

Los Angeles County
Metropolitan Transportation Authority
California

OPERATIONS MONTHLY RAIL PERFORMANCE REPORT

JULY 2016

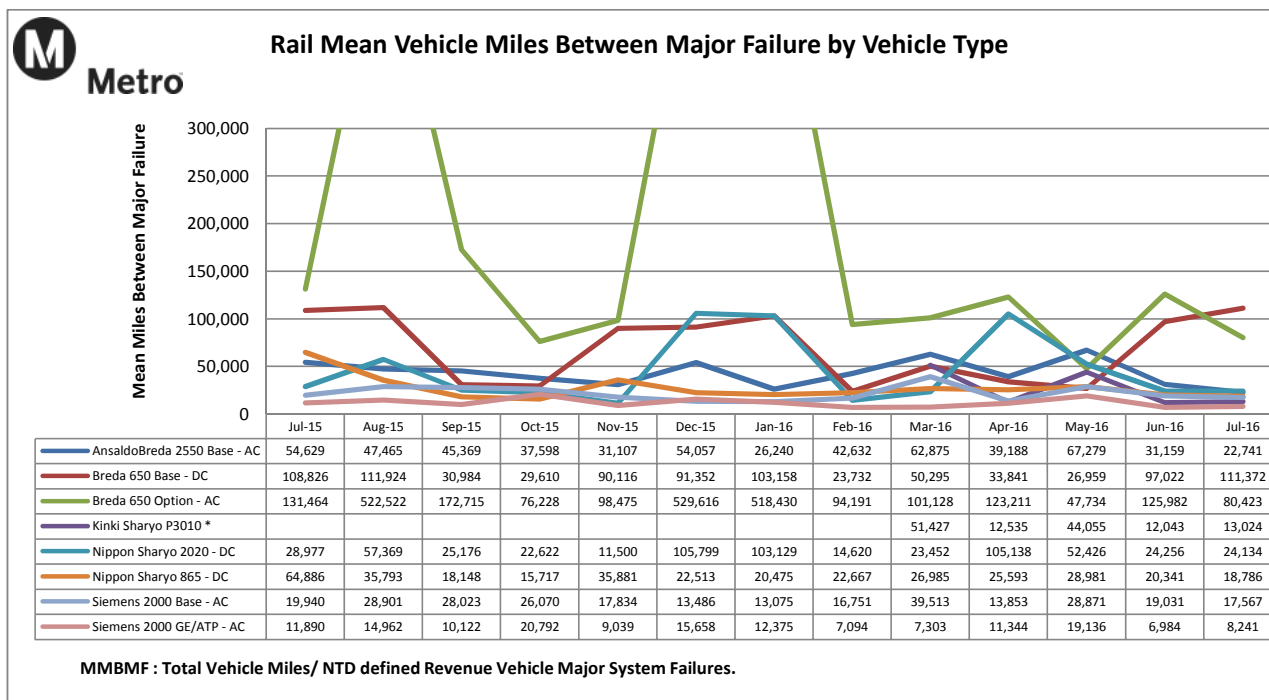


METRO RAIL PERFORMANCE – JULY 2016

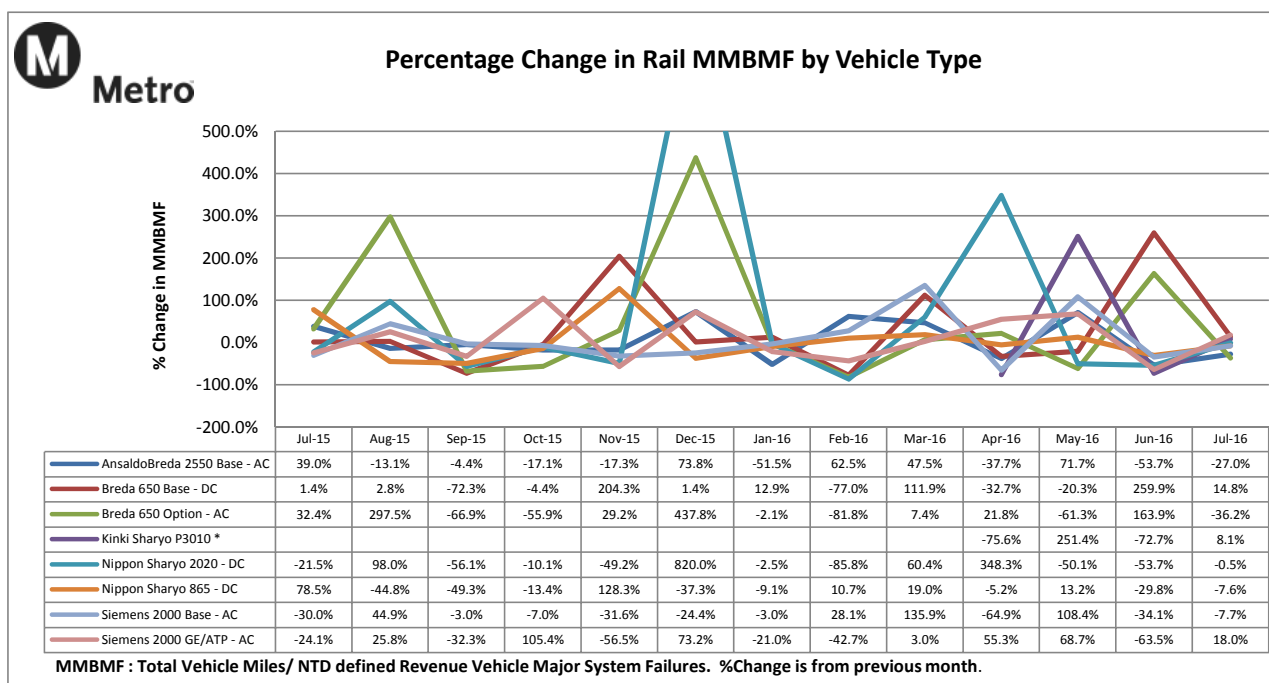
Contents	Page
Systemwide Performance	
Rail Mean Miles Between Major Failure by Vehicle Type	3
Fleet Distribution Report	4
Vehicle Availability by Division	5
Lost Revenue Vehicle Hours by Category, by Division	6
Vertical Transportation - Systemwide	9
Blue Line Performance	
Performance Summary	10
Major Incident Detail	11
Performance Charts	25
Red / Purple Line Performance	
Performance Summary	29
Major Incident Detail	30
Performance Charts	33
Green Line Performance	
Performance Summary	37
Major Incident Detail	38
Performance Charts	43
Gold Line Performance	
Performance Summary	47
Major Incident Detail	48
Performance Charts	56
Expo Line Performance	
Performance Summary	60
Major Incident Detail	61
Performance Charts	71

