips, 1,228 lost minutes)

MS-144 requests access to the right of way to perform urgent switch inspection at Union West Interlocking.

10/14/2017 12:08:00 PM - Incident# 2922421 (0 lost trips, 3 lost minutes)

False occupancy with a indication of a signal over run at US 2 West Interlocking at Union Station

10/17/2017 3:11:00 PM - Incident# 2923553 (0 lost trips, 5 lost minutes)

US 02 indicates over run with train 213 West of the signal. Ground, over run, false occupancy with in the West interlocking at Union Station.

10/18/2017 8:27:00 AM - Incident# 2923816 (0 lost trips, 11 lost minutes)

US 02 indicates over run with train 205 West of the signal. Ground, over run, false occupancy with in the West interlocking at Union Station.

T-288, Train 205, recieved clearance #372
Operating cars 233-234-569-570-551-(552)
AL, East, UNION 02

10/19/2017 1:36:00 PM - Incident# 2924409 (0 lost trips, 7 lost minutes)

US 02 indicates over run with train 206 West of the signal. Ground, over run, false occupancy with in the West interlocking at Union Station.

Police & Health Incidents:

10/2/2017 5:13:00 PM - Incident# 2917813 (0 lost trips, 20 lost minutes)

Trespasser observed on the AR track between Wilshire Vermont and Westlake MacArthur Station

10/6/2017 6:37:00 AM - Incident# 2919376 (0 lost trips, 5 lost minutes)

Female patron reports unwanted touching and requests LAPD on train 209, car 564 at Vermont Beverly.

10/6/2017 7:37:00 AM - Incident# 2919407 (2 lost trips, 319 lost minutes)

Patrons report a trespasser on the AL West at North Hollywood.

10/6/2017 11:59:00 AM - Incident# 2919541 (0 lost trips, 10 lost minutes)

Patrons report a male on train 207, car 533 is unruly.

10/6/2017 2:51:00 PM - Incident# 2919630 (0 lost trips, 12 lost minutes)

Train 215 reports patron having seizure @ HW

T-271, Train 215

AR, HW, West

513-514-505-506-501-502

10/8/2017 11:31:00 AM - Incident# 2920055 (0 lost trips, 7 lost minutes)

Train 201 reports seeing an individual walking west on the AR service walkway near Cross Passage 64. Train was reverse running on the AR track to Universal City. Single track zone.

Other Incidents:

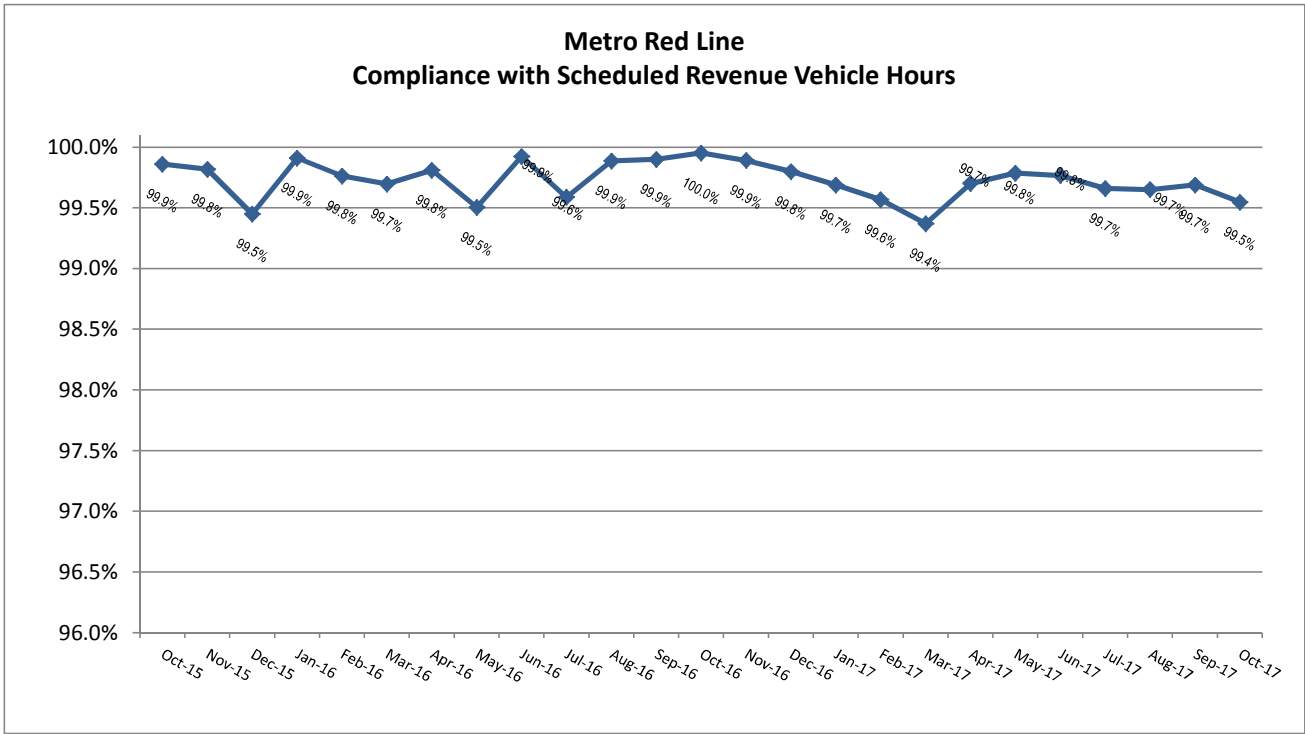
10/7/2017 12:49:00 PM - Incident# 2919850 (0 lost trips, lost minutes)

