

Los Angeles County
Metropolitan Transportation Authority
California

OPERATIONS MONTHLY RAIL PERFORMANCE REPORT

AUGUST 2017



M
Metro

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METRO RAIL PERFORMANCE – AUGUST 2017

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Metro Rail Scorecard Overview

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

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

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

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

Measurement	FY 2015	FY 2016	FY 2017	FY 2018 Target	FY 2018 YTD	FYTD Status	Jun Month	Jul Month	Aug Month
Systemwide									
On-Time Pullouts	99.67%	99.63%	99.61%	99.50%	99.79%	●	99.42%	99.77%	99.81%
Mean Miles Between Chargeable Mechanical Failures	34,524	30,482	29,711	32,550	24,789	●	30,999	29,212	21,617
In-Service On-time Performance	98.39%	98.10%	98.24%	98.99%	98.62%	●	98.57%	98.78%	98.46%
Service Delivery Ratio	99.35%	99.22%	99.23%	99.00%	99.21%	●	99.37%	99.29%	99.14%
Traffic Accidents Per 100,000 Train Miles	1.18	1.17	1.01	1.01	0.99	●	0.95	0.80	1.17
CPUC Reportable Accidents per 100,000 Train Miles	0.43	0.60	0.36	0.37	0.53	●	0.27	0.40	0.65
Passenger Accidents per 100,000 Boardings	0.013	0.016	0.023	0.010	0.026	●	0.010	0.032	0.020
Complaints per 100,000 Boardings	0.78	1.43	1.98	1.10	1.67	●	1.76	1.56	1.78
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours ^{1,2}	11.11	10.97	12.27	10.42	11.74	●	5.89	14.20	9.44
Lost Work Days per 200,000 Exposure Hours ^{1,2}	880	482	733	450.00	717	●	927	717	-
OSHA Injuries per 200,000 Exposure Hours ^{1,2}	6.68	6.32	8.53	6.00	5.07	●	3.92	5.07	-
Wayside									
Overdue Work Orders (Non-PMP) - Aging of Outstanding Work Orders	121	530	1,575	N/A	1,165	N/A	336	403	762
Past-Due Preventive Maintenance - Aging of Outstanding Work Orders	1	15	151	N/A	118	N/A	43	59	59
% of Completed Inspections	99.51%	99.57%	99.72%	N/A	99.86%	N/A	100.00%	100.00%	99.71%
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	9.07	4.77	5.35	4.53	6.18	●	12.17	12.78	0.00
Lost Work Days per 200,000 Exposure Hours ¹	309	148	194	138	354	●	373	354	-
OSHA Injuries per 200,000 Exposure Hours ¹	8.28	4.40	4.01	4.18	8.52	●	4.06	8.52	-
Blue Line									
On-Time Pullouts	99.41%	99.59%	99.60%	99.50%	99.50%	●	98.99%	99.26%	99.72%
Mean Miles Between Chargeable Mechanical Failures	23,716	19,240	15,405	22,825	10,599	●	13,927	12,132	9,466
In-Service On-time Performance	97.28%	96.10%	96.44%	98.80%	96.90%	●	97.41%	97.18%	96.63%
Service Delivery Ratio	98.88%	98.41%	98.54%	99.00%	98.13%	●	98.77%	98.21%	98.06%
Traffic Accidents Per 100,000 Train Miles	2.48	2.38	2.18	2.18	1.90	●	3.88	0.64	3.14
CPUC Reportable Accidents per 100,000 Train Miles	0.89	1.39	0.71	0.40	1.27	●	0.65	0.64	1.88
Passenger Accidents per 100,000 Boardings	0.034	0.016	0.046	0.010	0.080	●	0.000	0.056	0.102
Complaints per 100,000 Boardings	0.90	1.33	1.67	1.07	2.03	●	1.38	1.51	2.51
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	15.10	15.08	16.74	10.42	18.29	●	5.46	27.07	10.10
Lost Work Days per 200,000 Exposure Hours ¹	1,622	797	836	450	756	●	918	756	-
OSHA Injuries per 200,000 Exposure Hours ¹	10.64	6.79	10.40	6.00	5.41	●	0.00	5.41	-

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	Jun Month	Jul Month	Aug Month
Red Line									
On-Time Pullouts	99.91%	99.79%	99.95%	99.50%	99.90%	●	99.59%	100.00%	99.80%
Mean Miles Between Chargeable Mechanical	85,090	94,312	104,637	131,376	63,110	●	83,340	85,664	49,953
In-Service On-time Performance	99.13%	99.45%	99.39%	99.50%	99.27%	●	99.29%	99.45%	99.09%
Service Delivery Ratio	99.60%	99.71%	99.72%	100.00%	99.64%	●	99.75%	99.65%	99.63%
Traffic Accidents Per 100,000 Train Miles	0.47	0.75	0.57	0.57	0.43	●	0.00	0.85	0.00
CPUC Reportable Accidents per 100,000 Train Miles	0.07	0.07	0.14	0.21	0.00	●	0.00	0.00	0.00
Passenger Accidents per 100,000 Boardings	0.002	0.002	0.004	0.000	0.000	●	0.000	0.000	0.000
Complaints per 100,000 Boardings	0.54	0.57	1.19	0.55	1.22	●	1.50	1.22	1.23
New Workers' Compensation Indemnity Claims per	6.20	16.43	12.68	10.42	11.41	●	0.00	0.00	21.42
*Lost Work Days per 200,000 Exposure Hours	649	526	992	450	902	●	1,131	902	-
*OSHA Injuries per 200,000 Exposure Hours	3.54	7.99	7.52	6.00	0.00	●	0.00	0.00	-

Green Line									
On-Time Pullouts	99.32%	99.49%	99.69%	99.50%	99.64%	●	99.76%	100.00%	99.31%
Mean Miles Between Chargeable Mechanical Failures	21,054	19,238	16,375	23,220	29,015	●	18,864	37,988	23,631
In-Service On-time Performance	97.39%	98.52%	98.69%	98.80%	99.16%	●	99.18%	99.50%	98.83%
Service Delivery Ratio	99.50%	99.59%	99.61%	99.00%	99.76%	●	99.65%	99.78%	99.74%
Traffic Accidents Per 100,000 Train Miles	0.21	0.42	0.48	0.48	0.81	●	0.00	0.82	0.80
CPUC Reportable Accidents per 100,000 Train Miles	0.07	0.07	0.07	0.40	0.00	●	0.83	0.00	0.00
Passenger Accidents per 100,000 Boardings	0.024	0.034	0.048	0.010	0.000	●	0.123	0.000	0.000
Complaints per 100,000 Boardings	0.88	1.54	2.08	1.27	1.75	●	1.72	1.25	2.20
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	7.32	7.18	9.14	10.42	9.77	●	19.36	9.91	9.64
*Lost Work Days per 200,000 Exposure Hours	479	228	712	450	899	●	1,128	899	-
*OSHA Injuries per 200,000 Exposure Hours	4.07	3.19	6.65	6.00	0.00	●	29.04	0.00	-

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	32,082	●	42,176	33,561	30,787
In-Service On-time Performance	98.56%	97.60%	97.61%	98.80%	98.92%	●	97.49%	98.70%	99.13%
Service Delivery Ratio	99.34%	99.11%	98.88%	99.00%	99.26%	●	98.94%	99.27%	99.26%
Traffic Accidents Per 100,000 Train Miles	1.14	0.99	0.61	0.61	0.43	●	0.44	0.44	0.42
CPUC Reportable Accidents per 100,000 Train Miles	0.30	0.60	0.25	0.40	0.21	●	0.00	0.00	0.42
Passenger Accidents per 100,000 Boardings	0.007	0.039	0.030	0.010	0.070	●	0.000	0.143	0.000
Complaints per 100,000 Boardings	1.01	2.73	2.78	2.22	1.68	●	2.18	1.79	1.57
New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours	15.96	11.87	14.31	10.42	14.16	●	0.00	17.40	11.08
*Lost Work Days per 200,000 Exposure Hours	1,068	766	1,055	450	863	●	985	863	-
*OSHA Injuries per 200,000 Exposure Hours	3.83	9.29	9.69	6.00	5.80	●	0.00	5.80	-

Expo Line									
On-Time Pullouts	-	99.53%	98.76%	99.50%	99.86%	●	98.59%	99.70%	100.00%
Mean Miles Between Chargeable Mechanical Failures	-	18,114	33,402	22,825	29,618	●	64,688	36,414	25,087
In-Service On-time Performance	99.14%	98.61%	98.48%	98.80%	98.70%	●	99.17%	98.94%	98.45%
Service Delivery Ratio	99.64%	99.56%	99.46%	99.00%	99.44%	●	99.83%	99.66%	99.22%
Traffic Accidents Per 100,000 Train Miles	1.02	0.74	1.26	1.26	1.57	●	0.00	1.59	1.55
CPUC Reportable Accidents per 100,000 Train Miles	1.02	0.50	0.63	0.40	1.18	●	0.00	1.59	0.78
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	1.13	3.38	3.68	1.83	2.26	●	2.44	2.32	2.21
New Workers' Compensation Indemnity Claims per	24.97	8.44	19.26	10.42	11.17	●	0.00	15.44	7.19
*Lost Work Days per 200,000 Exposure Hours	937	73	887	450	748	●	1,472	748	-
*OSHA Injuries per 200,000 Exposure Hours	-	5.63	16.60	6.00	7.72	●	-	7.72	-

* There is One Month lag in reporting this data

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

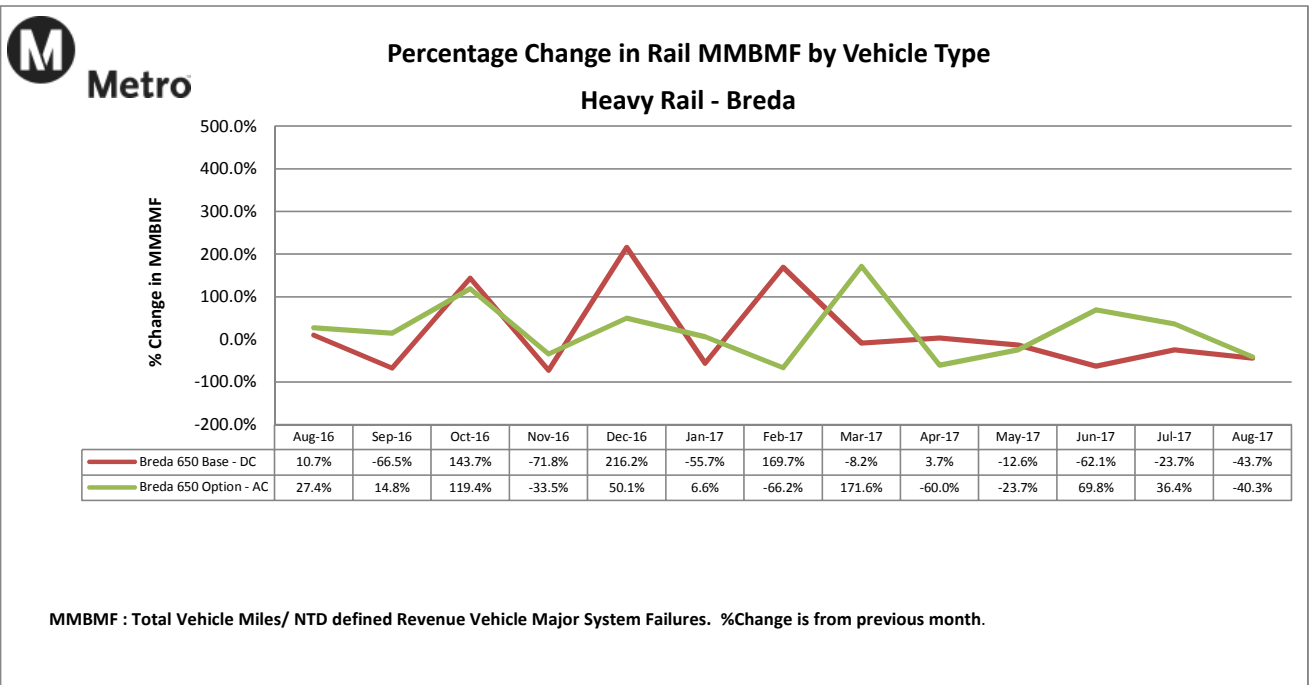
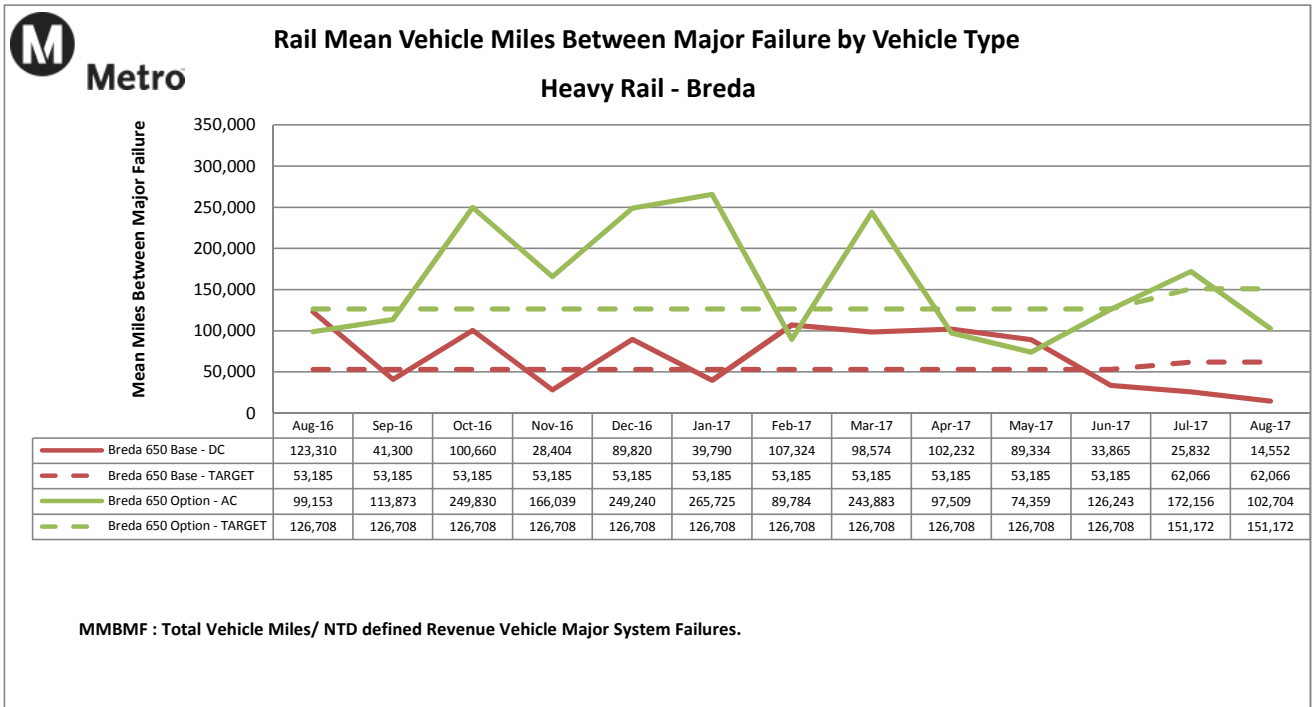
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● Red - High probability that the target will not be achieved -- significant problems and/or delays. Falls below Target >70%.

N/A = Not Available

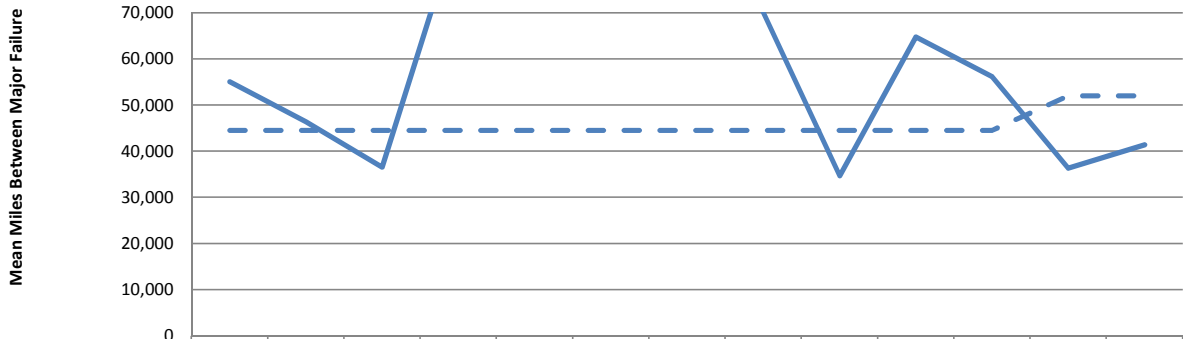
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Rail Performance by Vehicle Type





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

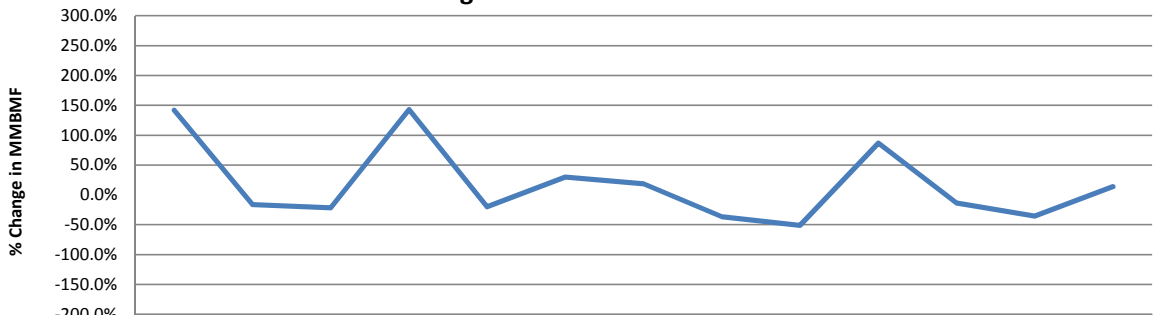


	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17
— AnsaldoBreda 2550 Base - AC	55,074	46,395	36,556	88,934	71,550	92,980	110,322	70,117	34,678	64,769	56,193	36,347	41,380
- - AnsaldoBreda 2550 Base - TARGET	44,517	44,517	44,517	44,517	44,517	44,517	44,517	44,517	44,517	44,517	44,517	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



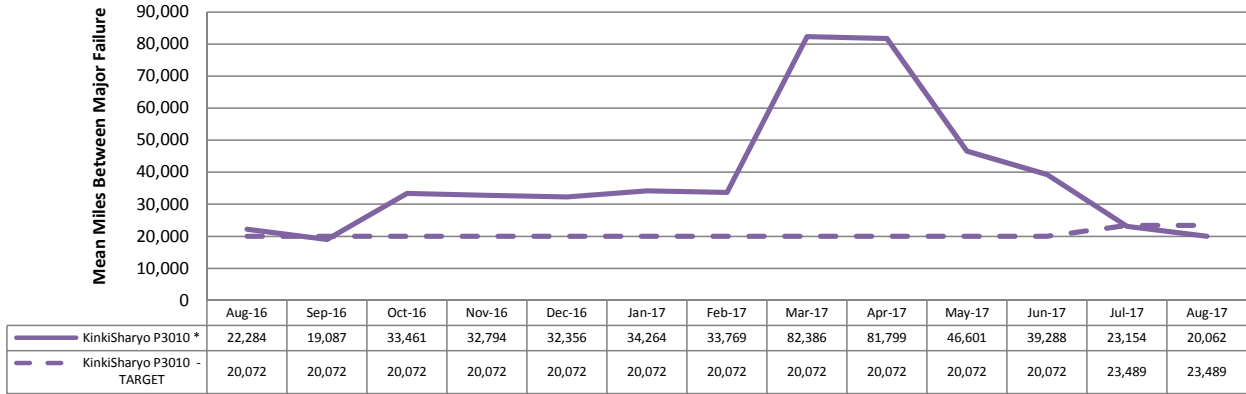
	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17
— AnsaldoBreda 2550 Base - AC	142.2%	-15.8%	-21.2%	143.3%	-19.5%	30.0%	18.7%	-36.4%	-50.5%	86.8%	-13.2%	-35.3%	13.8%

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

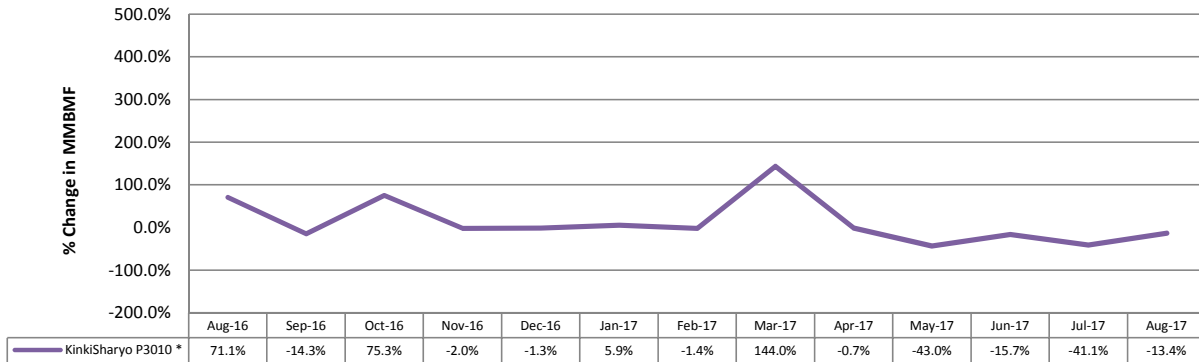


MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



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.

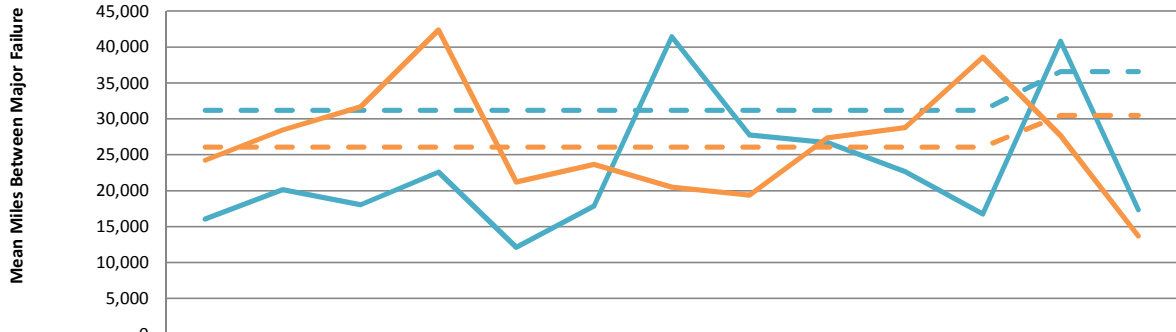
* KinkiSharyo rolling stock began service March 2016



Metro

Rail Mean Vehicle Miles Between Major Failure by Vehicle Type

Light Rail - NipponSharyo



	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17
Nippon Sharyo 2020 - DC	16,076	20,161	18,085	22,626	12,147	17,872	41,450	27,775	26,695	22,633	16,760	40,831	17,363
Nippon Sharyo 2020 - TARGET	31,214	31,214	31,214	31,214	31,214	31,214	31,214	31,214	31,214	31,214	31,214	36,599	36,599
Nippon Sharyo 865 - DC	24,255	28,492	31,711	42,397	21,248	23,683	20,509	19,393	27,389	28,818	38,589	27,682	13,688
Nippon Sharyo 865 - TARGET	26,062	26,062	26,062	26,062	26,062	26,062	26,062	26,062	26,062	26,062	26,062	30,478	30,478

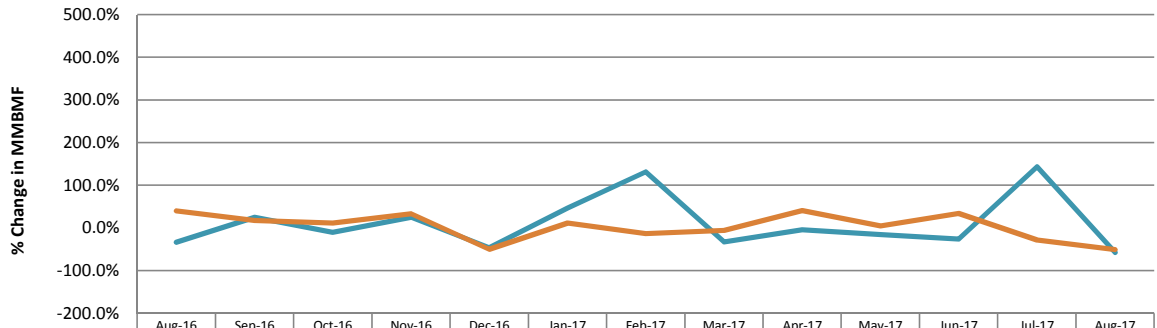
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



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Percentage Change in Rail MMBMF by Vehicle Type

Light Rail - NipponSharyo



	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17
Nippon Sharyo 2020 - DC	-33.4%	25.4%	-10.3%	25.1%	-46.3%	47.1%	131.9%	-33.0%	-3.9%	-15.2%	-25.9%	143.6%	-57.5%
Nippon Sharyo 865 - DC	39.9%	17.5%	11.3%	33.7%	-49.9%	11.5%	-13.4%	-5.4%	41.2%	5.2%	33.9%	-28.3%	-50.6%

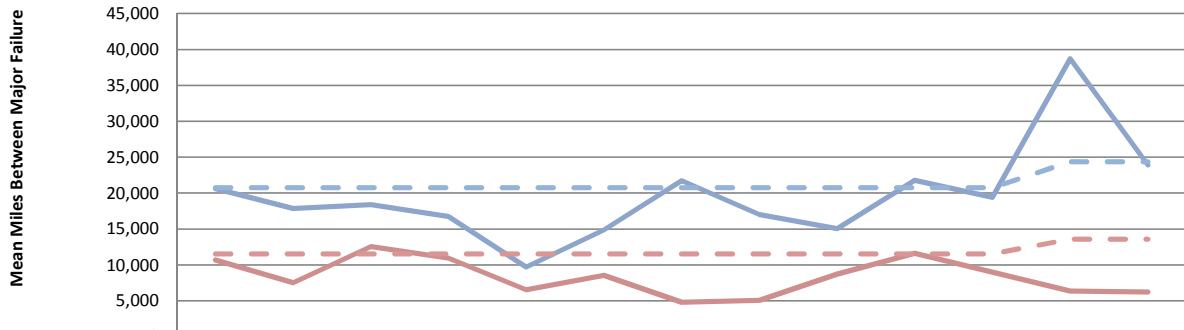
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures. %Change is from previous month.



Metro

Rail Mean Vehicle Miles Between Major Failure by Vehicle Type

Light Rail - Siemens



	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17
Siemens 2000 Base - AC	20,656	17,880	18,421	16,779	9,743	14,883	21,759	17,019	15,093	21,822	19,452	38,751	23,959
Siemens 2000 Base - TARGET	20,778	20,778	20,778	20,778	20,778	20,778	20,778	20,778	20,778	20,778	20,778	24,373	24,373
Siemens 2000 GE/ATP - AC	10,706	7,530	12,573	10,979	6,568	8,550	4,829	5,090	8,746	11,631	8,992	6,369	6,238
Siemens 2000 GE/ATP - TARGET	11,559	11,559	11,559	11,559	11,559	11,559	11,559	11,559	11,559	11,559	11,559	13,620	13,620

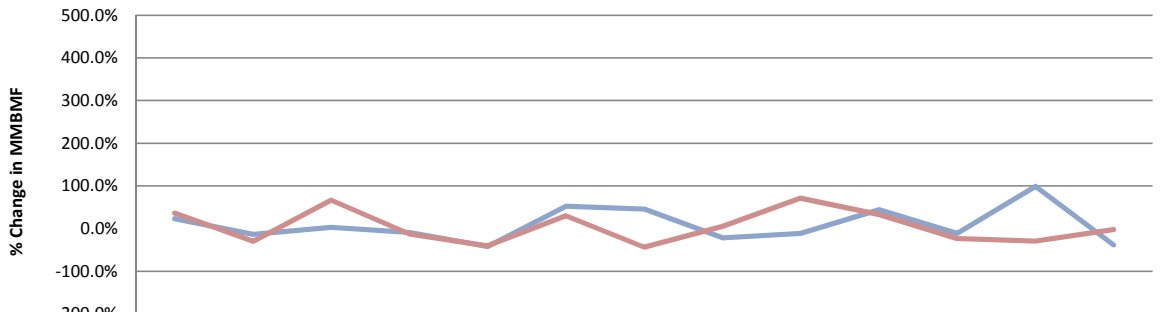
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.