METRO RAIL PERFORMANCE – JULY 2016

Rail Performance Systemwide



* KinkiSharyo rolling stock began service March 2016



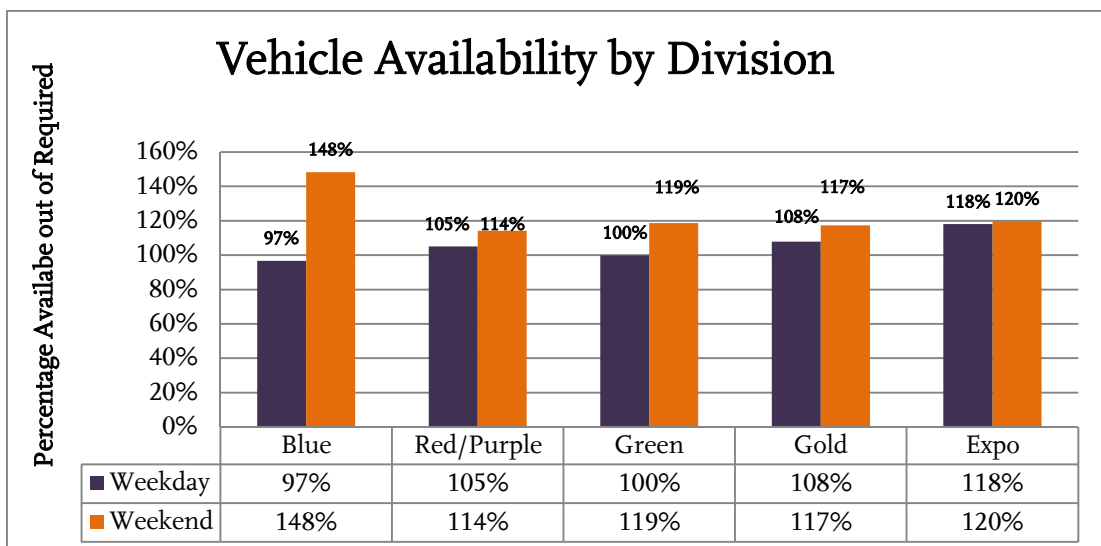
* KinkiSharyo rolling stock began service March 2016

Rail Fleet Distribution – JULY 2016

Number of Rail Vehicle Type by Division	Blue	Red / Purple	Green	Gold	Expo
AnsaldoBreda 2550 Base - AC				50	
Breda 650 Base - DC		30			
Breda 650 Option - AC		74			
Kinki Sharyo P3010				10	17
Nippon Sharyo 2020 - DC	14				1
Nippon Sharyo 865 - DC	38				16
Siemens 2000 Base - AC			29		
Siemens 2000 GE/ATP - AC	17				6
TOTALS	69	104	29	60	40

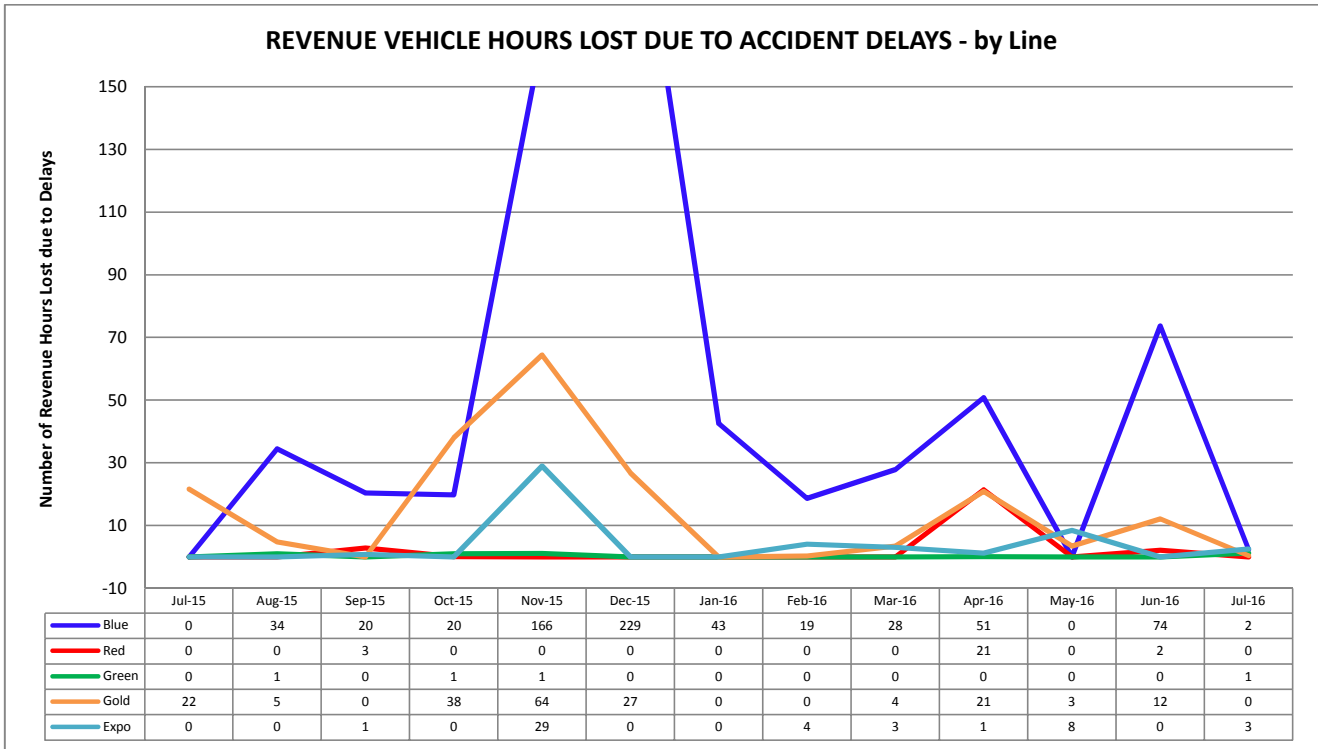
Vehicle Availability Systemwide

Blue			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	60	58	97%
Weekend	26	39	148%
Red/ Purple			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	74	78	105%
Weekend	55	63	114%
Green			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	22	22	100%
Weekend	14	17	119%
Gold			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	44	47	108%
Weekend	33	38	117%
Expo			
Day Type	Vehicles Required	Average Available	Average % Available
Weekday	22	26	118%
Weekend	22	27	120%