Train 201 reports fire on right of way of approach to Signal WA 06

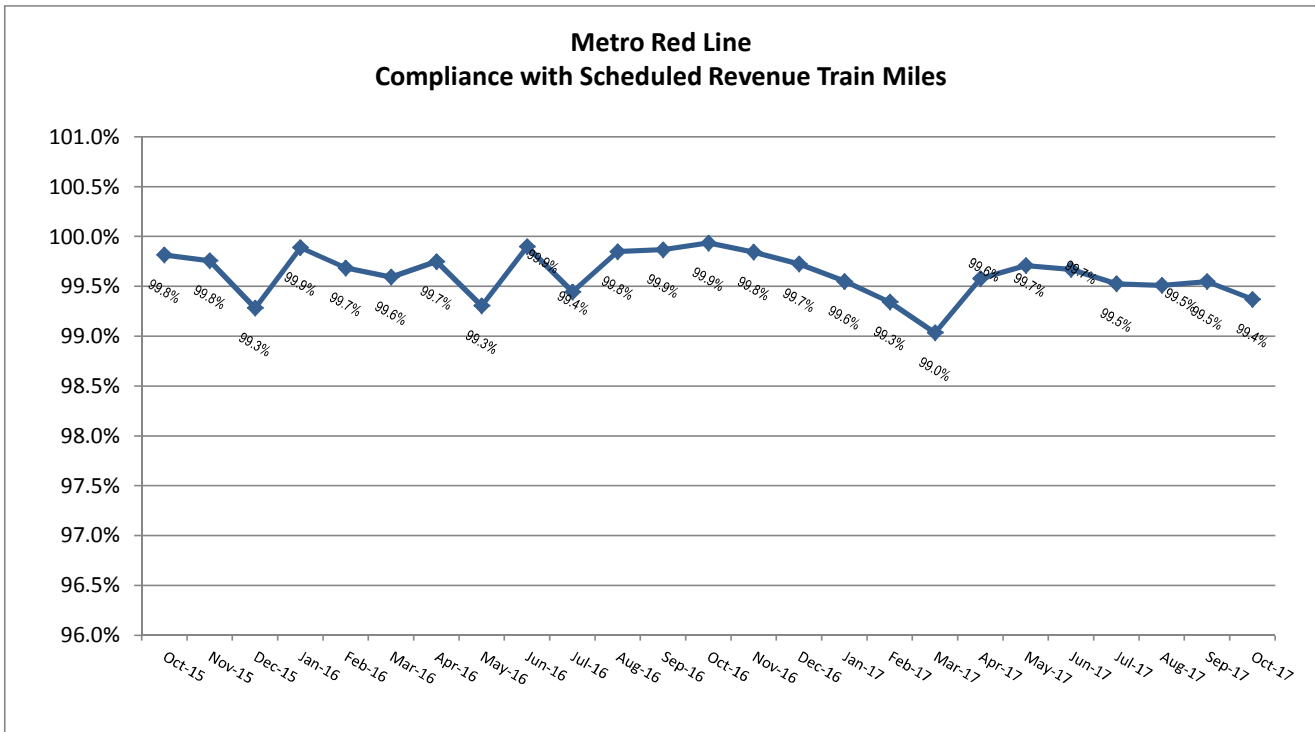
T-179

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

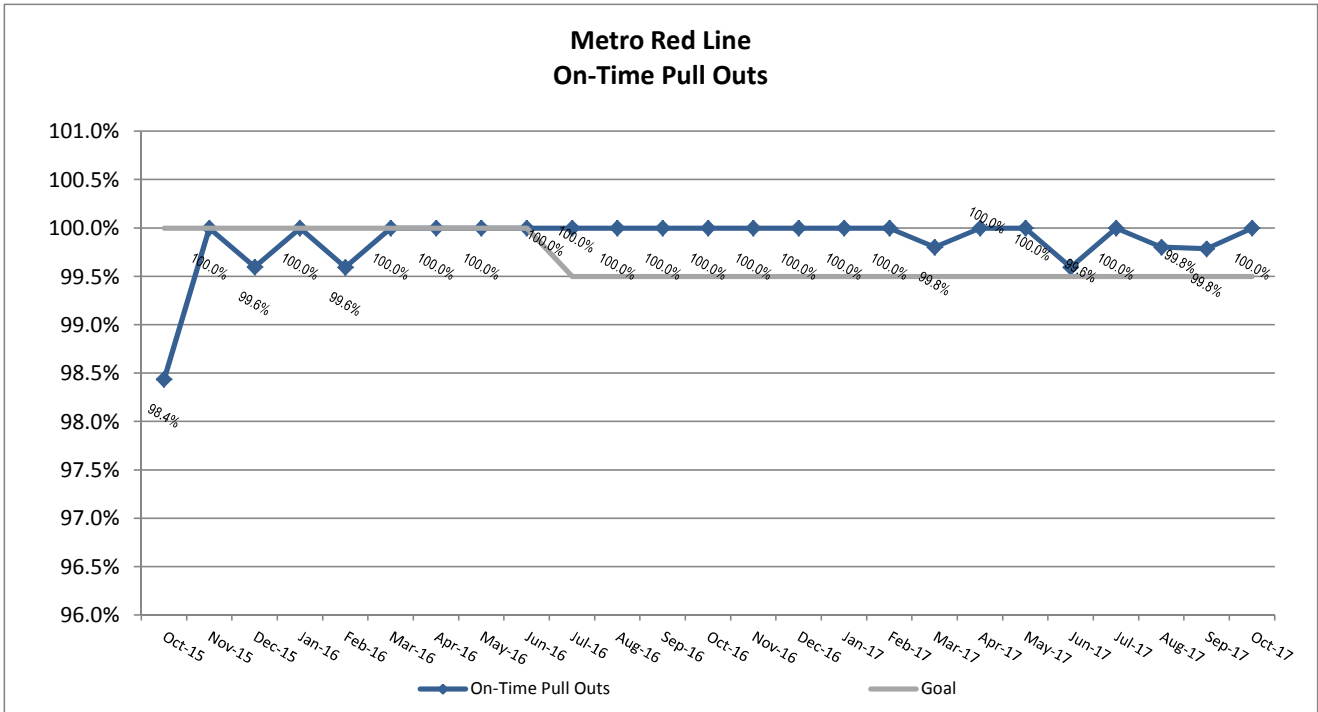
COMPLIANCE WITH SCHEDULED VEHICLE HOURS



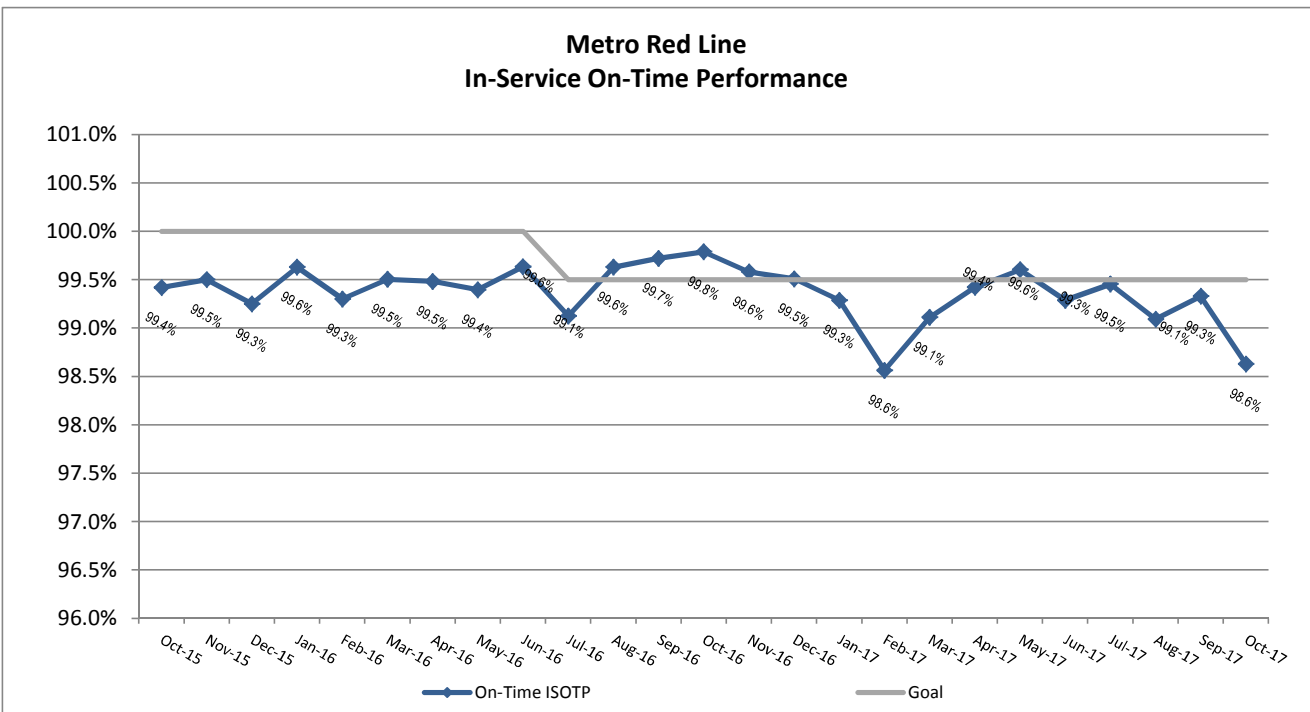
COMPLIANCE WITH SCHEDULED TRAIN MILES



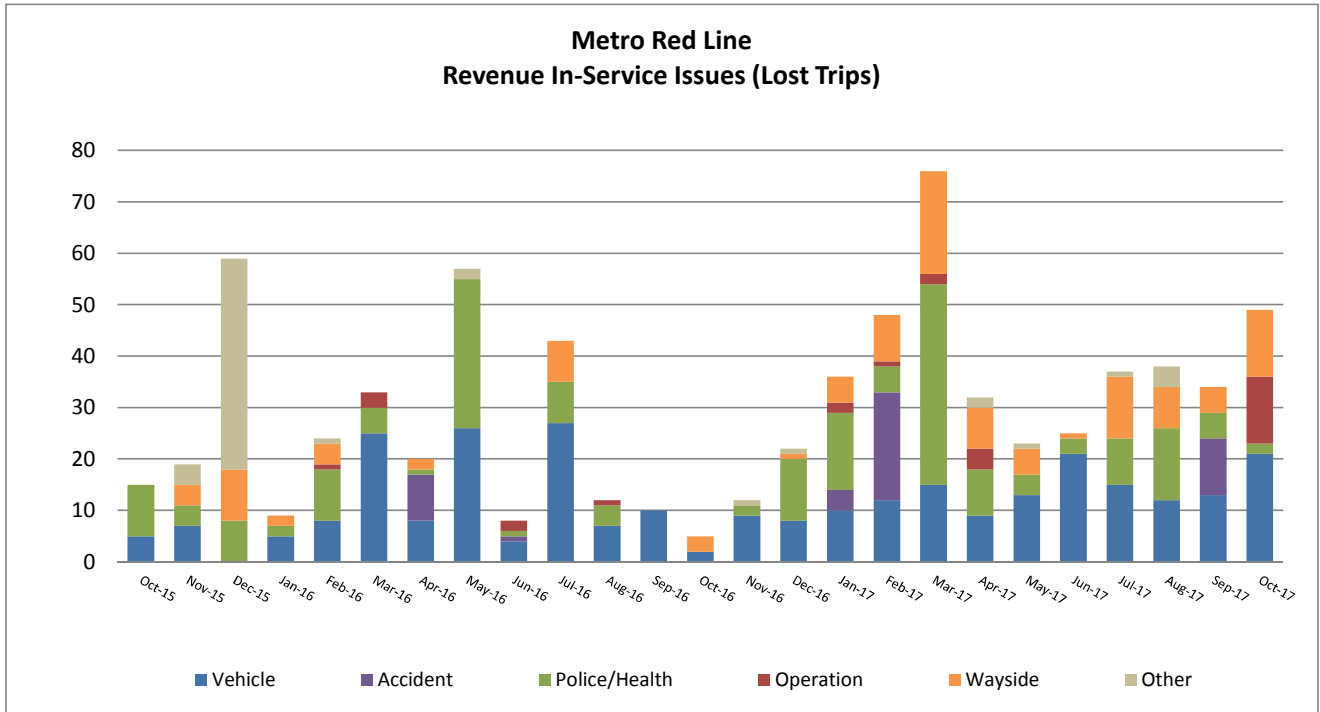
ON-TIME PULL OUTS



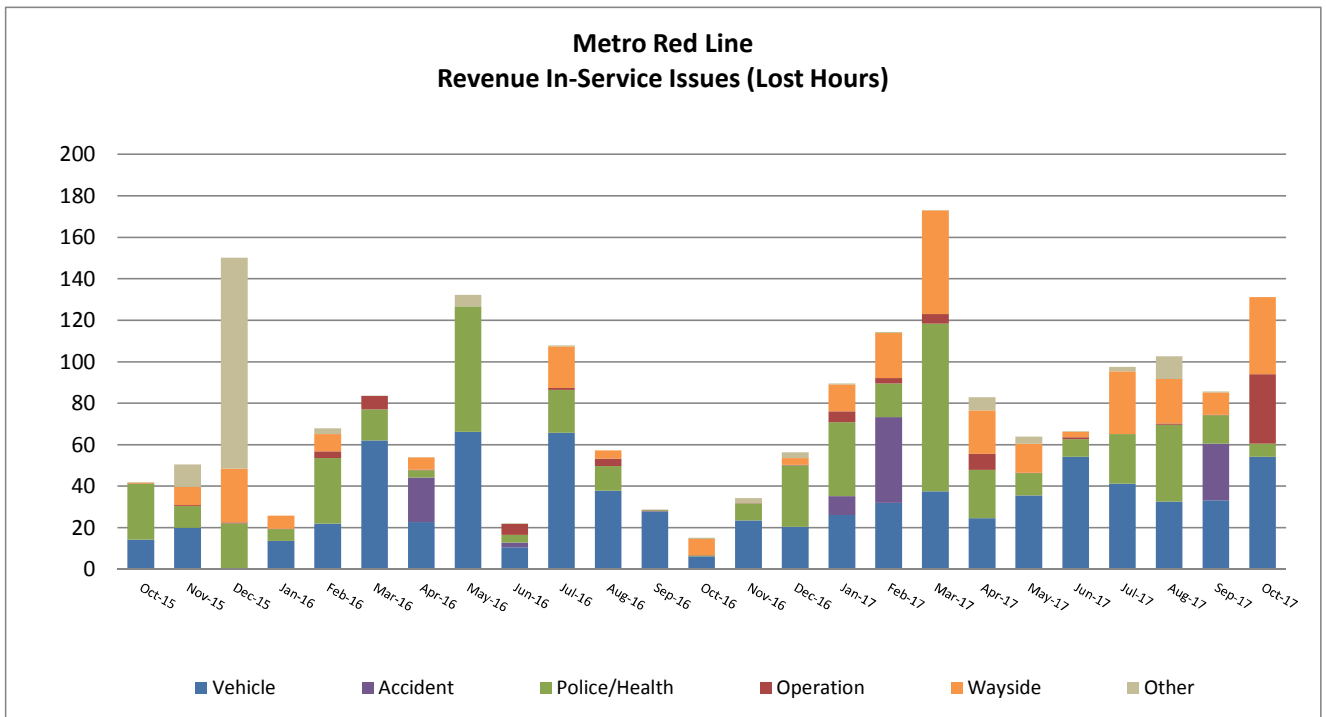
IN-SERVICE ON-TIME PERFORMANCE



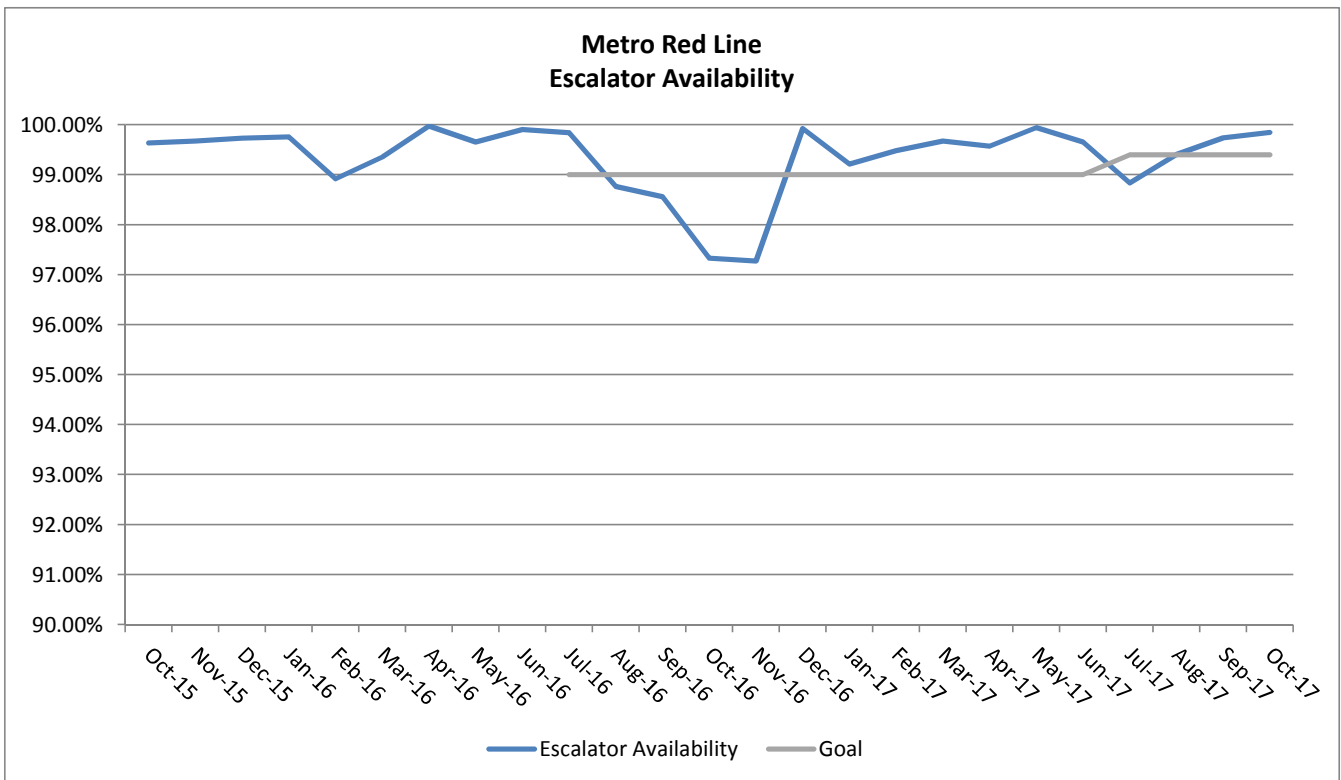
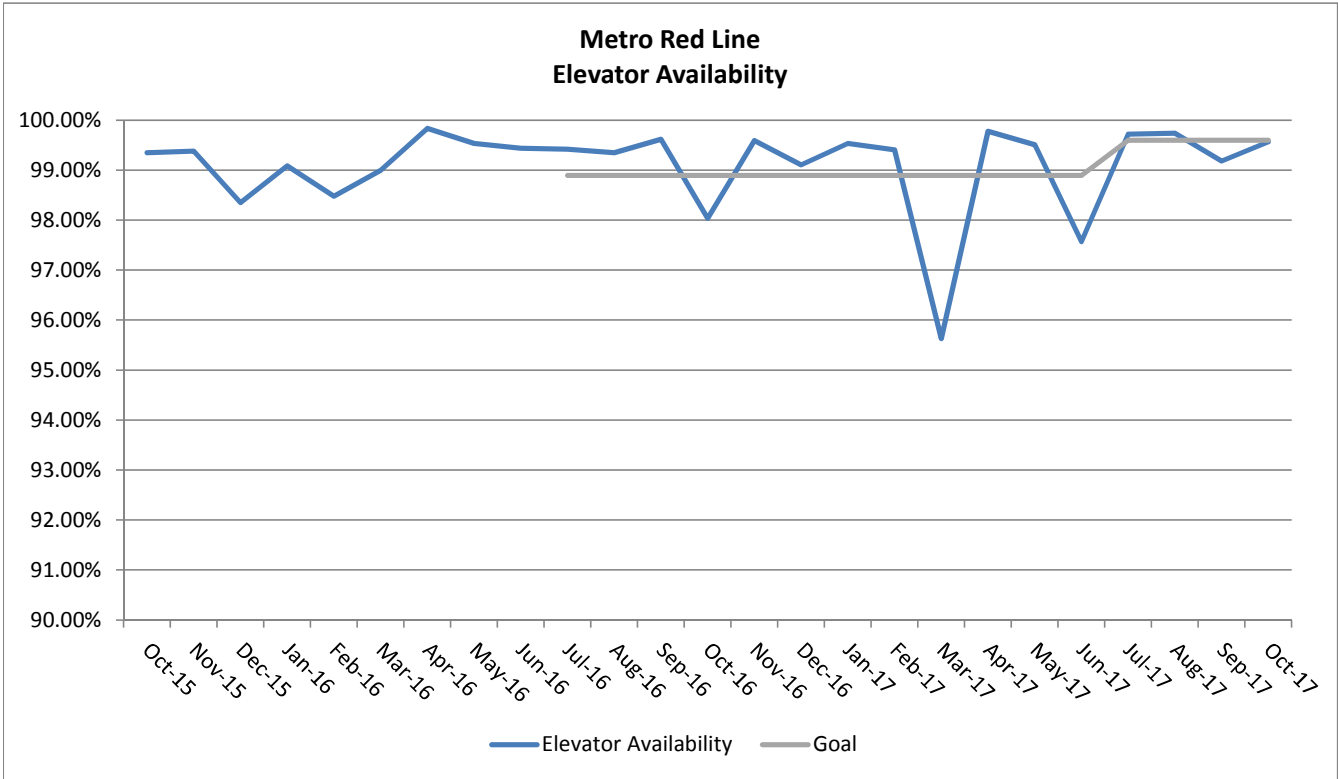
LOST TRIPS



LOST TRIPS



VERTICAL TRANSPORTATION AVAILABILITY



GREEN LINE

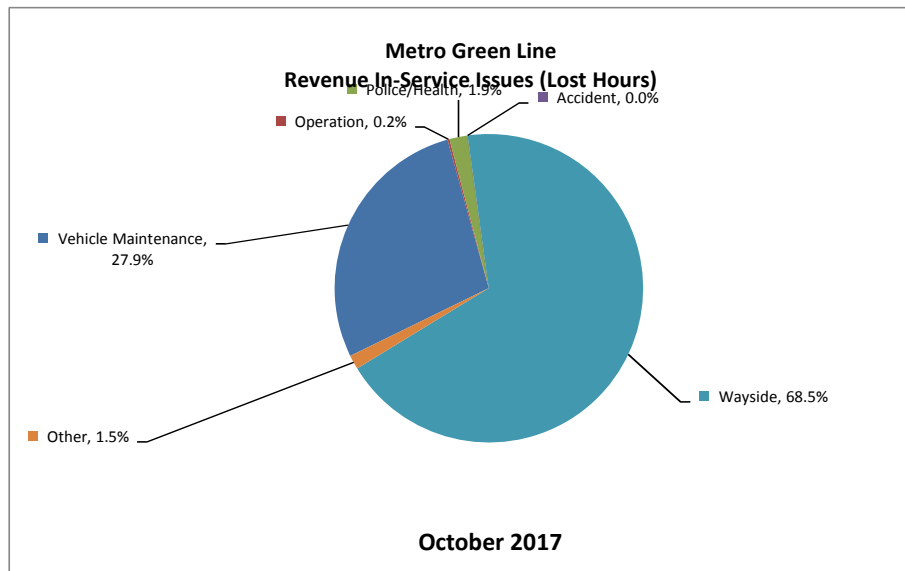
Out of a total of 8,642 hours operated, there were approximately 76 total hours of service delays.

October 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	8,565	99.1%
Cancelled + Delayed Hours	76	0.9%
Total Revenue Hours	8,642	100.0%

Summary of the incidents:	Count	Hours	Percent
Operations	2	0.2	0.2%
Accidents	0	0.0	0.0%
Vehicle Maintenance	21	21.3	27.9%
Wayside	3	52.3	68.5%
Police & Health	4	1.5	1.9%
Other	1	1.1	1.5%
Total	31	76.4	100.0%

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

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



October 2017 Green Line incidents causing delay were as follows:

Operations Incidents:

10/22/2017 5:25:00 AM - Incident# 2925217 (0 lost trips, 3 lost minutes)

Marine Station, scheduled arrival at 5:20 hours, notified ROC at 5:25 hours of 10-100 and departed at 5:30 hours incurring service delay.

10/26/2017 5:38:00 PM - Incident# 2927403 (0 lost trips, 7 lost minutes)

7 minute service delay (10-100)

Vehicle Maintenance Incidents:

10/1/2017 6:08:00 PM - Incident# 2917354 (2 lost trips, 130 lost minutes)

Auto Train Protection (Speed Limit)

Train 335

T-226

Cars (204)-212

Aviation station E/B

10/3/2017 11:00:00 AM - Incident# 2918105 (0 lost trips, 9 lost minutes)

Two set of doors not opening.

Train # 333

T-57

Marine Station, track #1, westbound

216 (226)

10/4/2017 2:30:00 AM - Incident# 2918320 (0 lost trips, 10 lost minutes)

Train 337, LRV's 219-223.

Yard Interface, westbound pull-out.

Friction brakes locked.

10/5/2017 5:00:00 AM - Incident# 2918760 (0 lost trips, 10 lost minutes)

Propulsion Fault

Train 332

(209)-214

Harbor Station Trk 2

10/6/2017 1:47:00 PM - Incident# 2919599 (0 lost trips, 10 lost minutes)

Train 335 Car 209B doors failed to open.