Metro

Percentage Change in Rail MMBMF by Vehicle Type

Light Rail - Siemens



	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17
Siemens 2000 Base - AC	23.7%	-13.4%	3.0%	-8.9%	-41.9%	52.8%	46.2%	-21.8%	-11.3%	44.6%	-10.9%	99.2%	-38.2%
Siemens 2000 GE/ATP - AC	36.2%	-29.7%	67.0%	-12.7%	-40.2%	30.2%	-43.5%	5.4%	71.8%	33.0%	-22.7%	-29.2%	-2.1%

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

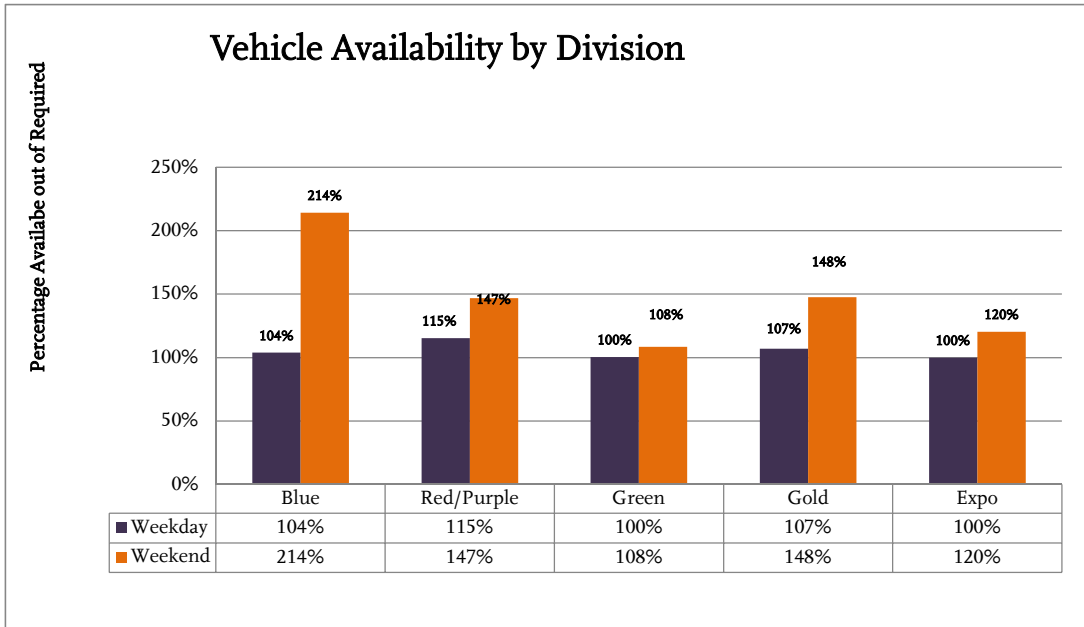
Mean Miles Between Major Failures

	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 – AUGUST 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		72			
KinkiSharyo P3010	26		2	15	41
Nippon Sharyo 2020 - DC	10				5
Nippon Sharyo 865 - DC	36				11
Siemens 2000 Base - AC			28		
Siemens 2000 GE/ATP - AC	22				
TOTALS	94	102	30	65	57

Blue			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	72	75	104%
Weekend	26	56	214%
Red/ Purple			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	64	74	115%
Weekend	40	59	147%
Green			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	22	22	100%
Weekend	14	15	108%
Gold			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	49	53	107%
Weekend	28	41	148%
Expo			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	42	42	100%
Weekend	30	36	120%

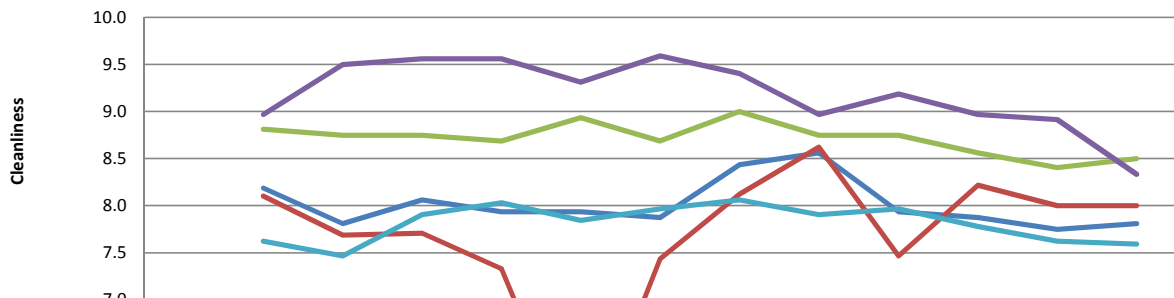


Cleanliness by Vehicle Type



Metro

Rail Cleanliness by General Vehicle Type



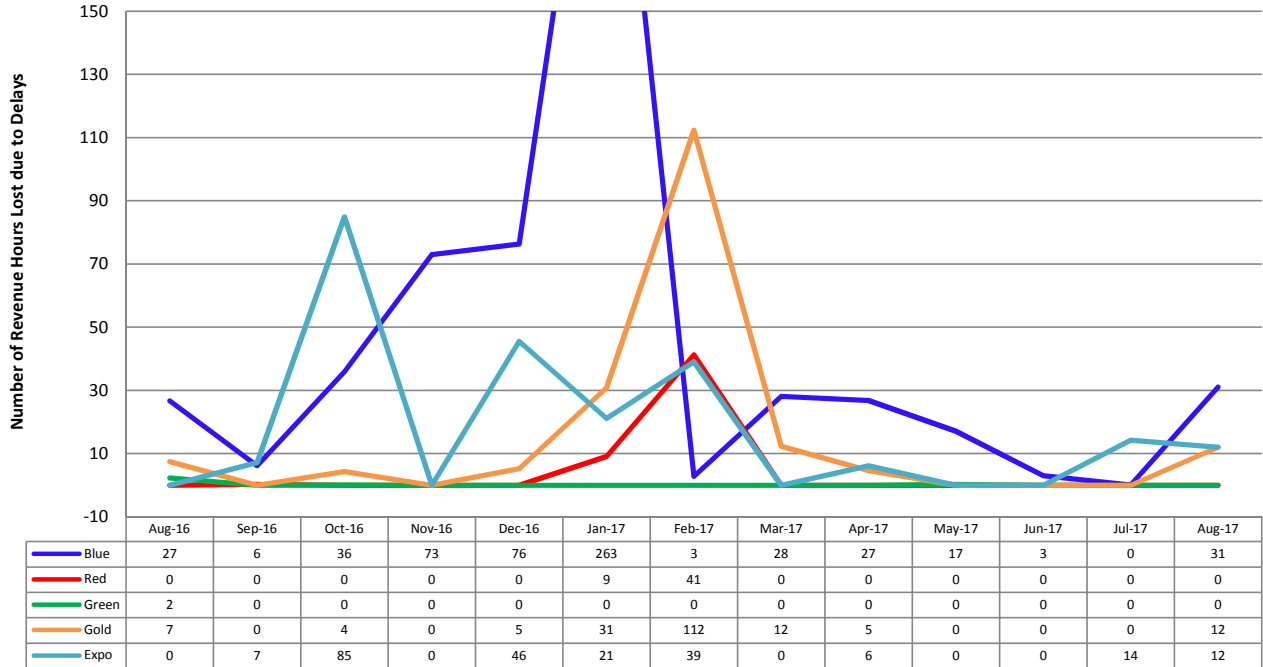
	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17
A650		8.2	7.8	8.1	7.9	7.9	7.9	8.4	8.6	7.9	7.9	7.8	7.8
P2000		8.1	7.7	7.7	7.3	5.3	7.4	8.1	8.6	7.5	8.2	8.0	8.0
P2550		8.8	8.8	8.8	8.7	8.9	8.7	9.0	8.8	8.8	8.6	8.4	8.5
P3010		9.0	9.5	9.6	9.6	9.3	9.6	9.4	9.0	9.2	9.0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

Note: Data Collection Began September 2016

RAIL DELAYS BY CATEGORY - SYSTEMWIDE

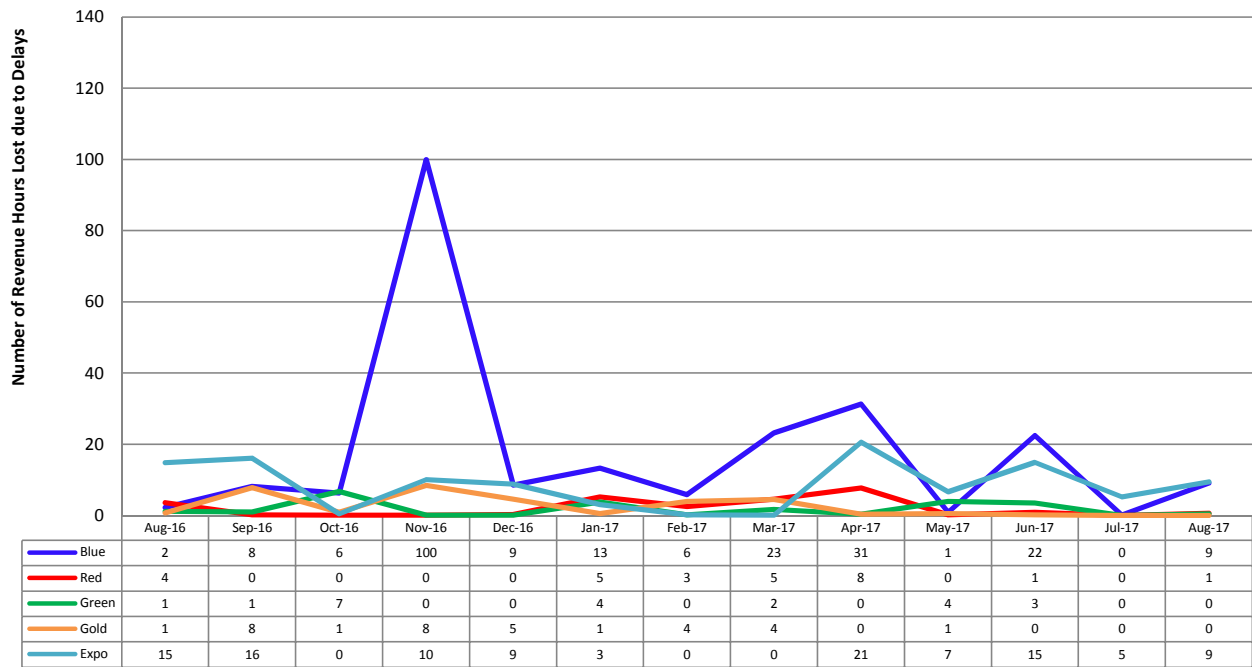
Revenue Hours Lost Related to - ACCIDENTS

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

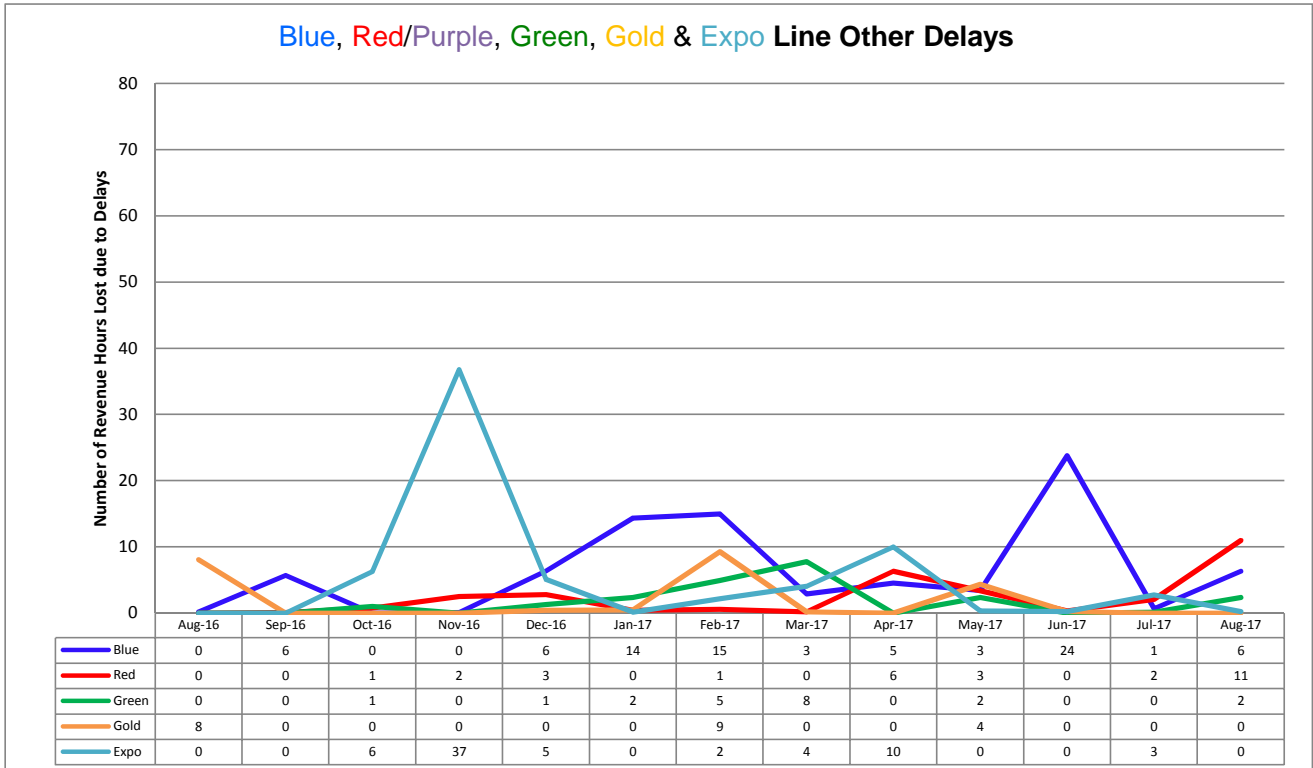


Revenue Hours Lost Related to - OPERATIONS

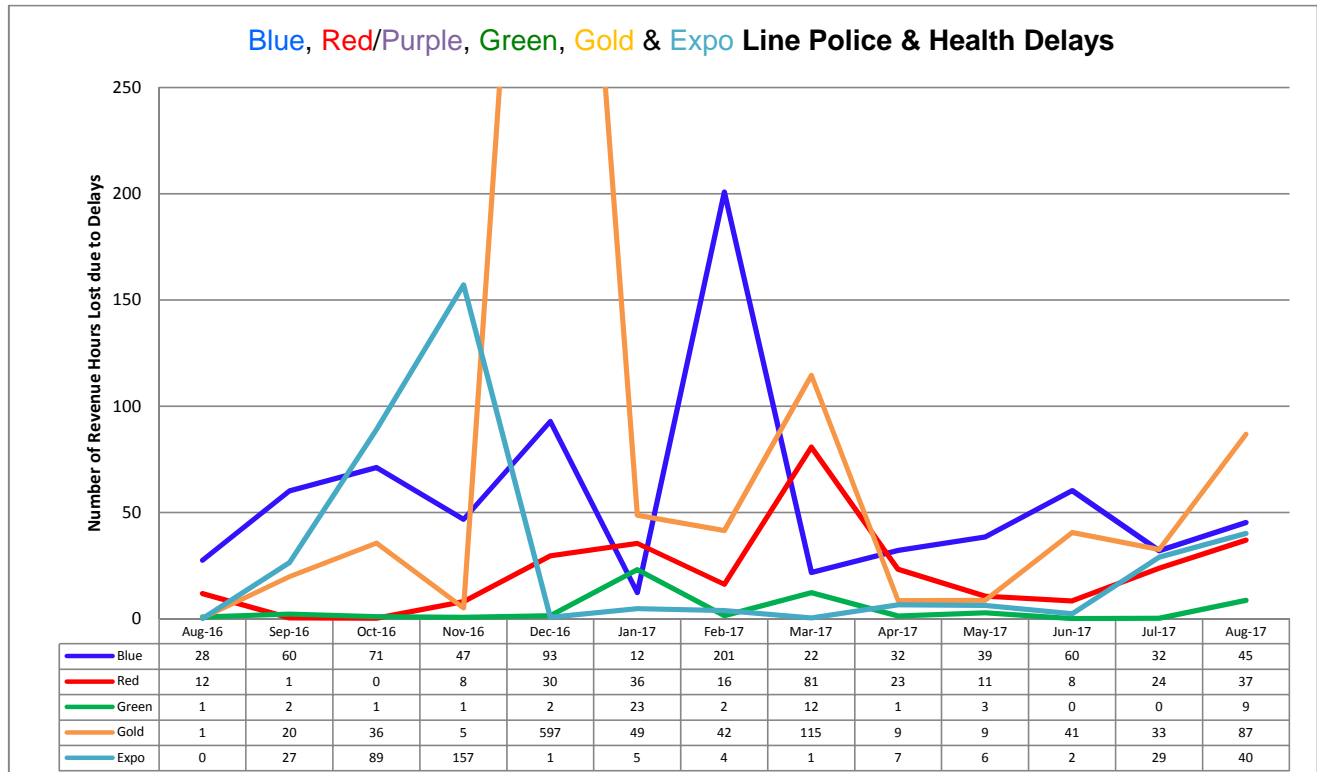
Blue, Red/Purple, Green, Gold & Expo Line Operations Delays



Revenue Hours Lost Related to - OTHER

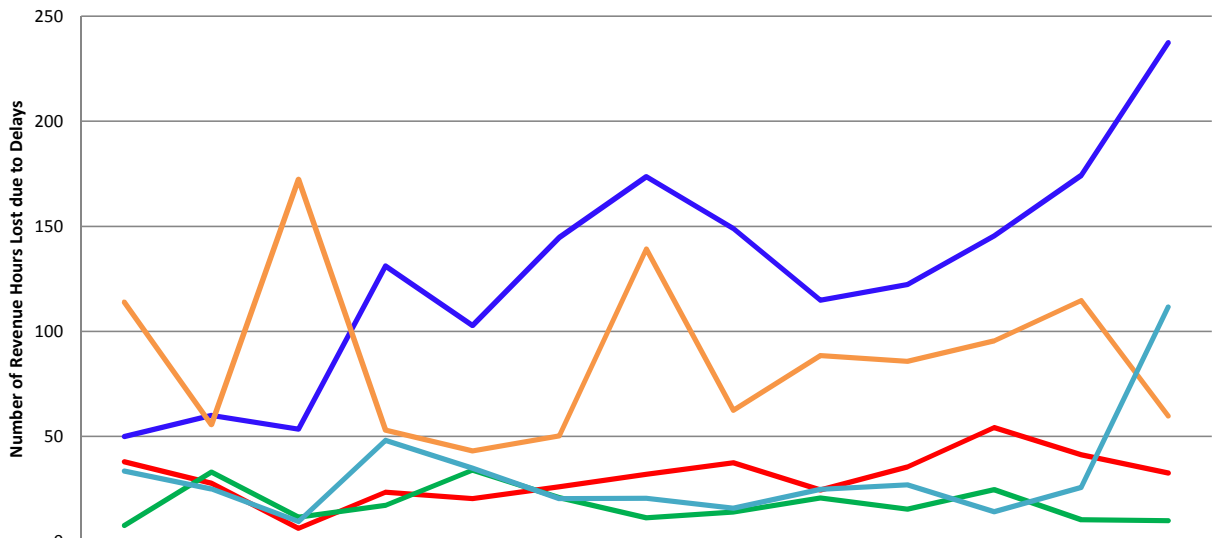


Revenue Hours Lost Related to - POLICE & HEALTH



Revenue Hours Lost Related to - Vehicle Delays

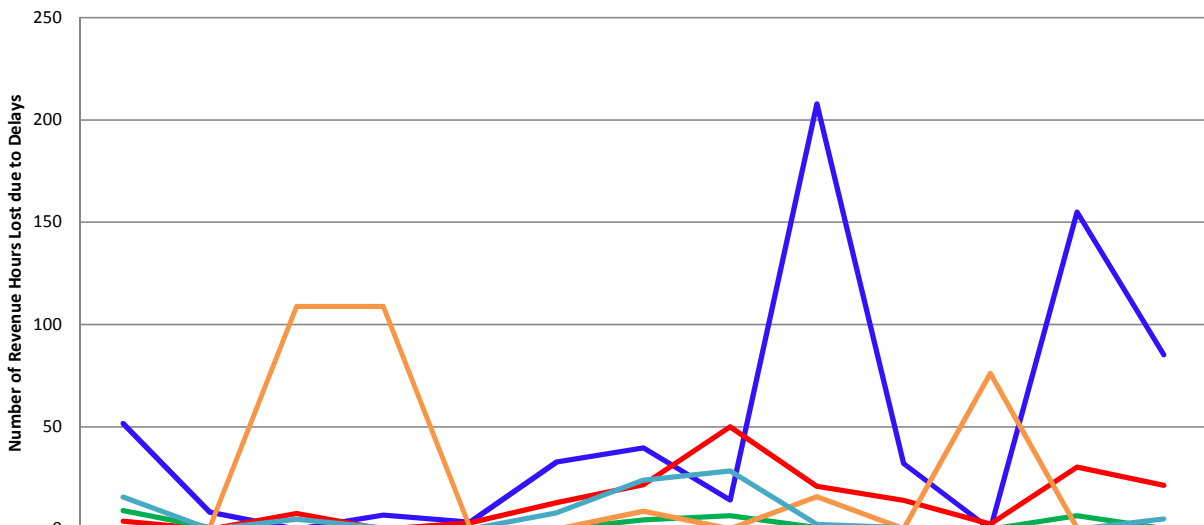
Blue, Red/Purple, Green, Gold & Expo Line Vehicle Delays



	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17
Blue	50	60	54	131	103	145	174	149	115	122	145	174	237
Red	38	28	6	24	20	26	32	38	25	36	54	41	33
Green	8	33	12	17	34	21	11	14	21	15	25	10	10
Gold	114	56	172	53	43	50	139	63	89	86	96	115	60
Expo	34	25	10	48	35	21	21	16	25	27	14	26	112

Revenue Hours Lost Related to - WAYSIDE

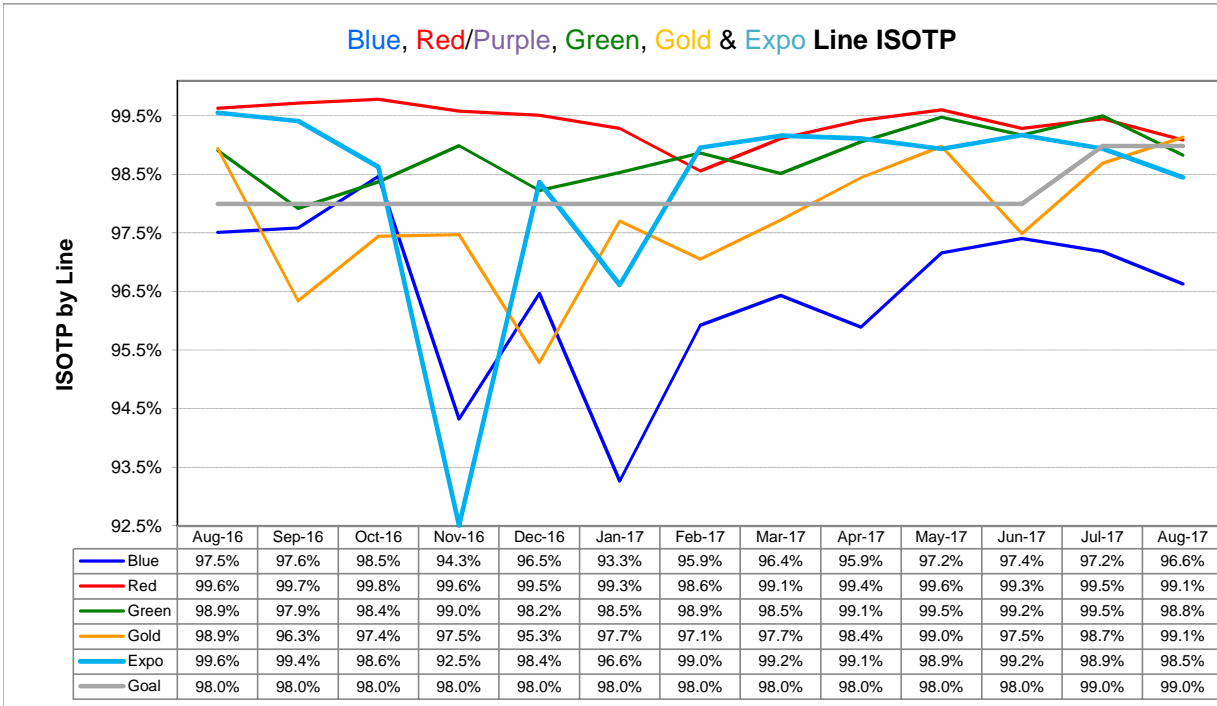
Blue, Red/Purple, Green, Gold & Expo Line Wayside Delays



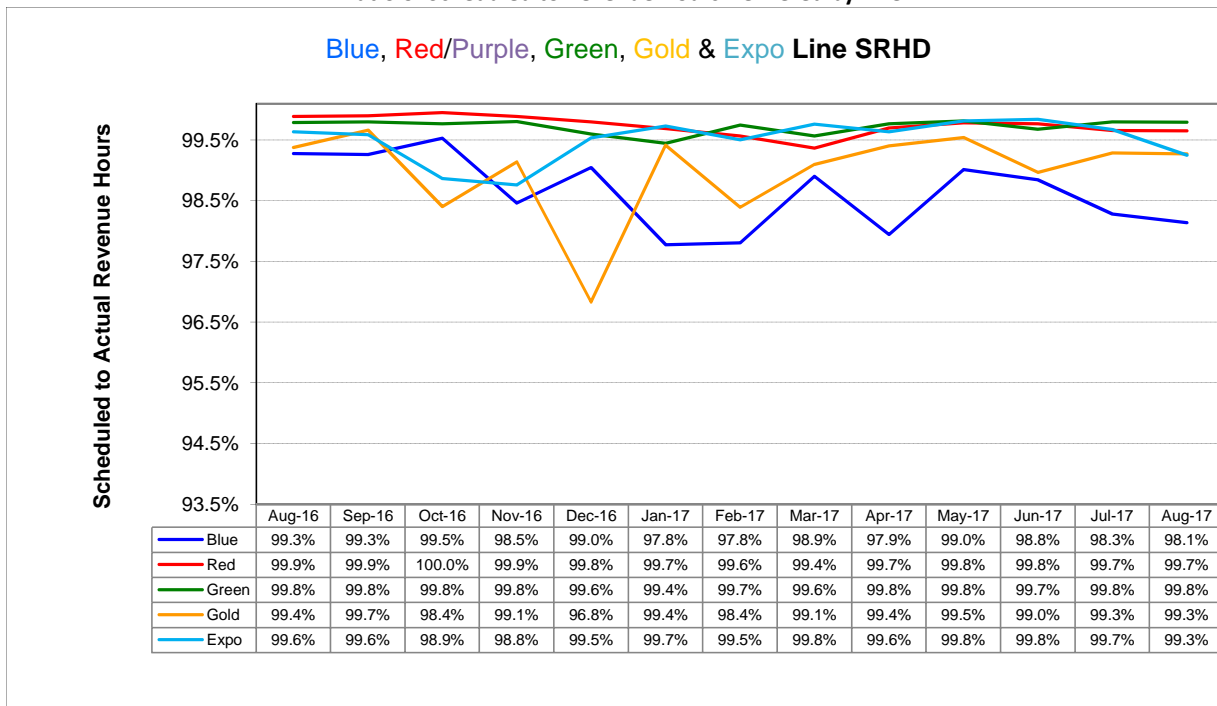
	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17
Blue	52	8	0	7	4	33	40	14	208	32	0	155	85
Red	4	0	8	0	3	13	22	50	21	14	3	30	21
Green	9	1	1	1	1	0	5	7	1	0	0	7	0
Gold	0	1	109	109	1	0	9	0	16	0	76	1	0
Expo	16	0	5	1	0	8	24	28	2	1	0	0	5

Rail Service Performance

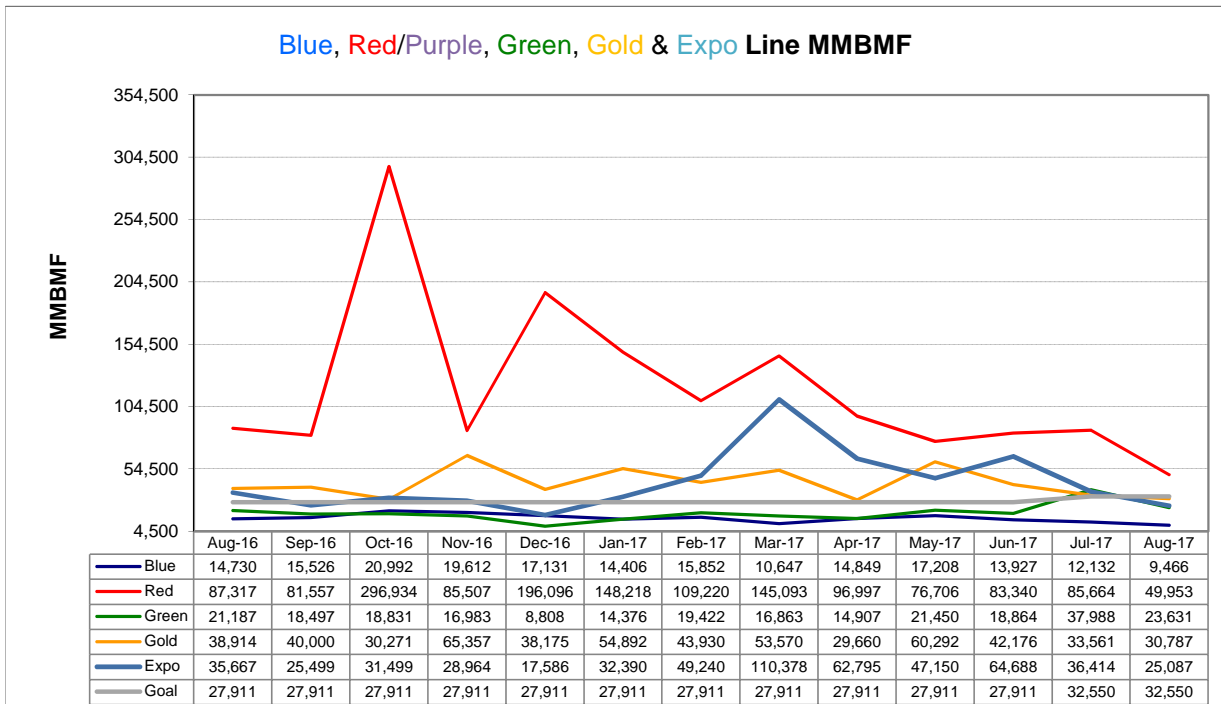
In Service On Time Performance by Line



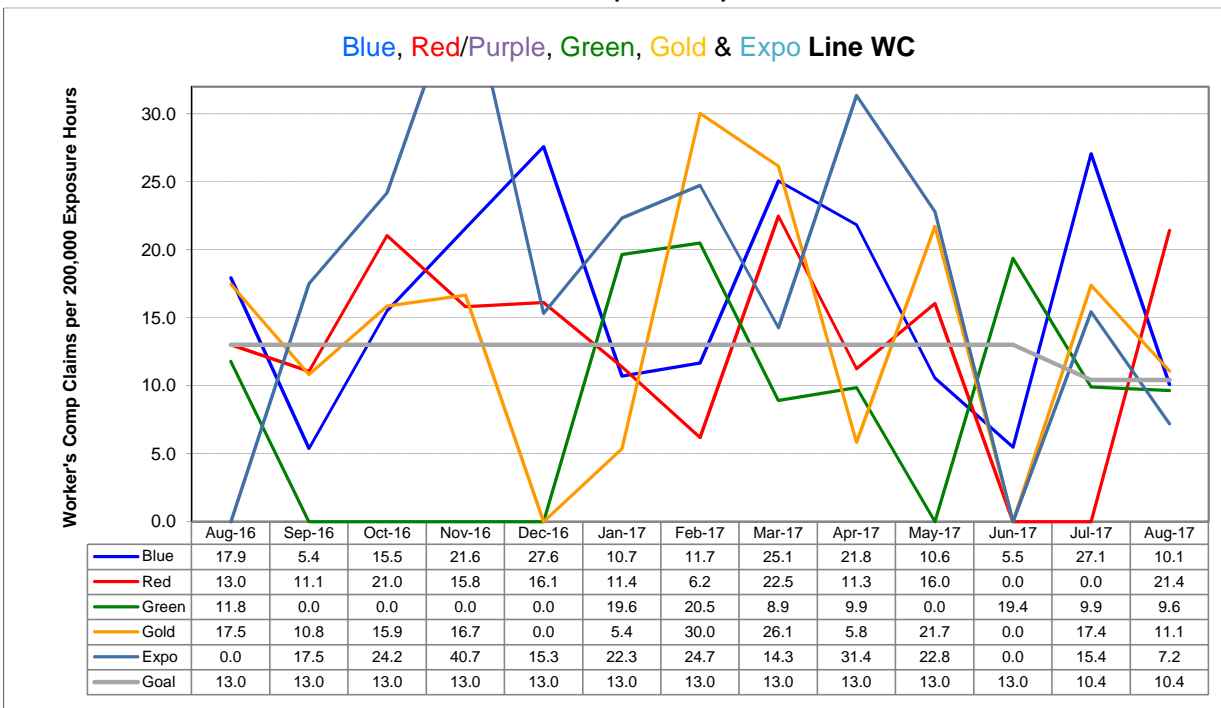
Ratio of Scheduled to Revenue Hours Delivered by Line



Mean Miles Between Mechanical Failures by Line

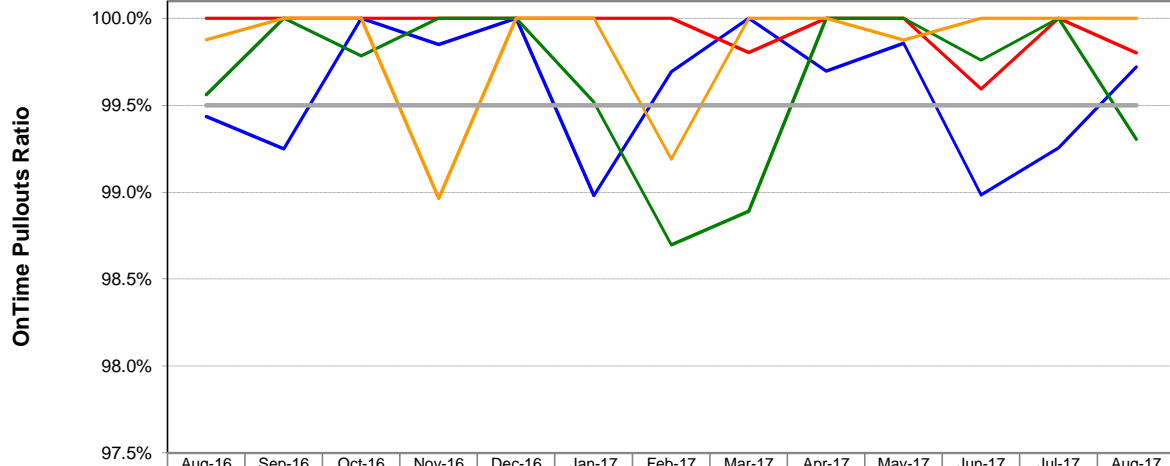


Workers Comp Claims by Line



On-Time Pullouts Ratio by Line

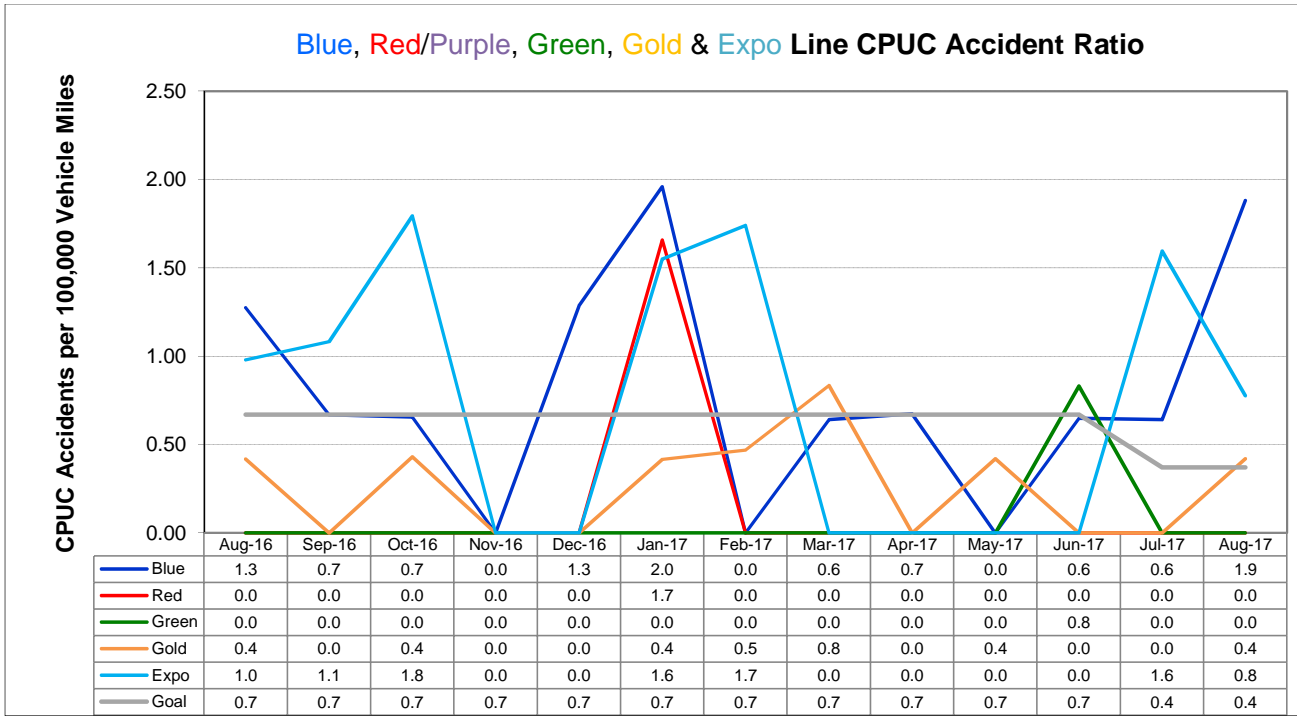
Blue, Red/Purple, Green, Gold & Expo Line OTP