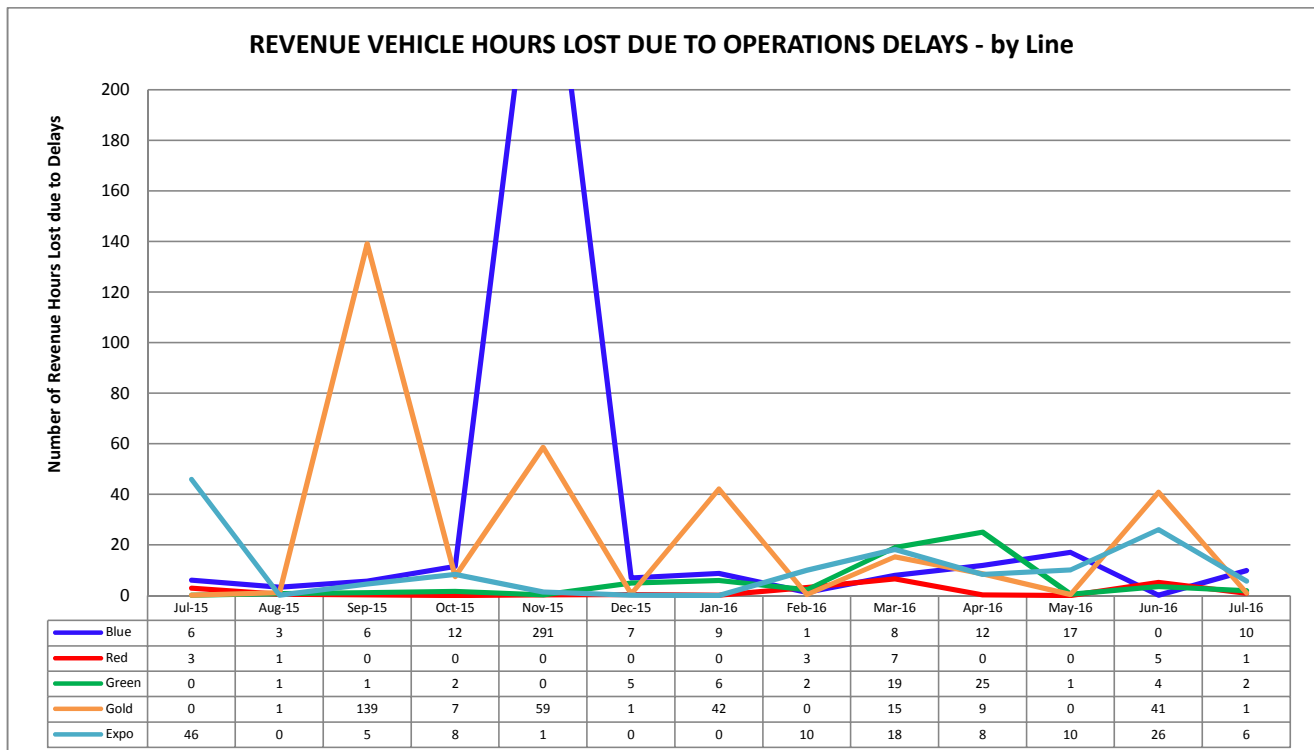


RAIL DELAYS BY CATEGORY - SYSTEMWIDE

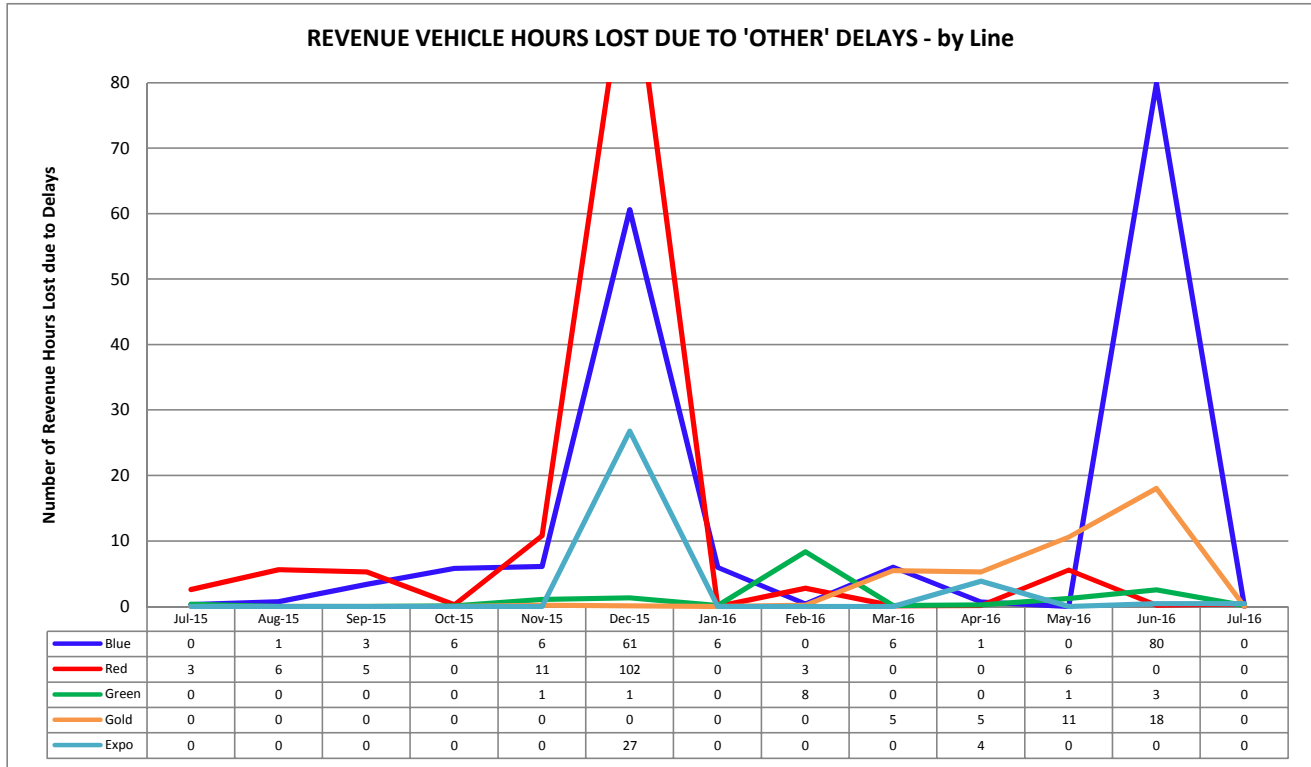
Revenue Hours Lost Related to - ACCIDENTS



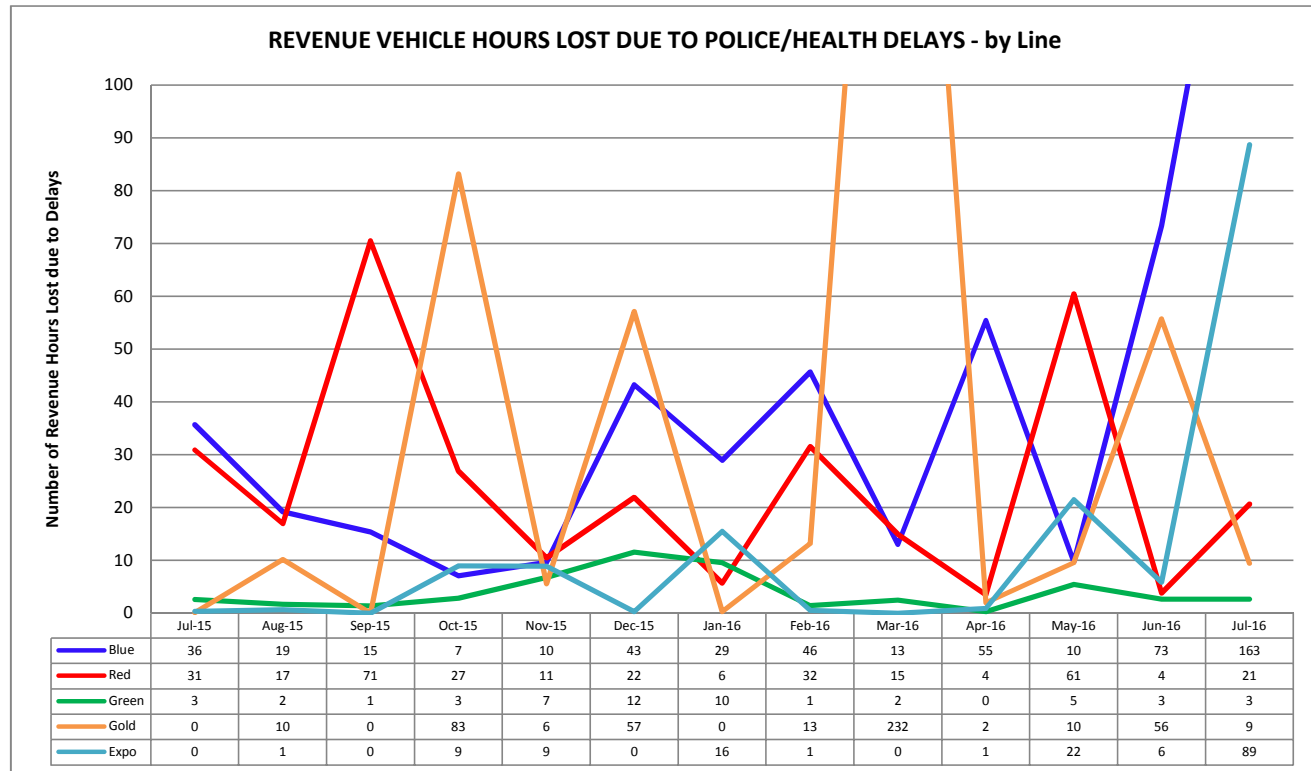
Revenue Hours Lost Related to - OPERATIONS