10/10/2017 5:27:00 AM - Incident# 2920673 (0 lost trips, 8 lost minutes)

Propulsion failure car # 216

Train # 333 T-40

Mariposa Track 1

Car # (216)-221

10/10/2017 5:54:00 AM - Incident# 2920714 (0 lost trips, 13 lost minutes)

Propulsion failure car # 222

Train 336 T-40

Crenshaw Station Platform

Car # 212-(222)

10/11/2017 11:10:00 AM - Incident# 2921291 (1 lost trip, 78 lost minutes)

Unable to enter cab door of car (222A).

Train # 333

T-57

Maine, platform

(222A) 216

10/13/2017 12:46:00 PM - Incident# 2922161 (1 lost trip, 105 lost minutes)

Operator reports of a friction brake problem

Train 333

T-057

(205A)212

Yard interface, Trk. 1, westbound

10/16/2017 3:08:00 AM - Incident# 2922745 (0 lost trips, 13 lost minutes)

Operator T-177 reports propulsion fault with speed restriction.

Train 331

T-177

Cars 201-214

El Segundo Interlocking, Eastbound, Track 1

10/16/2017 4:05:00 AM - Incident# 2922747 (0 lost trips, 19 lost minutes)

Friction Brake Fault.
Train 338
T-496
Cars 216-221
YDI 12, Westbound.

10/20/2017 5:12:00 PM - Incident# 2924834 (1 lost trip, 70 lost minutes)

Train 334 Car 209 has a loss of air pressure.

10/23/2017 1:36:00 PM - Incident# 2925703 (3 lost trips, 217 lost minutes)

Operator reports of a friction brake problem with no movement.
Train 333
T-209
(217-209)
Crenshaw station, Trk. 2, eastbound

10/23/2017 4:20:00 PM - Incident# 2925830 (0 lost trips, 15 lost minutes)

Operator reports of loss of cab signal

Train 343
T-497
(214)219
Wilmington station, Trk. 2, eastbound

10/24/2017 3:03:00 PM - Incident# 2926340 (2 lost trips, 142 lost minutes)

Train # 345 pulled out of Division 22 yard, experienced a Friction brake fault blocking tracks #1 and #2 at Yard Interface.
Train # 345
T-396
Yard Limits to Douglas Station, track #2
(222) 223

10/24/2017 5:34:00 PM - Incident# 2926414 (1 lost trip, 73 lost minutes)

Friction Brakes self applied on car (209) no movement.
Train # 335
T-78
11.3, track #1, westbound
(209) 216

10/25/2017 2:40:00 PM - Incident# 2926875 (3 lost trips, 198 lost minutes)

Recurring propulsion faults on car (214).
T-297
Train 336
206-214
EB- Avalon-track 2

10/26/2017 5:51:00 AM - Incident# 2927076 (0 lost trips, lost minutes)

Other Vehicle System
Train 333
T-255
(212)-227
Marine Station Platform 1 E/B
+5 Min Service delay

10/26/2017 7:47:00 PM - Incident# 2927420 (0 lost trips, 4 lost minutes)

Propulsion faults with speed restriction.
Train 344
Track 1, W/B
Harbor Station
T-247
(215A)-201
ATO and Manual modes

10/27/2017 6:32:00 AM - Incident# 2927559 (1 lost trip, 72 lost minutes)

Train 341 Prop Fault W/ speed restriction

10/30/2017 3:15:00 PM - Incident# 2928681 (1 lost trip, 74 lost minutes)

Operator reports of no cab signal
Train 343
T-260
(225)216
Norwalk station, Trk. 1, westbound

10/31/2017 9:50:00 PM - Incident# 2929204 (0 lost trips, 7 lost minutes)

Propulsion Fault
Consist (209A)-224
Train 346
T-348
Norwalk track 1 westbound

Wayside Incidents:

10/8/2017 12:49:00 PM - Incident# 2920074 (1 lost trip, 85 lost minutes)

DC Breakers open.
B14- Santa Fe, B12- Long Beach TPSS.
OCS Damage Long Beach Track #1, up to approx. 500 ft east of platform.

10/9/2017 9:48:00 AM - Incident# 2920359 (43 lost trips, 2,924 lost minutes)

OCS Repair between Long Beach Station track #1 and Paramount 8.

10/23/2017 3:32:00 PM - Incident# 2925786 (2 lost trips, 132 lost minutes)

CTC SYSTEM indicates a possible loss of power at the Wilmington East, Track 1 & 2

Police & Health Incidents:

10/3/2017 1:09:00 PM - Incident# 2918123 (1 lost trip, 68 lost minutes)

Report female slipped and fell on car (209) injuring her head.
Train # 332
T-396
Lakewood, track #1, westbound
214 (209)

10/17/2017 5:20:00 PM - Incident# 2923614 (0 lost trips, 3 lost minutes)

Report of a disturbance on board train # 336 at Hawthorne Station. Train proceeded to Crenshaw and held.
Train # 336
T-71
Hawthorne, track #2, eastbound
225 (218B)

10/24/2017 2:38:00 PM - Incident# 2926317 (0 lost trips, 12 lost minutes)

Train # 332 held at Norwalk due to a male harassing a female patron.
Train # 332
T-113
Norwalk terminal, platform #1.
(201 221)

10/27/2017 9:05:00 PM - Incident# 2927868 (0 lost trips, 5 lost minutes)

A Witness reported to the Train Operator that a Black Male with a black shirt black short with a reflector vest assaulted an individual on street level at Marine.
T-394
Train 343
216-222
Marine Station Track #2 Southbound.

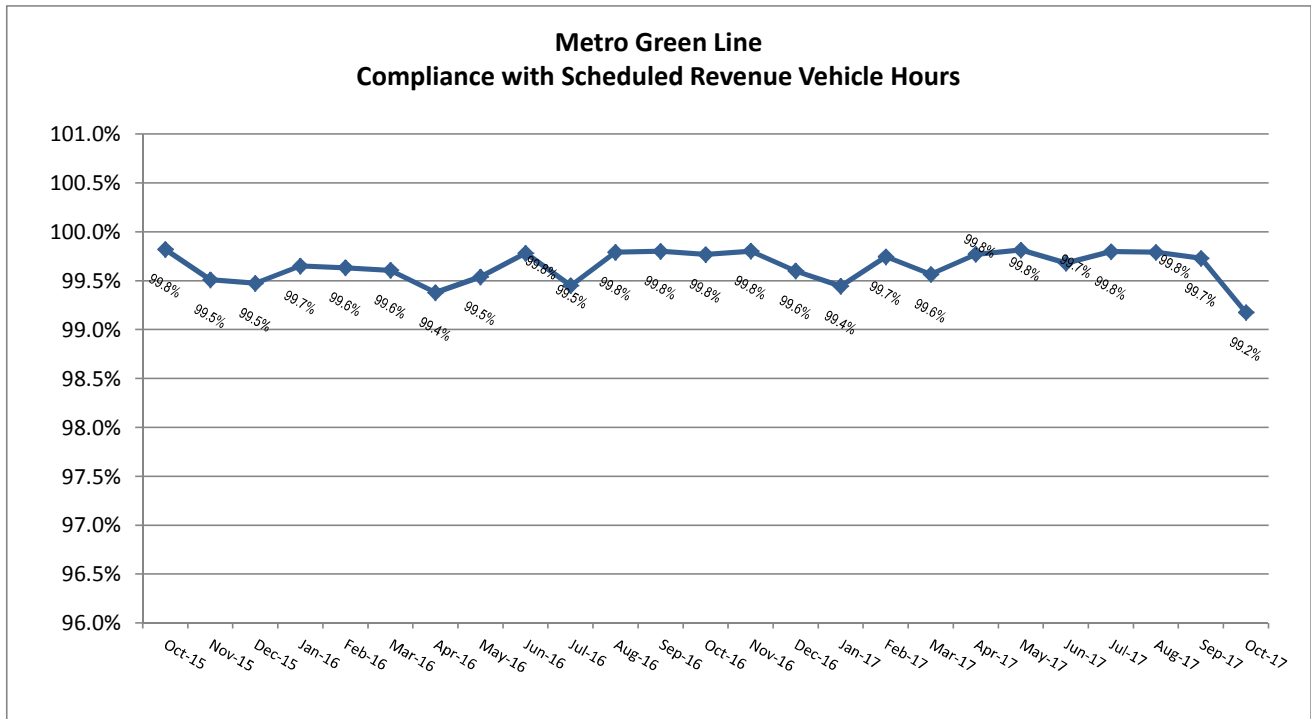
Other Incidents:

10/23/2017 12:19:00 PM - Incident# 2925656 (1 lost trip, 69 lost minutes)

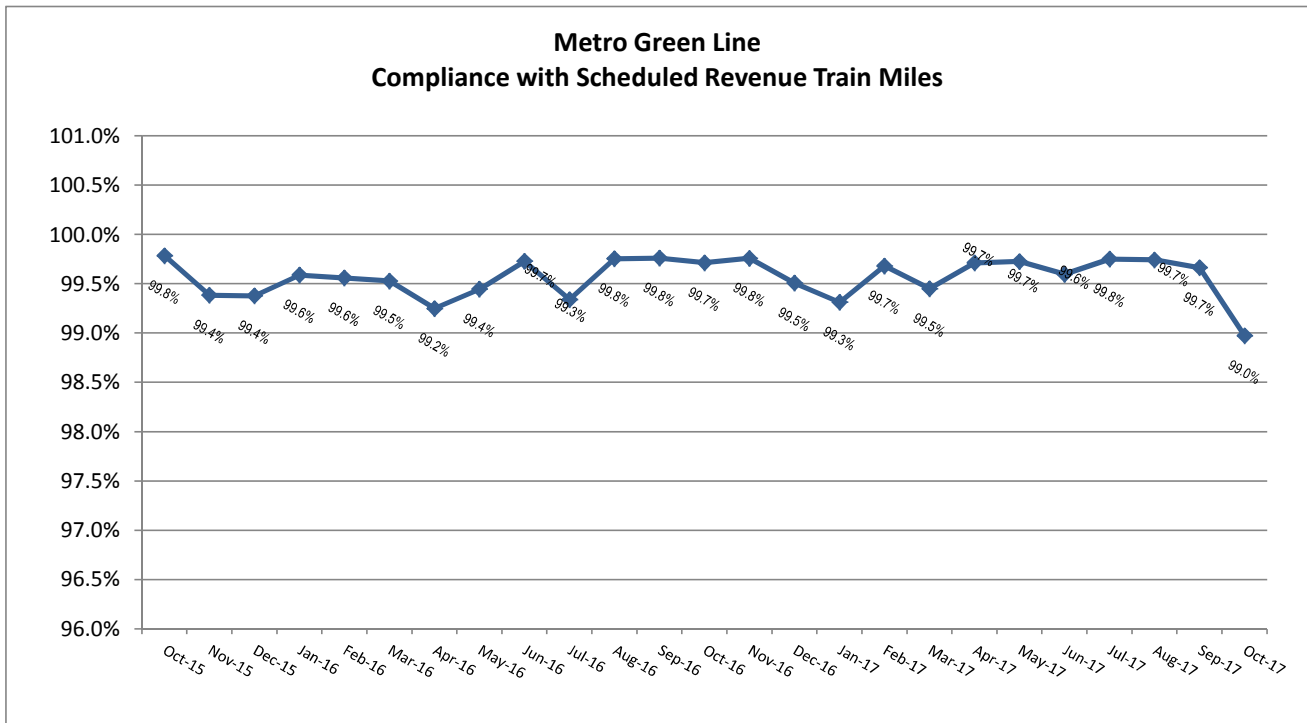
Operator reports of feeling light headed
Train 332
T-458
(217)209
Crenshaw station, Trk. 2, westbound