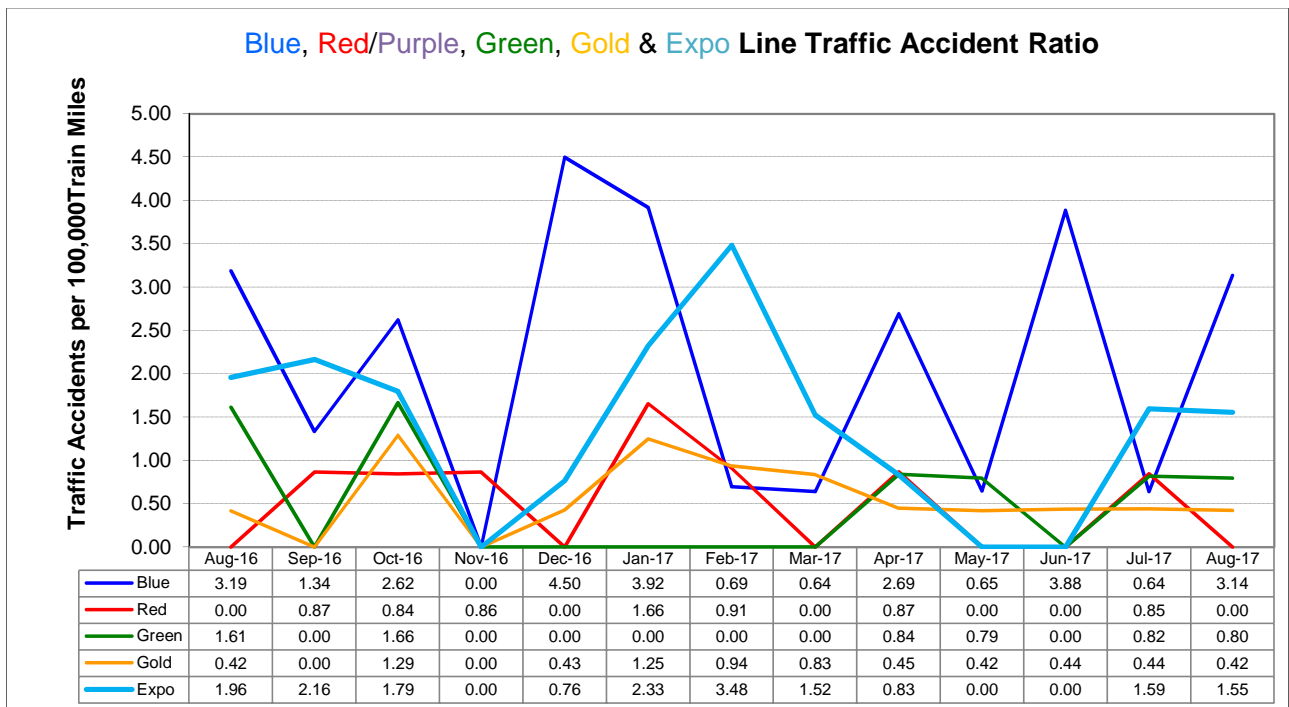
	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17
Blue	99.4%	99.2%	100.0%	99.8%	100.0%	99.0%	99.7%	100.0%	99.7%	99.9%	99.0%	99.3%	99.7%
Red	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.8%	100.0%	100.0%	99.6%	100.0%	99.8%
Green	99.6%	100.0%	99.8%	100.0%	100.0%	99.5%	98.7%	98.9%	100.0%	100.0%	99.8%	100.0%	99.3%
Gold	99.9%	100.0%	100.0%	99.0%	100.0%	100.0%	99.2%	100.0%	100.0%	99.9%	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

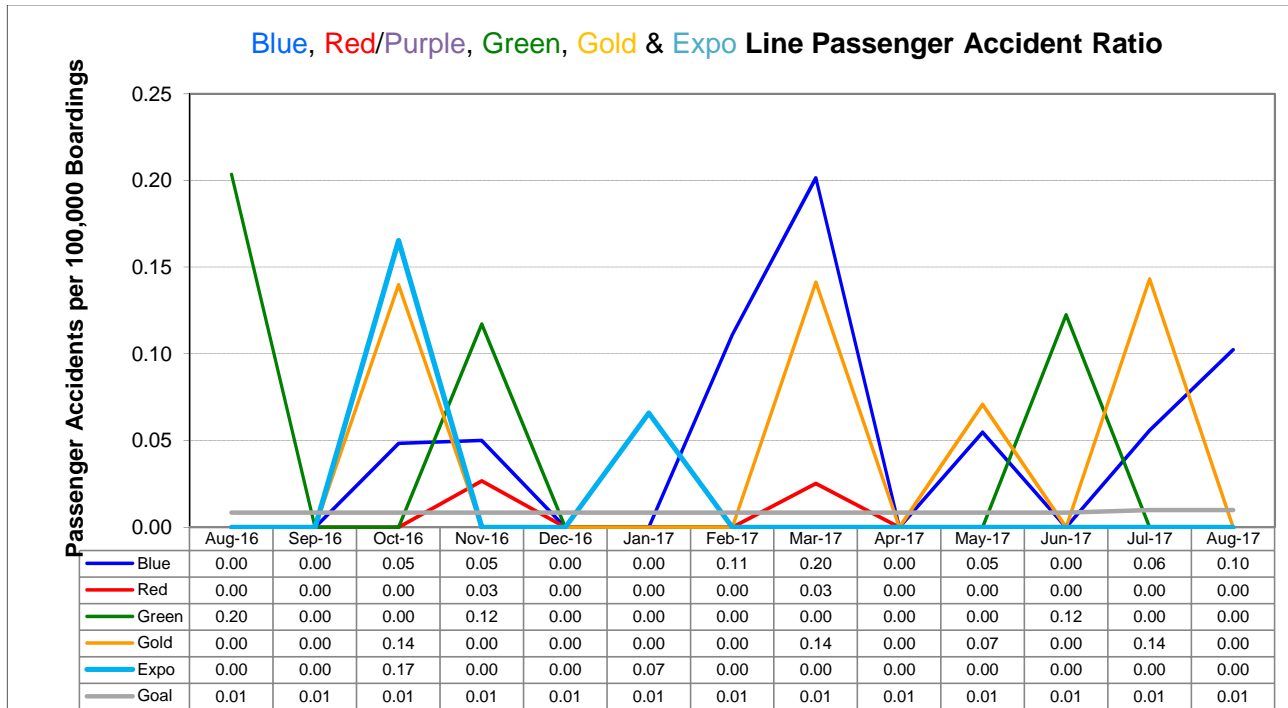
CPUC REPORTABLE ACCIDENTS PER 100,000 TRAIN MILES



TRAFFIC ACCIDENTS PER 100,000 TRAIN MILES



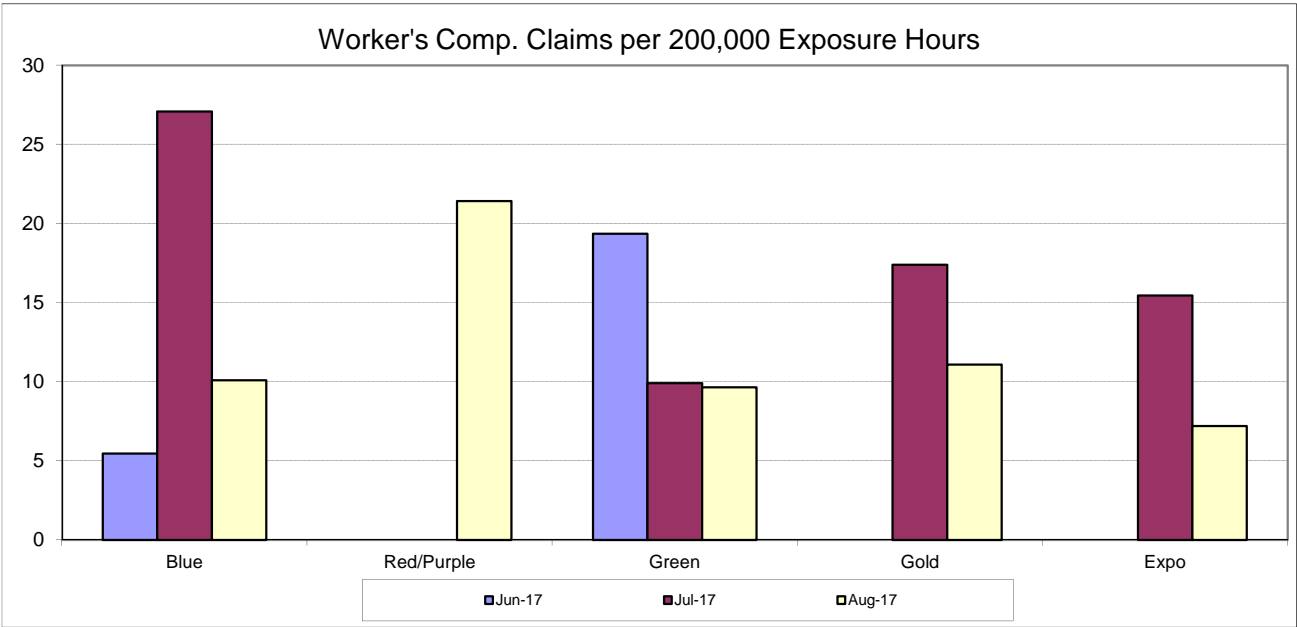
PASSENGER ACCIDENTS PER 100,000 BOARDINGS



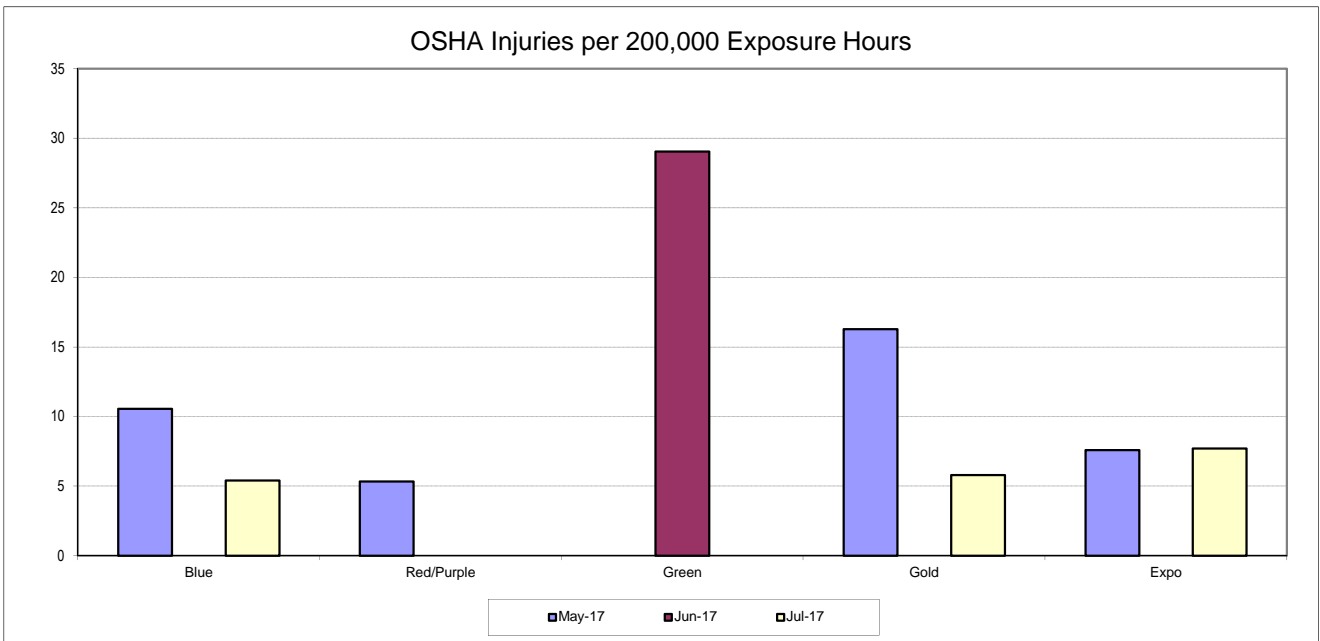
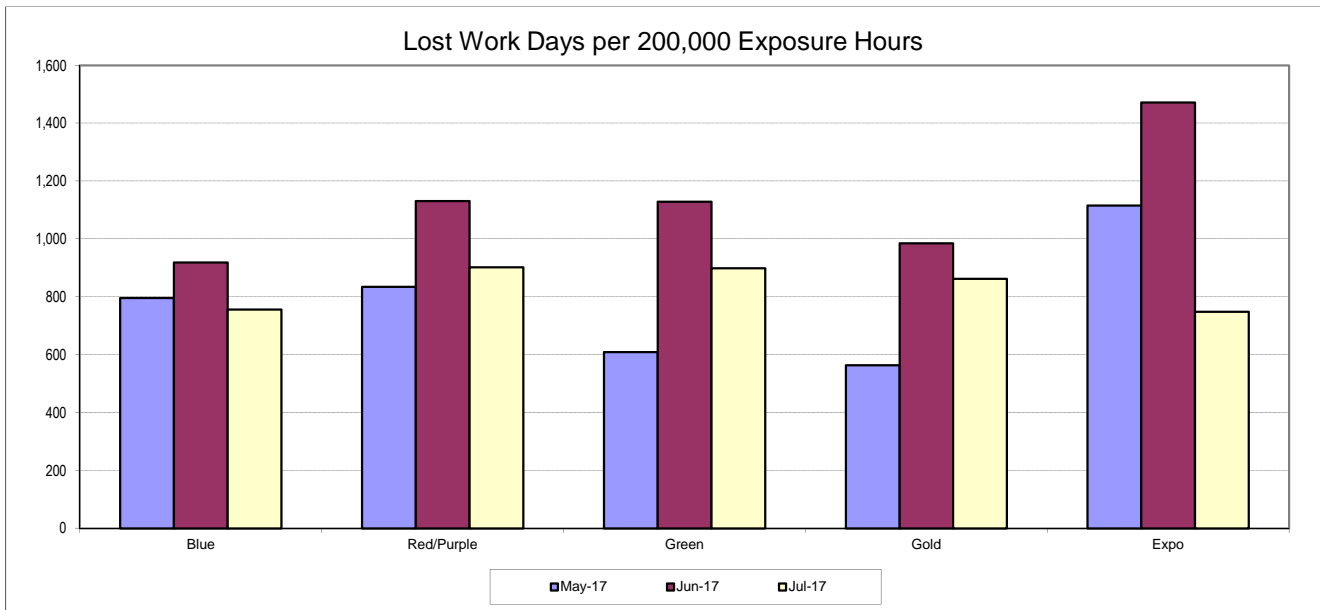
Worker's Comp. Claims

Jun 2017 - Aug 2017

3 Month Comparison

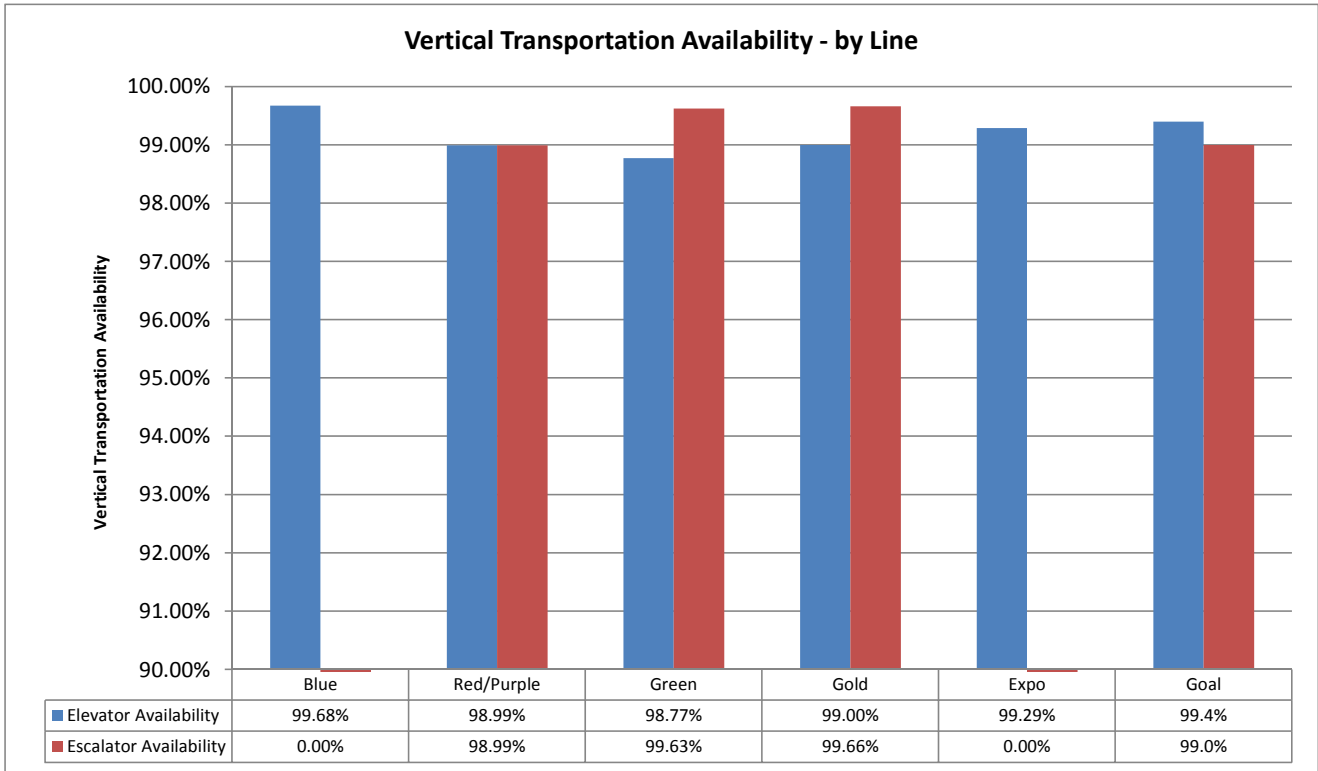


Lost Work Days and OSHA Injuries May 2017 - Jul 2017 3 Month Comparison



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

Systemwide Vertical Transportation Availability by Line



Note: No Escalators at Blue and Expo Lines

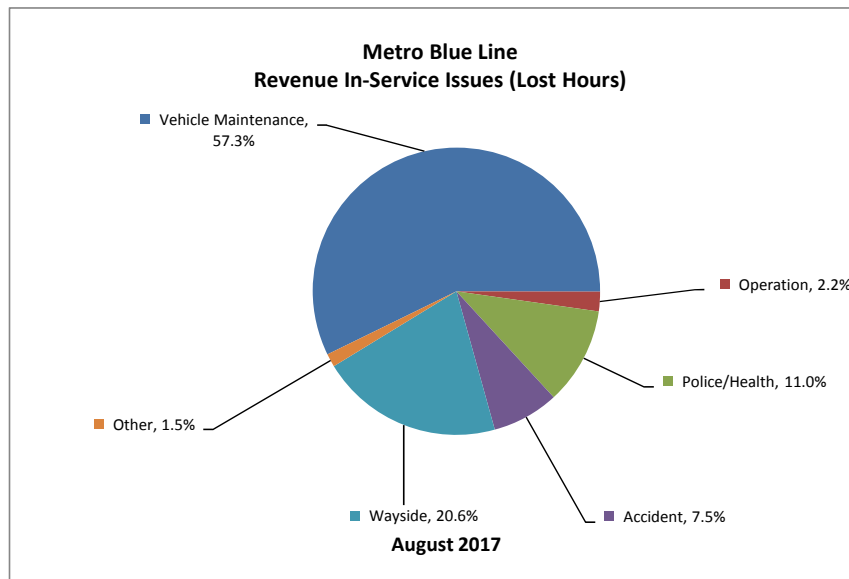
BLUE LINE

Out of a total of 21,401 hours operated, there were approximately 415 total hours of service delays.

August 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	20,987	98.1%
Cancelled + Delayed Hours	415	1.9%
Total Revenue Hours	21,401	100.0%

Summary of the major contributors:	Count	Hours	Percent
Operations	6	9.1	2.2%
Accidents	4	31.1	7.5%
Vehicle Maintenance	71	237.4	57.3%
Wayside	3	85.3	20.6%
Police & Health	11	45.4	11.0%
Other	3	6.3	1.5%
Total	98	414.6	100.0%

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



August 2017 Blue Line major delay contributors were as follows:

Operations Incidents:

8/8/2017 4:42:00 AM - Incident# 2896361 (1 lost trip, 168 lost minutes)
Yard Control reports that train #108 was late because of train breakdown.

8/12/2017 4:39:00 PM - Incident# 2898101 (2 lost trips, 356 lost minutes)
Accident:Other (self emergency breaking).
Train 105
T-490
1080A-1066-1061
Southbound, Track 2 Wardlow station.

8/15/2017 6:40:00 AM - Incident# 2898899 (0 lost trips, 4 lost minutes)
Train Delays departing Metro Center (Split platforms)

8/15/2017 2:54:00 PM - Incident# 2899120 (0 lost trips, 4 lost minutes)
Departing 7th street Metro Center.

8/15/2017 6:04:00 PM - Incident# 2899219 (0 lost trips, 4 lost minutes)
Trains departing 7/MC with service delays.

8/25/2017 8:22:00 AM - Incident# 2902935 (0 lost trips, 10 lost minutes)
From Train#108-603, southbound departures from 7th&Metro, trains were experiencing an average of an 8 to 12 minute delay, working summary M-745(Split Platform).

Accidents:

8/2/2017 5:43:00 PM - Incident# 2894521 (4 lost trips, 671 lost minutes)
Train 110 involved in accident.

8/3/2017 4:41:00 PM - Incident# 2894990 (4 lost trips, 671 lost minutes)
Train-101
T-240
Cars (1060)-1067-1063
Southbound Track #2
Hill Street/Long Beach
Train vs. Auto at Intersection, Hill Street and Long Beach.

8/17/2017 6:56:00 AM - Incident# 2899830 (3 lost trips, 518 lost minutes)
Operator reports of an accident
Train 115
T-281
(1063A)-1087-1061
Washington/Naomi, Trk. 1, northbound

8/25/2017 6:24:00 AM - Incident# 2902896 (0 lost trips, 5 lost minutes)
Train vs. Object
Train 603
T-293
San Pedro Station, Northbound, Track 1

Vehicle Maintenance Incidents:

8/1/2017 7:48:00 AM - Incident# 2893848 (0 lost trips, 11 lost minutes)
Operator reports of self-applying
Train 107
T-050
(235)250-240
124th Street, Trk. 1, northbound

8/1/2017 7:55:00 AM - Incident# 2893851 (0 lost trips, 10 lost minutes)
Operator reports of no movement
Train 117
T-201
(248)234-233
Junction, Trk. 2, southbound

8/1/2017 11:41:00 AM - Incident# 2893947 (2 lost trips, 349 lost minutes)

Operator reports of no movement
Train 110
T-292
113-141-139
Portal, Trk. 1, northbound

8/1/2017 4:11:00 PM - Incident# 2894053 (8 lost trips, 1,358 lost minutes)

Prop Fault No movement
Train 118 Track #2 SB San Pedro
T-194
(1079A)-1037-1074

8/1/2017 9:10:00 PM - Incident# 2894131 (1 lost trip, 168 lost minutes)

Prop-faults with speed restriction
Train 105
T-90
Cars (155)-140-122
Florence tk2 S/B

8/2/2017 5:45:00 AM - Incident# 2894226 (0 lost trips, 16 lost minutes)

Train 103 with T-321 cars 106B coupled 109-117 reports self applying brakes at Venice st track 2.

8/2/2017 6:02:00 AM - Incident# 2894246 (0 lost trips, 21 lost minutes)

Train 113 T-292 reports no cab signal on car 230A coupled to 247-245.

8/2/2017 1:41:00 PM - Incident# 2894896 (1 lost trip, 168 lost minutes)

train 111 reporting Propulsion Faults
Train 111
T-037
LRV'S 229-302-249
Del Amo Station, Track 1, Northbound.

8/2/2017 2:53:00 PM - Incident# 2894480 (1 lost trip, 168 lost minutes)

Prop fault with no movement. (Unknown car)
Train 108
T-249
240-250-235
Track 1, Del Amo N/B

8/3/2017 6:41:00 AM - Incident# 2894711 (3 lost trips, 504 lost minutes)

Train 119 did not make Roll Out due to a mechanical problem. All trips cancelled.

8/3/2017 11:20:00 AM - Incident# 2894847 (0 lost trips, 8 lost minutes)

Train 103 reports MA low with HSCB and emergency lighting at 5th Street station.

Train 103
T-034
LRV'S 151 (160) 104
5th Street, track 2, southbound.

8/3/2017 2:21:00 PM - Incident# 2894910 (1 lost trip, 168 lost minutes)

Train-105
T-201
Cars (229)-302-249
Southbound, Track #2
Florence Station
Propulsion / Dynamic Brakes Re-Occurring able to reset.

8/3/2017 3:02:00 PM - Incident# 2894943 (1 lost trip, 168 lost minutes)

Train-108
T-376
Car ((159)-137-164
Southbound Track #2
Firestone Station
HSCB Trip Unable to clear. Middle Car 137 HVAC B/O.

8/4/2017 3:50:00 PM - Incident# 2895425 (1 lost trip, 166 lost minutes)

Propulsion fault. 229B-302-205

Train 120

T-81

Track 2

Southbound

Firestone station

8/5/2017 8:06:00 PM - Incident# 2895710 (0 lost trips, 9 lost minutes)

Propulsion Faults on Train 109

Train 109

(1075)-1074

T-21

Willowbrook Station Southbound Track #2.

8/7/2017 5:59:00 AM - Incident# 2895989 (2 lost trips, 336 lost minutes)

Train 114 reports a Water Leak from the HVAC on LRV 153A

Train 114

T-201

LRV'S (153A) 166-121

Willow Station , track 2, Northbound.

8/7/2017 12:06:00 PM - Incident# 2896137 (2 lost trips, 358 lost minutes)

Operator reports train had no movement and no faults operating from 117A.

Train 101

LRV'S (117A) 148- 164

Willow Station, Track 1, northbound.

8/7/2017 2:36:00 PM - Incident# 2896199 (1 lost trip, 168 lost minutes)

Propulsion / Dynamic Brakes

Train 105

T-353

(141A)-139-165

Northbound, Track 1 at Hill and

8/7/2017 4:14:00 PM - Incident# 2896236 (1 lost trip, 168 lost minutes)

Propulsion / Dynamic Brakes

Train 108

T-307

(1079)-1073-1072

Northbound, Track 1 Wardlow station.

8/7/2017 4:44:00 PM - Incident# 2899186 (1 lost trip, 168 lost minutes)

Train Delay

Train 119

T-086

(157)-121-153

7Th & Metro Center, Track 2 Southbound.

8/7/2017 5:20:00 PM - Incident# 2896268 (1 lost trip, 168 lost minutes)

Propulsion / Dynamic Brakes

Train 119

T-086

Southbound, track 2 at Florence station.

8/7/2017 6:35:00 PM - Incident# 2896282 (1 lost trip, 168 lost minutes)

Train 102, LRV's 241, 249, and 248.

Wardlow Station, Track 1 north.

Prop fault with speed restriction.

8/7/2017 8:17:00 PM - Incident# 2896300 (5 lost trips, 839 lost minutes)

Propulsion / Dynamic Brakes

Train 602

T-489

(237A)246-233

Southbound, Track 4 at La Cienega station.

8/8/2017 7:59:00 AM - Incident# 2896459 (0 lost trips, 10 lost minutes)
Train 106 reporting having a Propulsion faults not clearing with a speed restriction
Train 106
T-174
LRV'S 235-245-301
Washington Station, track 2, southbound.

8/8/2017 9:53:00 AM - Incident# 2896552 (1 lost trip, 168 lost minutes)
Train 605 reporting ATP failure with no movement.
Train 605
T-174
LRV'S 157-151-101
Metro Center , track 2, southbound.

8/9/2017 6:17:00 AM - Incident# 2896831 (1 lost trip, 168 lost minutes)
Friction Brakes
(114)-136-135
Train 104
T-54
5th Street Station
Northbound, Track 2,

8/9/2017 3:09:00 PM - Incident# 2897016 (1 lost trip, 168 lost minutes)
HSCB fault with Propulsion fault A/B intermittent issue
Train 104
T-37
Cars (1069) 1072
NB, PCH, Track 1

8/9/2017 5:54:00 PM - Incident# 2897107 (3 lost trips, 508 lost minutes)
Doors will not close unknown door with no movement
Train 124
T307
Cars (301),245,235
NB, Tk 1, Del Amo

8/10/2017 4:52:00 AM - Incident# 2897195 (1 lost trip, 168 lost minutes)
Friction Brakes (Self-Applying Brakes)
(101A)-111-110
Train 109
T-200
PCH, Southbound, Track 2

8/10/2017 2:58:00 PM - Incident# 2897404 (1 lost trip, 168 lost minutes)
Doors (1061 was the problem car)
Train 106
T-053
1087B-1066-(1061)
Northbound, Track 1 at Anaheim station.
Doors will not open.

8/10/2017 4:06:00 PM - Incident# 2897417 (1 lost trip, 168 lost minutes)
Other Vehicle System (ATP)
Train 124
T-043
(1072)-1069-1073
Northbound, Track 1 Compton station.

8/10/2017 5:09:00 PM - Incident# 2897458 (5 lost trips, 839 lost minutes)
Doors will not close.
Train 101
T-075
(163)-122-153
Southbound, Track 2 at 7Th street Metro Center.

8/13/2017 5:07:00 AM - Incident# 2898176 (0 lost trips, 5 lost minutes)

Train 109 reporting dynamic brake fault on LRV 234
Train 109
T-236
LRV'S 237 (234) 242
Transit Mall Station, northbound.

8/14/2017 7:13:00 AM - Incident# 2898438 (1 lost trip, 173 lost minutes)

Train 101 reporting a Propulsion Fault unable to clear it. Speed restriction.
Train 101
T-262
LRV'S (236) 233-248
Slauson Station, track 2, southbound.

8/14/2017 3:32:00 PM - Incident# 2898679 (2 lost trips, 343 lost minutes)

Propulsion / Dynamic Brakes, cars #(242A)-235-230
Train #666
T-135
7th and Metro Portal, Track #002, southbound.

8/14/2017 3:52:00 PM - Incident# 2898700 (5 lost trips, 848 lost minutes)

Doors, Cars #1020A)-1041-1052
Train #104
T-005
Pico Station, Track #002, Southbound.

8/14/2017 6:05:00 PM - Incident# 2898734 (1 lost trip, 168 lost minutes)

Train 107, LRV's (131A), 162, and 116.
Willow Station, Track 2 north.
Brake for A truck will not release on 131.

8/15/2017 11:42:00 AM - Incident# 2899037 (2 lost trips, 336 lost minutes)

Friction Brakes
(240)-247-229
Train 118
T-335
Washington, Northbound, Track 1

8/16/2017 5:06:00 AM - Incident# 2899299 (1 lost trip, 168 lost minutes)

Friction Brakes
(101A)-109-120
Train 605
T-26
Del Amo, Southbound, Track 2

8/16/2017 2:20:00 PM - Incident# 2899559 (1 lost trip, 168 lost minutes)

Train-102
T-034
Cars (301A)-302-238
Northbound,Track #1
Wardlow Station

Propulsion / Dynamic Brakes unable to clear.

8/16/2017 5:08:00 PM - Incident# 2899707 (0 lost trips, 6 lost minutes)

Train-108
T-069
Cars (235A)-240-230
Southbound, Track #2
7th/Metro Center
Other Vehicle System, unable to detect.

8/16/2017 5:24:00 PM - Incident# 2899648 (1 lost trip, 168 lost minutes)

Train-118
T-490
Cars (1068)-1063-1061
Northbound , Track #1
Compton Station
Auto Train Protection (Speed Limit)

8/17/2017 1:13:00 AM - Incident# 2899730 (0 lost trips, 8 lost minutes)

Train has no cab signal.
Train 119, T-326
Track 2, Slauson, South

8/17/2017 4:18:00 AM - Incident# 2902833 (0 lost trips, 6 lost minutes)

Train Operator T-54 reports re-occurring propulsion faults.
Train 105
T-54
Cars (120)-109-145
Blue Line Yard, Northbound, Track 1

8/17/2017 5:51:00 AM - Incident# 2899803 (0 lost trips, 13 lost minutes)

Train operator reports of no movement
Train 605
T-123
135-137-153
Pico Station, Trk. 2, southbound

8/17/2017 5:06:00 PM - Incident# 2900075 (1 lost trip, 168 lost minutes)

M-171 recommend to take train 102, LRV 1069 out of service due to door problems.
Train 102
T-307
LRV'S 1072-(1069)-1073
Firestone Station, track 1 , northbound.