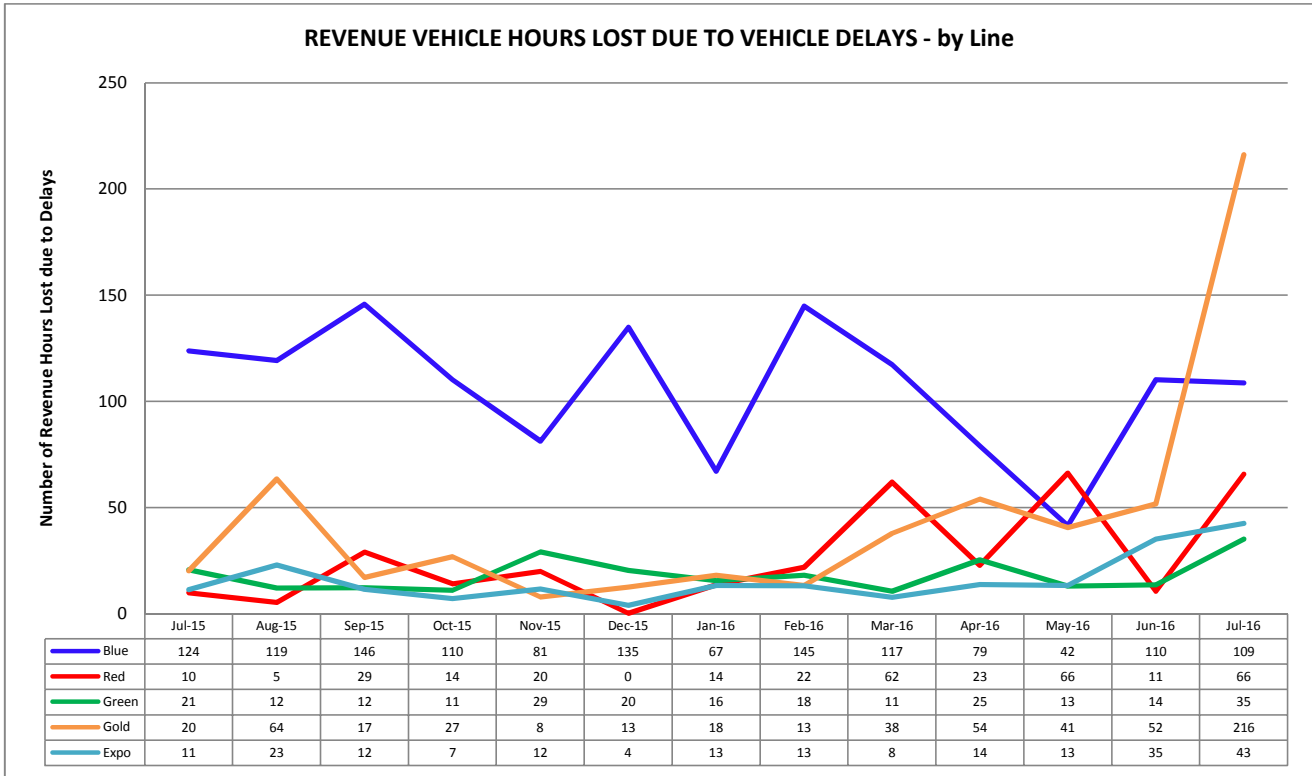
Revenue Hours Lost Related to - OTHER



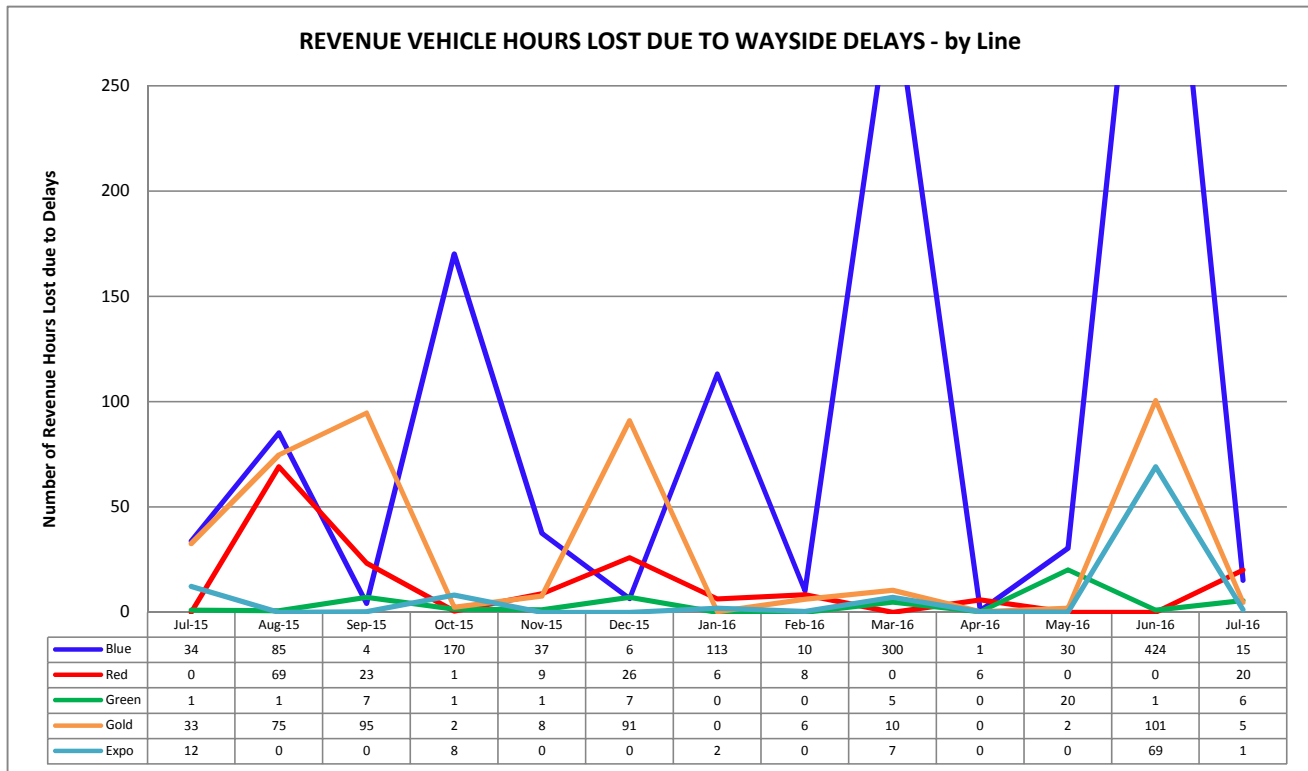
Revenue Hours Lost Related to - POLICE & HEALTH