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

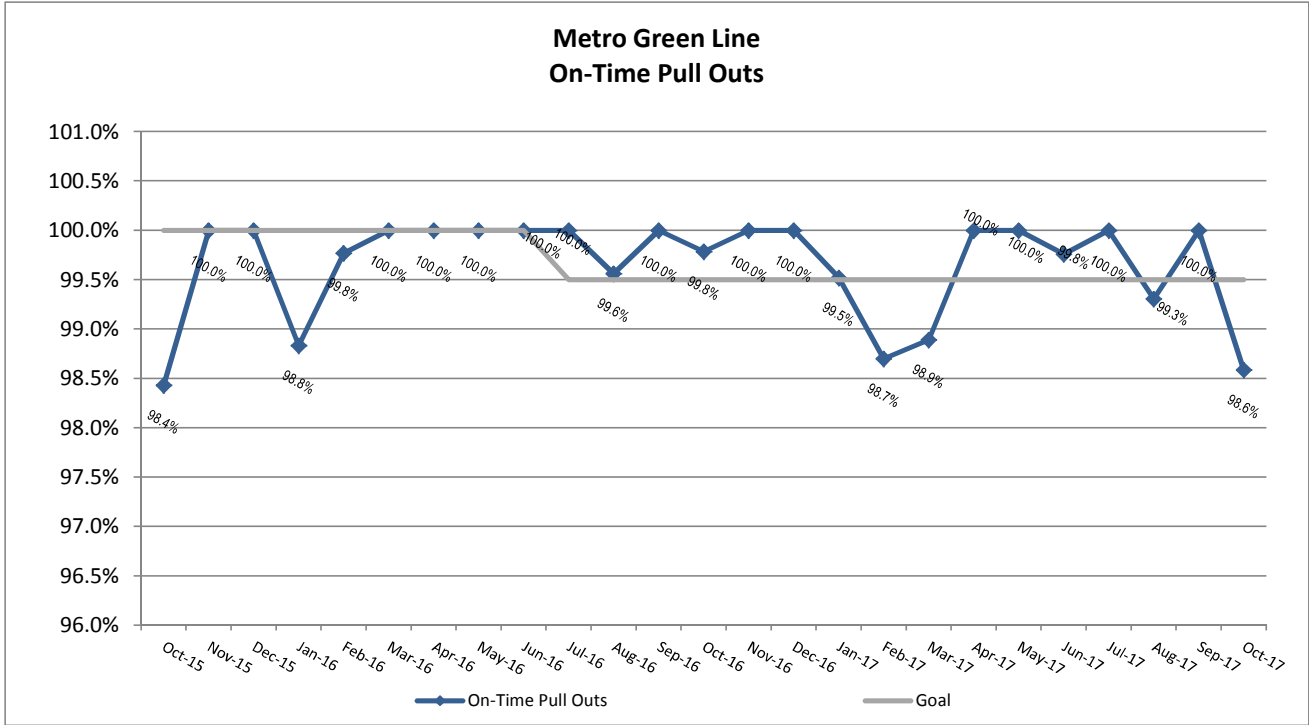
COMPLIANCE WITH SCHEDULED VEHICLE HOURS



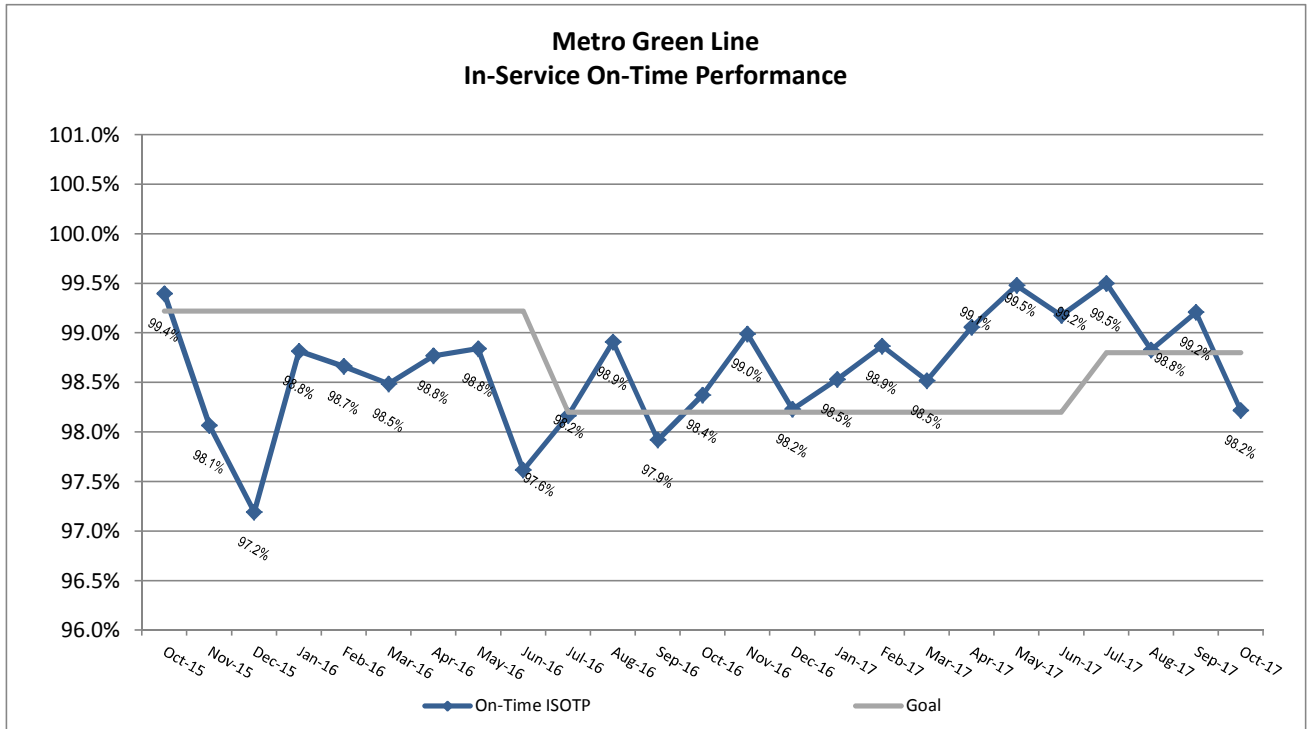
COMPLIANCE WITH SCHEDULED TRAIN MILES



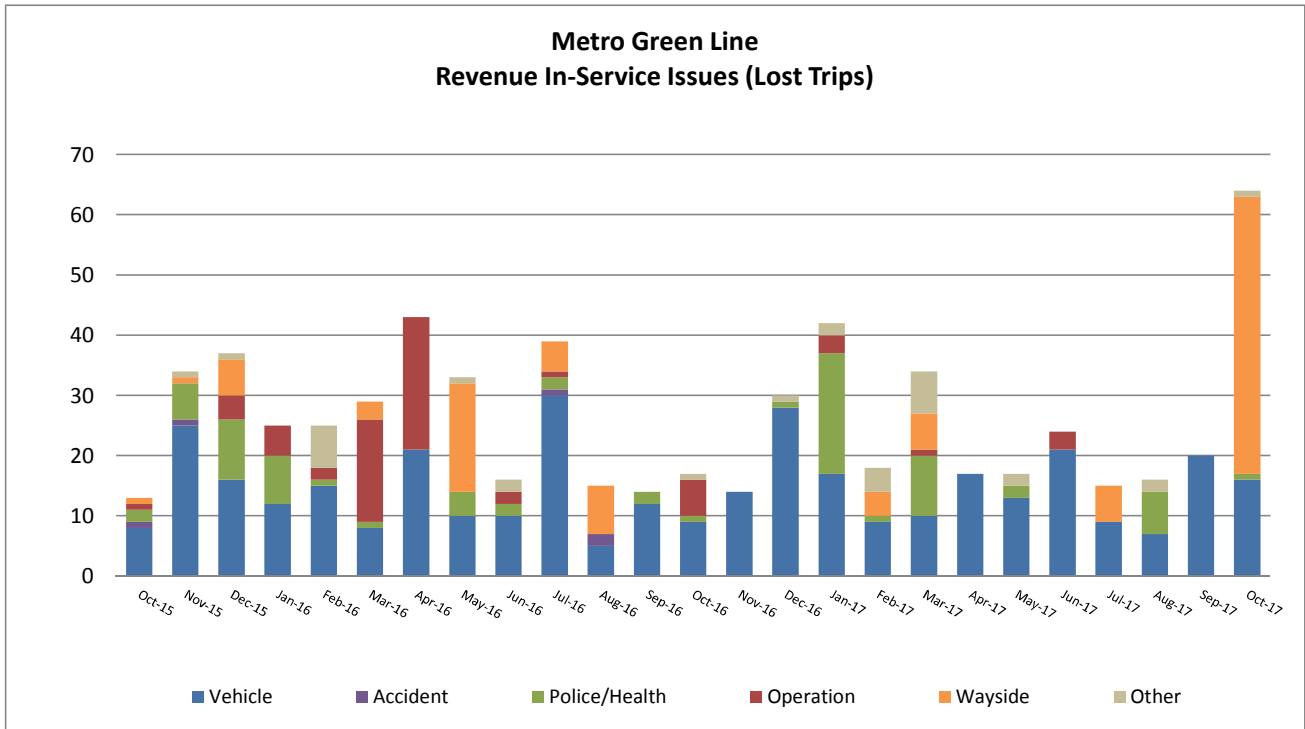
ON-TIME PULL OUTS



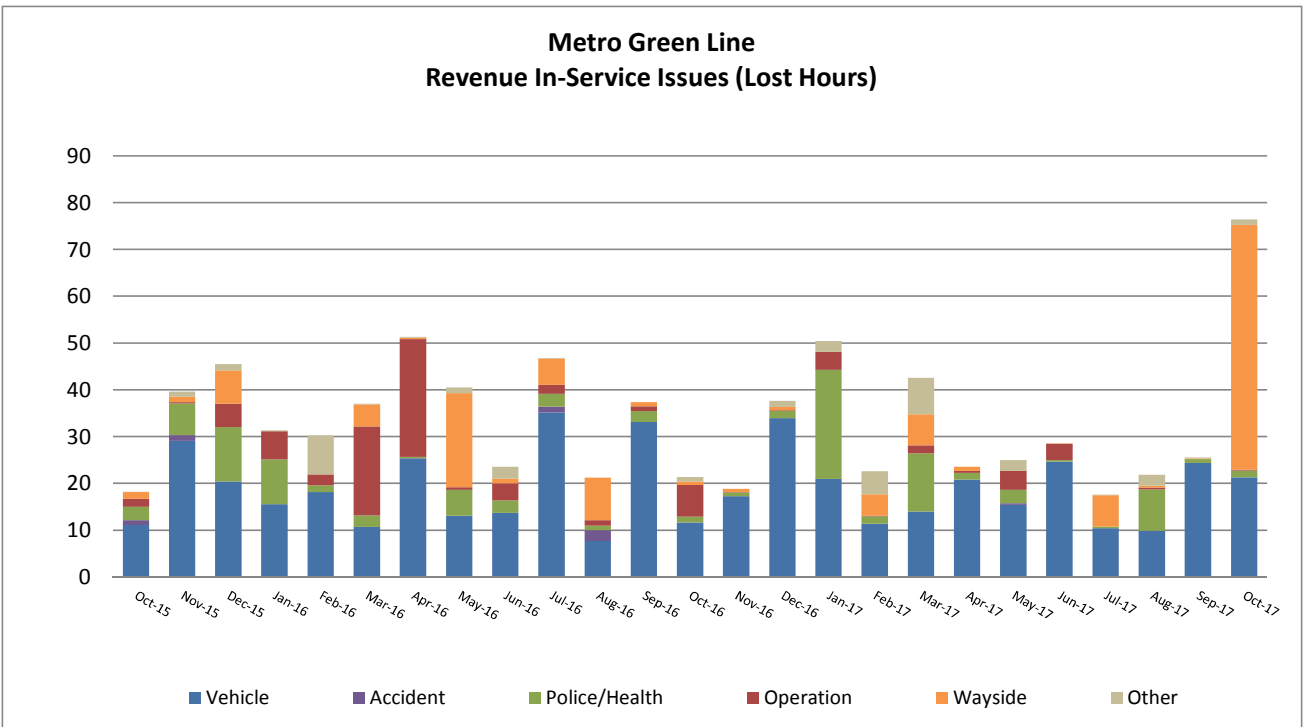
IN-SERVICE ON-TIME PERFORMANCE



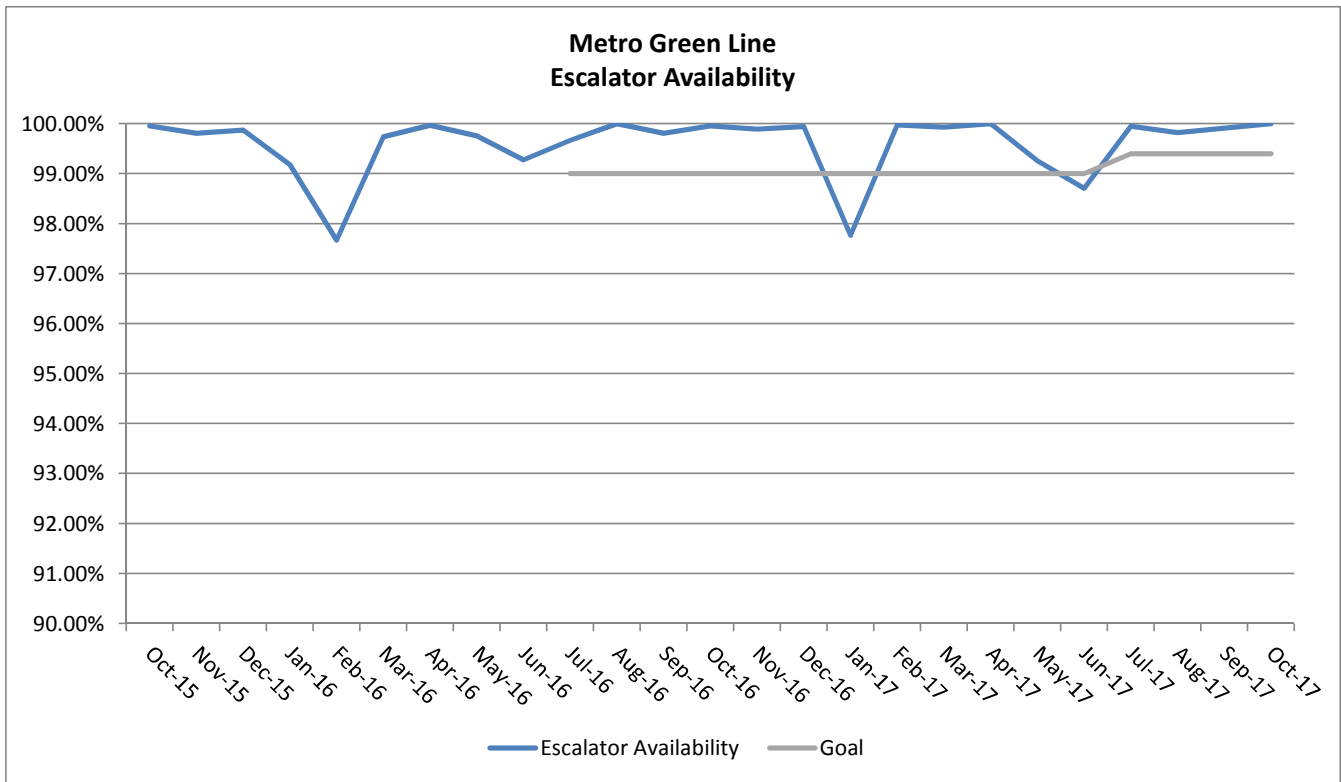
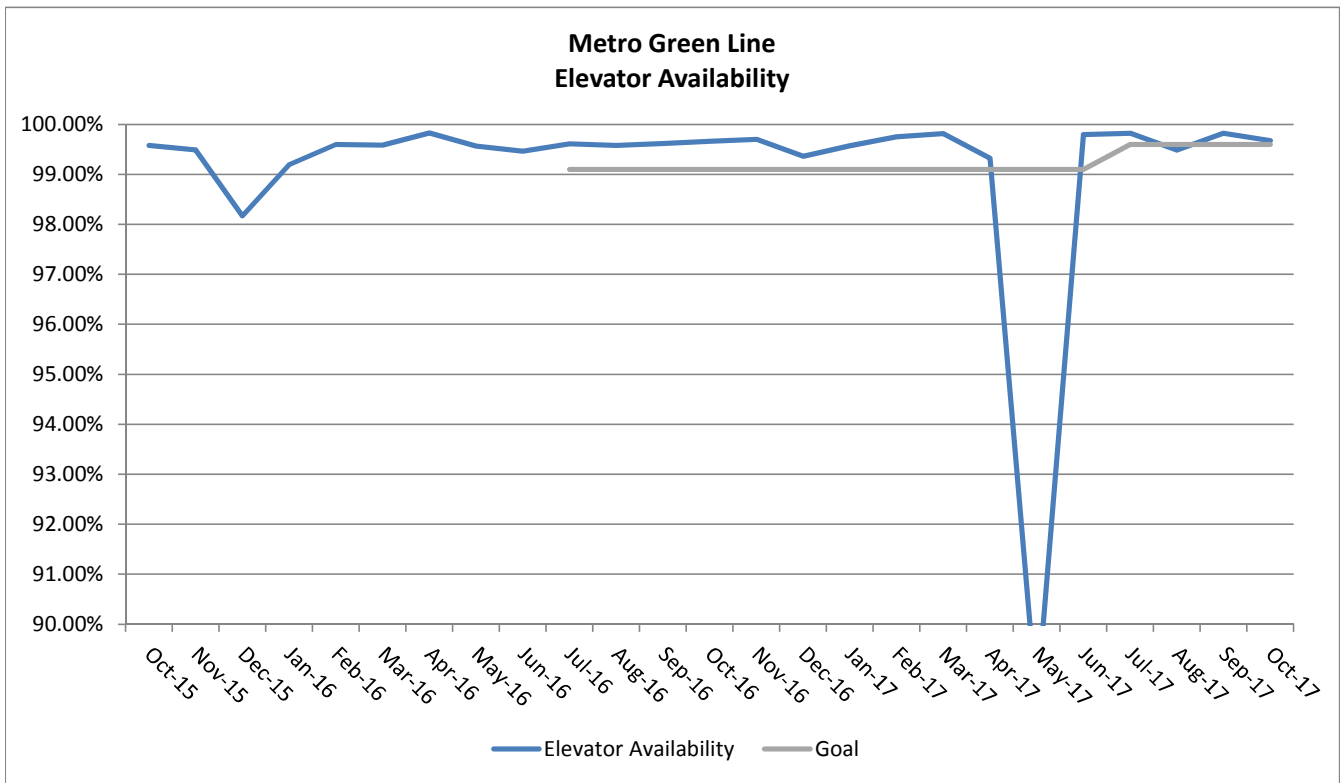
LOST TRIPS



LOST HOURS



VERTICAL TRANSPORTATION AVAILABILITY



GOLD LINE

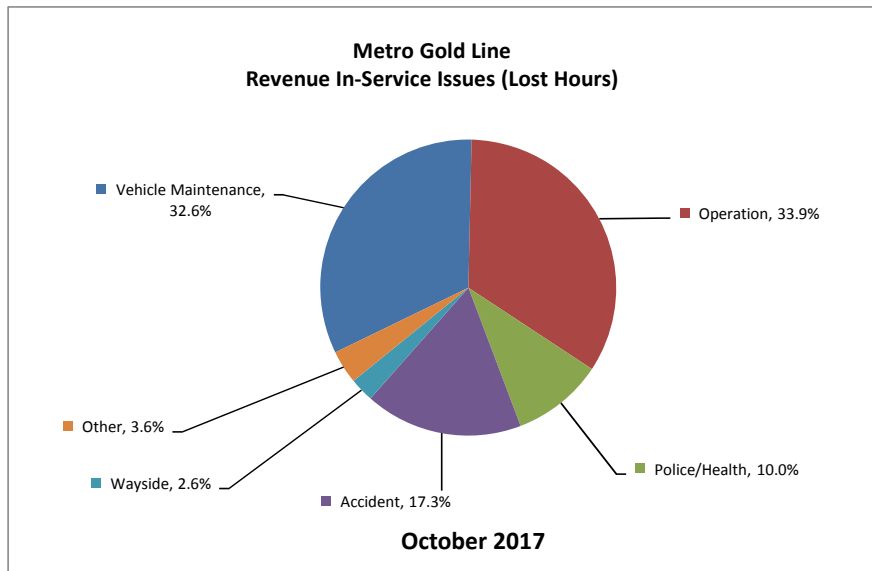
Out of a total of 21,016 hours operated, there were approximately 342 total hours of service delays.