8/18/2017 1:19:00 PM - Incident# 2900435 (1 lost trip, 173 lost minutes)

Operator reports of self-applying brakes
Train 117
T-522
(235A)229-244
Wardlow station, Trk. 1, northbound

8/18/2017 2:20:00 PM - Incident# 2900473 (1 lost trip, 166 lost minutes)

Doors fail to open when depressing the open button from the operating cab.
Train #117
T-522
Cars #(246B)-234-248
S/Bound Florence Station Track 2.

8/21/2017 12:20:00 AM - Incident# 2901000 (2 lost trips, 355 lost minutes)

Self-applying Brakes
Train 652
T-150
(1031)-1053-1046
Portal, Track 1, Northbound

8/21/2017 7:22:00 AM - Incident# 2901096 (2 lost trips, 349 lost minutes)

Friction Brakes
Train 118
T-132
(231)-240-245
Maple Interlocking, Track 1, Northbound

8/21/2017 3:15:00 PM - Incident# 2901404 (1 lost trip, 168 lost minutes)

Propulsion fault 1074A-1071-1061
Train 103
T-187
Track 1
Northbound
Del Amo station

8/21/2017 3:46:00 PM - Incident# 2901417 (1 lost trip, 168 lost minutes)

In 55 cab signal territory, train can only travel at 37MPH
1068A-1065-1066
Train 120
T-072
Track 2
Southbound
Vernon station

8/22/2017 5:28:00 PM - Incident# 2901887 (1 lost trip, 168 lost minutes)

Friction Brakes
Train 121
T-59
Cars 1066-(1065)-1067
Florence N/B

8/23/2017 3:25:00 PM - Incident# 2902302 (1 lost trip, 168 lost minutes)

Train with Propulsion Fault, reduced speed of 35 mph on car 235.
Train #123
Compton, track #1, northbound
235 241 249

8/24/2017 5:55:00 AM - Incident# 2902442 (2 lost trips, 336 lost minutes)

Car 248A Self applying friction brakes
Train 104
T-264
Compton Station track 2 southbound
Consist 28-241-235

8/24/2017 1:47:00 PM - Incident# 2903095 (0 lost trips, 12 lost minutes)

Operator reports master control handle is very hard.
Train # 104
T-37
Willowbrook, track #2, southbound
(233A) 250 234

8/25/2017 8:04:00 AM - Incident# 2902931 (1 lost trip, 176 lost minutes)

Self applying friction brakes.
Train#116
T#132
(1070A),1075,1061
Track#2,Artesia,Southbound

8/25/2017 8:04:00 AM - Incident# 2903031 (1 lost trip, 176 lost minutes)

Self applying friction brakes; to hard to release.

Train#116
T#132
(1070A),1075,1061
Track#2,Artesia,Southbound

8/25/2017 12:37:00 PM - Incident# 2903055 (1 lost trip, 176 lost minutes)

Misaligned doors on car 1074 doors 3/4.

Train#119
T#522
1071,(1074),1072
Track#2,Florence Station,Southbound

8/25/2017 2:54:00 PM - Incident# 2903129 (0 lost trips, 12 lost minutes)

Train-108
T-549
Cars (1071)-1074-1070
Southbound, Track #2
San Pedro Station
No Fault - No Movement

8/26/2017 11:25:00 AM - Incident# 2903285 (0 lost trips, 7 lost minutes)

Train 102 reports unclearable Propulsion Faults with a Speed Restriction.
Train 102
T-259
LRV'S 158-149-109
Compton Track 2, southbound

8/26/2017 2:46:00 PM - Incident# 2903326 (1 lost trip, 174 lost minutes)

Propulsion fault consist 167,123,141.
Del Amo Station
Train #693, T-529, track #1, northbound.

8/27/2017 10:31:00 AM - Incident# 2903492 (1 lost trip, 157 lost minutes)

HSCB trip/propulsion fault/no movement,also broken pantagraph motor on affected car.
Train#104
T#522
(1067B),1080,1069
Track#2,Southbound,San Pedro Station

8/27/2017 3:02:00 PM - Incident# 2903536 (1 lost trip, 144 lost minutes)

Propulsion fault unable to clear. 241A-247
Train 114
T-548
Track 2
Southbound
Imperial station

8/28/2017 10:29:00 AM - Incident# 2903859 (1 lost trip, 168 lost minutes)

Propulsion / Dynamic Brakes
1070-1071-1082
Train 104
T-026
Artesia, Northbound, Track 1

8/28/2017 2:32:00 PM - Incident# 2903990 (0 lost trips, 4 lost minutes)

Hot car HVAC breaker keeps tripping.
Train 101
T-505
(119A)-133-162
Northbound, Track 1 Willowbrook station.

8/28/2017 9:27:00 PM - Incident# 2904084 (0 lost trips, 20 lost minutes)

No Fault - No Movement
Train 603
T-528
137-149-158
North bond on the departure track yard limits.

8/29/2017 9:26:00 AM - Incident# 2904253 (0 lost trips, 14 lost minutes)

Train 104 reports a noise under the train.
Train 104
T-026
LRV'S (150A) 100-140
Washington Station, Track 2, northbound.

8/30/2017 3:07:00 PM - Incident# 2904961 (1 lost trip, 168 lost minutes)

Train-108
T-548
Cars (233B)-246-244
Southbound, Track #2
Slauson Station
Propulsion / Dynamic Brakes unable to clear.

8/30/2017 3:48:00 PM - Incident# 2904977 (0 lost trips, 15 lost minutes)

Train-123
T-086
Cars (231A)-301-234
Northbound, Track #1
Washington Station

Doors not properly closing, no movement.

8/31/2017 10:38:00 AM - Incident# 2905325 (1 lost trip, 168 lost minutes)

Reoccurring self applying friction brakes, unknown car number.

Train # 605
T-89
Departing Santa Monica, track #3, northbound
(244 236 240)

Wayside Incidents:

8/13/2017 12:02:00 PM - Incident# 2898246 (8 lost trips, 1,368 lost minutes)

Train 101 reports no power departing Grand Station. OCS damage tracks 1 & 2 from Grand Station to San Pedro Station.

8/30/2017 5:52:00 PM - Incident# 2905046 (22 lost trips, 3,691 lost minutes)

BO2 opened at Pico TPSS.

8/31/2017 12:04:00 PM - Incident# 2905360 (0 lost trips, 57 lost minutes)

Loss of power from Firestone Station to Willowbrook Station

Police & Health Incidents:

8/1/2017 12:52:00 PM - Incident# 2893964 (1 lost trip, 175 lost minutes)

Field Supervisor (R-136) reports of an unconscious person on the train.

8/1/2017 4:28:00 PM - Incident# 2894062 (0 lost trips, 12 lost minutes)

Ill passenger (heat exhaustion)
Train 111
Track #2 SB Vernon
T-115
(115A)-134-108

8/2/2017 2:36:00 PM - Incident# 2894433 (1 lost trip, 168 lost minutes)

Female patron reported getting assaulted on board the train.
Train 107
T-115
111-161-110
Track 1 103rd St. Station.

8/3/2017 10:09:00 AM - Incident# 2894817 (0 lost trips, 10 lost minutes)

T-26 reports that a patron was under the influence (10-390) R-105 reports patron refusing to exit train and he was non responsive.

8/8/2017 1:29:00 PM - Incident# 2896576 (1 lost trip, 168 lost minutes)

Train 119 reporting Blood on LRV 1073 by doors 5/6.
Train 119
T-355
LRV'S (1073) 1072-1069
Transit Mall Station, northbound.

8/9/2017 6:47:00 PM - Incident# 2898737 (0 lost trips, 6 lost minutes)

Disturbance on board the train
T-326
Train 105
Cars (136a) 135, 108
NB, Track 1, Florence Station

8/12/2017 12:40:00 PM - Incident# 2898053 (1 lost trip, 174 lost minutes)

Female claims that she got raped at an unknown platform on the blue line.

8/14/2017 10:01:00 AM - Incident# 2898515 (2 lost trips, 336 lost minutes)

Long Beach Police reports that track 2 is blocked at Long Beach and 10th Street due to a traffic accident.

8/18/2017 9:41:00 PM - Incident# 2900567 (1 lost trip, 166 lost minutes)

Transit Mall Station Train #107, Cars #145-109-101, berthed on the platform. Operator T-021, reports blood inside Car #109 and on the platform with no victim.

8/24/2017 1:31:00 PM - Incident# 2902643 (1 lost trip, 168 lost minutes)

Passenger reported as passed out on train #101 at Willowbrook Station.

Train #101

T-293

Willowbrook Station, track #2, southbound

(1061A) 1067 1070

8/29/2017 8:45:00 PM - Incident# 2904571 (8 lost trips, 1,342 lost minutes)

Trespasser Vs Train

Train 104

T-97

Cars (230)-240-236

Wardlow station N/B

Other Incidents:

8/2/2017 4:15:00 AM - Incident# 2894193 (0 lost trips, 20 lost minutes)

Trains pulling out of yard late. Delays noted on the delays tab.

8/16/2017 10:02:00 PM - Incident# 2899708 (2 lost trips, 336 lost minutes)

Passenger Holding Door on Train 118

Train 118

(149A)-122

T-72

Grand Station T rack #1. Northbound Track #1.

8/17/2017 5:25:00 AM - Incident# 2899772 (0 lost trips, 22 lost minutes)

Train operator reports of a passenger holding the doors

Train 102

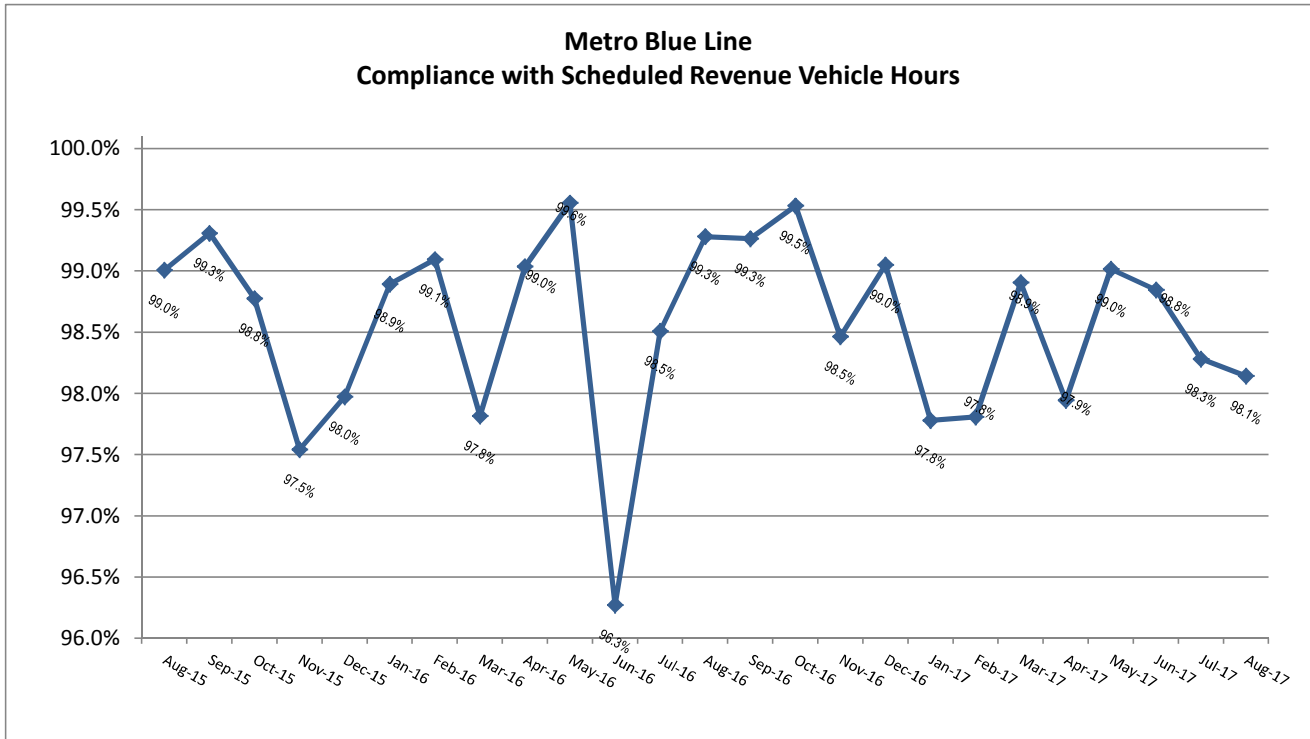
T-125

1081-1073-1076

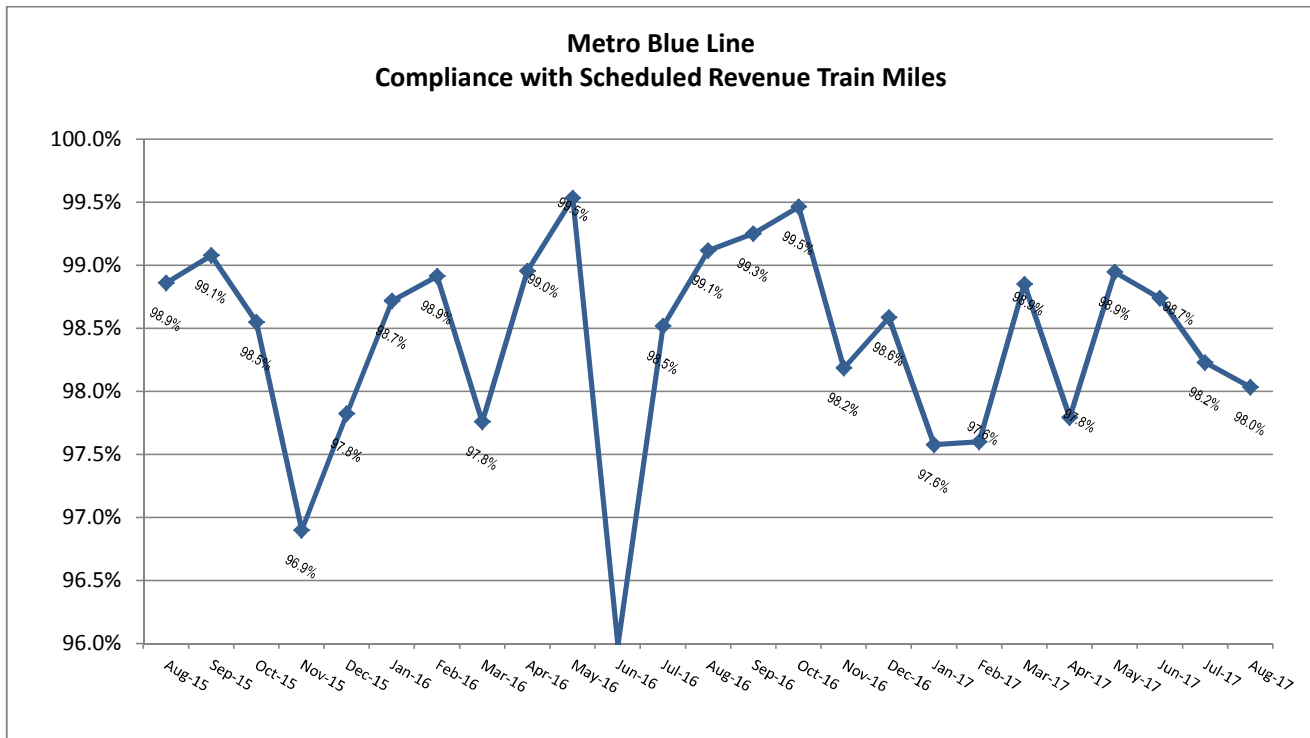
Firestone Station, Trk. 1, southbound

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

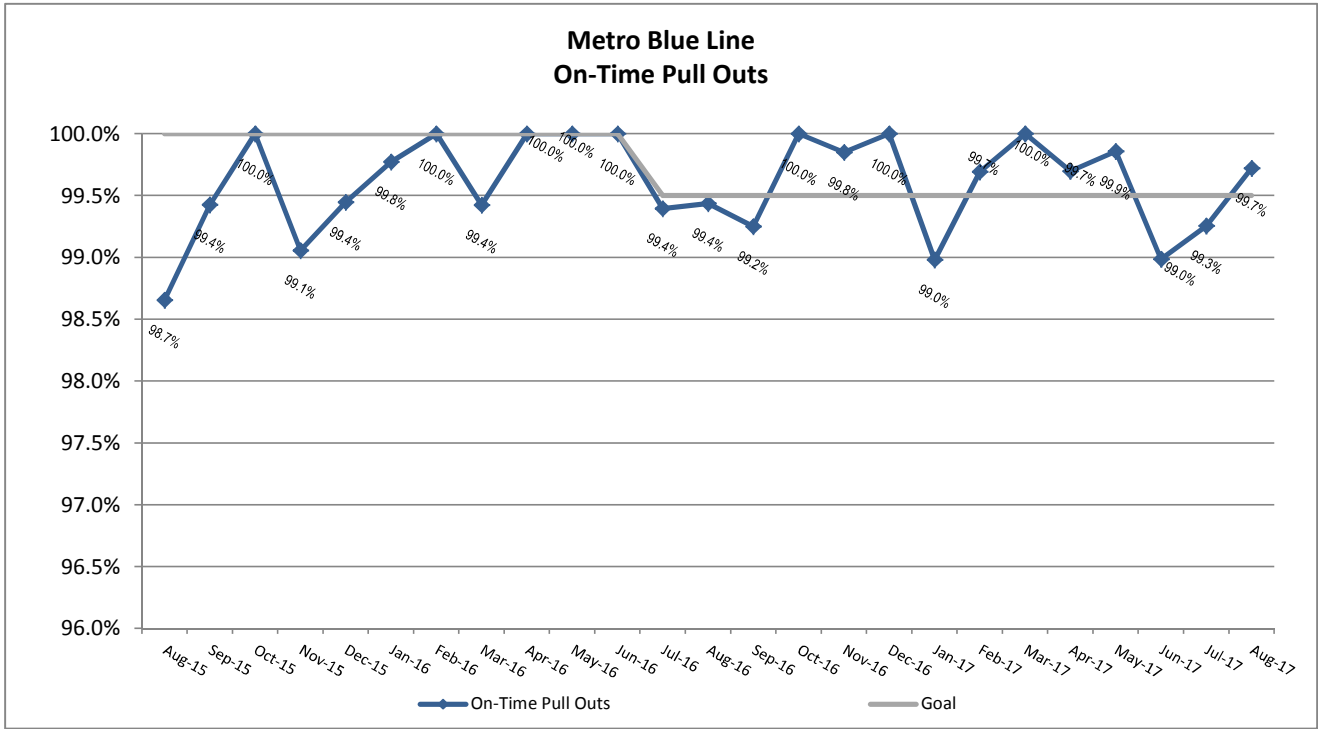
COMPLIANCE WITH SCHEDULED VEHICLE HOURS



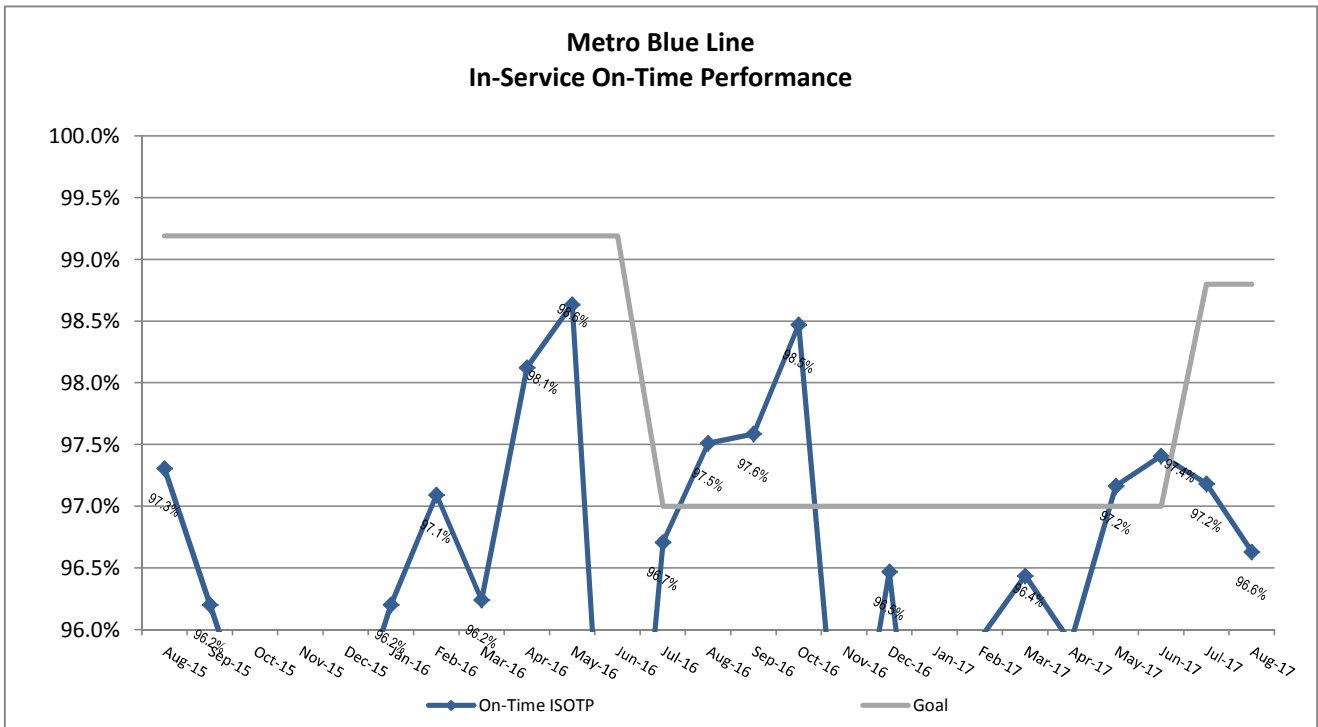
COMPLIANCE WITH SCHEDULED TRAIN MILES



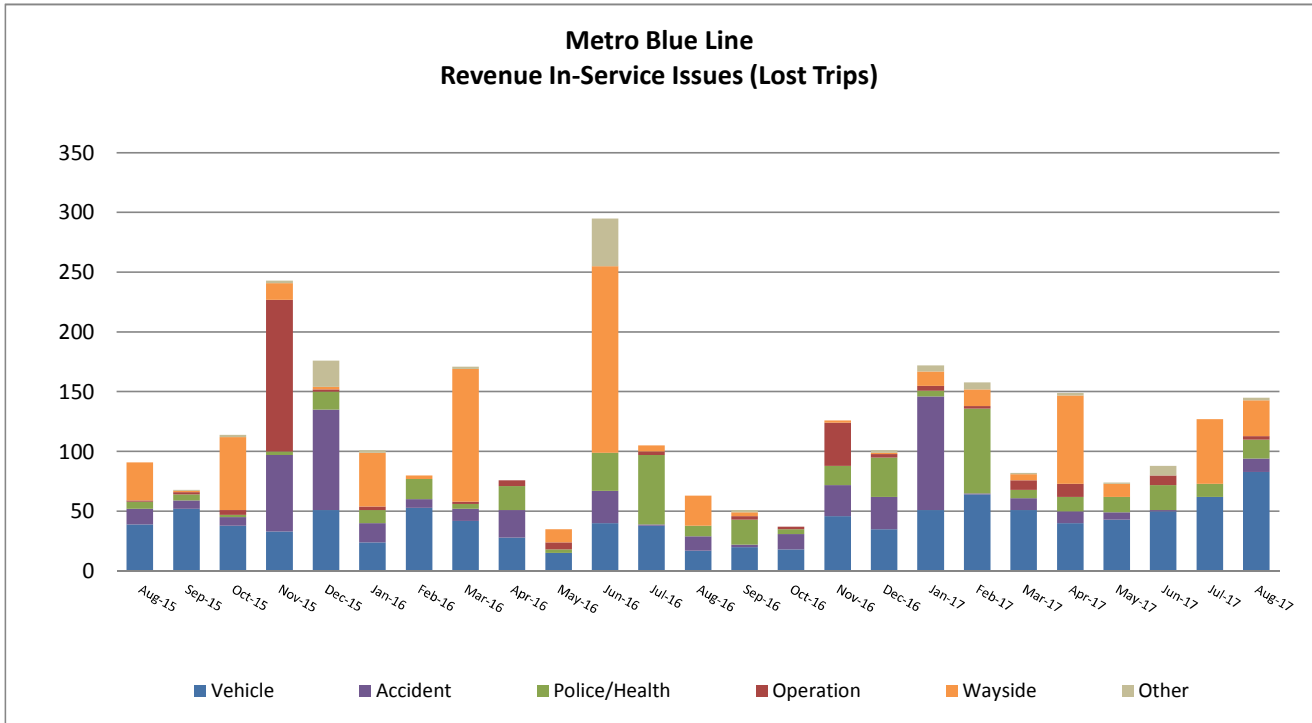
ON-TIME PULL OUTS



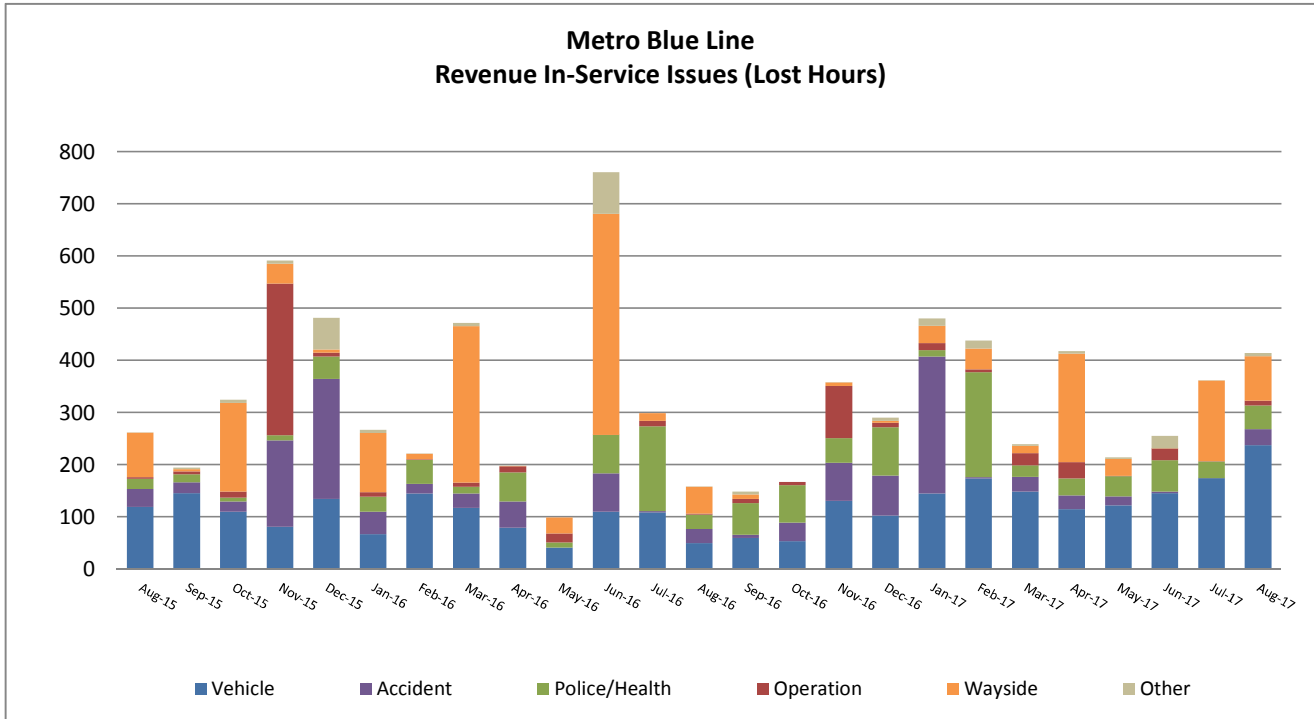
IN-SERVICE ON-TIME PERFORMANCE CHART



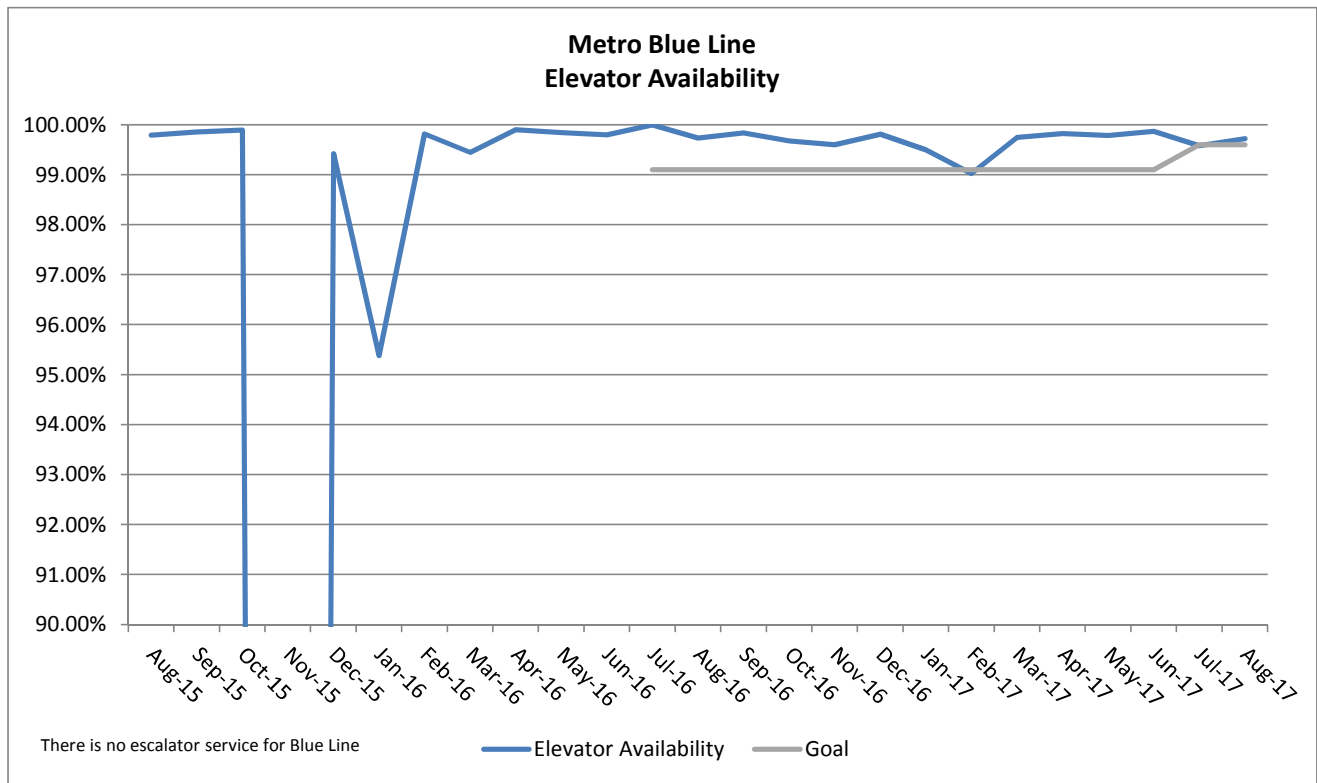
LOST TRIPS



LOST HOURS



VERTICAL TRANSPORTATION AVAILABILITY



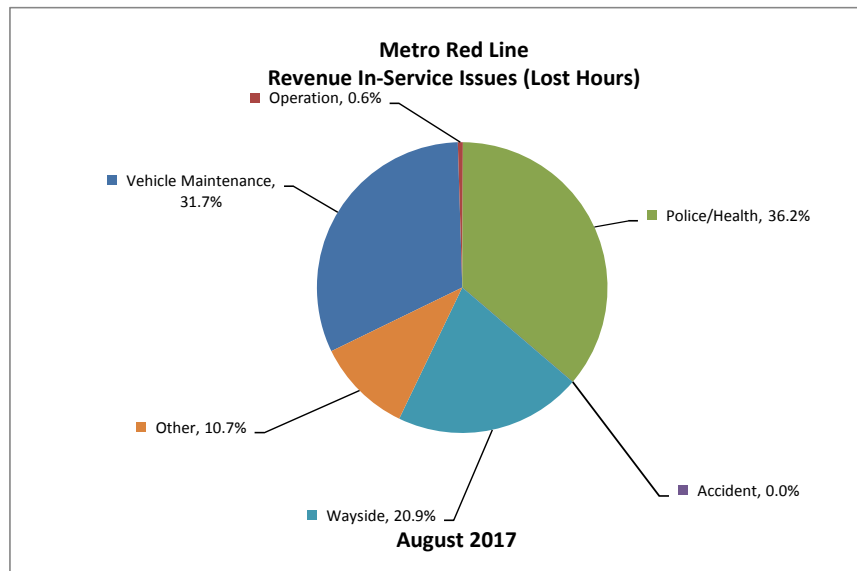
RED LINE

Out of a total of 27,497 hours operated, there were approximately 103 total hours of service delays.

August 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	27,394	99.6%
Cancelled + Delayed Hours	103	0.4%
Total Revenue Hours	27,497	100.0%

Summary of the major contributors:	Count	Hours	Percent
Operations	2	0.6	0.6%
Accidents	0	0.0	0.0%
Vehicle Maintenance	18	32.6	31.7%
Wayside	5	21.4	20.9%
Police & Health	10	37.1	36.2%
Other	2	10.9	10.7%
Total	37	102.7	100.0%

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



August 2017 Red Line major delay contributors were as follows:

Operations Incidents:

8/5/2017 6:00:00 AM - Incident# 2895580 (0 lost trips, 30 lost minutes)
DYNAELECTRIC INSITE WIRELESS

8/15/2017 5:07:00 PM - Incident# 2899188 (0 lost trips, 6 lost minutes)
Reports train 213 overshoot platform by one car.
T-74
Train 213
Eastbound, AL, Hollywood Vine
Cars: 527 522 511 512 521 (530)

Vehicle Maintenance Incidents:

8/2/2017 1:23:00 PM - Incident# 2894398 (0 lost trips, 10 lost minutes)
T-378 reports friction brakes will not release on train 207 (cars 599, 600, 535, 536) cars 599 and 535. North Hollywood, AR platform, leaving for eastbound movement.