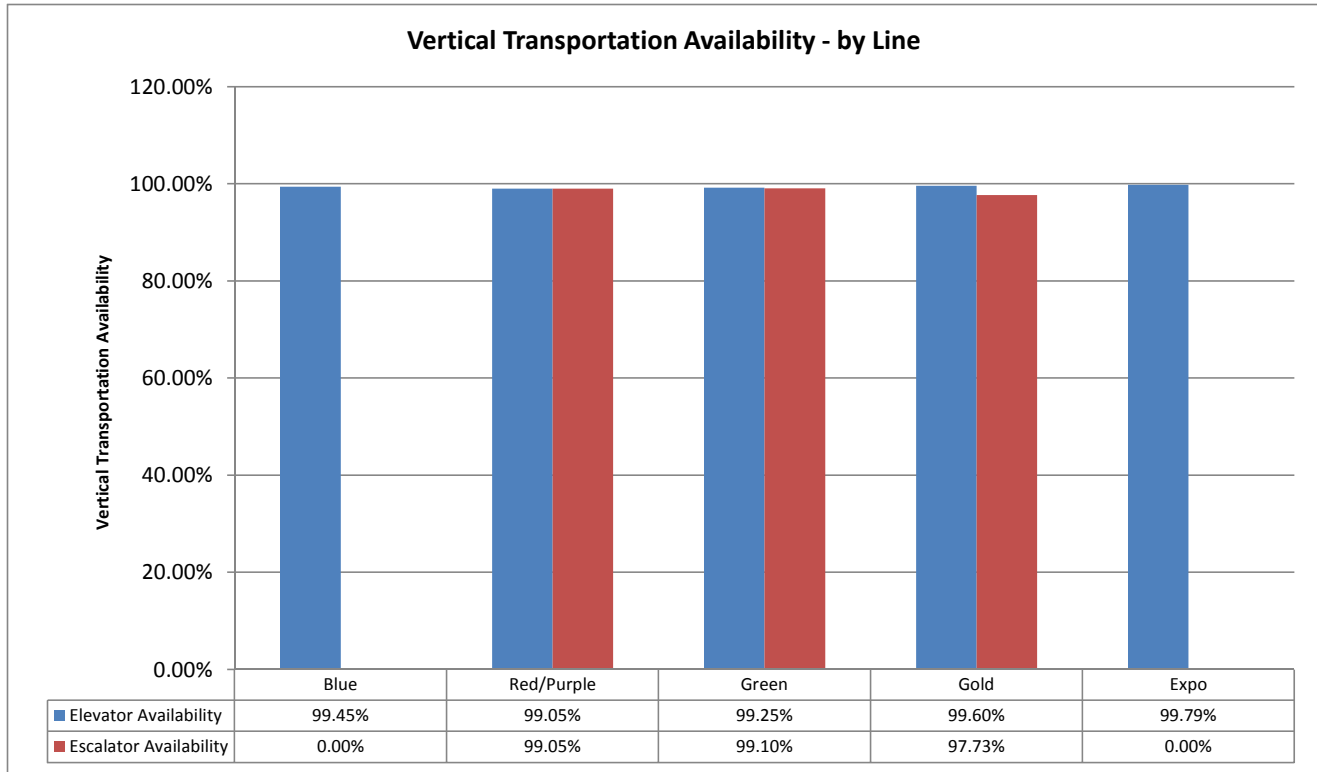
Revenue Hours Lost Related to - Vehicle Delays



Revenue Hours Lost Related to - WAYSIDE



Systemwide Vertical Transportation Availability by Line

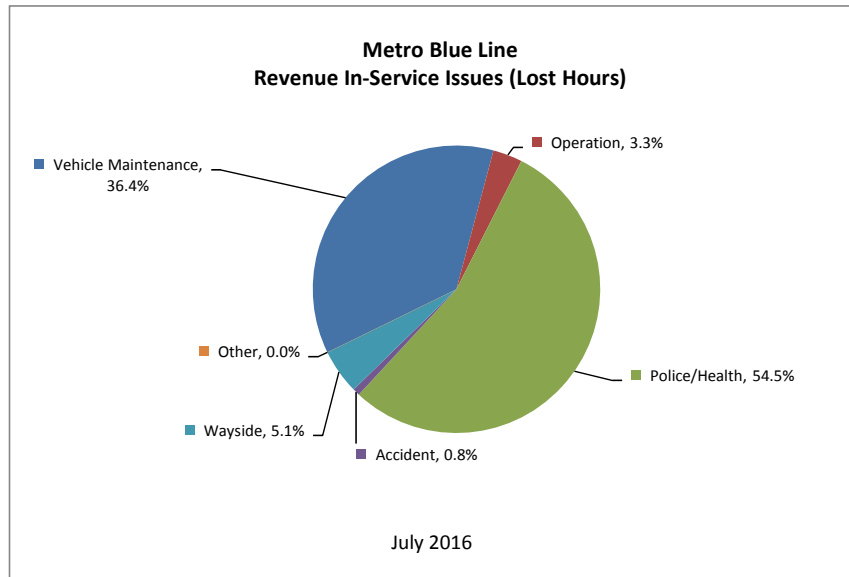


BLUE LINE

Out of a total of 18,974 hours operated, there were approximately 299 total hours of service delays.

July 2016 Service Hours	Revenue	
	Hours	Per Cent
Revenue Hours without Delays	18,675	98.4%
Hours Delayed	299	1.6%
Total Revenue Hours	18,974	100.0%

Summary of the major contributors:	Count	Hours	Per Cent
Operations	11	9.9	3.3%
Accidents	2	2.4	0.8%
Vehicle Maintenance	48	108.8	36.4%
Wayside	5	15.1	5.1%
Police & Health	17	162.9	54.5%
Other	0	0.0	0.0%
Total	83	299.2	100.0%



July 2016 Blue Line major delay contributors were as follows:

Wayside Incidents:

7/4/2016 4:33:00 PM - Incident# 2749148 (0 lost trips, 10 lost minutes)

Loss of Power from Washington Station to Vernon Station Track 1 and 2

7/16/2016 4:20:00 PM - Incident# 2753723 (0 lost trips, 12 lost minutes)

Traction Power to repair (4) broken dropper/ hanger on track 2 between milepost marker 10.0 to 124th Street grade crossing.

7/27/2016 1:44:00 PM - Incident# 2758124 (0 lost trips, 18 lost minutes)

Switch 13 at Willowbrook interlocking is not in correspondence in the "Normal" position.

7/27/2016 7:30:00 PM - Incident# 2758263 (0 lost trips, 20 lost minutes)

Switch 21 and 42, Main Yard cannot be remotely set.

7/28/2016 3:59:00 PM - Incident# 2758680 (5 lost trips, 849 lost minutes)

Loss of Signaling System at 7th and Metro Station

Vehicle Maintenance Incidents:

7/1/2016 6:39:00 AM - Incident# 2748225 (0 lost trips, 3 lost minutes)

LRV 165A Overspeed at 5mph at Grand Station, Northbound.

Train 115

T-233

LRV'S (165A) 120-118

Grand Station, Track 1, Northbound.

7/1/2016 7:15:00 AM - Incident# 2748238 (0 lost trips, 7 lost minutes)

Train 120 reports repeated Propulsion Faults on LRV 246

Train 120

T-258

LRV'S 301 (246) -245

Willow Station, Track 1, Northbound.

7/1/2016 8:40:00 PM - Incident# 2748599 (1 lost trip, 166 lost minutes)

ATP Failure

Train # 112

T-291

(164)-122

SB, 7th and Metro Center Station, Track #2

7/2/2016 6:52:00 AM - Incident# 2748656 (0 lost trips, 5 lost minutes)

Train 103 reports Propulsion Faults with a speed restriction.

Train 103

T-487

LRV'S (233B) 234

Compton Station, Track 1 Northbound.

7/2/2016 8:31:00 AM - Incident# 2748679 (0 lost trips, 9 lost minutes)

Train 102 reports a door problem at 103rd Street Station. Doors 3 and 4 cutout on 242.

Train 102

T-281

LRV'S (242) 232

103rd Street, track 2, southbound.