October 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	20,674	98.4%
Cancelled + Delayed Hours	342	1.6%
Total Revenue Hours	21,016	100.0%

Summary of the incidents:	Count	Hours	Percent
Operations	2	115.8	33.9%
Accidents	2	59.0	17.3%
Vehicle Maintenance	25	111.4	32.6%
Wayside	4	9.0	2.6%
Police & Health	10	34.1	10.0%
Other	2	12.4	3.6%
Total	45	341.7	100.0%

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

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



October 2017 Gold Line incidents causing delay were as follows:

Operations Incidents:

10/21/2017 11:11:00 PM - Incident# 2925194 (31 lost trips, 6,944 lost minutes)

LAPD 944 Advised Control to Bypass Heritage Square Due to Police Activity

10/29/2017 1:13:00 PM - Incident# 2928249 (0 lost trips, 1 lost minute)

Test Train for reverse running between APU Citrus and Irwindale interlocking per MS-014 for gates.

Accidents:

10/1/2017 7:31:00 AM - Incident# 2917260 (6 lost trips, 1,904 lost minutes)

Operator reports 10-72

Train 404.

T-119

Cars: (732B)-716-715

Southbound, Track 2 Pasadena/Monterey.

10/8/2017 5:35:00 AM - Incident# 2919994 (5 lost trips, 1,637 lost minutes)

Vehicle stuck on the ROW at Ave 33.

T-018

Train-403

Consist (737A)718-715

Ave #33 Grade Crossing.

Vehicle Maintenance Incidents:

10/3/2017 6:26:00 AM - Incident# 2917950 (1 lost trip, 273 lost minutes)

Reports of friction brake fault with a speed restriction of 3 mph

T-216

(730)-750

South Pasadena Station, Track #2, SB

10/3/2017 4:23:00 PM - Incident# 2918231 (1 lost trip, 255 lost minutes)

Propulsion / Dynamic Brakes, Cars #724-(727a)

Train #432

T-273

Allen Station, Track #001, Northbound

10/4/2017 4:33:00 AM - Incident# 2918339 (1 lost trip, 247 lost minutes)

Reports of ATP failure

Train#403

T-17

(741A)-721

Monrovia Interlocking 12N, Track #1, NB

10/6/2017 2:04:00 PM - Incident# 2919601 (0 lost trips, 7 lost minutes)

Propulsion / Dynamic Brakes LRV 718

T-228

Train 421

LRV 718 737 741

Arcadia Station, Southbound, Track 2.

10/9/2017 7:22:00 AM - Incident# 2920273 (4 lost trips, 989 lost minutes)

Reports of no movement

Train # 418

T-146

(1008)-1007-1006

Soto Station, Track #2, SB

10/10/2017 3:32:00 AM - Incident# 2920659 (0 lost trips, 7 lost minutes)

Reports of HSCB trip with friction brake fault

Train # 412

T-499

(736A)-726

Duarte Station, Track #1, NB

10/10/2017 7:32:00 AM - Incident# 2920753 (0 lost trips, lost minutes)

Reports door problem.

Train #401

T-60

(1058A)-1005

Little Tokyo Station, Track #1, NB

10/10/2017 8:05:00 AM - Incident# 2920759 (2 lost trips, 491 lost minutes)

Propulsion / Dynamic Brakes, (726A)-722

Train #414

T-008

Irwindale Station, Track #002, Southbound.

10/10/2017 9:59:00 AM - Incident# 2920811 (1 lost trip, 251 lost minutes)

Open door indication, no movement, cars #706-709

Train #451

T-088

Downtown Azusa, Track #002, Southbound.

10/10/2017 12:53:00 PM - Incident# 2920885 (0 lost trips, 12 lost minutes)

Propulsion / Dynamic Brakes, cars #744-718

Train #453

T-305

East LA Civic Center, Track #001, Northbound.

10/11/2017 8:50:00 AM - Incident# 2921232 (0 lost trips, 8 lost minutes)

Friction Brakes/ATP Failure

T-008

Train 414

LRV (739),736,722

Southern of Indiana Station

Track 1, Southbound

10/12/2017 6:20:00 PM - Incident# 2921869 (1 lost trip, 246 lost minutes)

T-317 reports emergency lighting and speed code of 35 on train 432, cars 1005, 1058, 1059, Lincoln Cypress, Track 2, Southbound.

10/16/2017 5:06:00 AM - Incident# 2922760 (1 lost trip, 244 lost minutes)

Reports of HSCB fault

Train # 417

T-158

724-(743)-730

Duarte Station, Track #1, NB

10/16/2017 11:47:00 AM - Incident# 2922970 (0 lost trips, 10 lost minutes)

Operator reports of a propulsion fault

Train 453

T-540

(716B)704

APU Citrus, Trk. 2, southbound

10/18/2017 5:31:00 AM - Incident# 2923748 (1 lost trip, 253 lost minutes)

Reports of LVPS fault with no movement

Train#454

T-499

708-(711)

Downey Dip, Track #1, NB

10/18/2017 10:39:00 AM - Incident# 2923879 (0 lost trips, 6 lost minutes)

Propulsion / Dynamic Brakes with a speed restriction.

Train 406

T159

LRV (720A),722

Arcadia Station, Track 2

Southbound.

10/18/2017 3:23:00 PM - Incident# 2923982 (2 lost trips, 488 lost minutes)

Propulsion fault 724(749)723.

Chinatown Station

Train #403, T-304, track #2, southbound.

10/19/2017 12:17:00 PM - Incident# 2924396 (1 lost trip, 244 lost minutes)

Propulsion / Dynamic Brakes speed restriction

Train 408

T-163

LRV (720),722

East Portal, Track 1

Northbound

10/23/2017 5:06:00 AM - Incident# 2925441 (1 lost trip, 244 lost minutes)

Reports of LVPS fault

Train #453

T-88

(711)-706

Indiana Station, Track #1, NB

10/23/2017 3:20:00 PM - Incident# 2925783 (1 lost trip, 244 lost minutes)

T-160 reports on ATP failure on train 401 (cars 724,726) on lead car 726 at Atlantic Station, Platform 2, Northbound.

10/23/2017 6:27:00 PM - Incident# 2925883 (1 lost trip, 244 lost minutes)

HSCB fault in car 722.

Train 424

Consist 749-715-722

T-106

Atlantic Interlocking northbound

10/26/2017 7:25:00 PM - Incident# 2927413 (1 lost trip, 246 lost minutes)

Communication Issue on car 733

Train 428

T-470

Cars 741, (733), 718

SB, Track 2, Monrovia Station

10/27/2017 4:52:00 AM - Incident# 2927513 (5 lost trips, 1,218 lost minutes)

Broken master controller

Reports no movement

Train #404

T-8

(721B)-734

NB, Irwindale Station Track 1

10/28/2017 2:45:00 PM - Incident# 2928058 (1 lost trip, 224 lost minutes)

Propulsion faults

Train 406

car 748B

Little Tokyo Station

Northbound

10/28/2017 4:34:00 PM - Incident# 2928068 (0 lost trips, 6 lost minutes)

ATP Failure

Train 407

Car 1015

T-304

Southbound

Duarte Station

10/28/2017 6:17:00 PM - Incident# 2928087 (1 lost trip, 224 lost minutes)

Propulsion Faults

Train 431

T-540

Allen Station

Southbound

Wayside Incidents:

10/1/2017 1:31:00 AM - Incident# 2917234 (0 lost trips, 15 lost minutes)

Work permit E-5 activated for Traction Power personnel to inspect the Overhead Catenary System and perform preventive maintenance on the weights and pulley assemblies.

TP-189.

TP-198.

10/3/2017 11:00:00 PM - Incident# 2918295 (2 lost trips, 495 lost minutes)
Switch 3 at Allen interlocking goes out of correspondence when attempt is made to normal it.

10/23/2017 10:38:00 PM - Incident# 2925922 (0 lost trips, 12 lost minutes)

Sunol B15 tripped and wouldn't reclose, trapping Train 421 on Track 2 southbound. At the time of incident Lorena B13 was racked out and MOS 166 was open; this power-down was for City of LA work at First & Indiana.

10/24/2017 10:05:00 AM - Incident# 2926154 (0 lost trips, 20 lost minutes)

Crossing Gate arm case was reported smoking at San Gabriel Ave in the city of Azusa by T-421, Train 416, cars 727-740-739, San Gabriel Ave Grade Crossing, Track 1, Northbound.

Police & Health Incidents:

10/5/2017 1:23:00 AM - Incident# 2918745 (5 lost trips, 1,237 lost minutes)

LASD Deputy Pristine notified control possible stabbing suspect on board train 401 (cars #1008-1056) southbound from Fillmore Station. Train will need to be held at Highland Park Station.

10/5/2017 5:10:00 PM - Incident# 2919187 (0 lost trips, 10 lost minutes)

Police activity south of Indiana Station

10/6/2017 7:42:00 AM - Incident# 2919405 (0 lost trips, 7 lost minutes)

Reports of traffic accident at Eastern and 3rd blocking track 1

Train #453

T-159

709-706

Eastern and 3rd, Track #1, NB

10/17/2017 6:58:00 AM - Incident# 2923326 (2 lost trips, 503 lost minutes)

Reports of individual falling onto the right of way

Train #452

T-270

709-703

Highland Park Station, Track #2, SB

10/19/2017 5:53:00 PM - Incident# 2924505 (0 lost trips, 10 lost minutes)

Sick Individual

Train 406

T-502

Cars (741), 718

NB, Track1, Arcadia Station

10/22/2017 12:31:00 AM - Incident# 2925199 (1 lost trip, 244 lost minutes)

Blockade at Eastern Ave on track 1/2

Train 407

T-263

SB, Track 2, Eastern Ave

Cars 737- 736

10/26/2017 7:27:00 AM - Incident# 2927720 (0 lost trips, lost minutes)

Sick Individual at Union Station

10/27/2017 6:57:00 PM - Incident# 2927857 (0 lost trips, 8 lost minutes)

TA MTA not involved at Civic Center Station with medical personnel blocking both tracks.

10/27/2017 11:15:00 PM - Incident# 2927889 (0 lost trips, 8 lost minutes)

Patron fell from the seat while sleeping on board the train.

Train 421

T-283

Cars 741, (733b), 735

NB, Track 1, Fillmore Station

10/28/2017 5:05:00 AM - Incident# 2927917 (0 lost trips, 12 lost minutes)

Train 406, LRV (1006B) and 1012.

APU Citrus Station, Platform 1 south.

Urine and alcohol on seats.

10/30/2017 8:57:00 PM - Incident# 2928770 (0 lost trips, 8 lost minutes)

South Pasadena Police is holding the train from proceeding, train consist is off the platform. Consist 704/743.
South Pasadena Station
Train #451, T-163, track #2, southbound.

Other Incidents:

10/16/2017 5:56:00 AM - Incident# 2922803 (1 lost trip, 244 lost minutes)

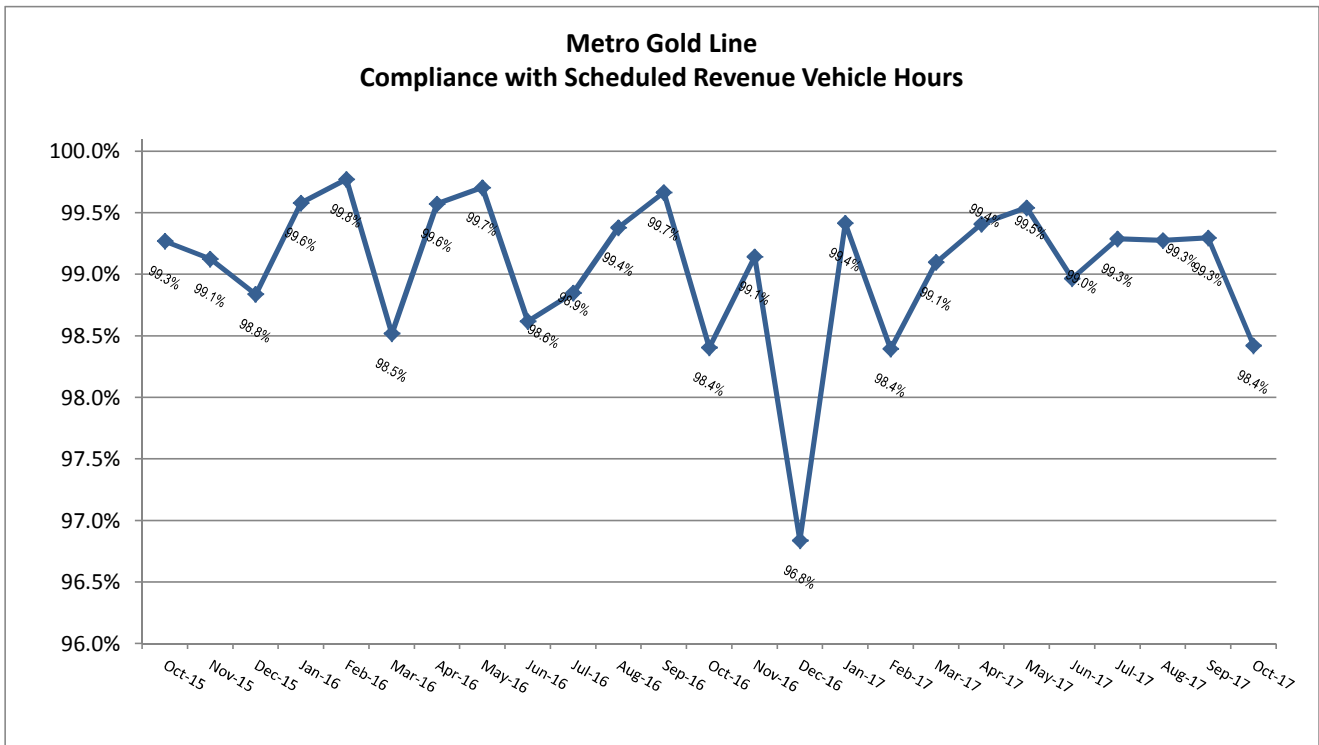
Reports of sick car
Train # 414
T-17
(726A)-741-718
Atlantic Station, Track #2, NB

10/25/2017 5:03:00 PM - Incident# 2926936 (2 lost trips, 499 lost minutes)