8/5/2017 7:30:00 PM - Incident# 2895706 (3 lost trips, 474 lost minutes)
Friction Brakes Not Releasing
Train 208, T-389
Cars; 519, 526, 511, 512
M-156

8/6/2017 1:05:00 PM - Incident# 2895825 (5 lost trips, 764 lost minutes)
Service brake failure
Train 206
T-329
Cars 501-(502)-511-512
Wilshire Western Interlocking

8/9/2017 7:11:00 AM - Incident# 2896844 (1 lost trip, 159 lost minutes)
Recurring emergency brake application in car 513.
T-384
Train 208
Cars (513),514,525,524
Arriving at Wilshire/Vermont AR WB.

8/9/2017 9:10:00 PM - Incident# 2897134 (1 lost trip, 149 lost minutes)
Report of emergency lighting.
T-041
Train 215
Cars 549-550-(559-560)-595-596
Universal City AR westbound.

8/12/2017 10:25:00 AM - Incident# 2898035 (0 lost trips, 8 lost minutes)
Emergency brake application West Interlocking at Union Station

8/13/2017 7:43:00 PM - Incident# 2898307 (1 lost trip, 153 lost minutes)
Friction Brakes Not Releasing
Train 207, T-138
Cars 587, 588, 565, 566, (577), 578
Westlake, AR, West

8/15/2017 1:40:00 PM - Incident# 2899096 (0 lost trips, 10 lost minutes)
Train 207 reports ATP problems
T-278, AL, East
575-576-579-(580)

8/15/2017 7:22:00 PM - Incident# 2899217 (0 lost trips, 6 lost minutes)
Train 216 (513,514,519,526,501,502) T-312, Hollywood Western, AL reports he heard an audible noise emanating from the undercarriage.

8/16/2017 7:27:00 PM - Incident# 2899684 (0 lost trips, 8 lost minutes)
Friction brake fail to release.
Train #107
T-107
Cars #529-530-577-578-(523)-528.
E/Bound Pershing Square Station A/L

8/17/2017 5:31:00 PM - Incident# 2900092 (0 lost trips, 8 lost minutes)

Train 214 reports doors will not open
T-320, Train 214
AL, Civic, East
509,508,519,526,513,514

8/22/2017 10:14:00 PM - Incident# 2901925 (0 lost trips, 7 lost minutes)

Doors fail to close.
Train #215
T-012
Cars # 569-570-571-572-589-(590)
W/Bound Pershing Square Station A/R Track.

8/23/2017 6:18:00 AM - Incident# 2902021 (0 lost trips, 10 lost minutes)

Doors 1/3 and 2/4 cut out due to not closing in car 541.
T-127
Train 210
Cars (541),542,553,554,557,558
Universal City AL.

8/24/2017 9:04:00 AM - Incident# 2902529 (0 lost trips, 4 lost minutes)

Train 207 reports service brake failure
T-271, Train 207
AL, WM, East
(600)-599-584-583-560-559

8/28/2017 5:52:00 AM - Incident# 2903663 (0 lost trips, 15 lost minutes)

No power in car 549, and mode selector stuck.
T-542
Train 210
Cars (549),550,547,548,531,532
,Departing Hollywood/Highland AR WB.

8/29/2017 5:27:00 PM - Incident# 2904527 (1 lost trip, 157 lost minutes)

Friction Brakes fail to release.
Train #219
T-206
Cars #529-520-501-502-527-522
E/Bound North Hollywood Station A/R Track.

8/30/2017 2:32:00 PM - Incident# 2904936 (0 lost trips, 5 lost minutes)

Doors fails to open from the operating cab.(Push Button Failure).
Train #206
T-329
Cars #(519-526-505-506.
W/Bound Wilshire Western Station B/R Track.

8/31/2017 1:52:00 PM - Incident# 2905448 (0 lost trips, 8 lost minutes)

Train 210 reports door problem no movement
T-328, Train 210
AR, SM, West
(541)-542-591-592

Wayside Incidents:

8/2/2017 11:05:00 PM - Incident# 2894585 (0 lost trips, 20 lost minutes)

TRACS-8 indicate switch out of correspondent.

8/7/2017 4:39:00 PM - Incident# 2896249 (0 lost trips, 15 lost minutes)

East interlock went Out of Correspondence when train 219 tried to depart.

8/17/2017 8:16:00 AM - Incident# 2899891 (0 lost trips, 45 lost minutes)

AR & AL Track De-energized between HH to HV

8/18/2017 1:59:00 PM - Incident# 2900472 (0 lost trips, 12 lost minutes)

TRACS-8 indicate breakers open at Hollywood Highland, Hollywood Vine and Vermont Sunset.

8/23/2017 4:11:00 AM - Incident# 2901967 (8 lost trips, 1,194 lost minutes)

North Hollywood Breaker D01 opened with a Lock trip alarm.
Breakers D02, D03, D04 and D05 indicate open.
AR/AL platforms de energized.

Police & Health Incidents:

8/3/2017 9:03:00 PM - Incident# 2895065 (0 lost trips, 28 lost minutes)

Report of a male black adult on board Train 219 car 602 bleeding from the crouch area, requesting medical.

8/5/2017 12:44:00 AM - Incident# 2895554 (1 lost trip, 178 lost minutes)

Train 217 (587,588,565,566,545,546) T-199, MPM 3.7 reports observing a male individual standing still on the service walkway between two stairwells.

8/7/2017 3:05:00 PM - Incident# 2896205 (4 lost trips, 597 lost minutes)

Trespasser observed on the AR service walkway near CP07

8/8/2017 11:06:00 AM - Incident# 2896534 (0 lost trips, 5 lost minutes)

Train 207 reports medical emergency at UC

T-364, Train 207

AL, UC, East

553-554-583-584

8/8/2017 4:07:00 PM - Incident# 2896660 (6 lost trips, 906 lost minutes)

Item underneath third rail at 7MC on AR east end

8/10/2017 9:03:00 AM - Incident# 2897289 (0 lost trips, 6 lost minutes)

Train 210 reports sick patron at Civic Station

T-127, Train 210

AR, Civic, West

567-68-61-62-91-(592)

8/19/2017 1:36:00 PM - Incident# 2900685 (0 lost trips, 20 lost minutes)

Reports confrontation aboard the train in car 577.

8/19/2017 5:06:00 PM - Incident# 2900730 (0 lost trips, 15 lost minutes)

Report of a female having a seizure.

8/21/2017 6:18:00 AM - Incident# 2901263 (2 lost trips, 324 lost minutes)

Trespasser on the ROW at Vermont/Santa Monica AL West.

Trespasser observed activating the Emergency Trip Station.

8/30/2017 10:23:00 PM - Incident# 2905067 (1 lost trip, 150 lost minutes)

Train 202 (595,596,579,580) T-012 Wilshire Vermont, AL reports possible need for medical support respond to car 579 for a caucasian, male who is intoxicated.

Other Incidents:

8/5/2017 8:52:00 AM - Incident# 2895602 (4 lost trips, 652 lost minutes)

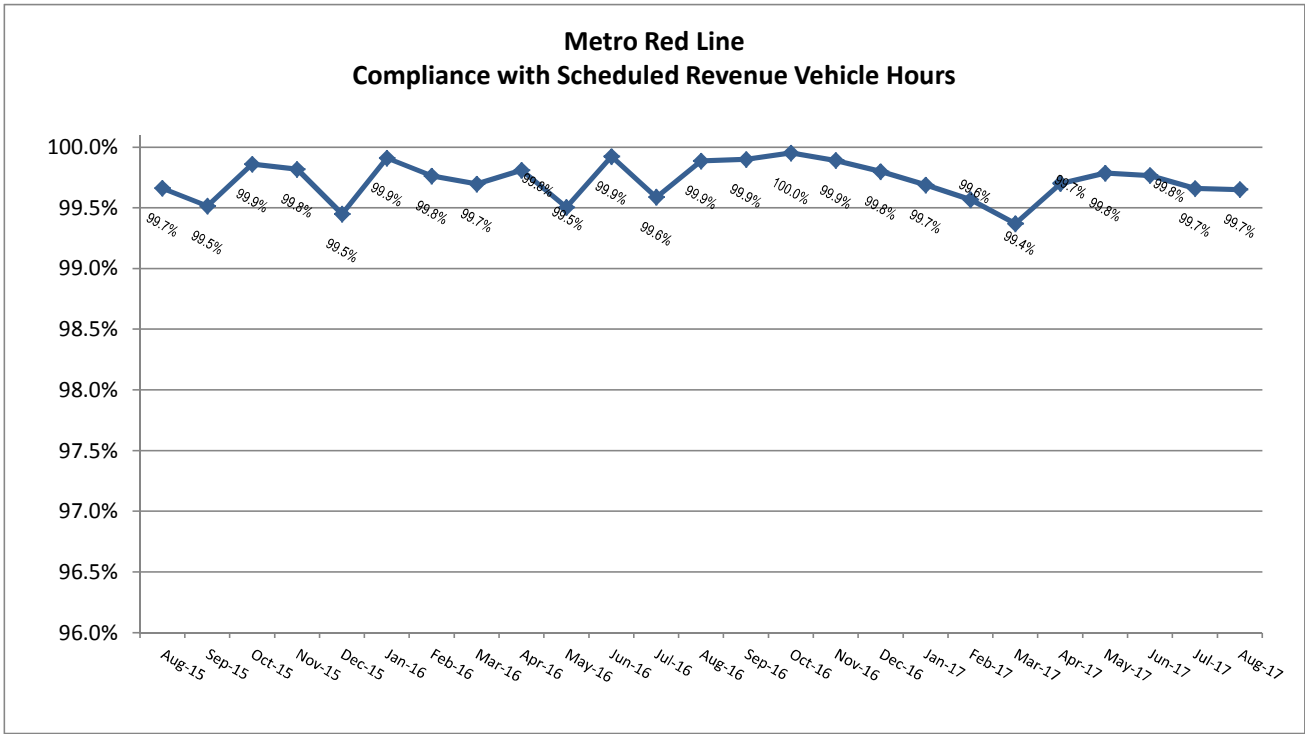
Water Suppression Active at Pershing Square

8/11/2017 6:01:00 PM - Incident# 2897895 (0 lost trips, 5 lost minutes)

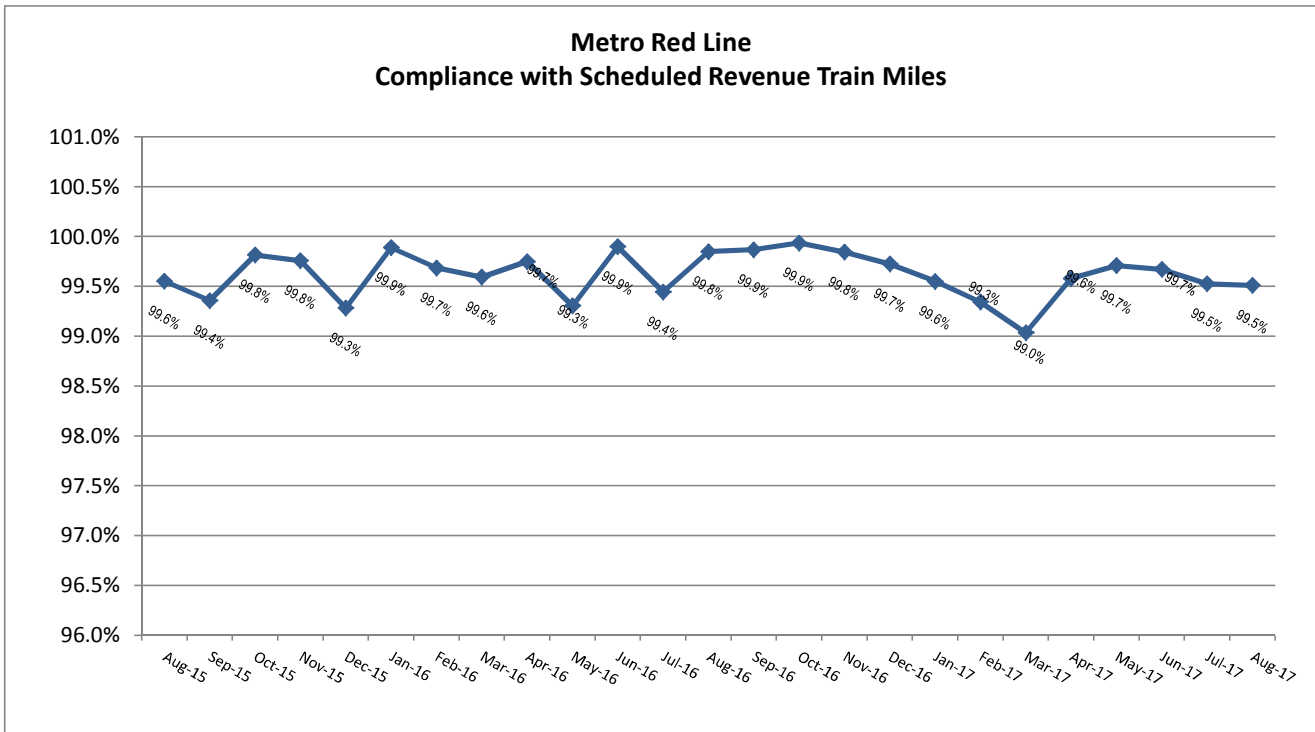
Operator Reports Unidentified Object Hitting Train 214

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

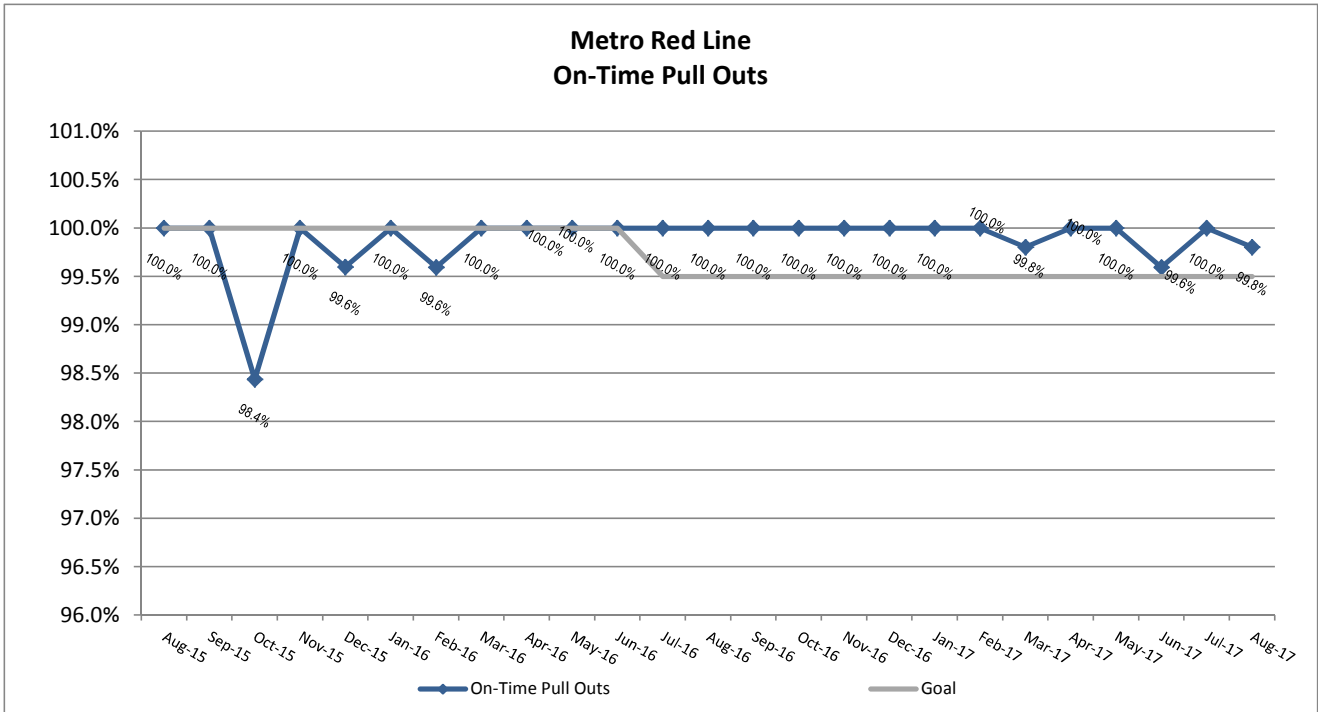
COMPLIANCE WITH SCHEDULED VEHICLE HOURS



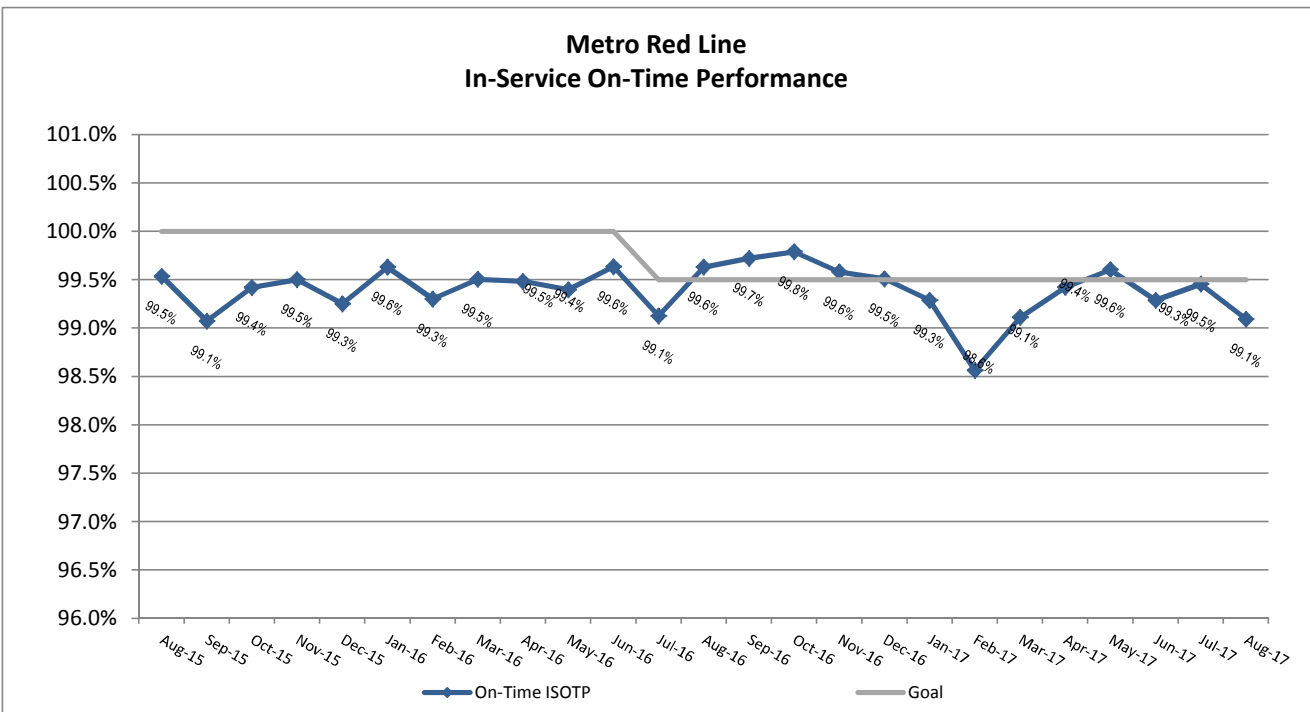
COMPLIANCE WITH SCHEDULED TRAIN MILES



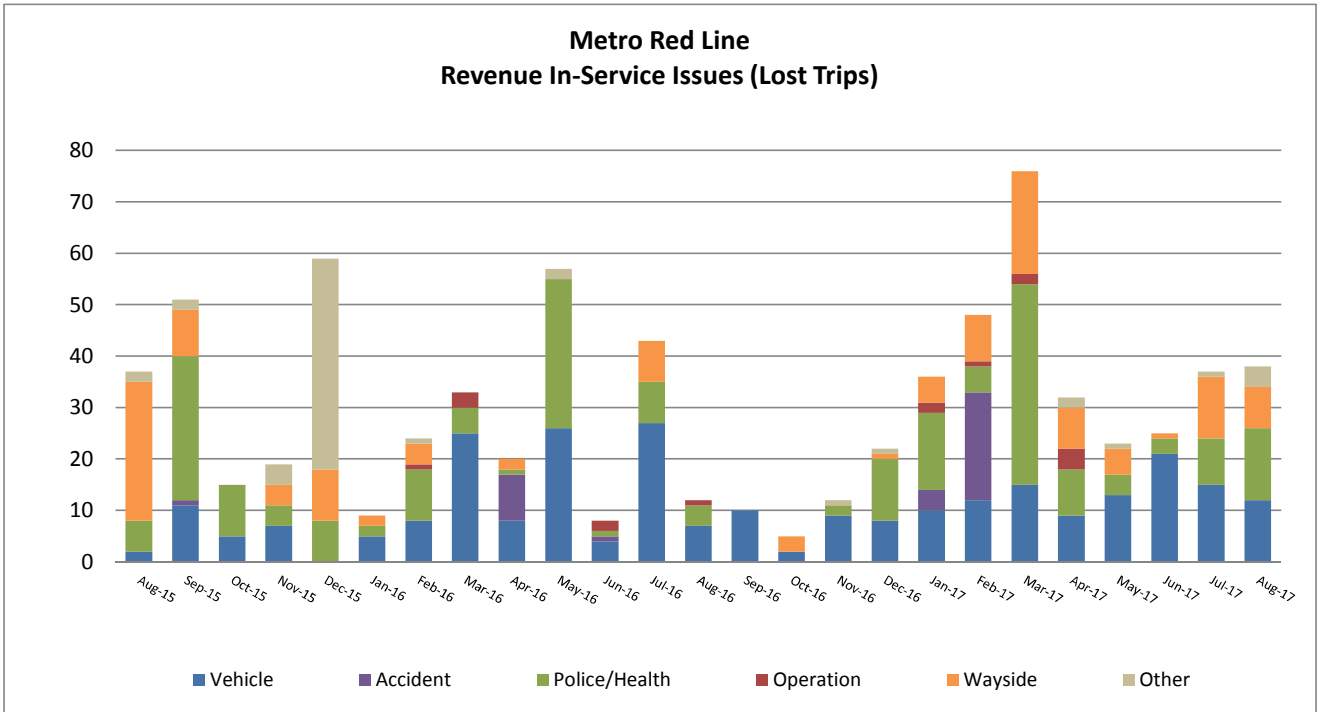
ON-TIME PULL OUTS



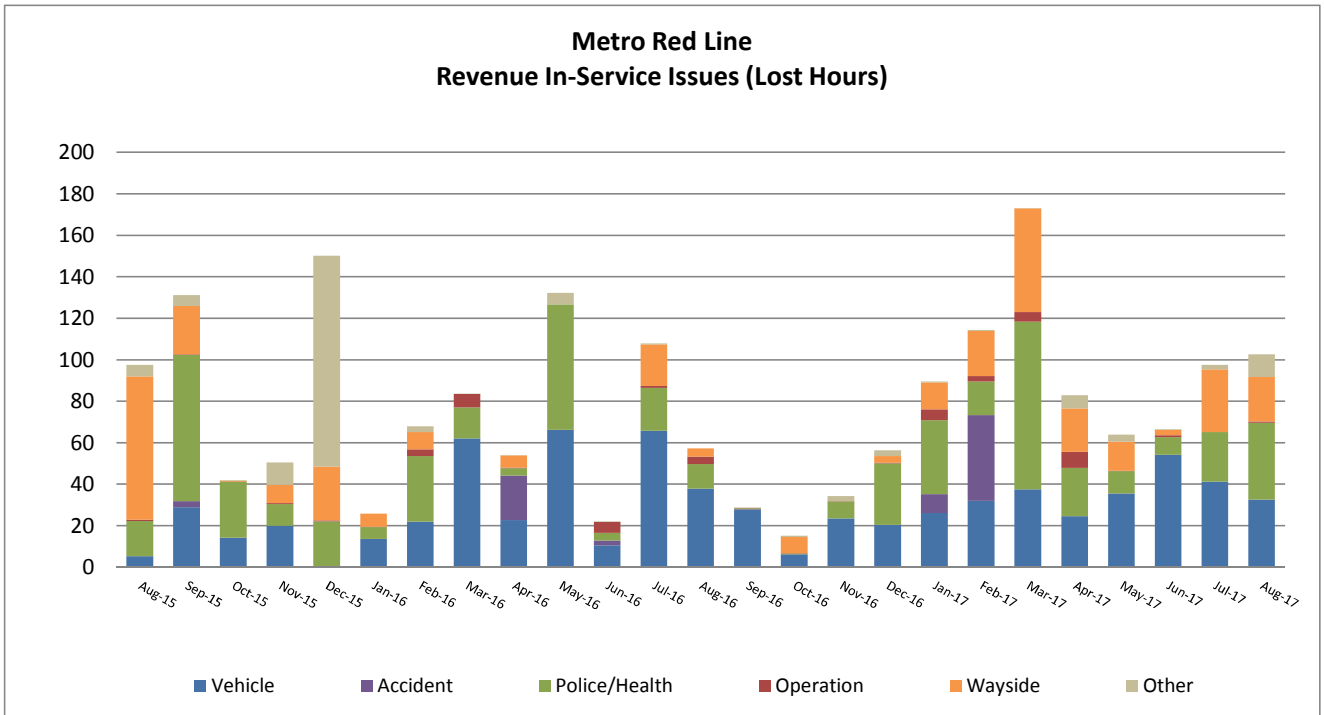
IN-SERVICE ON-TIME PERFORMANCE



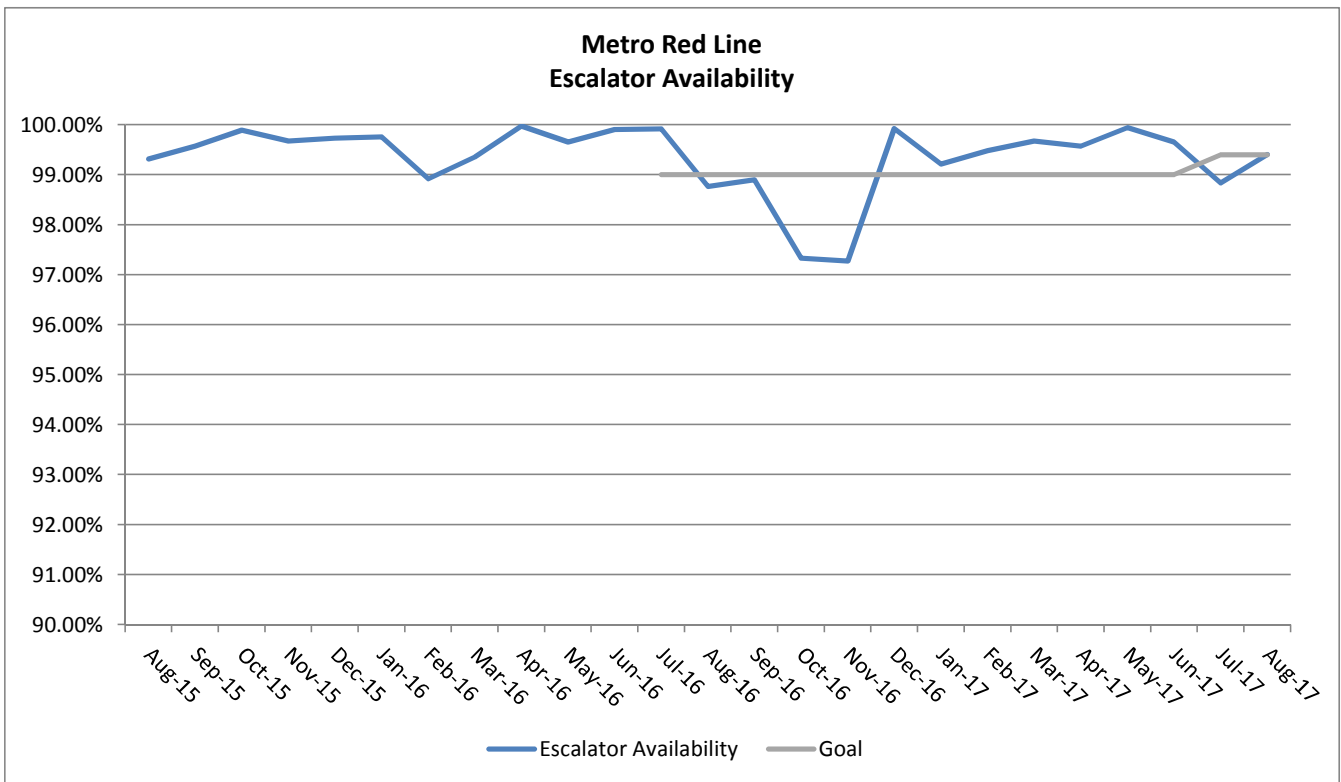
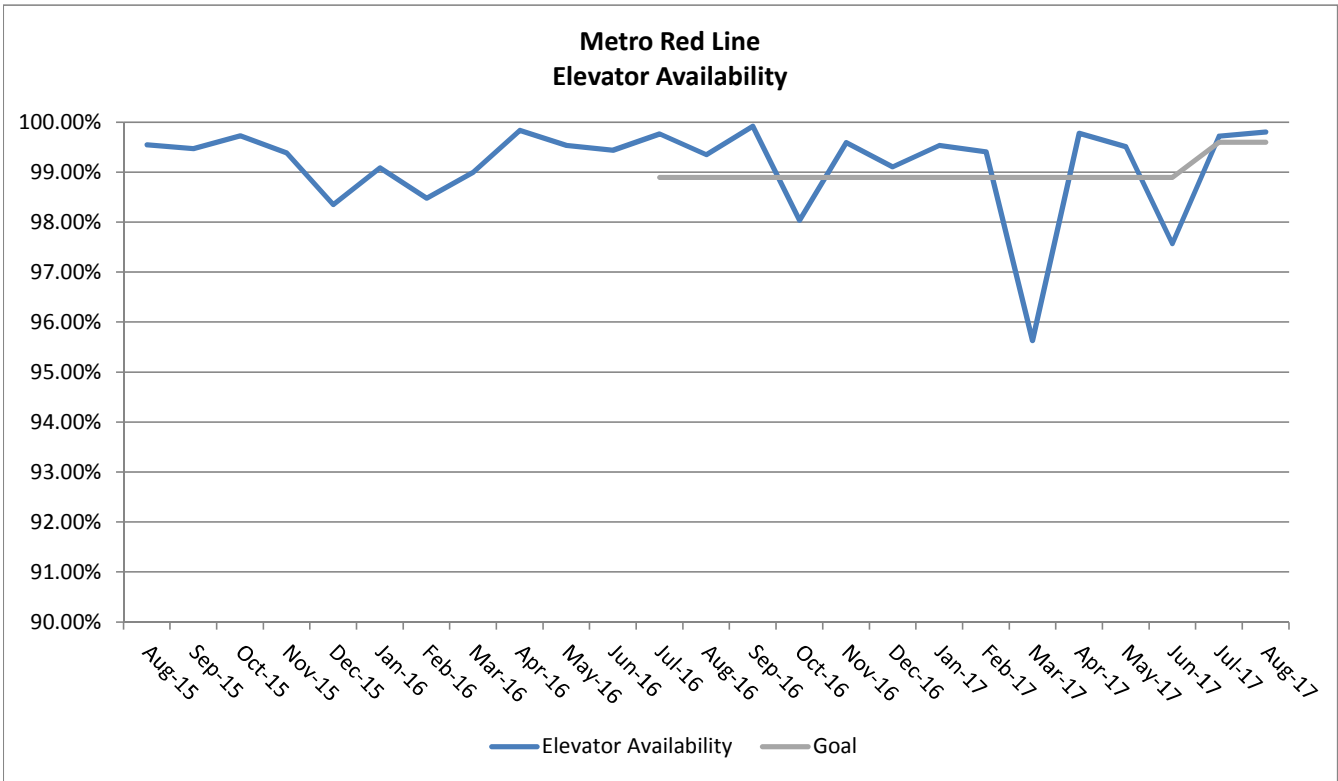
LOST TRIPS



LOST TRIPS



VERTICAL TRANSPORTATION AVAILABILITY



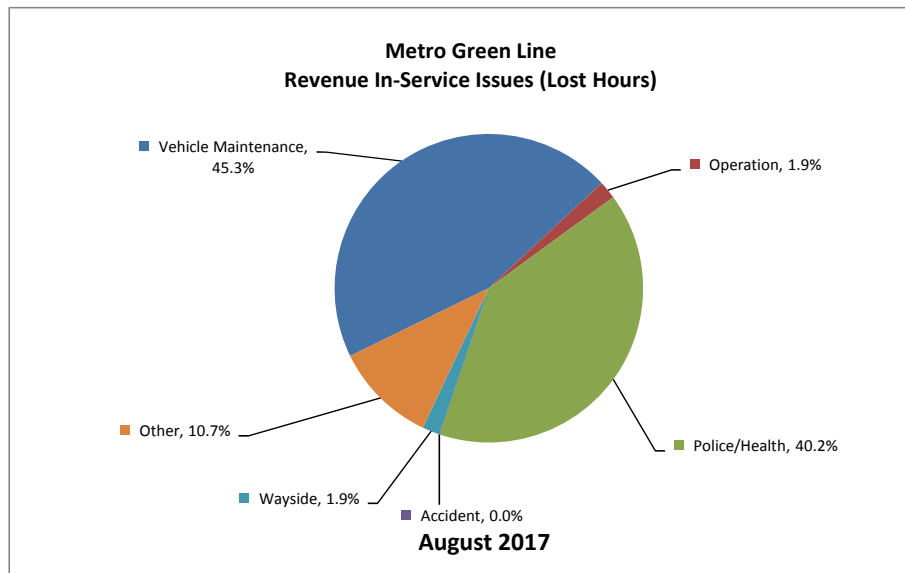
GREEN LINE

Out of a total of 8,486 hours operated, there were approximately 22 total hours of service delays.