7/5/2016 1:05:00 PM - Incident# 2749494 (0 lost trips, 5 lost minutes)

Dirty Car on 122B

T-69, train 104

(122)-124-135

Pacific Station, track 1, north

7/6/2016 3:34:00 PM - Incident# 2749960 (1 lost trip, 172 lost minutes)

Prop fault on car 142

T-291, train 126

(142)-124-135

Manville, track 1, north

7/6/2016 5:20:00 PM - Incident# 2749987 (2 lost trips, 346 lost minutes)

Prop fault on car 231

T-125, train 127

(231)-239

Dominguez flyover, track 1, north

7/7/2016 8:08:00 AM - Incident# 2750198 (2 lost trips, 347 lost minutes)

Train-109
T-115
Cars (233)-237
103rd Station, Track 1
Northbound

Doors B/O unable to close.

7/7/2016 11:31:00 AM - Incident# 2750287 (1 lost trip, 168 lost minutes)

Train-104
T-224
Cars (239B)-248
Imperial Station, Track #1
Northbound

Operator reports smelling smoking brakes from consist. Requested to investigate.

7/7/2016 3:50:00 PM - Incident# 2750401 (0 lost trips, 8 lost minutes)

Operator reports of propulsion faults.

Train 110
T-376
(130)-114
Firestone station, Trk. 2, southbound

7/8/2016 6:06:00 AM - Incident# 2750547 (2 lost trips, 333 lost minutes)

Propulsion / Dynamic Brakes
(301)-244-234
Train 606
T-76
124th, Southbound, Track 2

7/11/2016 4:43:00 AM - Incident# 2751383 (0 lost trips, 10 lost minutes)

Air leak.
Train #112.
T-037.
LRV- (105A), 130, 111.
Grand Station, Track #1, Northbound.

7/12/2016 5:46:00 AM - Incident# 2751888 (0 lost trips, 7 lost minutes)

Train 103 reports Propulsion Faults with a speed restriction.

Train 103

T-037

LRV'S (142A) 103-104

Compton Station, Track 2 , Southbound.

7/12/2016 7:19:00 AM - Incident# 2751924 (0 lost trips, 6 lost minutes)

Train 108 reports door problem on LRV 248B doors 1/2 and 3/4 at 7th & Metro with no movement.

Train 108

T-259

LRV'S 230- (248B) 245

7th & Metro Station, Track1, Northbound.

7/12/2016 7:57:00 AM - Incident# 2751939 (2 lost trips, 335 lost minutes)

Pantograph on LRV 234A is chipped.

Train 118

T-34

LRV'S (234) 238

Compton Station, Track 2, Southbound

7/12/2016 10:10:00 AM - Incident# 2752076 (0 lost trips, 5 lost minutes)

Train 111 reports propulsion faults, unable to cleared with the 90 second shutdown. unknown car

Train 111

T-259

LRV'S 113-122-101

Artesia Station, Track 2, southbound.

7/12/2016 3:18:00 PM - Incident# 2752151 (0 lost trips, 15 lost minutes)

Operator reports of a recurring propulsion fault.

Train 107

T-233

(143A)140-148

Washington station, Trk. 2, southbound

7/13/2016 7:08:00 AM - Incident# 2752375 (7 lost trips, 1,187 lost minutes)

Other Vehicle System (Unknown object lodged underneath A-truck of 231A)

(231B-238

Train 117

T-43

18th Street, Northbound, Track 1

7/13/2016 4:20:00 PM - Incident# 2752626 (0 lost trips, 10 lost minutes)

Operator reports of cutting out doors

Train 122

T-043

(104AB)135-145

Del Amo station, Trk. 1, northbound

7/13/2016 5:15:00 PM - Incident# 2752658 (2 lost trips, 335 lost minutes)

Operator reports of a recurring, non clearable propulsion fault.

Train 121

T-240

(238A)231-235

Slauson station, Trk. 2, southbound

7/14/2016 8:00:00 AM - Incident# 2752861 (0 lost trips, 12 lost minutes)

Train-106

T-037

Cars (135A)-145-104

Grand Station, Track #2

Southbound

No Fault - No Movement no indications.

7/15/2016 7:17:00 AM - Incident# 2753274 (1 lost trip, 178 lost minutes)

Doors not opening.

Train #113

T-152

LRV- (235A), 234.

Artesia Station, Track #1, northbound.

7/17/2016 1:06:00 PM - Incident# 2753894 (1 lost trip, 116 lost minutes)

Door issues

Reports recurring propulsion dynamic brake fault.

Train #106

T-149

(240)-247

NB, PCH Station, Track #1

7/17/2016 7:59:00 PM - Incident# 2753942 (1 lost trip, 116 lost minutes)

Operator reports of a recurring propulsion fault

Train 108

T-353

(301A,B)302

7th Metro Ctr., Trk. 2, southbound

7/18/2016 8:30:00 AM - Incident# 2754112 (4 lost trips, 700 lost minutes)

No movement.

Train 105

T-298

113A-166-139

NB-Elm grade crossing-1

7/18/2016 9:40:00 AM - Incident# 2754143 (1 lost trip, 167 lost minutes)

Door problem no movement.

Train 116

T-281

233-234-239

NB-Grand station-1

7/18/2016 9:50:00 AM - Incident# 2754177 (0 lost trips, 12 lost minutes)

Door problem. unknown doors.

Train 120

T-400

235-237

NB, San Pedro Station, Track 1

7/18/2016 6:10:00 PM - Incident# 2754427 (1 lost trip, 167 lost minutes)

Reports the smell of burning brakes

Train #124

T-43

(240B)-234-239

Florence Station, Track #2, SB

7/19/2016 5:02:00 PM - Incident# 2754907 (0 lost trips, 8 lost minutes)

Friction Brake Application: 7th and Metro (trk2)

Train 122

Cars: (118)-138-128

Operator T-59

Southbound, trk 2

7/19/2016 5:46:00 PM - Incident# 2754918 (1 lost trip, 179 lost minutes)

Propulsion Fault: No Movement

T-69

Train 103

Florence Interlocking

Southbound, Track 2

Cars 110-146-134

7/19/2016 9:36:00 PM - Incident# 2754961 (0 lost trips, 15 lost minutes)

Train 131

T-201

Cars (115A)-145

Anaheim N/B

self-applying brakes

7/20/2016 1:19:00 PM - Incident# 2755261 (1 lost trip, 167 lost minutes)

Operator reports of a recurring propulsion fault

Train 125

T-125

(130)133-134

Signal 4n Main Yard, Trk. 1, northbound

7/21/2016 1:48:00 PM - Incident# 2755760 (2 lost trips, 335 lost minutes)

Low Air Pressure on car 232

T-485, train 110

(232)-245-242

Wahsington/Long Beach, track 1, north

7/21/2016 4:11:00 PM - Incident# 2755819 (1 lost trip, 167 lost minutes)

Doors 5/6 offline on car 244B

T-353, train 107

(244B)-233-230

Del Amo Station, track 1, north



RAIL PERFORMANCE

7/22/2016 3:44:00 PM - Incident# 2757146 (0 lost trips, 11 lost minutes)

Train with door problem. No movement from 7th and Metro Center.

Train # 105

T-143

240-(234)-231

7th and Metro Center Station,Track #2,SB

7/22/2016 4:16:00 PM - Incident# 2756304 (0 lost trips, 8 lost minutes)

Propulsion fault with a speed restriction.

Reports recurring propulsion dynamic brake fault.