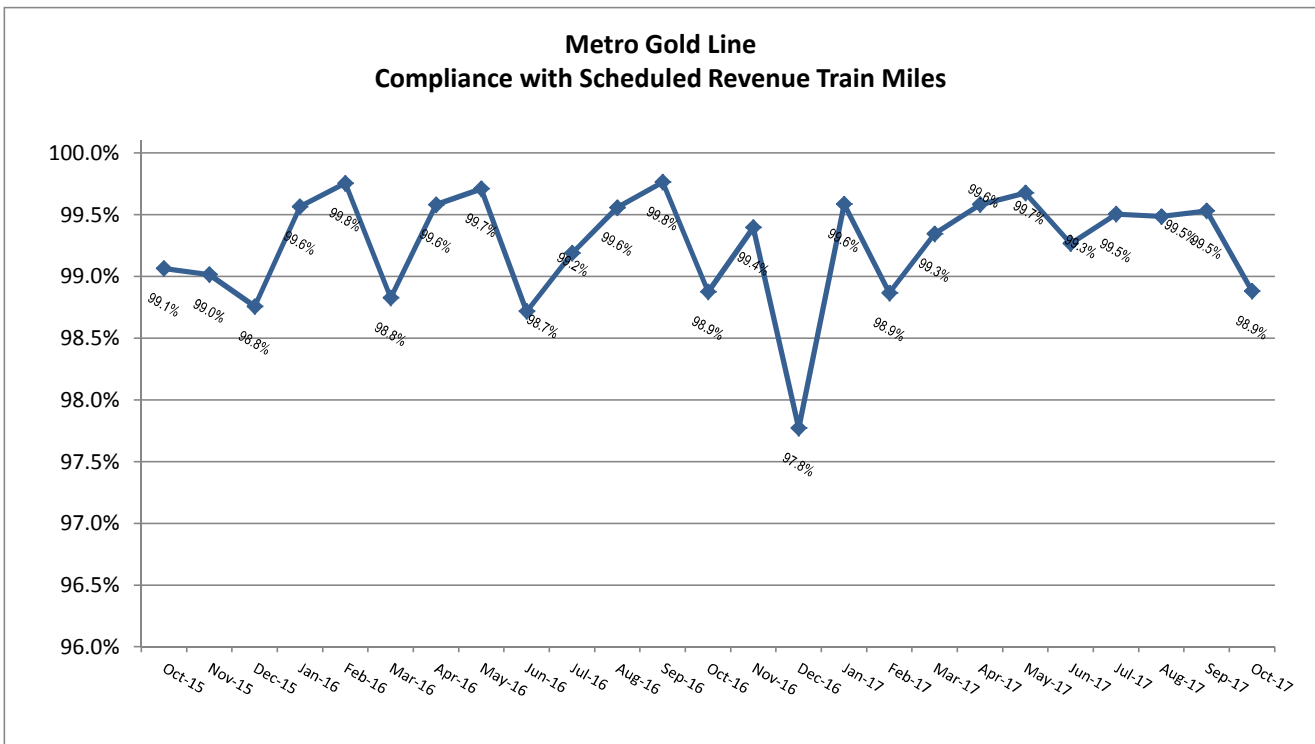
Operator Late (due to advisory).