August 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	8,464	99.7%
Cancelled + Delayed Hours	22	0.3%
Total Revenue Hours	8,486	100.0%

Summary of the major contributors:	Count	Hours	Percent
Operations	3	0.4	1.9%
Accidents	0	0.0	0.0%
Vehicle Maintenance	19	9.9	45.3%
Wayside	2	0.4	1.9%
Police & Health	6	8.8	40.2%
Other	3	2.3	10.7%
Total	33	21.9	100.0%

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



August 2017 Green Line major delay contributors were as follows:

Operations Incidents:

8/1/2017 10:40:00 PM - Incident# 2894138 (0 lost trips, 7 lost minutes)

Train 343 delay.

8/5/2017 9:06:00 AM - Incident# 2896547 (0 lost trips, 7 lost minutes)

Out Late due to radio communication issues at yard limits.

8/8/2017 10:30:00 AM - Incident# 2896520 (0 lost trips, 10 lost minutes)

Operator departed late from Norwalk Station

Train 333

T-458

217-206

Norwalk Station, T-458, Westbound

Vehicle Maintenance Incidents:

8/2/2017 12:13:00 AM - Incident# 2894156 (0 lost trips, 4 lost minutes)

Train 345, LRV 206.

Crenshaw Interlocking Signal 2, Track 2 eastbound.

Lost air pressure.

8/3/2017 12:15:00 PM - Incident# 2894858 (1 lost trip, 66 lost minutes)

Auto Train Operation

(214A)-210

Train 332

T-458

Douglas, Track 1, Westbound

8/8/2017 7:23:00 AM - Incident# 2896432 (0 lost trips, 5 lost minutes)

Operator reports of a speed restriction

Train 341

T-274

(207)243

Lakewood Station, Trk. 1, northbound

8/10/2017 11:21:00 AM - Incident# 2897345 (0 lost trips, 6 lost minutes)

Train 335 developed an ATC fault car 217, train unable to move.

8/12/2017 9:10:00 AM - Incident# 2898014 (0 lost trips, 6 lost minutes)

Train 335 car 213 operator was not able to key up.

8/15/2017 11:27:00 PM - Incident# 2899252 (0 lost trips, 7 lost minutes)

Train 342, LRV 224.

Marine Station Platform 2 east.

Lost air pressure.

8/17/2017 4:32:00 AM - Incident# 2899762 (0 lost trips, 15 lost minutes)

Car 221A Friction Brake Fault, no movement

Train 333

T-40

Yard Interface pulling out

Consist 219-221

8/17/2017 4:54:00 PM - Incident# 2900072 (1 lost trip, 80 lost minutes)

Doors not closing at Crenshaw Station; consequently when doors close train lost movement.

8/19/2017 7:28:00 AM - Incident# 2902839 (0 lost trips, 9 lost minutes)

Train Operator T-64 reports of no movement.

Train 332

T-64

Cars (205)-217

Norwalk Station, Track 1, Westbound

8/19/2017 8:06:00 AM - Incident# 2900627 (0 lost trips, 10 lost minutes)

Train 342 Car 205A friction brakes not releasing.

8/19/2017 2:00:00 PM - Incident# 2900684 (0 lost trips, 5 lost minutes)

Re occurring propulsion faults 209A-214

Train 334
T-136
Track 1
Westbound
Aviation station
ATO MODE

8/24/2017 6:49:00 AM - Incident# 2902465 (0 lost trips, 6 lost minutes)

Doors light is on as the train is in motion, cars (226B 7/8)-223

Train #337
T344
Long Beach Fwy, Track #001, Westbound.

8/24/2017 7:46:00 AM - Incident# 2902496 (2 lost trips, 139 lost minutes)

Propulsion / Dynamic Brakes, cars (224)-211

Train #332
T-112
Paramount interlocking, Track #002, Eastbound

8/24/2017 8:14:00 AM - Incident# 2902512 (0 lost trips, 6 lost minutes)

Train 331 Car 223/226 experienced a friction brake fault, unable to move.

8/24/2017 7:36:00 PM - Incident# 2902749 (1 lost trip, 66 lost minutes)

Propulsion fault. No movement.

Train 342
T-143
Track 1, W/B
Long Beach Station
ATO mode
(223B)-226

8/25/2017 7:17:00 AM - Incident# 2902910 (0 lost trips, 13 lost minutes)

Train 340 reports no movement.

Train 340
T-343
Cars (226)-211
Crenshaw Station, Track 1, Westbound

8/28/2017 6:05:00 PM - Incident# 2904034 (1 lost trip, 66 lost minutes)

Prop-fault that does not clear

T-183
Cars (225)-201
Marine station Westbound

8/28/2017 11:25:00 PM - Incident# 2904094 (0 lost trips, 13 lost minutes)

Loss of air pressure

Train 343
T-13
Cars-209
El Segundo Eastbound

8/31/2017 5:28:00 PM - Incident# 2905567 (1 lost trip, 73 lost minutes)

Train 336 Car 201A developed a propulsion fault, unable to reset.

Wayside Incidents:

8/6/2017 8:00:00 AM - Incident# 2895809 (0 lost trips, 5 lost minutes)

Track circuit 604 and 571 are displaying false occupancy due to a microlock failure.

8/22/2017 10:00:00 AM - Incident# 2901660 (0 lost trips, 20 lost minutes)

Traction Power Department will perform preventive maintenance on the weights and pulley assemblies.

Police & Health Incidents:

8/5/2017 1:01:00 PM - Incident# 2895647 (0 lost trips, 20 lost minutes)

Trespasser on ROW at MP 2.0-2.5 between Hawthorne and Crenshaw Stations.

8/12/2017 9:56:00 AM - Incident# 2898026 (1 lost trip, 65 lost minutes)

Deputy Sussman requested all trains in the vicinity of Long Beach Station to bypass the station due to an individual with a hand gun.

8/16/2017 8:02:00 PM - Incident# 2899688 (0 lost trips, 6 lost minutes)

Train 345, T-78 at Wilmington station reports patron onboard car 224B is unconscious.

8/24/2017 4:26:00 PM - Incident# 2902697 (3 lost trips, 197 lost minutes)

Received a call from Officer Reese, requesting for Green Line trains to bypass Avalon Station.

8/28/2017 2:25:00 PM - Incident# 2903985 (1 lost trip, 92 lost minutes)

Operator reports of being held by LAPD

Train 342

T-020

219-205

Douglas Station, Trk. 2, eastbound

8/30/2017 4:13:00 PM - Incident# 2904989 (2 lost trips, 148 lost minutes)

Report of an unattended bag on train # 331, unknown car.

Train # 331

T-450

Departing Marine track #2, eastbound

(202 207)

Other Incidents:

8/21/2017 4:12:00 AM - Incident# 2901004 (1 lost trip, 68 lost minutes)

Yard Control R-147 reports not having man power for roll out trains.

8/27/2017 4:25:00 AM - Incident# 2903441 (0 lost trips, 11 lost minutes)

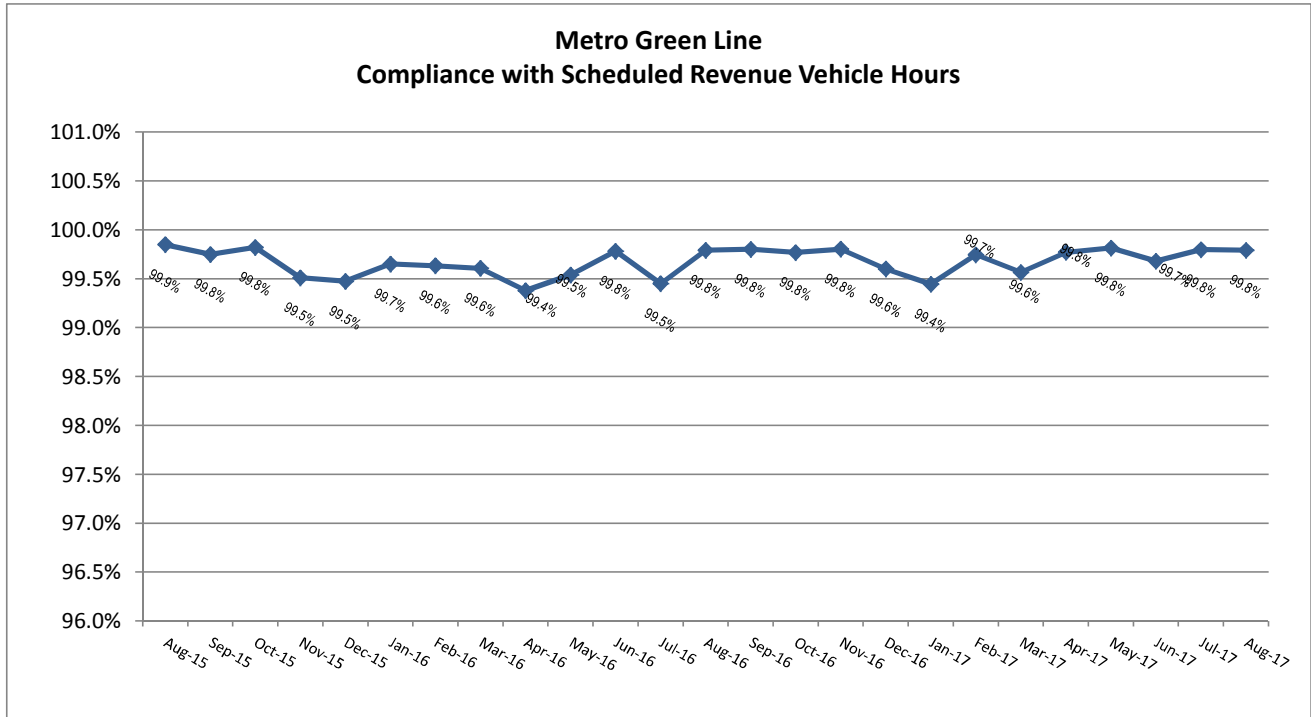
Train 333 pulled out 11 minutes late.

8/27/2017 4:57:00 AM - Incident# 2903442 (1 lost trip, 62 lost minutes)

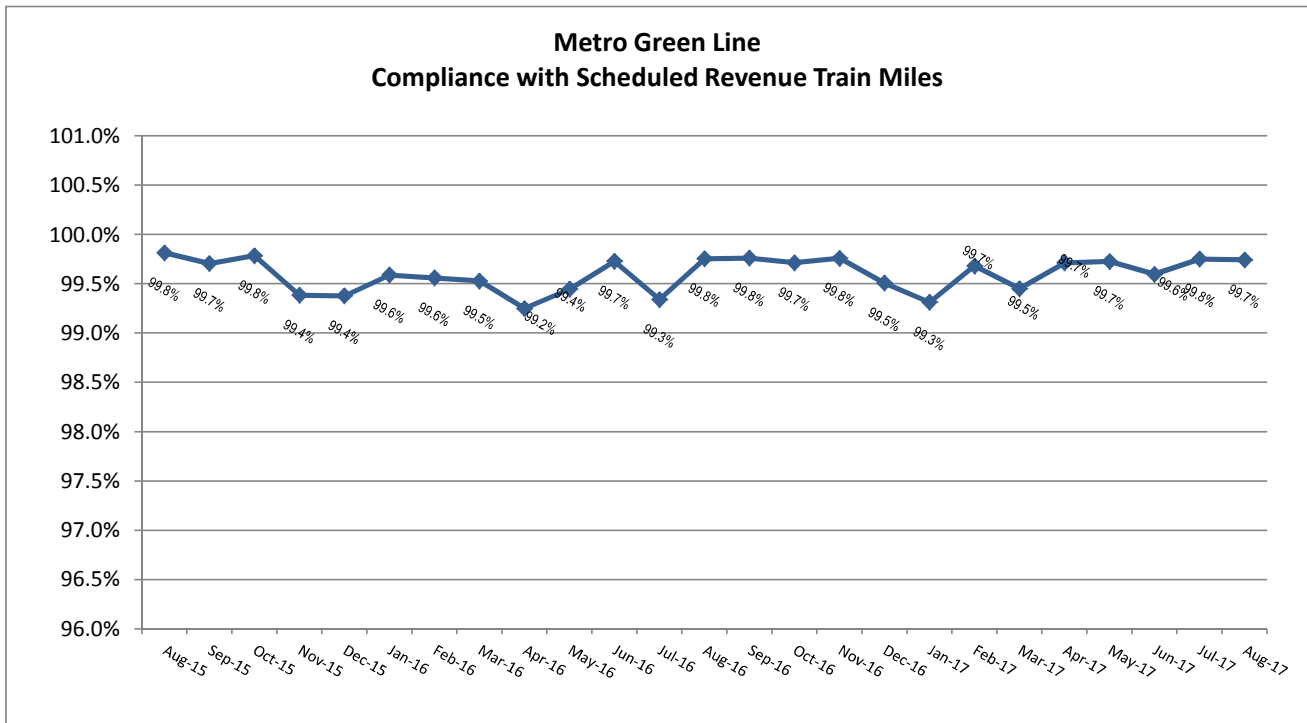
Train 343 pulled out 21 minutes late.

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

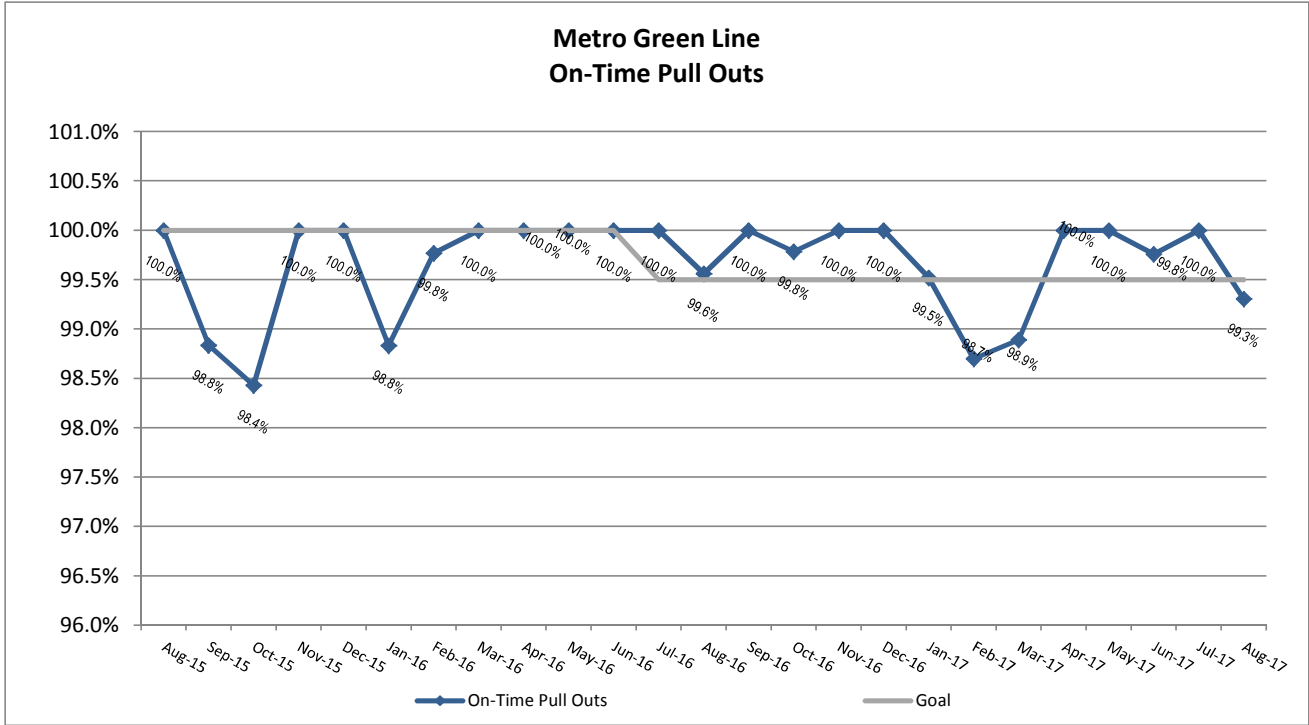
COMPLIANCE WITH SCHEDULED VEHICLE HOURS



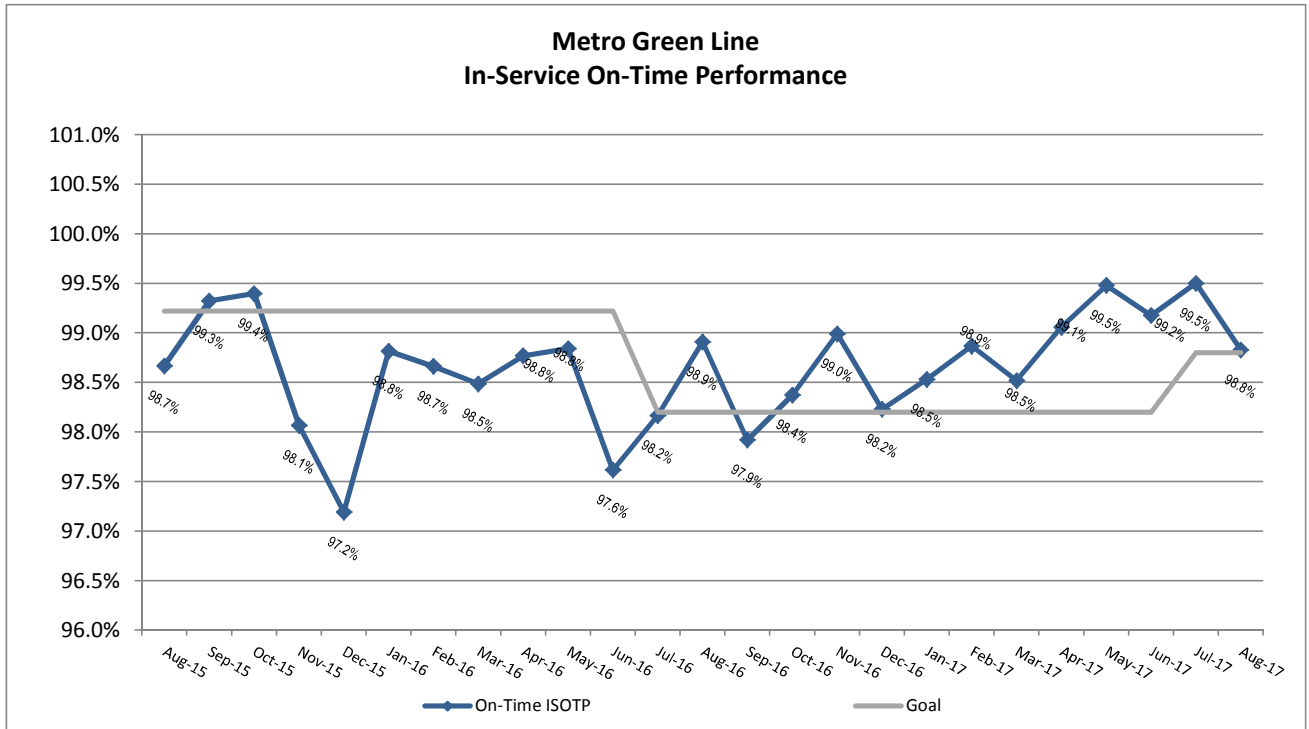
COMPLIANCE WITH SCHEDULED TRAIN MILES



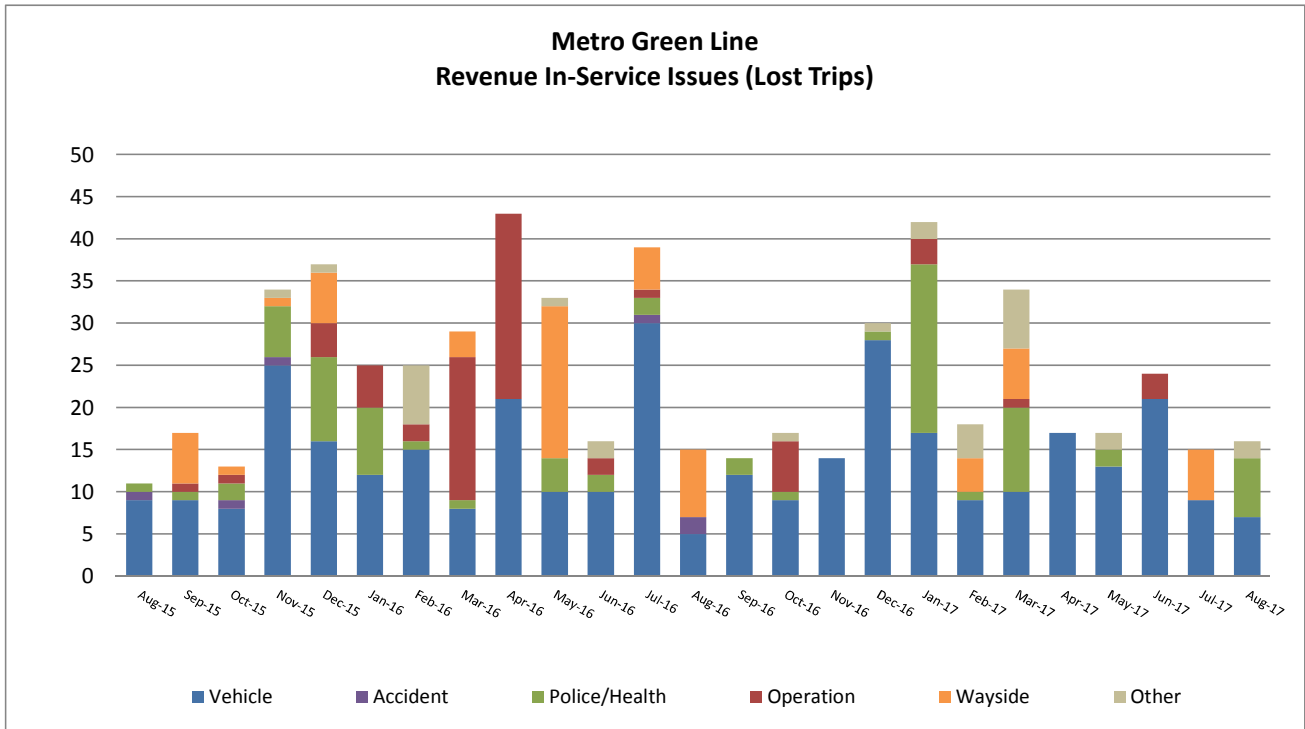
ON-TIME PULL OUTS



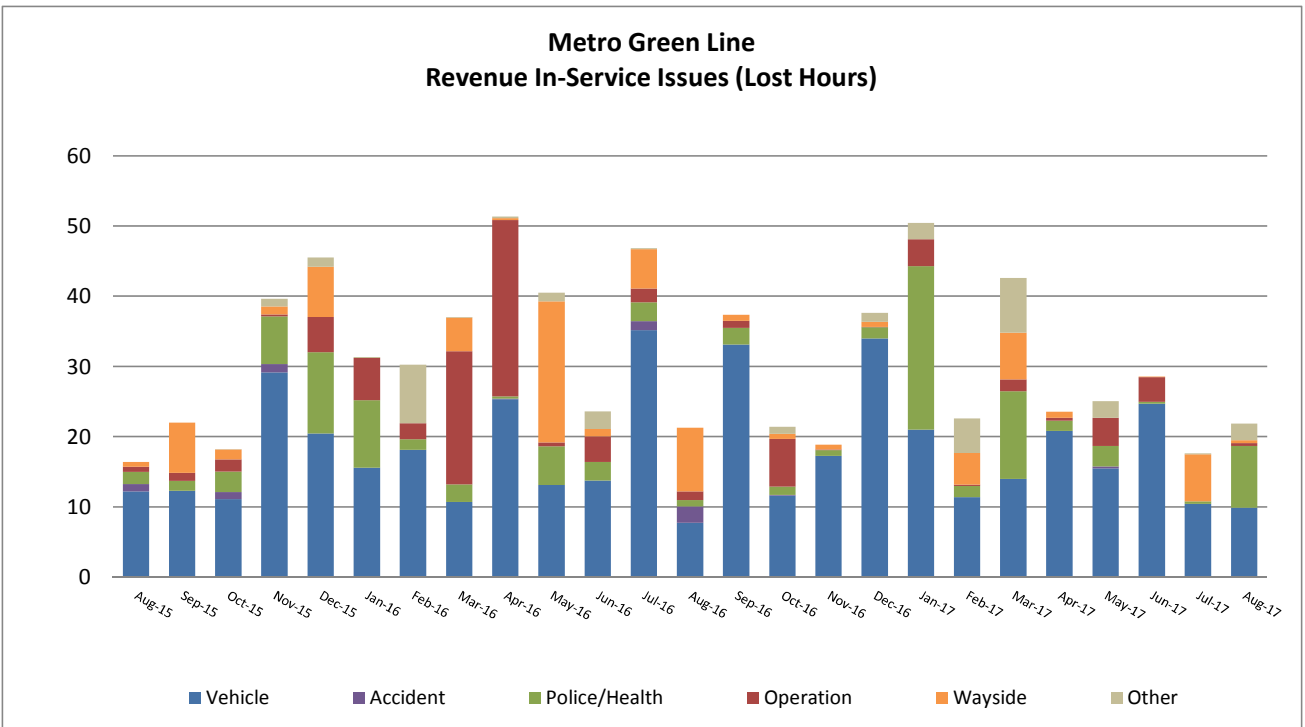
IN-SERVICE ON-TIME PERFORMANCE



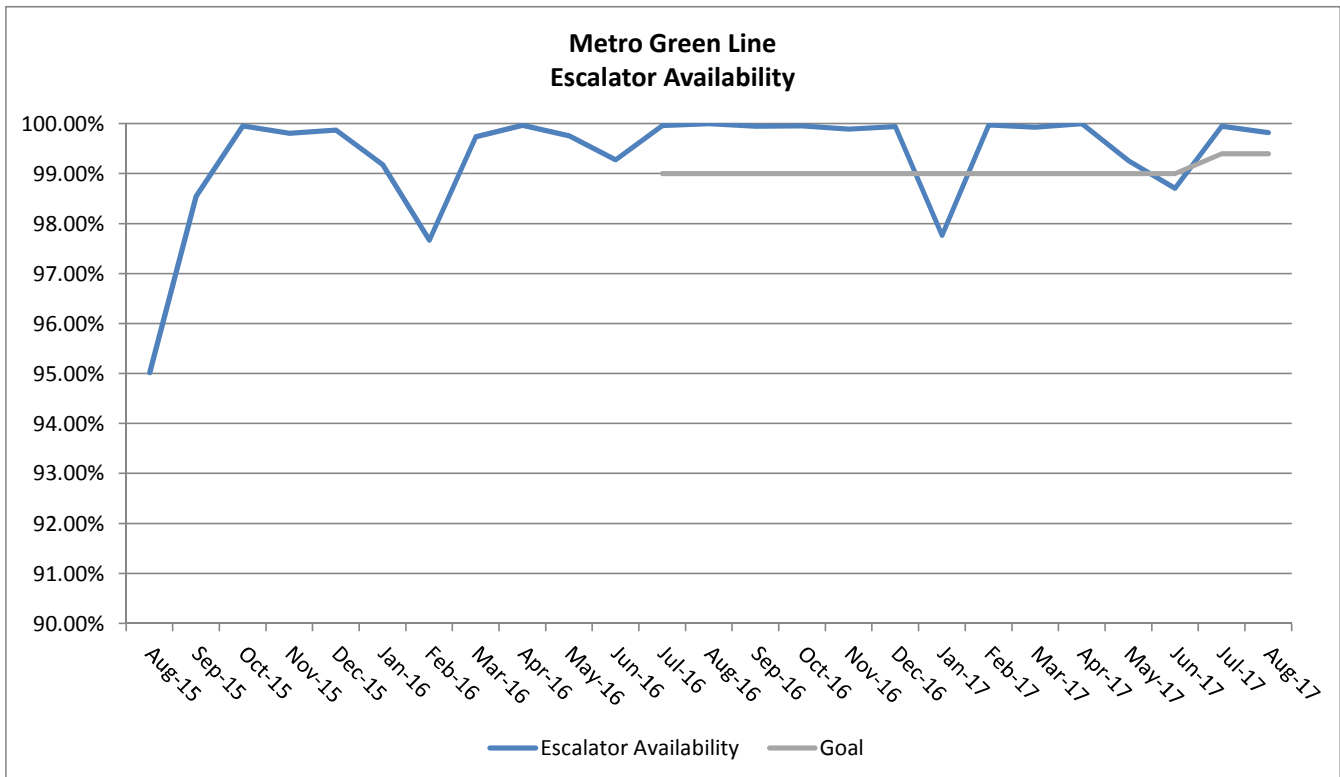
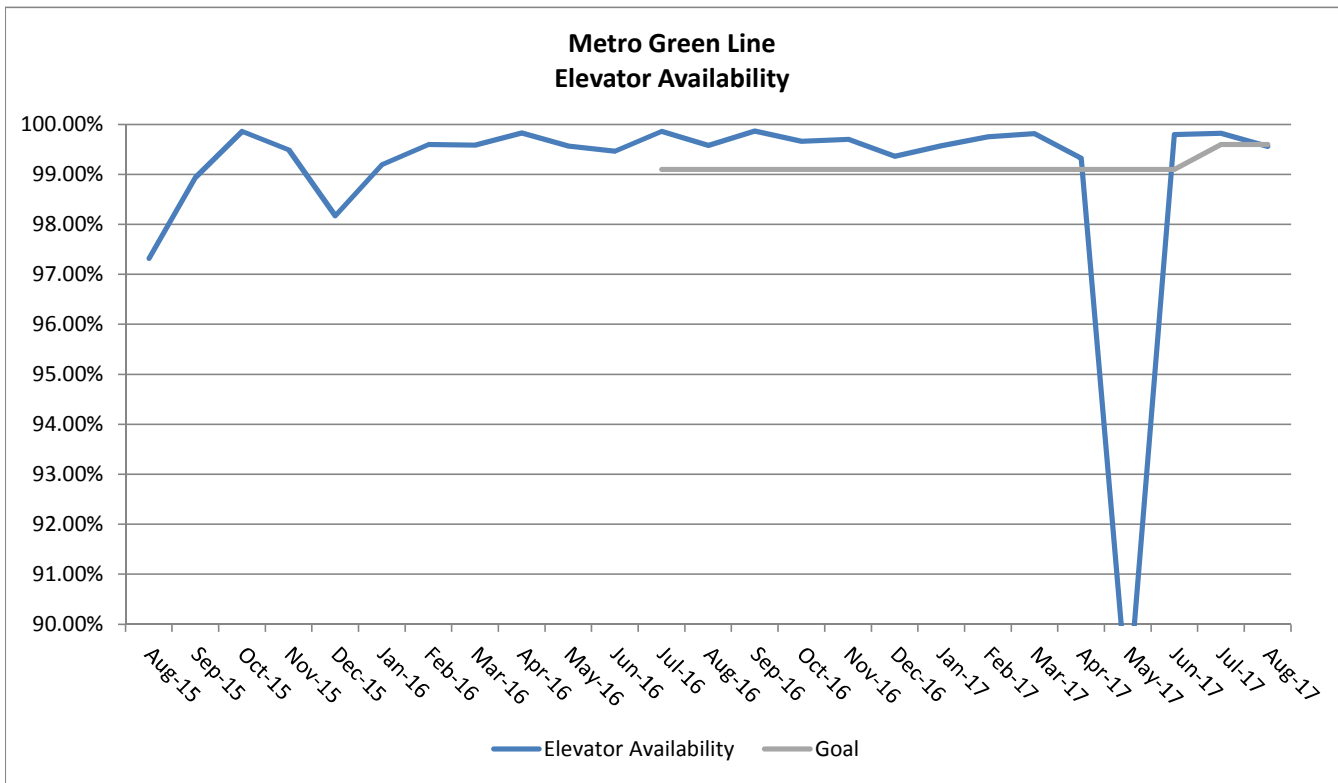
LOST TRIPS



LOST HOURS



VERTICAL TRANSPORTATION AVAILABILITY



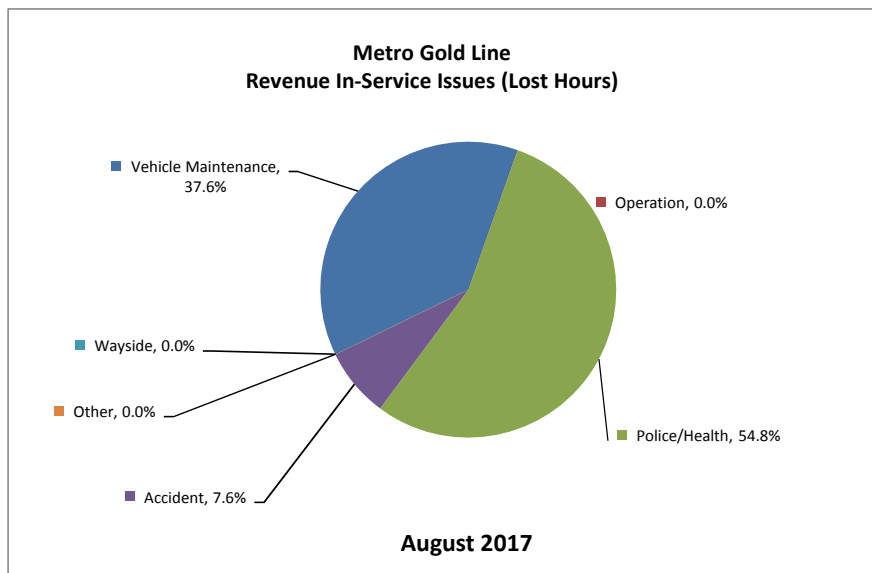
GOLD LINE

Out of a total of 21,341 hours operated, there were approximately 159 total hours of service delays.