Self applying brakes

Train #126

T-291

(232)-244-245

NB, Compton Station, Track #1

7/22/2016 5:01:00 PM - Incident# 2756327 (1 lost trip, 166 lost minutes)

Reports load noise coming from lead car

Train #124

T-183

(119A)-137-160

Compton Station, Track #1, NB

7/24/2016 5:33:00 PM - Incident# 2756758 (0 lost trips, 12 lost minutes)

Operator reports of no train movement due to doors being stuck

Train 103

T-183

147-109-159

1st Stret station, Trk. 1, southbound

7/26/2016 4:02:00 AM - Incident# 2757414 (1 lost trip, 167 lost minutes)

Compton Station, Train-112 T-37 consist #124-153-120 with self appying brakes on car #124A.

7/26/2016 2:58:00 PM - Incident# 2757703 (0 lost trips, 8 lost minutes)

Operator reports of self applying brakes

Train 123

T-149

(157)120-153

Compton station, Trk. 1, northbound

7/27/2016 5:25:00 AM - Incident# 2757907 (0 lost trips, 11 lost minutes)

Car Body (Interior/Exterior) Loose mirror
(138A)-153-143
Train 101
T-485
Willow, Southbound, Track 2

7/27/2016 9:58:00 AM - Incident# 2758055 (0 lost trips, 6 lost minutes)

Car Body (Interior/Exterior) Master Controller
(164B)-149-117
Train 103
T-102
103rd, Southbound, Track 2

7/27/2016 3:39:00 PM - Incident# 2758178 (0 lost trips, 10 lost minutes)

Operator reports of no movement, due to doors being damaged

Train 122
T-43
110-113-158
7th Metro Ctr., Trk. 2, southbound

7/27/2016 9:37:00 PM - Incident# 2758321 (1 lost trip, 167 lost minutes)

Train experiencing reoccurring propulsion fault.
Train 106, T-376
(235B)-240-234
Track 2, Firestone, South

7/28/2016 7:49:00 PM - Incident# 2758735 (0 lost trips, 8 lost minutes)

Operator reports of recurring, non clearing propulsion faults.

Train 131
T-137
(301A)302-232
Willowbrokk station, Trk. 1, northbound

7/29/2016 4:18:00 PM - Incident# 2759113 (0 lost trips, 21 lost minutes)

Reports MA low propulsion dynamic brake fault with no movement
Train #101
T-264
137-(140)-114
SB, 92nd grade crossing, Track #2

7/31/2016 9:05:00 PM - Incident# 2759569 (1 lost trip, 116 lost minutes)

Train pantograph has damage and also experiencing reoccurring propulsuion faults.

Police & Health Incidents:

7/1/2016 12:55:00 PM - Incident# 2748377 (0 lost trips, 5 lost minutes)

T-102 reports that a male of 60 years old having a seizure on the platform at pacific coast hwy station.

7/1/2016 4:23:00 PM - Incident# 2748553 (0 lost trips, 11 lost minutes)

Sheriff holding train due to disturbance

Train #125

T-53

140-135-161

SB, Del Amo Station, Tk#2

7/5/2016 9:06:00 PM - Incident# 2749627 (0 lost trips, 36 lost minutes)

Patron reported that an individual had a gun on car 120A

(120A)-160

Train 111

Washington Northbound Track #1.

T-211

7/7/2016 1:58:00 PM - Incident# 2750343 (52 lost trips, 8,720 lost minutes)

LASD (Lt. Maradiaga) is advising of a suspicious package by the escalator on the platform level near the Red Line

7/8/2016 12:02:00 PM - Incident# 2750704 (0 lost trips, 4 lost minutes)

Sick Individual on train 102

7/10/2016 9:03:00 AM - Incident# 2751195 (2 lost trips, 232 lost minutes)

Suspicious Package at Willowbrook Station.

LASD- Arellano.

7/10/2016 5:20:00 PM - Incident# 2751290 (1 lost trip, 141 lost minutes)

Operator reports of a 10-390 aboard the consist

Train 111

T-075

(301A)240

Compton station, Trk. 2, southbound

7/20/2016 11:10:00 AM - Incident# 2755207 (0 lost trips, 8 lost minutes)

Assault at Anaheim Station. Male Hispanic and Male Black invloved in altercation.

7/21/2016 9:07:00 AM - Incident# 2755611 (0 lost trips, 13 lost minutes)

Sick Individual-Patron (possible seizure) on board train 110 at Firestone.



RAIL PERFORMANCE

7/22/2016 8:50:00 PM - Incident# 2756382 (1 lost trip, 176 lost minutes)

Altercation and pepper spray aboard train 140 A.

South of 103rd

Track 2

Train 101

T-357

7/23/2016 7:22:00 AM - Incident# 2756459 (0 lost trips, 18 lost minutes)

10*390 on board car 112; LASD arrived and determined medical response required. (Call originated at Transit Mall at 0704 hours; time points provided to LASD).

Train 102

T-490

163-125-(112)

NB, Willow Station, Track #

7/24/2016 1:28:00 PM - Incident# 2756713 (0 lost trips, 7 lost minutes)

Train was held by LASD.

7/24/2016 2:15:00 PM - Incident# 2756724 (0 lost trips, 5 lost minutes)

Operator reports of a fight onboard the train.

Train 104

T-066

118-121

San Pedro station, Trk. 2, southbound

7/25/2016 8:25:00 AM - Incident# 2756948 (0 lost trips, 18 lost minutes)

Train 114 report a female african american having a seizure on board LRV 235.

7/25/2016 6:27:00 PM - Incident# 2757333 (2 lost trips, 360 lost minutes)

Operator reports no movement

Train # 130

T-149

(231)-237

Grand Station, Track #2, SB

7/27/2016 2:02:00 PM - Incident# 2758139 (0 lost trips, 10 lost minutes)

Operator reports of a sick passenger on board the train.

Train 102

T-023

(119)139-125

Imperial station, Trk. 1, southbound

7/28/2016 7:08:00 AM - Incident# 2758470 (0 lost trips, 10 lost minutes)

Pedestrian blocking track 1 at Wilmington crossing.

Operations Incidents:

7/1/2016 6:34:00 PM - Incident# 2748570 (0 lost trips, 10 lost minutes)

Operator Late

Train #109

T-201

248-247-240

NB, Transit Mall, Track #1

7/3/2016 9:26:00 PM - Incident# 2749017 (0 lost trips, 17 lost minutes)

Emergency 10-100

Train 103

Track #2

SB Artesia Station

T-490

247-248

7/6/2016 7:30:00 AM - Incident# 2749737 (0 lost trips, 15 lost minutes)

Train Delay, due to sick car.

7/7/2016 7:46:00 AM - Incident# 2750195 (0 lost trips, 12 lost minutes)

Train-108

T-026

Transit Mall, Track #1

Northbound

Operator locked his keys in the cab while using the restroom while on break.

7/7/2016 9:10:00 AM - Incident# 2750580 (1 lost trip, 168 lost minutes)

BLue Line Delays related to M3 # 2750220

7/13/2016 6:24:00 AM - Incident# 2752343 (1 lost trip, 167 lost minutes)

Out Late due to broken mirror and no equipment available in the yard.

7/19/2016 4:46:00 AM - Incident# 2754550 (0 lost trips, 5 lost minutes)

Metro Center: sweep train 112 late 5 minutes to 7th/Metro. Red line train held for connection.

Train 112

T-224

(242)-245-232

NB, 7th and Metro Center Station, Track 1

7/23/2016 11:52:00 PM - Incident# 2758353 (0 lost trips, 16 lost minutes)

Train delay 105

T-353

Car 163

Track 1 N/B @ PCH

16 minute delay.