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

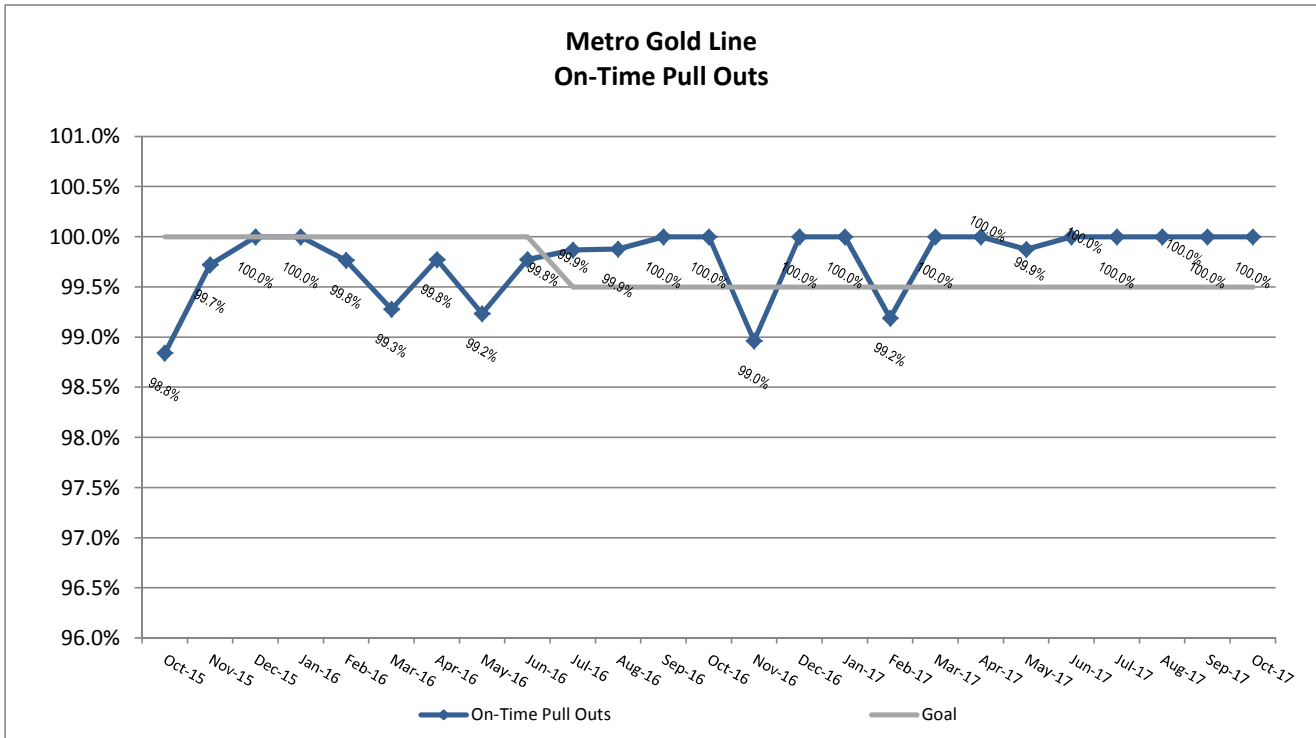
COMPLIANCE WITH SCHEDULED VEHICLE HOURS



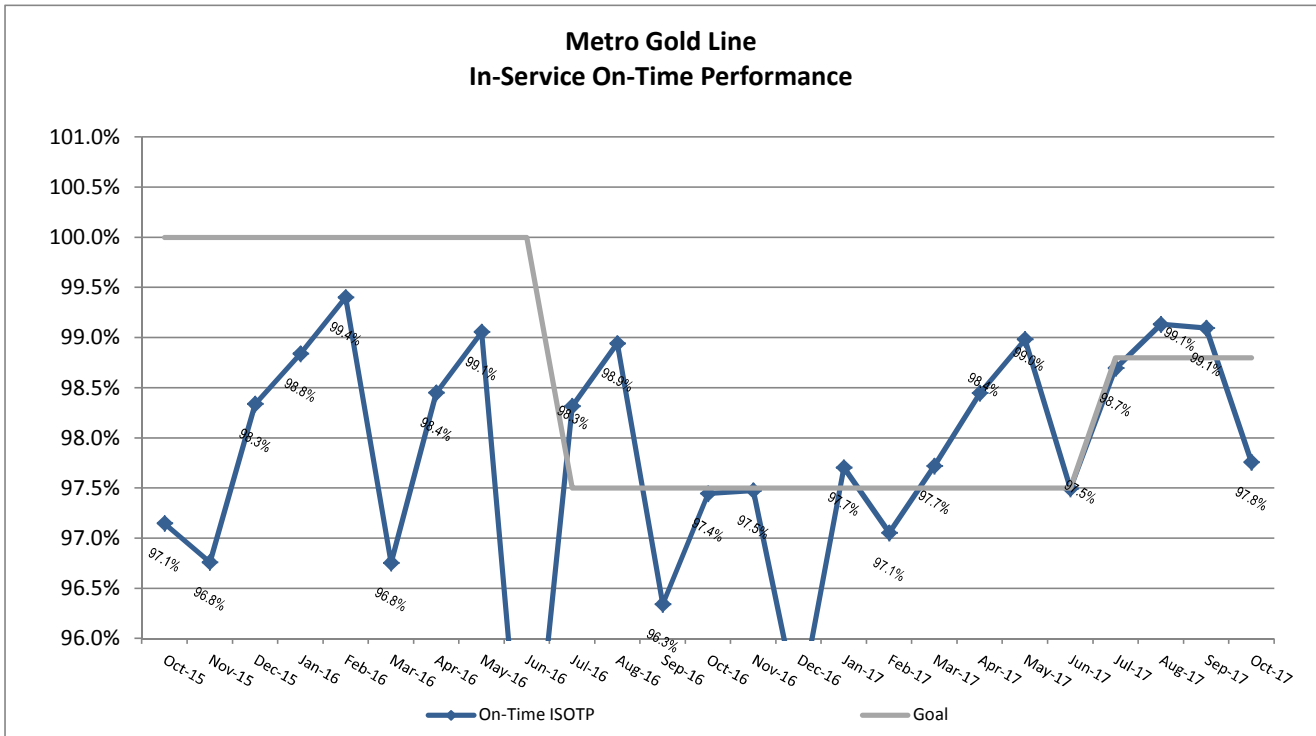
COMPLIANCE WITH SCHEDULED TRAIN MILES



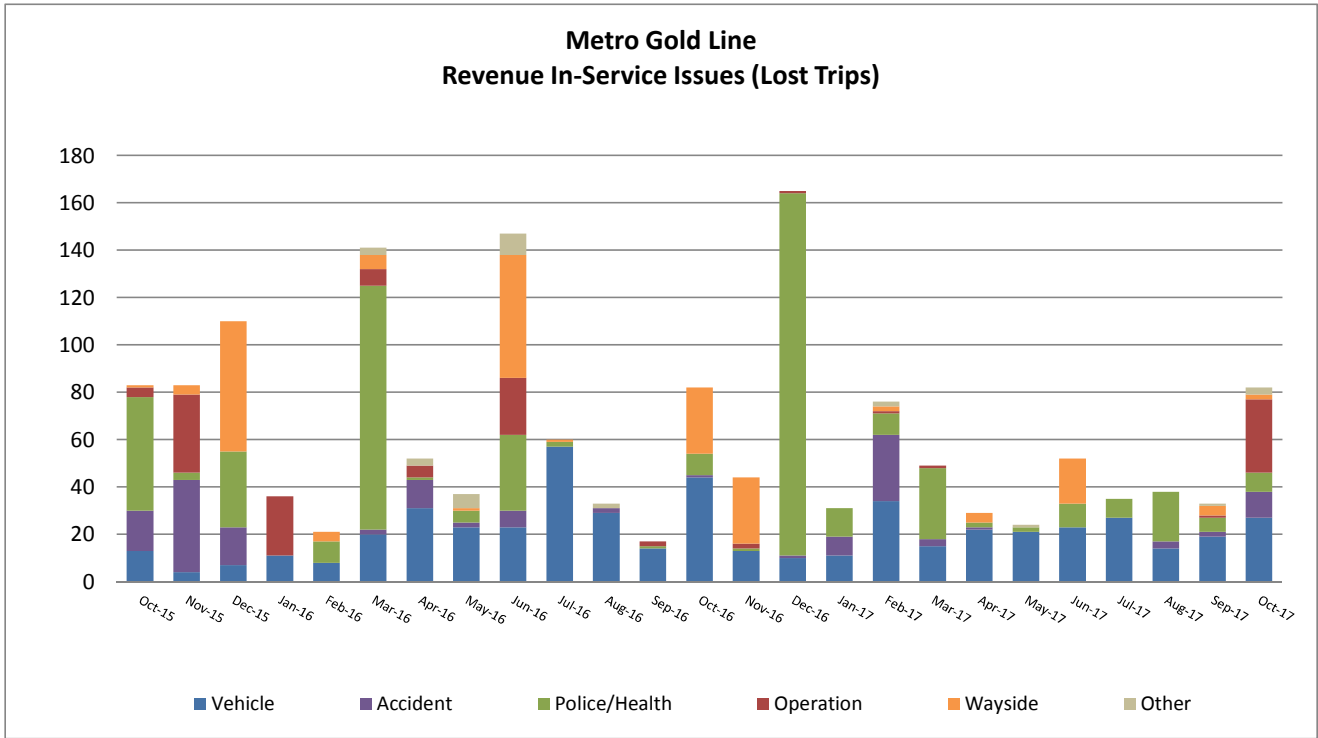
ON-TIME PULL OUTS



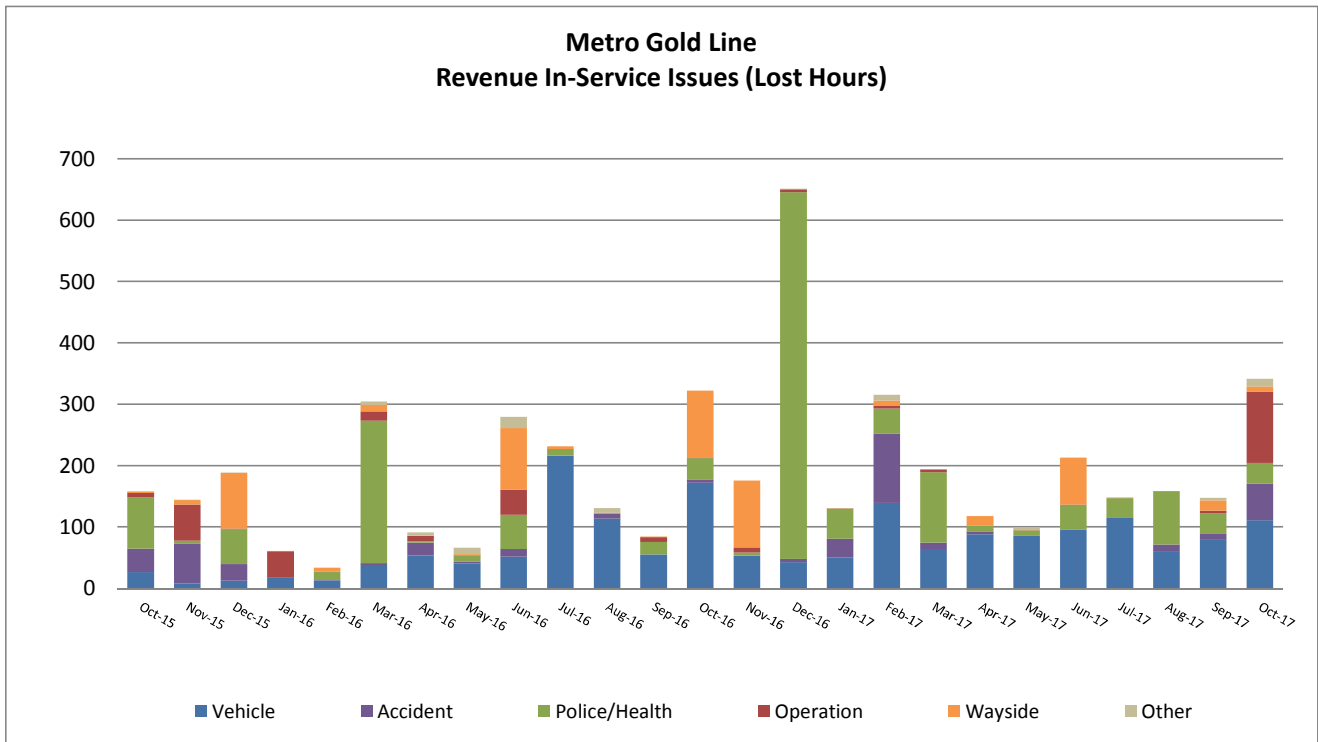
IN-SERVICE ON-TIME PERFORMANCE



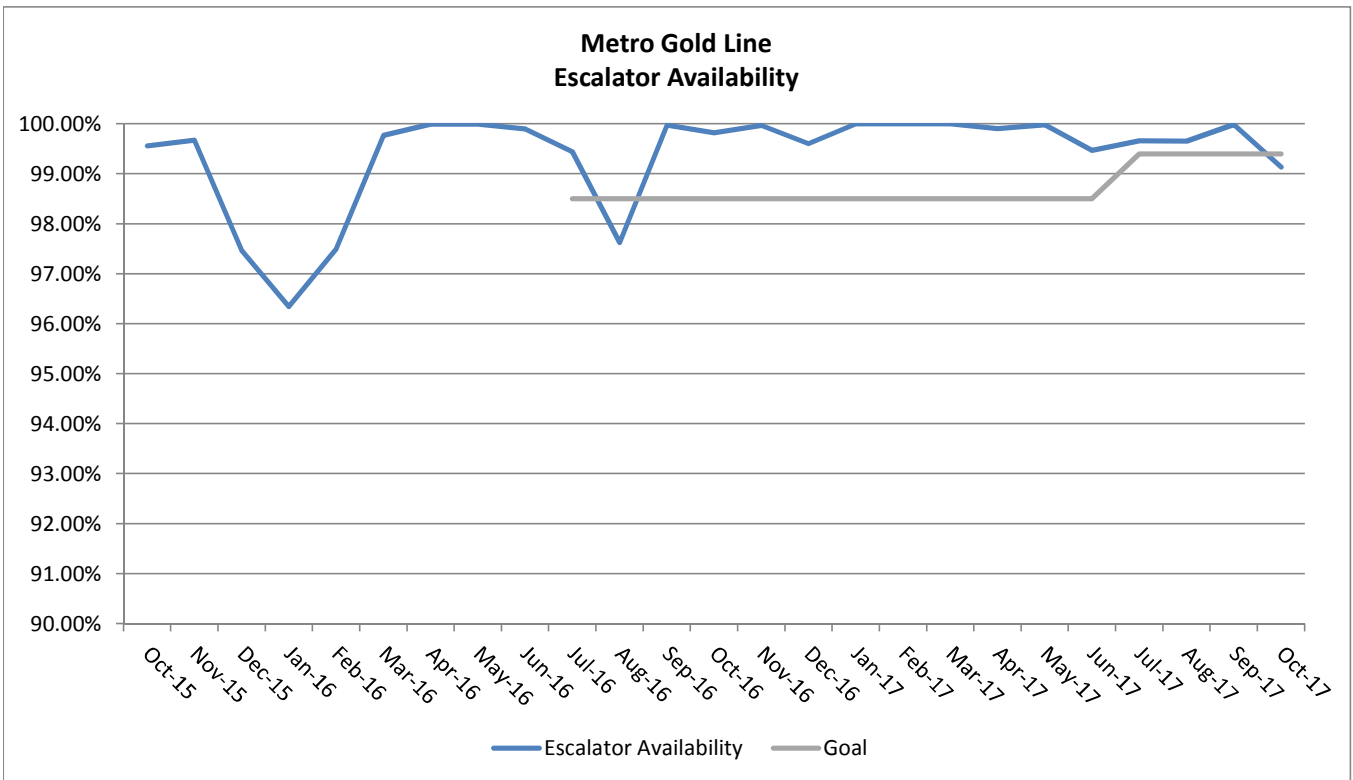
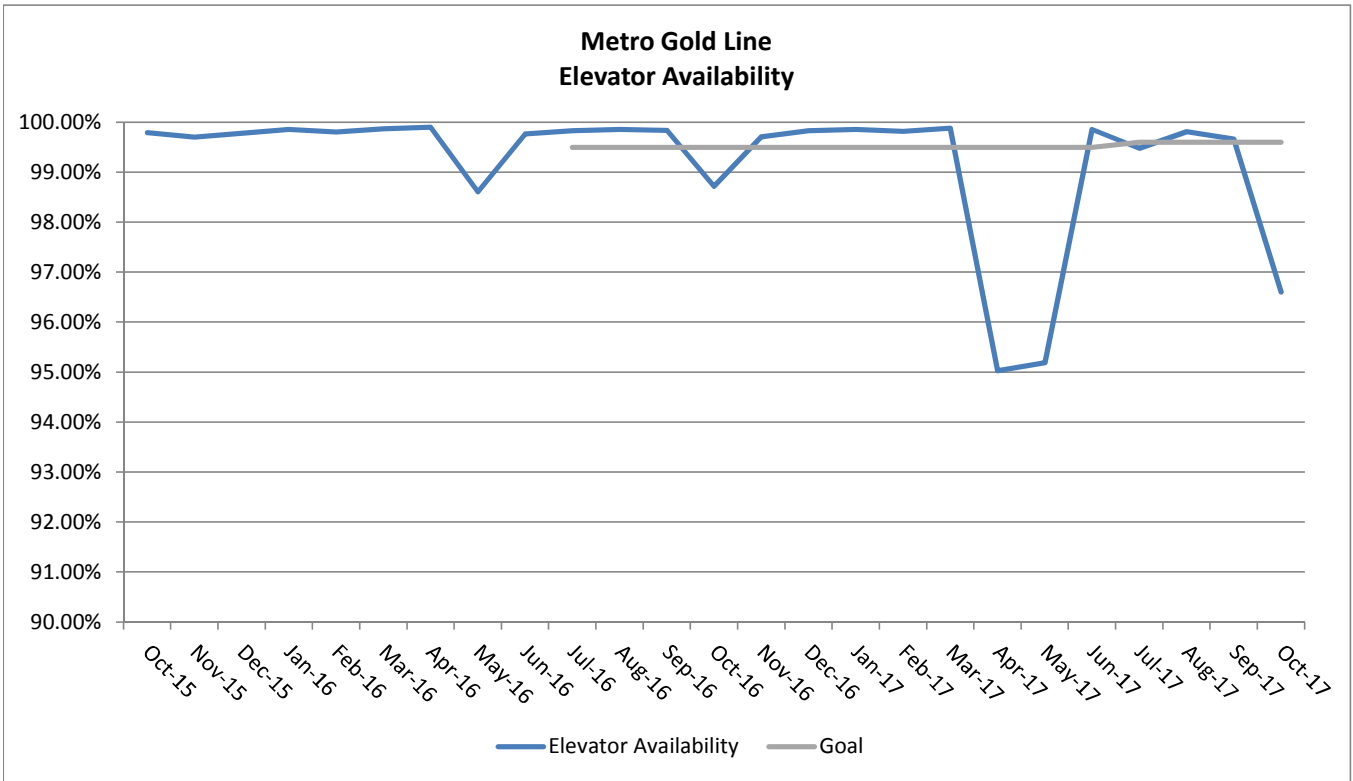
LOST TRIPS



LOST HOURS



VERTICAL TRANSPORTATION AVAILABILITY



EXPO LINE

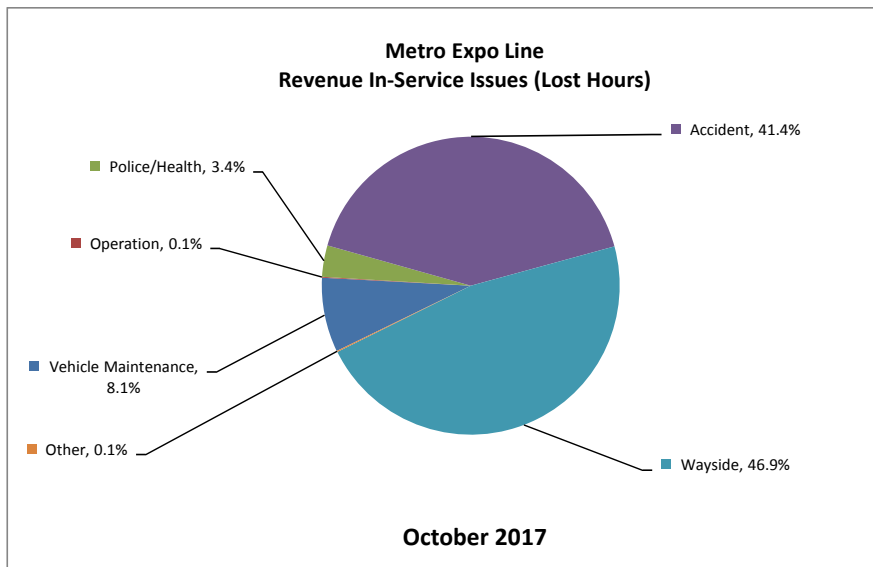
Out of a total of 22,915 hours operated, there were approximately 163 total hours of service delays.

October 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	22,752	99.3%
Cancelled + Delayed Hours	163	0.7%
Total Revenue Hours	22,915	100.0%

Summary of the incidents:	Count	Hours	Percent
Operations	1	0.2	0.1%
Accidents	7	67.5	41.4%
Vehicle Maintenance	10	13.2	8.1%
Wayside	5	76.4	46.9%
Police & Health	4	5.6	3.4%
Other	1	0.2	0.1%
Total	28	163.0	100.0%

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

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



October 2017 Expo Line incidents causing delay were as follows:

Operations Incidents:

10/12/2017 8:49:00 AM - Incident# 2921657 (0 lost trips, 11 lost minutes)

T-543 10-100 at Santa Monica Station delay of 11 minutes.

Accidents:

10/7/2017 10:34:00 AM - Incident# 2919831 (16 lost trips, 2,268 lost minutes)

Train vs Pedestrian.

11th Street Grade Crossing.

Track #4, Southbound.

Train #657.

T-313.

LRV-(1025A), 1027, 1028.

10/9/2017 7:37:00 AM - Incident# 2920293 (0 lost trips, 12 lost minutes)

Train Vs. Auto, 10-73

Train 605

T-545

(246B)-229-233

Normandie Ave, Track 3, Northbound

10/17/2017 4:41:00 PM - Incident# 2923610 (1 lost trip, 153 lost minutes)

10-72 NB just before 17th street station at the Pedestrian Crossing.

10/23/2017 8:29:00 PM - Incident# 2925906 (1 lost trip, 165 lost minutes)

Auto vs Train Exposition and Crenshaw

10/27/2017 5:16:00 PM - Incident# 2927840 (4 lost trips, 564 lost minutes)

10-72 at Pico Station

Train 666, T-243

Cars 1027, 1043, 1021

Pico Station, Trk 1, NB

10/27/2017 5:16:00 PM - Incident# 2927845 (4 lost trips, 564 lost minutes)

Information only: Due to 10-72 at Pico Station on Blue Line, track 1 (M3# 2,927,840), trains were turned back from 23rd street.

10/28/2017 11:23:00 AM - Incident# 2928010 (2 lost trips, 322 lost minutes)

EXPOSITION BLVD and USC WATT WAY 10-73 TK-4

T-534, Train 904

Track 4, West, USC WATT WY

(1033)-1040-1026

Vehicle Maintenance Incidents:

10/1/2017 4:21:00 AM - Incident# 2917242 (0 lost trips, 11 lost minutes)

Operator reports of a door problem.

T-214

Train #652

Cars1003 -1053-(1021B)

7th Metro St

Southbound Trk#1

10/4/2017 7:10:00 PM - Incident# 2918676 (0 lost trips, 10 lost minutes)

Bank of doors not closing on car (1020).

Train # 603

T-139

Western Sta., track #3, northbound

1028 (1020) 1014

10/9/2017 6:18:00 AM - Incident# 2920270 (0 lost trips, 18 lost minutes)

Doors Showing Open

Train 657

T-299

1003-1053-1036

Vermont Station, Track 3, Northbound

10/11/2017 5:45:00 AM - Incident# 2921156 (0 lost trips, lost minutes)

Doors
Train 658
T-403
Santa Monica Station
Trk 3
+9 minutes

10/11/2017 8:42:00 AM - Incident# 2921242 (0 lost trips, 15 lost minutes)

Other Vehicle System
(1021)-1028-1027
Train 653
T-527
Crenshaw, Southbound, Track 4

10/13/2017 11:58:00 PM - Incident# 2922338 (1 lost trip, 141 lost minutes)

Prop faults
Train #671, T-423
1068-1060-(1025)
SB, 7th and Metro Center Station, Track #2

10/14/2017 6:17:00 PM - Incident# 2922485 (0 lost trips, lost minutes)

Extra Service
Train #652, T-509
(1064B)-1031-1041
SB, Farmdale Station, Track #4

10/16/2017 2:33:00 PM - Incident# 2923096 (1 lost trip, 141 lost minutes)

Train 651 No Movement
T-252
Downtown Santa Monica
144-125-168

10/17/2017 3:48:00 PM - Incident# 2925299 (1 lost trip, 141 lost minutes)

1080 has smoking brakes
Train 603
T-538
Tk 3 SB LaBrea
1080-1086-1071

10/21/2017 1:27:00 PM - Incident# 2925094 (1 lost trip, 141 lost minutes)

Smoking brakes on LRV 1080
T-538
Train 603
LRV (1080) 1086 1071
La Brea Station, Track 3, northbound.

10/25/2017 8:35:00 AM - Incident# 2926654 (0 lost trips, 15 lost minutes)

Doors
238-(249)-230
Train 602
T-315
Culver City, Southbound, Track 4

10/26/2017 12:12:00 PM - Incident# 2927269 (1 lost trip, 156 lost minutes)

Door problem unable to close to cut out.
Train #652 T-227 Car#1021A-1043-1019
southbound Farmdale.

Wayside Incidents:

10/9/2017 12:49:00 PM - Incident# 2920455 (16 lost trips, 2,256 lost minutes)

10/13/2017 6:09:00 AM - Incident# 2922118 (0 lost trips, 12 lost minutes)

UPS failure at Westwood Communication building causing Signalling system to fail and signals to display dark at Westwood Interlocking, Lose all SCADA reporting including all train ID and occupancy display at control center between Sepulveda and Westwood.

10/16/2017 12:22:00 PM - Incident# 2922990 (12 lost trips, 1,726 lost minutes)

DC breakers opened up at fifth street TPSS and 17 street TPSS, Deluge active at fifth street TPSS.
deenergized track 4 and 3.

10/23/2017 4:00:00 AM - Incident# 2925444 (0 lost trips, 16 lost minutes)

Expo Yard Div-14, loss routing capabilities via B/O server.

10/31/2017 9:10:00 AM - Incident# 2928981 (4 lost trips, 576 lost minutes)

Interlocking: Switch Out Of Correspondence at 4th Street

Police & Health Incidents:

10/14/2017 8:09:00 PM - Incident# 2922492 (1 lost trip, 151 lost minutes)

Auto accident/ MTA not involved

Denker/Exposition, Track # 3

T-94, Train # 692

10/15/2017 2:39:00 PM - Incident# 2922635 (0 lost trips, 23 lost minutes)

Operator Investigating PIC call was not being allowed to enter cab by an unstable individual.

Train 655

TK #3 NB Expo/Western Station

T-325

1032-1041-(1031)

10/20/2017 10:13:00 PM - Incident# 2924953 (0 lost trips, 18 lost minutes)

Train Operator on Train 651 reported that an individual got assaulted while riding the Train on approach to Vermont Station Northbound.

Train 651

1041-(1031)-1060

T-94

Vermont Station Track #3 Northbound.