August 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	21,182	99.3%
Cancelled + Delayed Hours	159	0.7%
Total Revenue Hours	21,341	100.0%

Summary of the major contributors:	Count	Hours	Percent
Operations	0	0.0	0.0%
Accidents	2	12.1	7.6%
Vehicle Maintenance	27	59.7	37.6%
Wayside	0	0.0	0.0%
Police & Health	7	86.9	54.8%
Other	0	0.0	0.0%
Total	36	158.7	100.0%

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



August 2017 Gold Line major delay contributors were as follows:

Accidents:

8/11/2017 10:05:00 PM - Incident# 2897938 (1 lost trip, 242 lost minutes)

Loss of air pressure with no movement southbound

T-429

Train 422

Cars (722) (720)

SB, Tk 2, 15.1

8/22/2017 3:26:00 PM - Incident# 2901842 (2 lost trips, 481 lost minutes)

T-195 reports 10-73 at Alameda and Temple grade crossing, Track 2, Southbound. Train 435 cars 722, 743.

Affected car 722B.

Vehicle Maintenance Incidents:

8/2/2017 6:45:00 AM - Incident# 2894245 (0 lost trips, 7 lost minutes)

Auto Train Protection (Speed Limit) LRV 1010

T-128

Train 412

LRV (1010) 1009 1059

APU Station, Southbound, Track2.

8/2/2017 3:00:00 PM - Incident# 2894432 (1 lost trip, 241 lost minutes)

Alleged burning smell train 403 unknown car.

Train 403

T-11

Tk 2 SB Irwindale

728-738

8/2/2017 4:06:00 PM - Incident# 2894477 (0 lost trips, 6 lost minutes)

1005-1013 large amount of water dripping from the HVAC system on both cars.

Train 406

T-92

Tk 1 NB Downtown Azusa

1005-1013

8/3/2017 7:48:00 AM - Incident# 2894700 (1 lost trip, 249 lost minutes)

Master Controller on LRV 730A

T-039

Train 401

LRV (730A) 747

Arcadia interlocking, Track 1, northbound.

8/6/2017 9:16:00 PM - Incident# 2895896 (1 lost trip, 317 lost minutes)

Car 743 smoking brakes.

Train 409

T-35

Consist 721-724-743

SMV Station, Track 1 northbound

8/7/2017 10:14:00 AM - Incident# 2896079 (0 lost trips, 7 lost minutes)

748A ATP fault no cab signal

Train 404

T-159

Tk 1 NB Monrovia

748-746

8/7/2017 2:26:00 PM - Incident# 2896192 (0 lost trips, 9 lost minutes)

Train 406 schedule for a NB departure from Atlantic at 1418 left 9 minutes late. T-65 did not advise control until 8 minutes after his departure time.

8/8/2017 4:05:00 AM - Incident# 2896357 (0 lost trips, 8 lost minutes)

Reports of ATP issue

Train # 412

T-144

(748A)-718-726

Irwindale Station, Track#1, NB

8/8/2017 5:52:00 AM - Incident# 2896397 (1 lost trip, 241 lost minutes)

Reports of propulsion fault with a speed restriction of 35mph
Train #416
T-19
1013-(1005)-1058
Chinatown Station, Track #2, SB

8/9/2017 4:47:00 PM - Incident# 2897105 (0 lost trips, 13 lost minutes)

Propulsion fault 745(716)723.
Citrus Station
Train #432, T-92, track #2, southbound.

8/10/2017 6:41:00 PM - Incident# 2897472 (0 lost trips, 9 lost minutes)

Door problem, no movement 1015(1059), possible train line problem.
Lincoln Cypress Station
Train #439, T-263, track 32, southbound.

8/11/2017 6:34:00 AM - Incident# 2897641 (1 lost trip, 250 lost minutes)

Reports of brakes not applying
Train#402
T-216
(1008)-1011
Duarte Station, Track #2, SB

8/12/2017 2:26:00 PM - Incident# 2898089 (0 lost trips, 9 lost minutes)

Auto Train Protection (Speed Limit)/TWC Failure
HVAC fault.
T-11
Train:402
Cars (715),(748)
Arcadia Station,Track 2, S/B

8/15/2017 4:41:00 PM - Incident# 2899166 (1 lost trip, 241 lost minutes)

LVPS failure (710A)740.
Lincoln Cypress Station
Train #451, T-119, track #1, northbound.

8/16/2017 6:59:00 AM - Incident# 2899347 (1 lost trip, 240 lost minutes)

Reports door problem.
Train # 403
T-159
1006-(1015)
South Pasadena Station, Track #1, NB

8/16/2017 8:10:00 AM - Incident# 2899382 (1 lost trip, 240 lost minutes)

Prop Faults on 743
Train 418
T-440
Tk 1 NB Duarte
743-739

8/16/2017 2:52:00 PM - Incident# 2899576 (2 lost trips, 481 lost minutes)

Smoking brakes 737 C truck
Train 434
T-122
Tk 2 SB Southwest Museum
737-713

8/18/2017 7:31:00 AM - Incident# 2900262 (1 lost trip, 248 lost minutes)

Reports of doors problems
Train #403
T-216
(741)-(717)
Del Mar Station, Track #2, SB

8/18/2017 10:20:00 AM - Incident# 2900358 (0 lost trips, 6 lost minutes)

Propulsion / Dynamic Brakes, cars #(1009A)-1011-1005
Train #455
T-440
Heritage Square Station, Track #002, Southbound

8/21/2017 4:32:00 AM - Incident# 2901006 (0 lost trips, 5 lost minutes)

Reports of door issues
Train #414
T-499
728-(745B)-725
Duarte Station, Track #1, NB

8/22/2017 4:53:00 AM - Incident# 2901536 (1 lost trip, 240 lost minutes)

Reports of LVPS fault
Train #454
T-93
(705A)-702
Little Tokyo Station, Track #2, SB

8/22/2017 8:26:00 AM - Incident# 2901644 (0 lost trips, 4 lost minutes)

Doors, (743A 5/6)-722
Train #419
T-440
Del Mar Station, Track #002, Southbound.

8/23/2017 8:30:00 PM - Incident# 2902364 (1 lost trip, 241 lost minutes)

Consist 1056b-1011 no movement, no indications.
Train 401
T-228
Third & Indiana, Track 1 NB

8/24/2017 3:16:00 PM - Incident# 2902681 (0 lost trips, 7 lost minutes)

Propulsion fault (1010B)1006.
Atlantic Station
Train #432, T-92, track #2, southbound.

8/25/2017 5:12:00 AM - Incident# 2902835 (1 lost trip, 247 lost minutes)

Reports of no head lights
Train # 416
T-19
(741)-744-717
Irwindale Station, Track #2, SB

8/28/2017 10:41:00 AM - Incident# 2903830 (0 lost trips, 7 lost minutes)

Train went into emergency braking on car 730
Train 401
T-280
Tk 1 NB Arcadia
730-731

8/30/2017 4:51:00 AM - Incident# 2904640 (0 lost trips, 7 lost minutes)

Train 417 out late due bad equipment in the yard

Police & Health Incidents:

8/8/2017 4:22:00 PM - Incident# 2898921 (0 lost trips, 8 lost minutes)

Train 431 was held at Highland Park while LAPD removed 2 suspects from the train.

8/10/2017 6:07:00 PM - Incident# 2897469 (0 lost trips, 7 lost minutes)

LASD requested for hostile patron on board consist.
Del Mar Station
Train #455, T-228, track #2, southbound.
Consist (703)711.

8/15/2017 6:42:00 PM - Incident# 2899215 (0 lost trips, 12 lost minutes)

Sick patron on board consist, medical assistance requested.
Lake Station
Train #428, T-151, track #2, southbound.
730(716)736.

8/20/2017 5:02:00 AM - Incident# 2900784 (1 lost trip, 224 lost minutes)

Reports of sick passenger
Train #402
T-143
(715B)-714
Soto Station, Track #1, NB

8/21/2017 8:50:00 AM - Incident# 2901160 (0 lost trips, 10 lost minutes)

LASD/658-F Holding train 453 due to unruly passenger harassing other passenger.
Azusa Citrus Sta.
Cars: 708/703.

8/22/2017 9:03:00 AM - Incident# 2901655 (0 lost trips, 12 lost minutes)

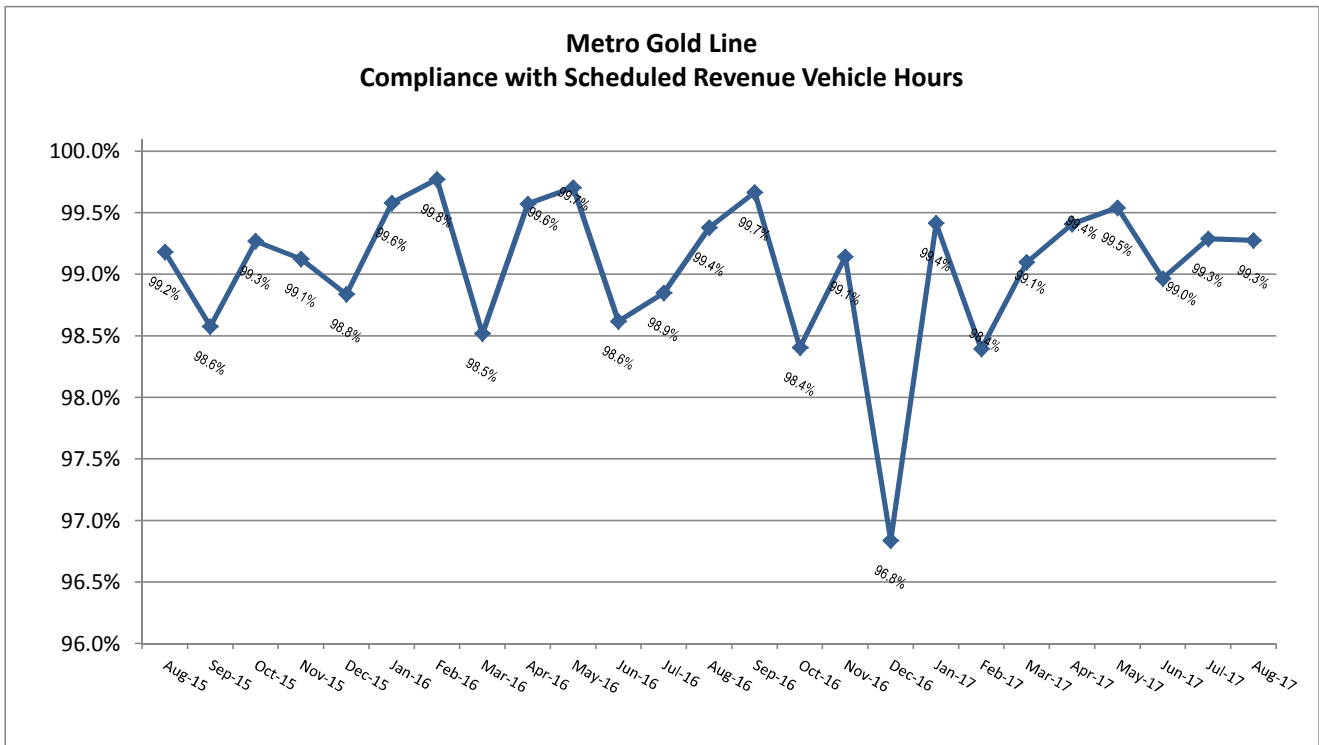
Sick Individual, Pregnant patron having symptoms, cars #(1058)-1008
Train #405
T-039
South of Baker Interlocking, Track #002, Southbound.

8/29/2017 5:26:00 AM - Incident# 2904143 (20 lost trips, 4,941 lost minutes)

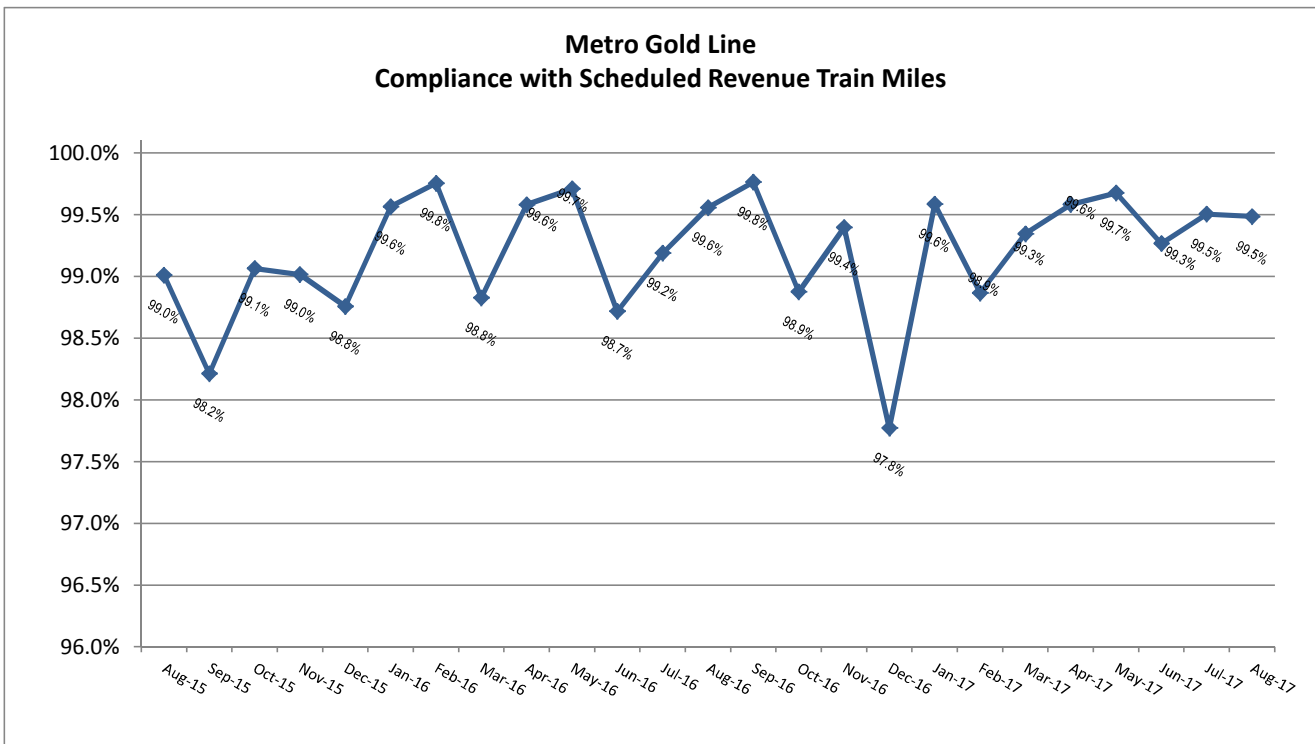
LASD was notified by Pasadena PD of suspicious package at Memorial Park Station.

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

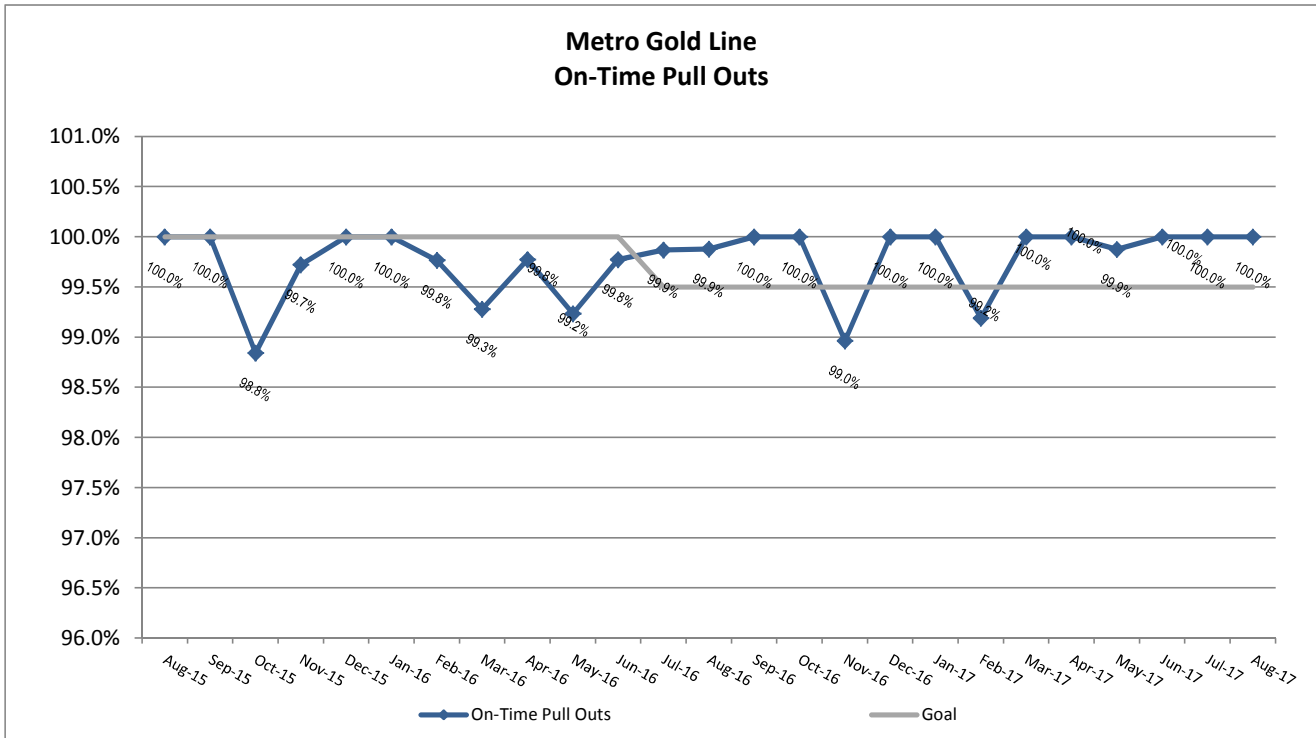
COMPLIANCE WITH SCHEDULED VEHICLE HOURS



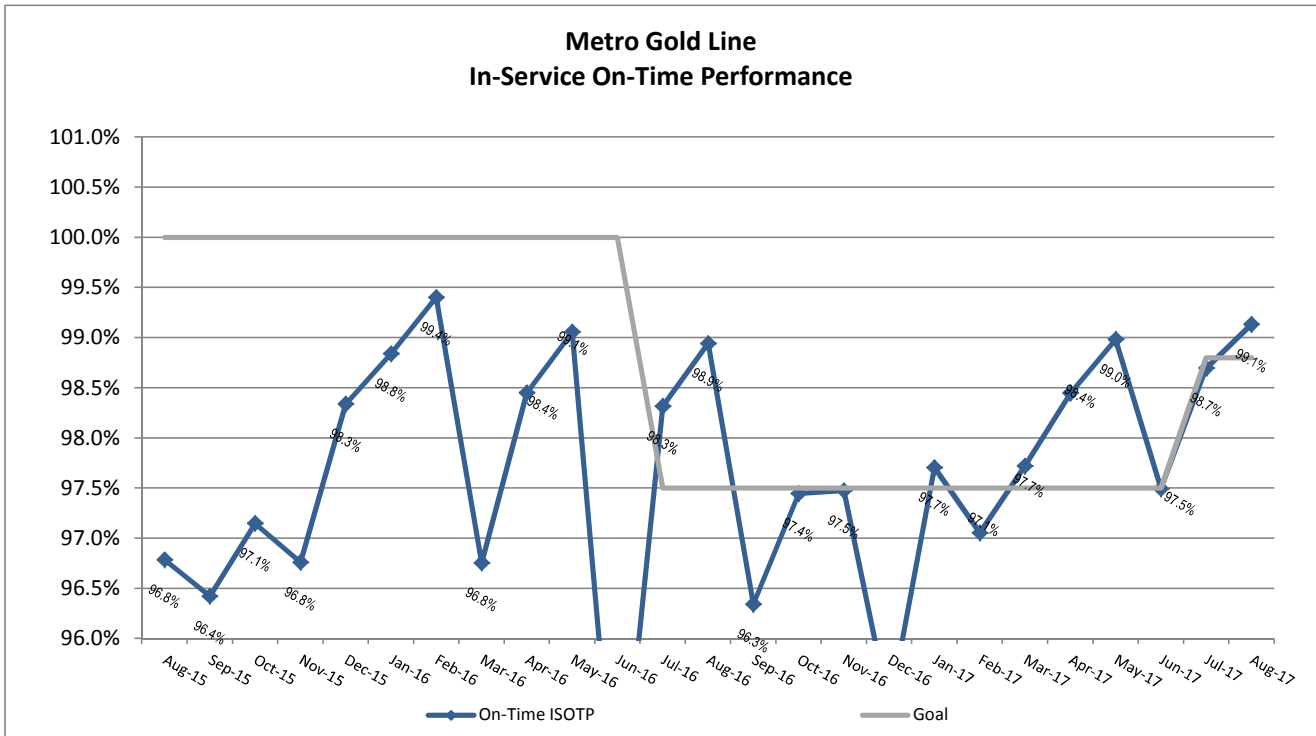
COMPLIANCE WITH SCHEDULED TRAIN MILES



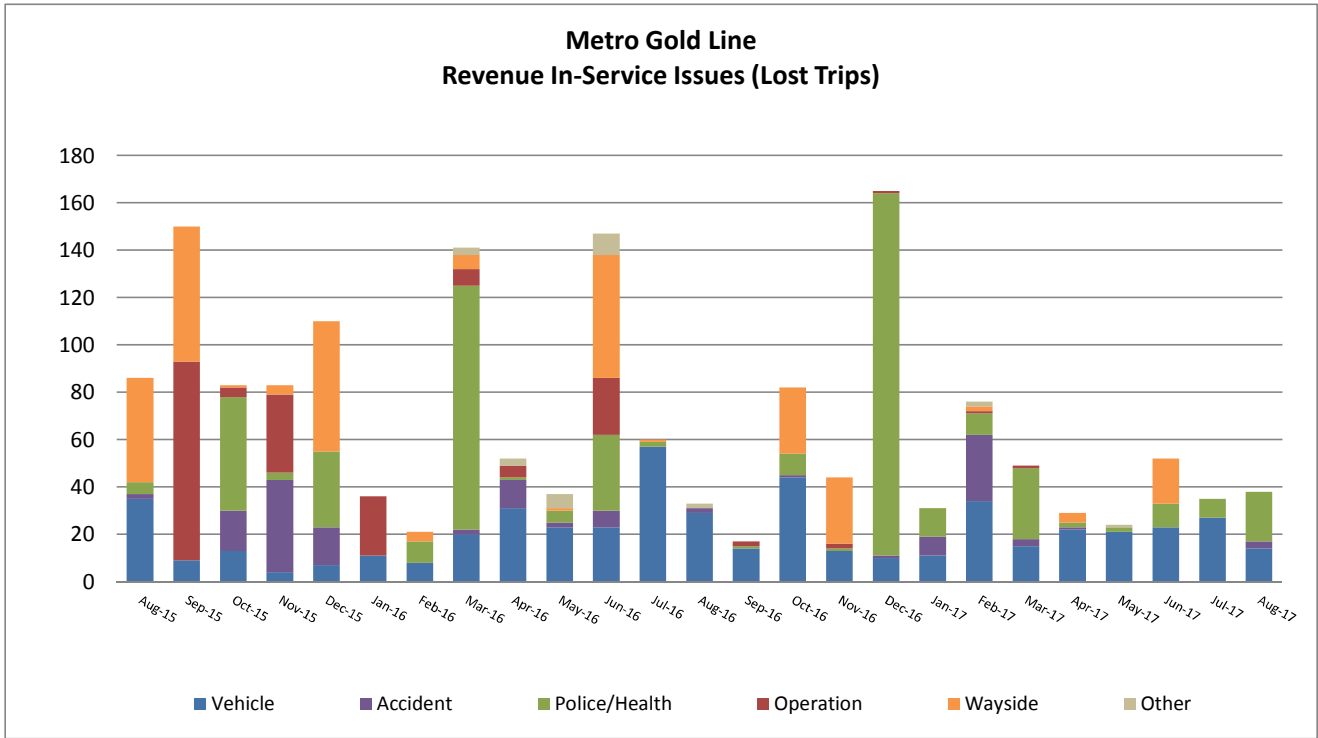
ON-TIME PULL OUTS



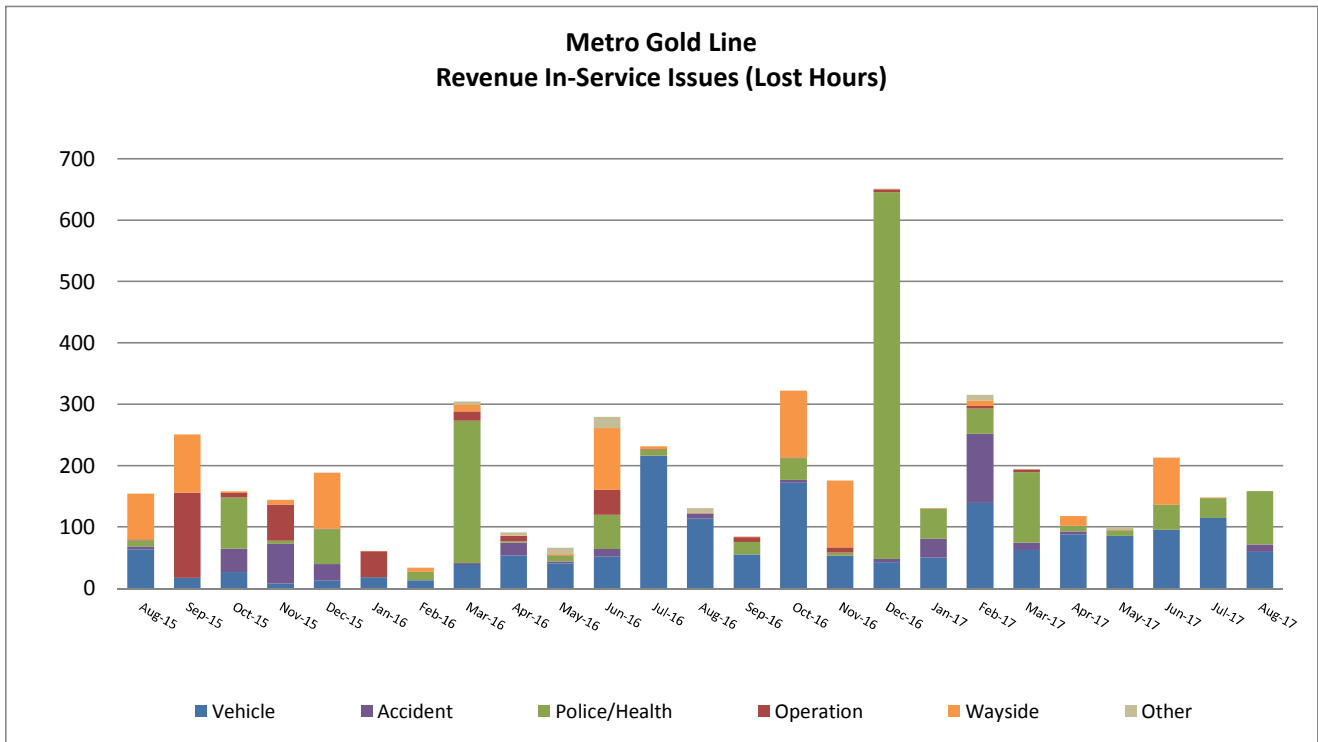
IN-SERVICE ON-TIME PERFORMANCE



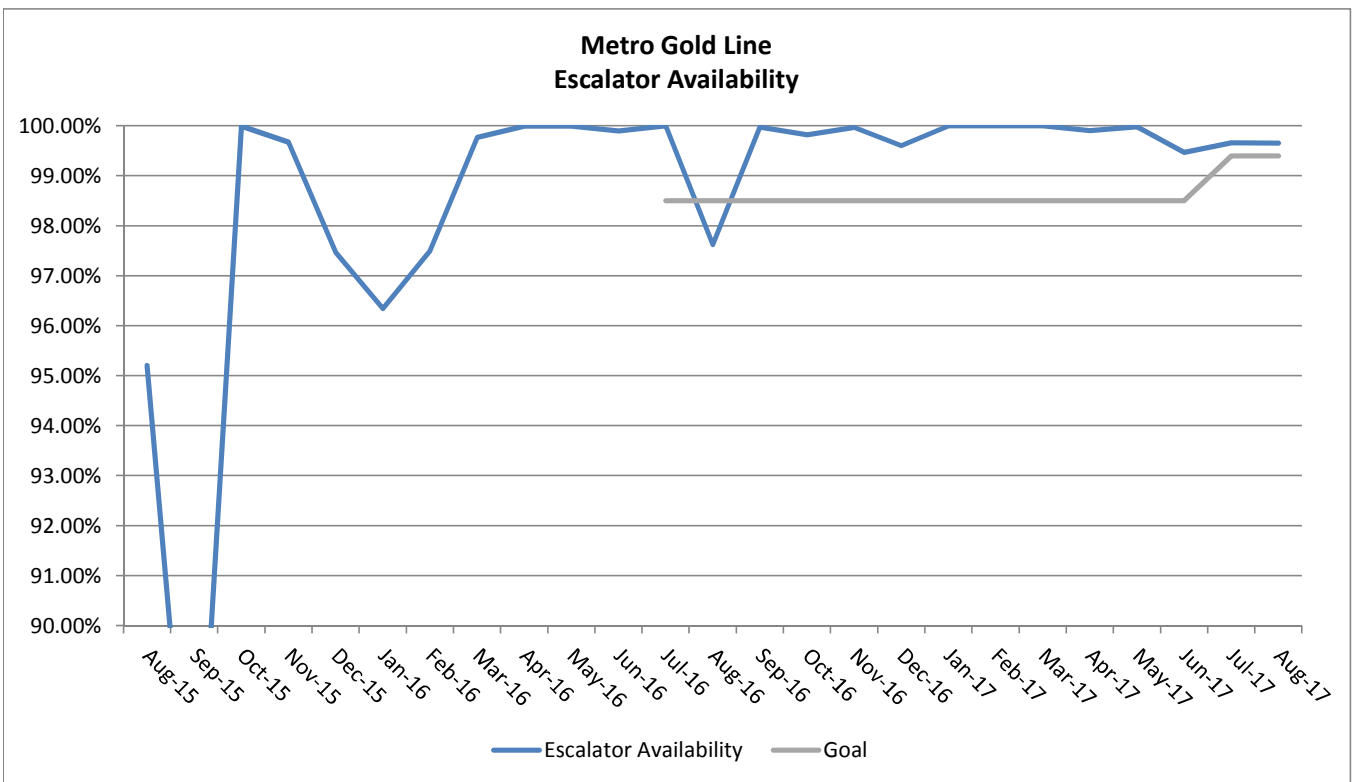
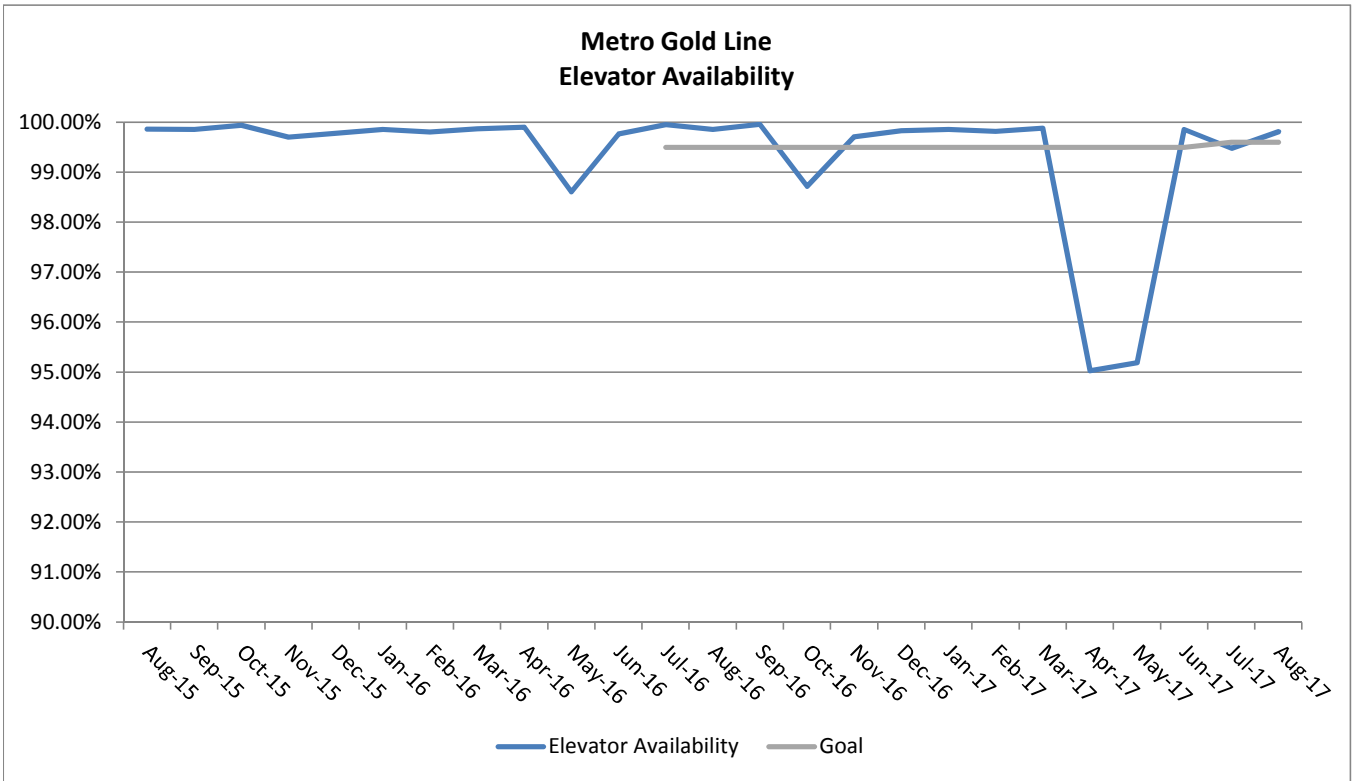
LOST TRIPS



LOST HOURS



VERTICAL TRANSPORTATION AVAILABILITY



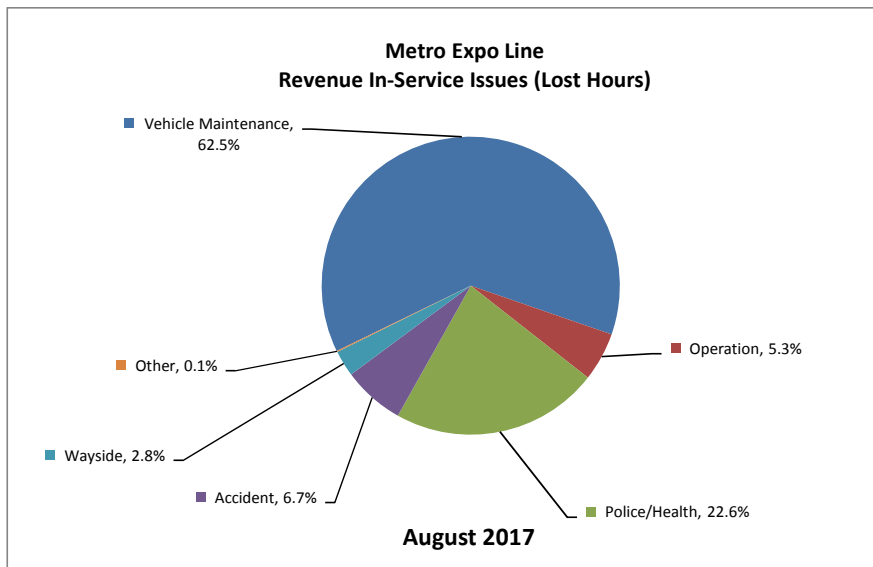
EXPO LINE

Out of a total of 23,047 hours operated, there were approximately 179 total hours of service delays.

August 2017 Service Hours *	Revenue	
	Hours	Percent
Revenue Hours without Delays	22,868	99.2%
Cancelled + Delayed Hours	179	0.8%
Total Revenue Hours	23,047	100.0%

Summary of the major contributors:	Count	Hours	Percent
Operations	1	9.4	5.3%
Accidents	2	12.0	6.7%
Vehicle Maintenance	35	111.7	62.5%
Wayside	1	5.0	2.8%
Police & Health	5	40.3	22.6%
Other	1	0.2	0.1%
Total	45	178.7	100.0%

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



August 2017 Expo Line major delay contributors were as follows:

Operations Incidents:

8/2/2017 6:24:00 AM - Incident# 2894232 (4 lost trips, 564 lost minutes)
Turn backs due to a B/O train at Pico Station .

Accidents:

8/23/2017 7:08:00 PM - Incident# 2902352 (4 lost trips, 579 lost minutes)
Train 671, LRV's (1024B), 1016, 1022.
Colorado/11th southbound Track 4.
Auto makes illegal left turn in to train.

8/28/2017 8:56:00 PM - Incident# 2904068 (1 lost trip, 141 lost minutes)
10-73 Train 602 NB at 23rd Street Grade Crossing

Vehicle Maintenance Incidents:

8/2/2017 5:15:00 AM - Incident# 2894217 (2 lost trips, 282 lost minutes)
Operator reports of propulsion brake faults.
T-123
Train#606
Cars(148B)-114-149
Northbound Trk#2
23rd St Station

8/2/2017 6:15:00 AM - Incident# 2894244 (3 lost trips, 443 lost minutes)
Operator reports of no movement as she exited the portal upon approaching the Pico station.
T-214
Train#601
Cars1034-1043-(1030B)
Pico St Trk#2
Southbound

8/2/2017 8:11:00 AM - Incident# 2894274 (2 lost trips, 302 lost minutes)
Operator reports that he lost cab signal while proceeding into the 26 th street station.
T-047
Train #612
Cars(100A)-146-125
Northbound Trk#3
26th St Station

8/2/2017 2:38:00 PM - Incident# 2894430 (1 lost trip, 141 lost minutes)
Train-102
T-139
Cars (102)-103-132
Southbound, Track #4
La Brea Station
Propulsion / Dynamic Brakes/ No Movement.

8/3/2017 4:12:00 PM - Incident# 2894988 (0 lost trips, 12 lost minutes)
Propulsion / Dynamic Brakes fault.

8/4/2017 7:18:00 AM - Incident# 2895201 (0 lost trips, 7 lost minutes)
Operator T-392 reports having a door problem.

Train 664
T-392
Cars 146-100-103
Downtown Santa Monica, Track 3, northbound

8/5/2017 6:40:00 AM - Incident# 2895582 (2 lost trips, 282 lost minutes)
Pantograph/Arching
Train 659
T-546
155-(122)-140
Sepulveda Trk 3 N/B

8/7/2017 2:01:00 PM - Incident# 2896189 (2 lost trips, 282 lost minutes)
Friction Brakes, cars #(237A)-246-233
Train #656
T-268
Expo UsC Station, Track #004, Southbound.

8/7/2017 5:43:00 PM - Incident# 2896269 (2 lost trips, 294 lost minutes)

Propulsion / Dynamic Brakes, cars #(146A)-156-159
Train #672
T-133
Downtown Santa Monica, Track #003, Northbound.

8/8/2017 3:56:00 PM - Incident# 2896644 (1 lost trip, 153 lost minutes)

Doors
Train 118
T-194
(1017)-1046-1033
Northbound, Track 1 Florence station.

8/9/2017 6:55:00 AM - Incident# 2896841 (8 lost trips, 1,148 lost minutes)

Train reports friction brake faults.
Train 661, T-38
Track 3, Jefferson, North

8/10/2017 9:20:00 AM - Incident# 2897291 (0 lost trips, 6 lost minutes)

Train 662 reported propulsion faults with no movement just north of 20th st IL on track 3 . Operator T-29 operating car 125 with 146-156.

8/10/2017 4:44:00 PM - Incident# 2897450 (2 lost trips, 282 lost minutes)

Train 672 reports self applying friction brakes on LRV 1039
Train 672
T-133
LRV'S (1039) 1041-1023
Metro Center, Track 1, Northbound.

8/11/2017 12:46:00 PM - Incident# 2897806 (1 lost trip, 159 lost minutes)

Train 651 reports no movement with no Faults, LRV 146
Train 651
T-142
LRV'S (146) 160-103
Relief Platform, track 3, northbound.

8/11/2017 5:30:00 PM - Incident# 2897890 (1 lost trip, 141 lost minutes)

Train 604 reports ATP problems, Train proceeded ATP Bypass to 26th Street Station.
Train 604
T-188
LRV'S (238A) 234-229
Santa Monica Station, track 3, northbound.

8/13/2017 2:40:00 AM - Incident# 2898158 (1 lost trip, 141 lost minutes)

Operator reports of door problem.
T-243
Train#660
Cars(1045-1025-1003)
Nothbound Trk #3
USC Expo

8/13/2017 11:01:00 AM - Incident# 2898236 (0 lost trips, 12 lost minutes)

Train 655 reporting self applying friction brakes.
Train 655
T-204
LRV'S (124) 160-146
Metro Center, track 1, northbound.

8/13/2017 7:06:00 PM - Incident# 2898310 (1 lost trip, 141 lost minutes)

Self applying friction brakes
Train # 655
T-455
Cars #(124)-160-104
S/Bound 7th & Metro Station Track-1.

8/14/2017 8:04:00 AM - Incident# 2898453 (0 lost trips, 7 lost minutes)

Train 605 reports ATP failure with no movement at Metro Center platform 1.
Train 605
T-545
LRV'S 230-235-242
Metro Center Station, track 1, northbound.

8/14/2017 7:00:00 PM - Incident# 2898743 (0 lost trips, 10 lost minutes)

Train 671
229-(247)-240
Door Faults
NB Western
T-518

8/15/2017 10:40:00 AM - Incident# 2898997 (1 lost trip, 141 lost minutes)

Doors would not open
Train #654 Car 153-163-145
northbound at Sepulveda station.

8/17/2017 4:02:00 AM - Incident# 2899757 (1 lost trip, 141 lost minutes)

Operator reports of no movement
Train 652
T-545
1024-1016-1022
7th Mtero Ctr., Trk. 1, southbound

8/17/2017 6:01:00 AM - Incident# 2899806 (2 lost trips, 282 lost minutes)

Turn back train due to breakdown at the Pico Station.

8/17/2017 6:19:00 AM - Incident# 2899814 (1 lost trip, 161 lost minutes)

Operator reports of no movement upon arriving at the Jefferson Station.

T-123
Train#651
Cars(135A)-137-153
Jefferson St, Trk#4
Southbound

8/17/2017 7:30:00 AM - Incident# 2899844 (1 lost trip, 141 lost minutes)

Operator reports of prop fault with no movement.

T-123
Train#602
Cars(151)-146-131
Northbound Trk#3
26th St

8/17/2017 3:07:00 PM - Incident# 2900056 (0 lost trips, 6 lost minutes)

Recurring emergency brake application.

Train # 603
T-578
Cars #(10-29A)-1047-1033
W/Bound Santa Monica Track 4.

8/17/2017 3:07:00 PM - Incident# 2900062 (0 lost trips, 6 lost minutes)

Recurring Emergency Brake Application.

Train #603
T-538
Cars #(1029A)-1047-1033
W/Bound Santa Monica Station Track 4.

8/17/2017 8:29:00 PM - Incident# 2900144 (1 lost trip, 141 lost minutes)

Doors fail to open when the interior push button is activated inside the operating cab.

Train #654
T-219
Cars #(1050A)-1030-1042
W/Bound USC/Expo Station Track 4.

8/22/2017 6:27:00 AM - Incident# 2901596 (1 lost trip, 141 lost minutes)

Flower/Adams St's Track-4, Train-663 T-417 cars 1043/1035/1039 without movement and no indications on ADU however, possible air leaking from car 1039B.

8/26/2017 7:21:00 PM - Incident# 2903391 (0 lost trips, 7 lost minutes)

Train-654
T-489
Cars (1022)-1045-1003
Northbound, Track #3
17th Street Station
Propulsion / Dynamic Brakes

8/27/2017 5:29:00 AM - Incident# 2903444 (1 lost trip, 149 lost minutes)

Car 1037B friction brake fault with no movement
T-510
Consist(1037B)1003-1037
Train-654
I-10 Box Portal, Southbound, Track #4

8/27/2017 2:42:00 PM - Incident# 2903529 (0 lost trips, 7 lost minutes)

Propulsion fault/Speed restriction
Train 656
T-417
(159)-114-146
Track 4 Santa Monica N/B

8/30/2017 1:38:00 PM - Incident# 2904910 (1 lost trip, 148 lost minutes)

No movement/No indications
Train 605
T-527
(150B)-100-120
Track 4 Western Station S/B

8/30/2017 4:24:00 PM - Incident# 2904999 (5 lost trips, 705 lost minutes)

Train-604
T-029
Cars (146)-159-102
Northbound, Track #1
7th/Metro Center
No Fault - No Movement

8/30/2017 4:43:00 PM - Incident# 2904996 (2 lost trips, 282 lost minutes)

Train 601 turned back to Santa Monica from Vermont Station

Wayside Incidents:

8/30/2017 10:50:00 AM - Incident# 2904794 (2 lost trips, 302 lost minutes)

Train with no movement at Degnan Interlocking
Train 653
T-457
146-159-102
Track 3 Degnan II. N/B

Police & Health Incidents:

8/14/2017 10:35:00 AM - Incident# 2898537 (0 lost trips, 22 lost minutes)

Train #651 reports sick individual Requesting medical assistance on board car# 146B-160-151 ,southbound at Westwood station.

8/16/2017 1:39:00 PM - Incident# 2899546 (6 lost trips, 846 lost minutes)

Reports of an abandoned vehicle blocking Trk. 3 at 19th Street

8/22/2017 6:09:00 AM - Incident# 2901619 (1 lost trip, 141 lost minutes)

Expo/Sepulveda Station, Train-659 T-543 cars 125/142/155 with subject having medical emergency on-board train car 125.

8/23/2017 3:02:00 PM - Incident# 2902301 (8 lost trips, 1,128 lost minutes)

Train operator received verbal bomb threat from patron onboard train.

8/25/2017 5:46:00 PM - Incident# 2903162 (2 lost trips, 282 lost minutes)

Train turned back from 23rd street station due to car on the R.O.W.
Train # 603
T-536
23rd Street, track #3, northbound

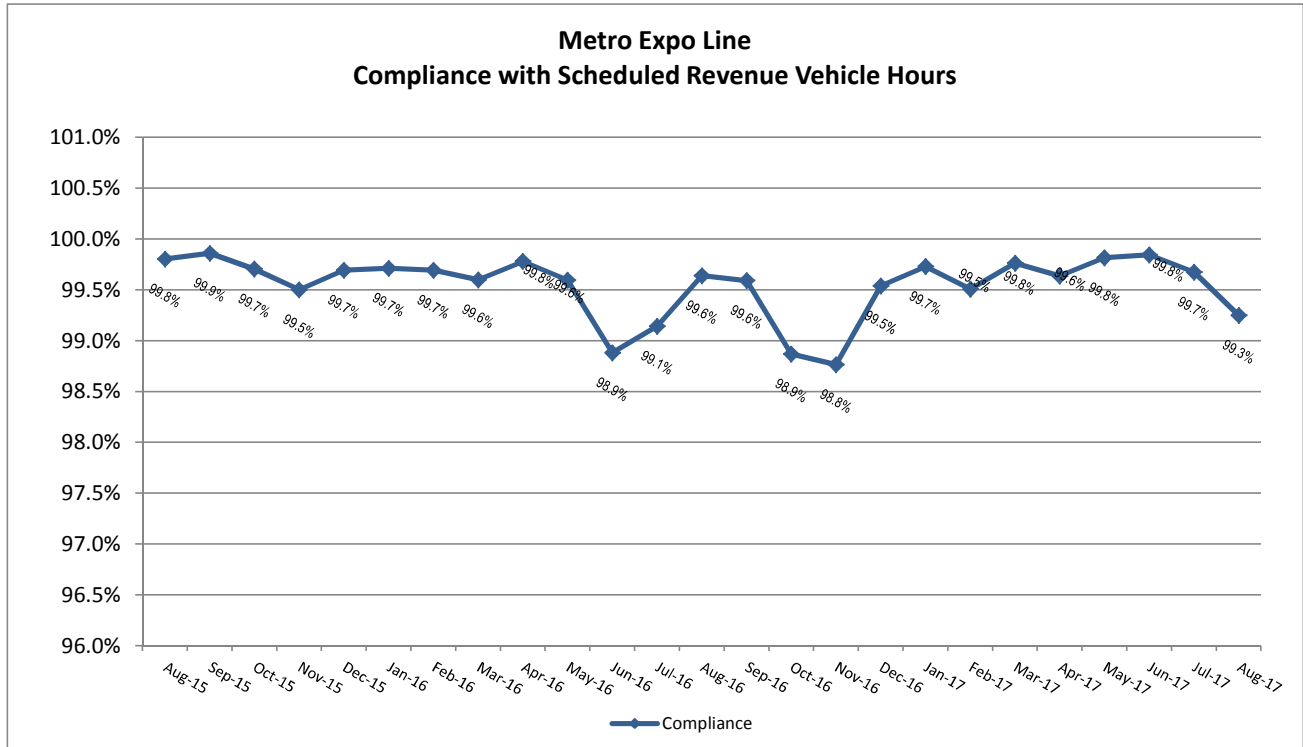
Other Incidents:

8/27/2017 8:50:00 AM - Incident# 2903477 (0 lost trips, 12 lost minutes)

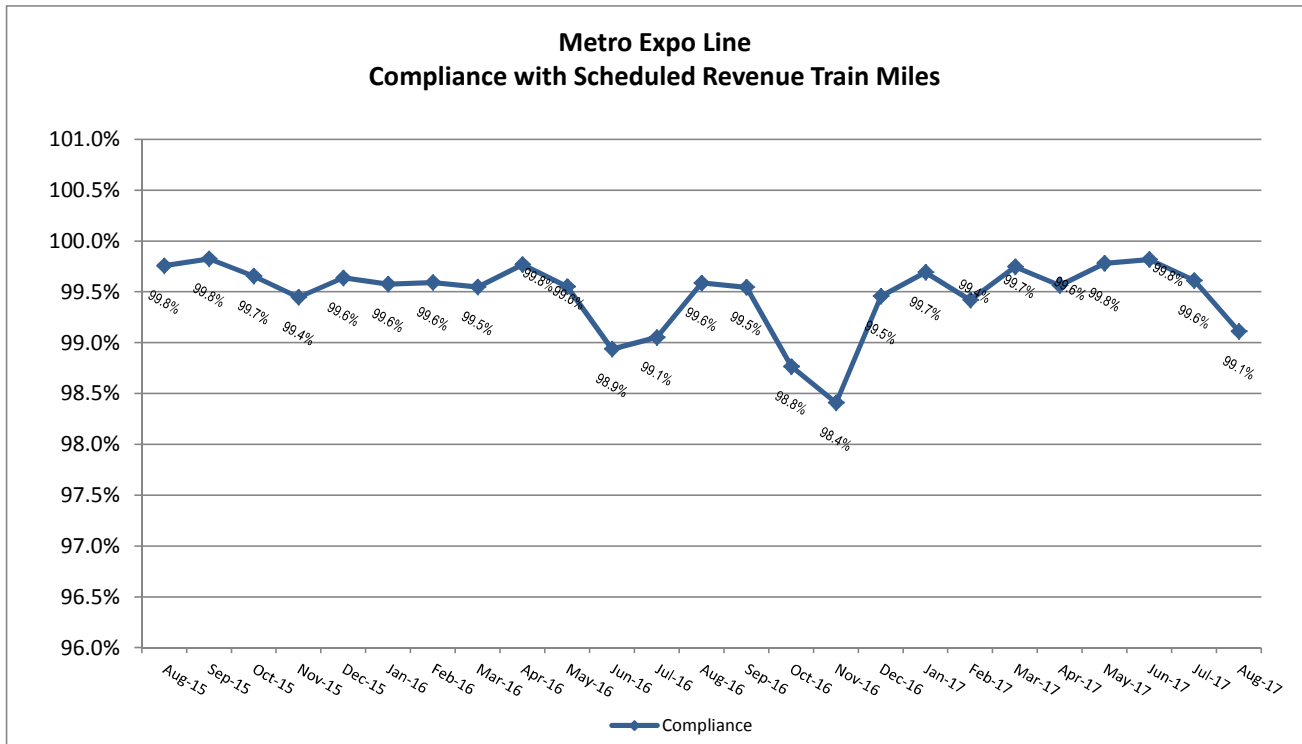
Train delayed due to open doors at platform.
Train 656
T-414
162-(119)-148
Track 3 Bundy Station N/B

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

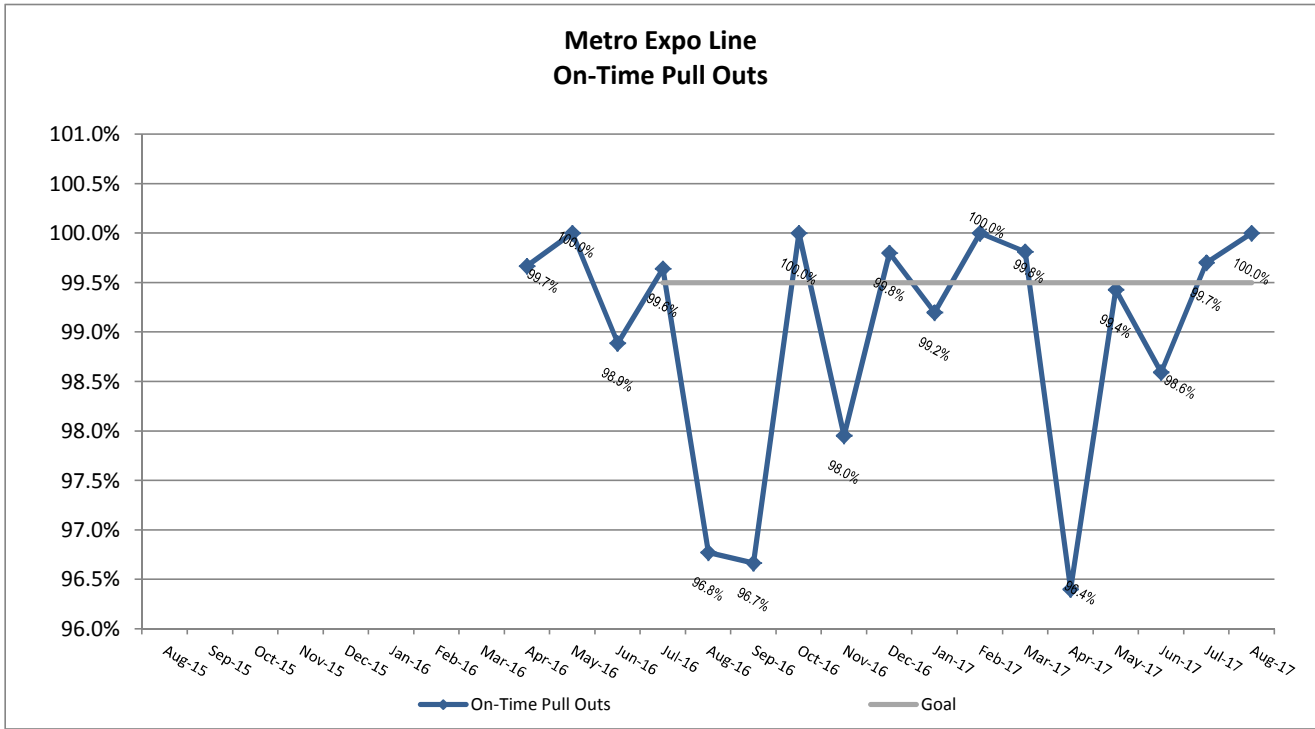
COMPLIANCE WITH SCHEDULED VEHICLE HOURS



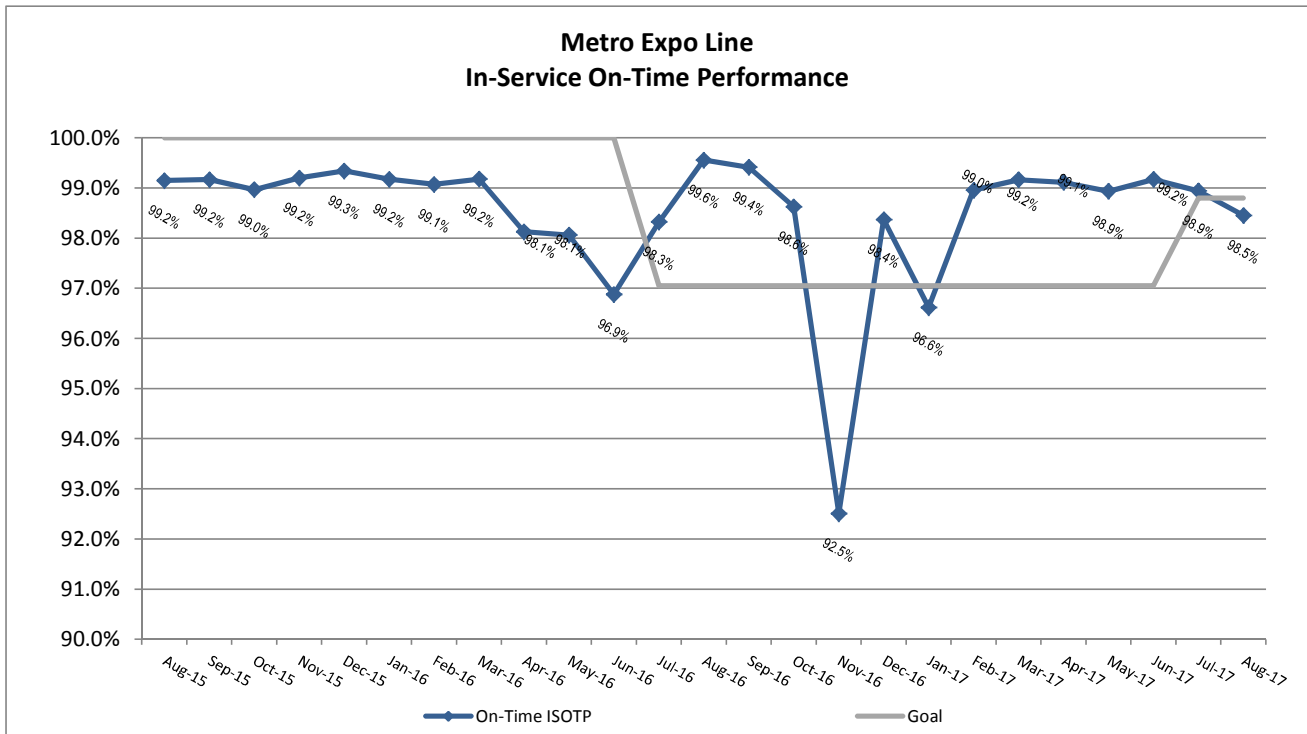
COMPLIANCE WITH SCHEDULED TRAIN MILES



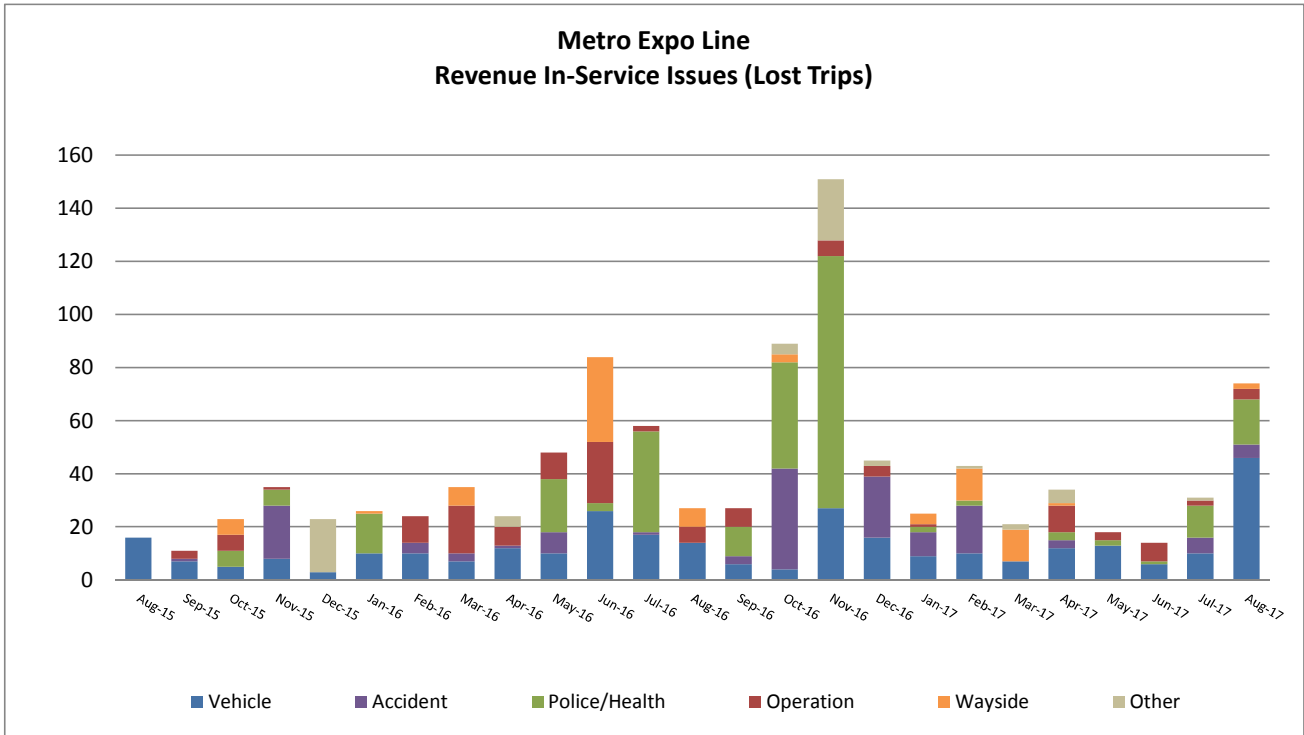
ON-TIME PULL OUTS



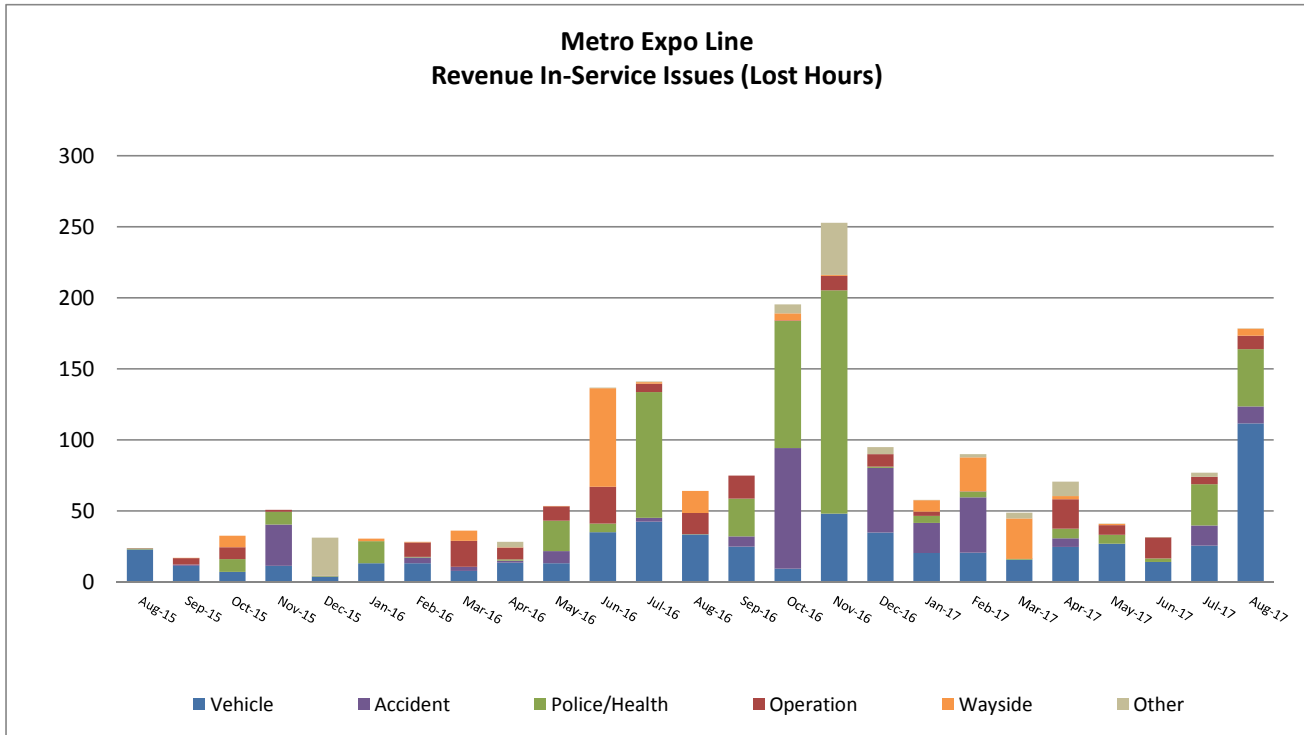
IN-SERVICE ON-TIME PERFORMANCE



LOST TRIPS



LOST HOURS



VERTICAL TRANSPORTATION AVAILABILITY