10/27/2017 12:42:00 AM - Incident# 2927473 (1 lost trip, 141 lost minutes)

Trespasser/ROW

Train #668, T-518

1052A-1049

NB, La Brea Station, Track #3

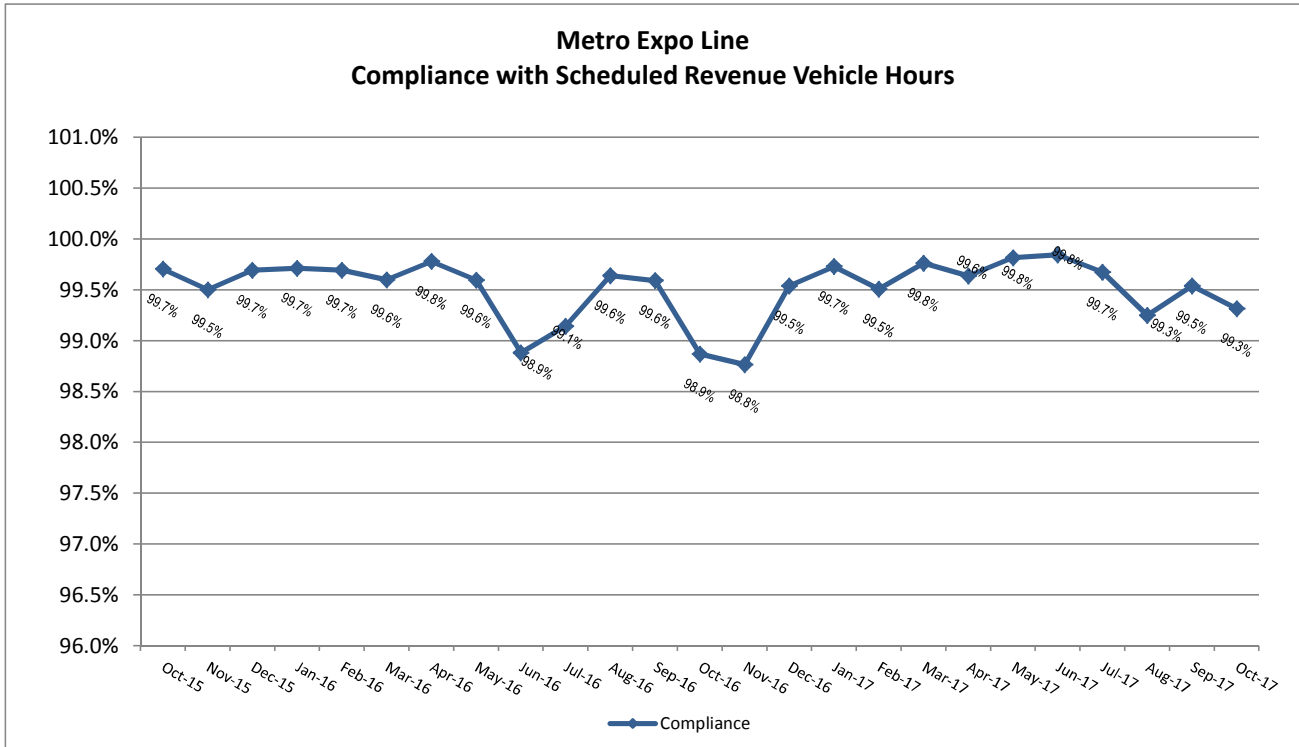
Other Incidents:

10/18/2017 4:41:00 PM - Incident# 2924007 (0 lost trips, 12 lost minutes)

Motorhome on fire adjacent to track 3 at USC Expo station.

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

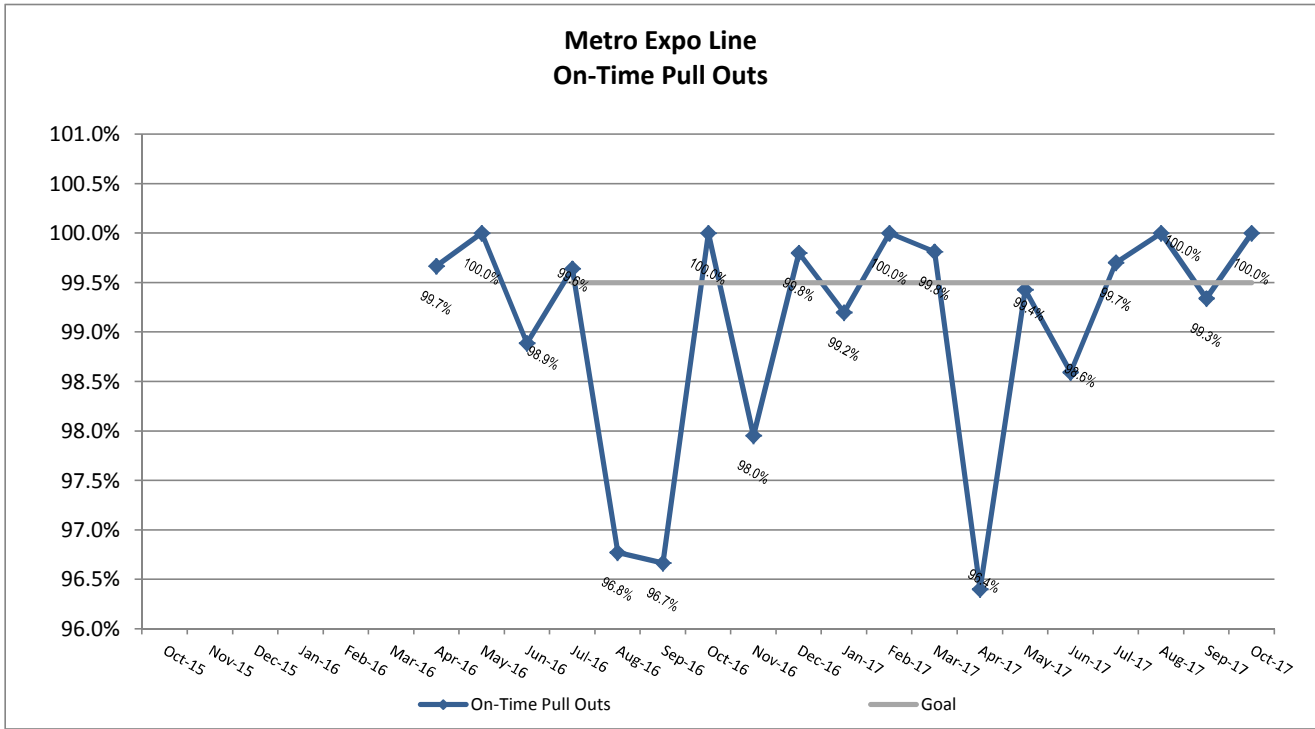
COMPLIANCE WITH SCHEDULED VEHICLE HOURS



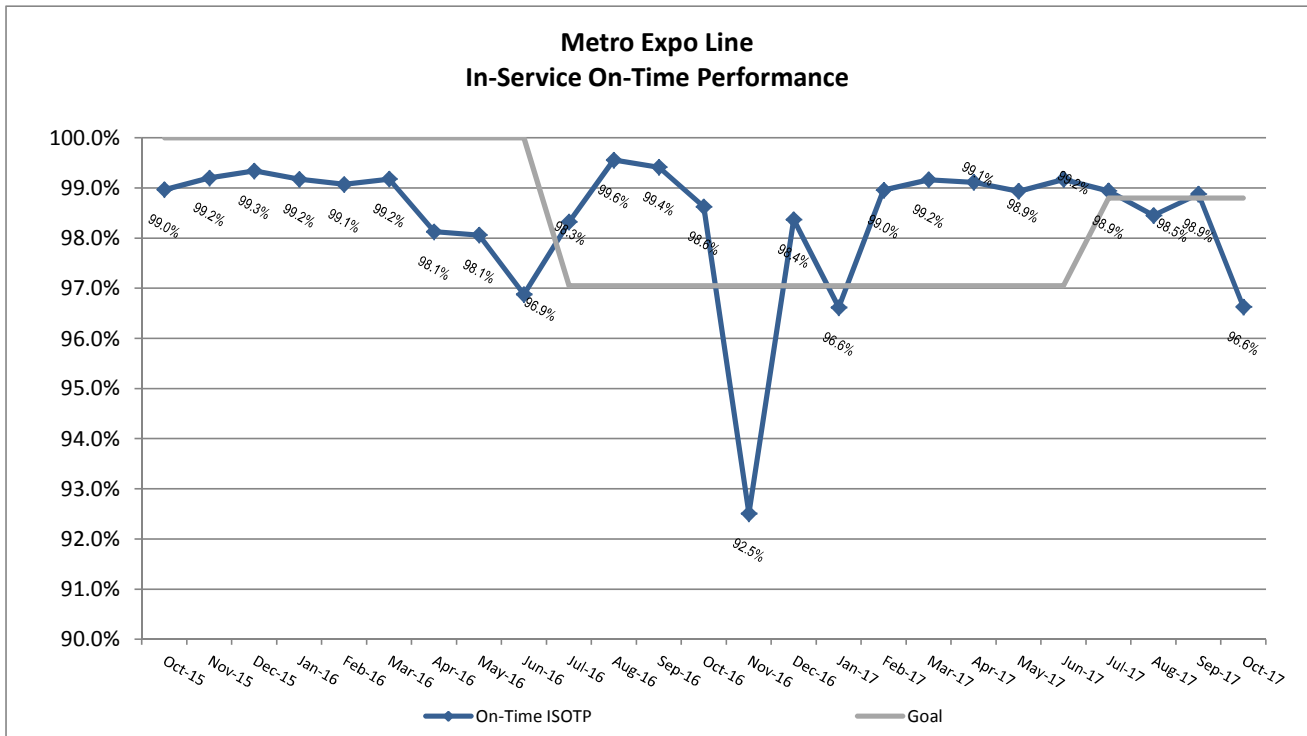
COMPLIANCE WITH SCHEDULED TRAIN MILES



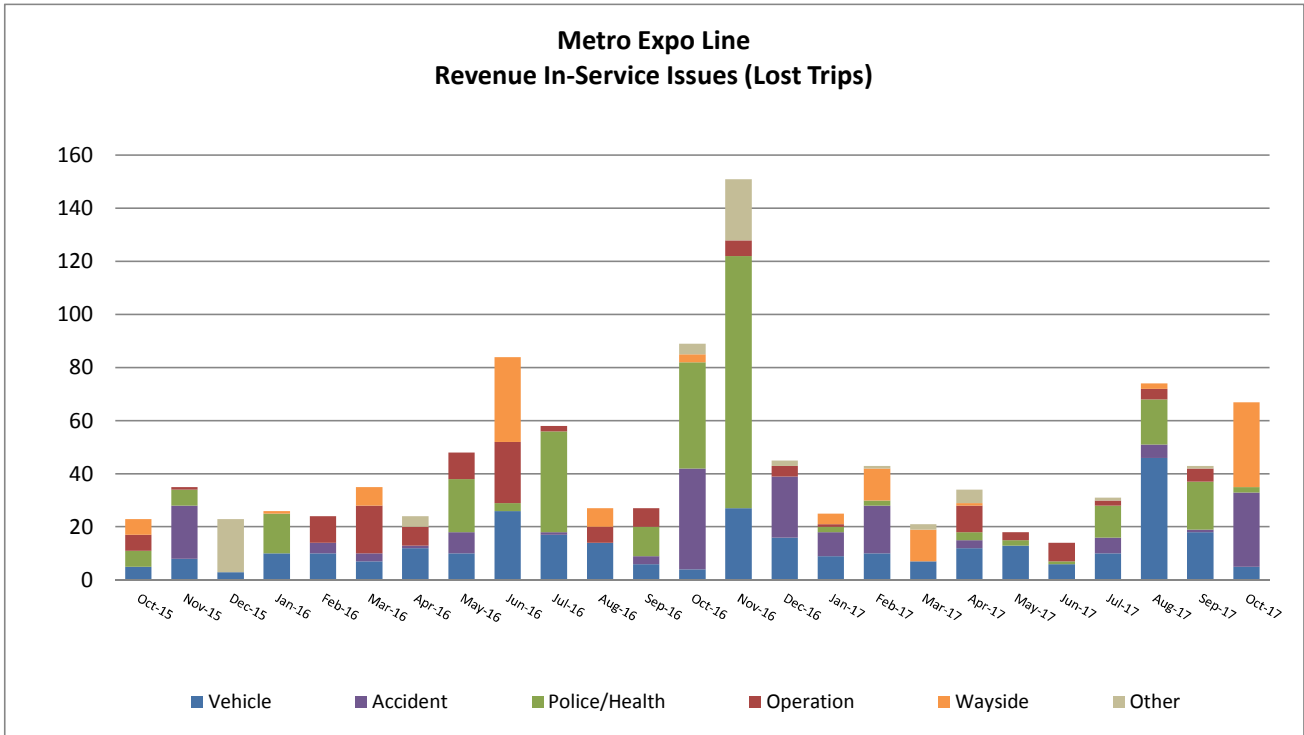
ON-TIME PULL OUTS



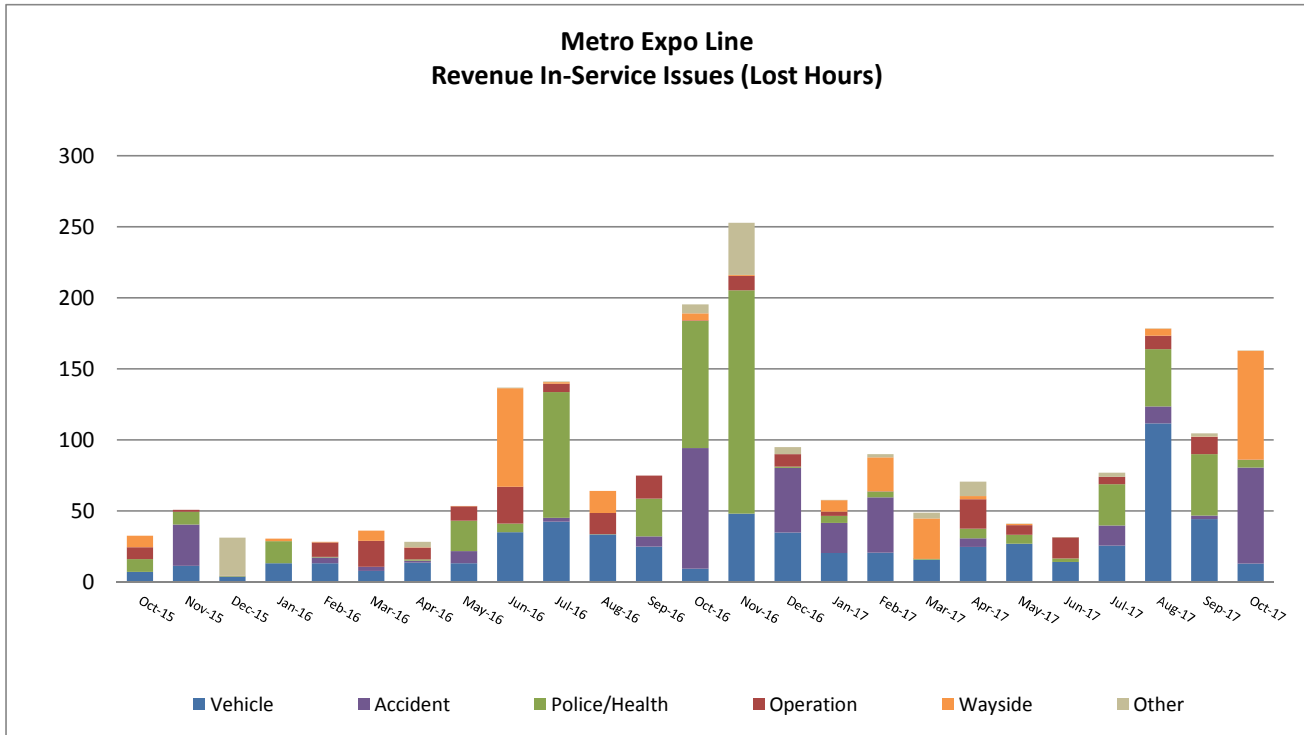
IN-SERVICE ON-TIME PERFORMANCE



LOST TRIPS



LOST HOURS



VERTICAL TRANSPORTATION AVAILABILITY