7/25/2016 1:37:00 PM - Incident# 2757186 (0 lost trips, 6 lost minutes)

Reports of fallen individual at Washington and Griffith track 1.

Train #101

T-5

111-114-125

NB, San Pedro Station, Track #1

7/27/2016 2:10:00 PM - Incident# 2758153 (1 lost trip, 167 lost minutes)

Downtown Controller reports that train 110 (Southbound) from 7th Metro Ctr. was cancelled.

7/29/2016 1:30:00 PM - Incident# 2759050 (0 lost trips, 10 lost minutes)

Reports being locked out of train cab at Transit Mall Station.

Train #102

T-357

(151)-112-109

NB, Tranist Mall Station, Track #1

Accidents:

7/4/2016 12:12:00 AM - Incident# 2749042 (1 lost trip, 134 lost minutes)

Trespasser vs. Train

Train 111

Track # 2

South of 103rd Street Station

T-42

(137A)-118

7/24/2016 3:49:00 PM - Incident# 2756741 (0 lost trips, 10 lost minutes)

Operator reports of the train going into emergency (self applying) braking, causing a passenger to hit his head

Train 109

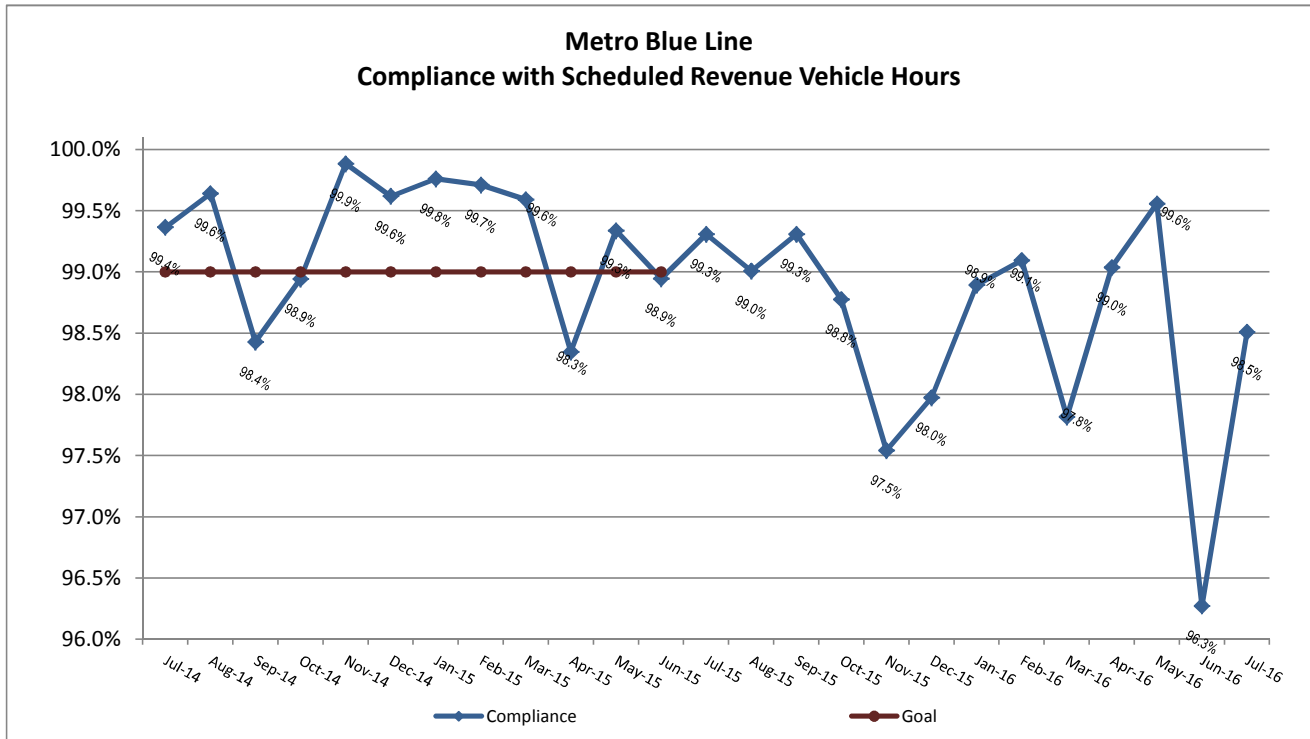
T-053

244-235-237

Slauson station, Trk. 2, southbound

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

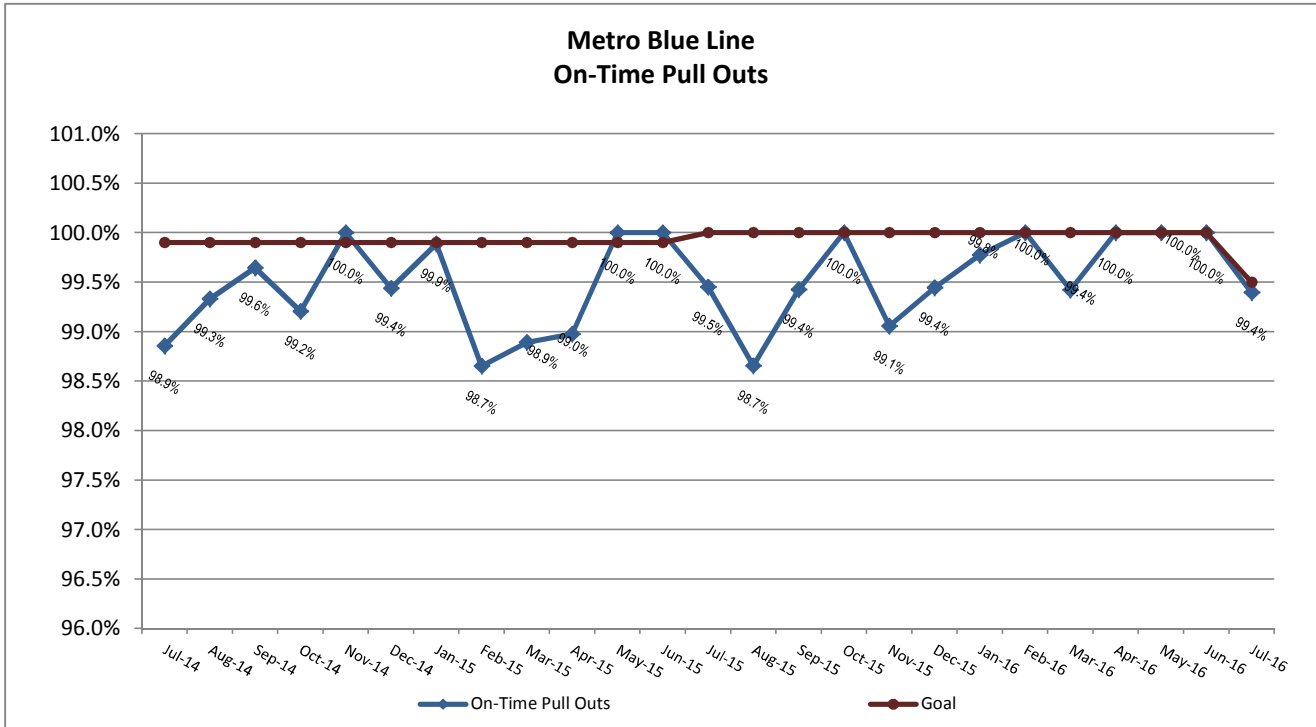
COMPLIANCE WITH SCHEDULED VEHICLE HOURS CHART



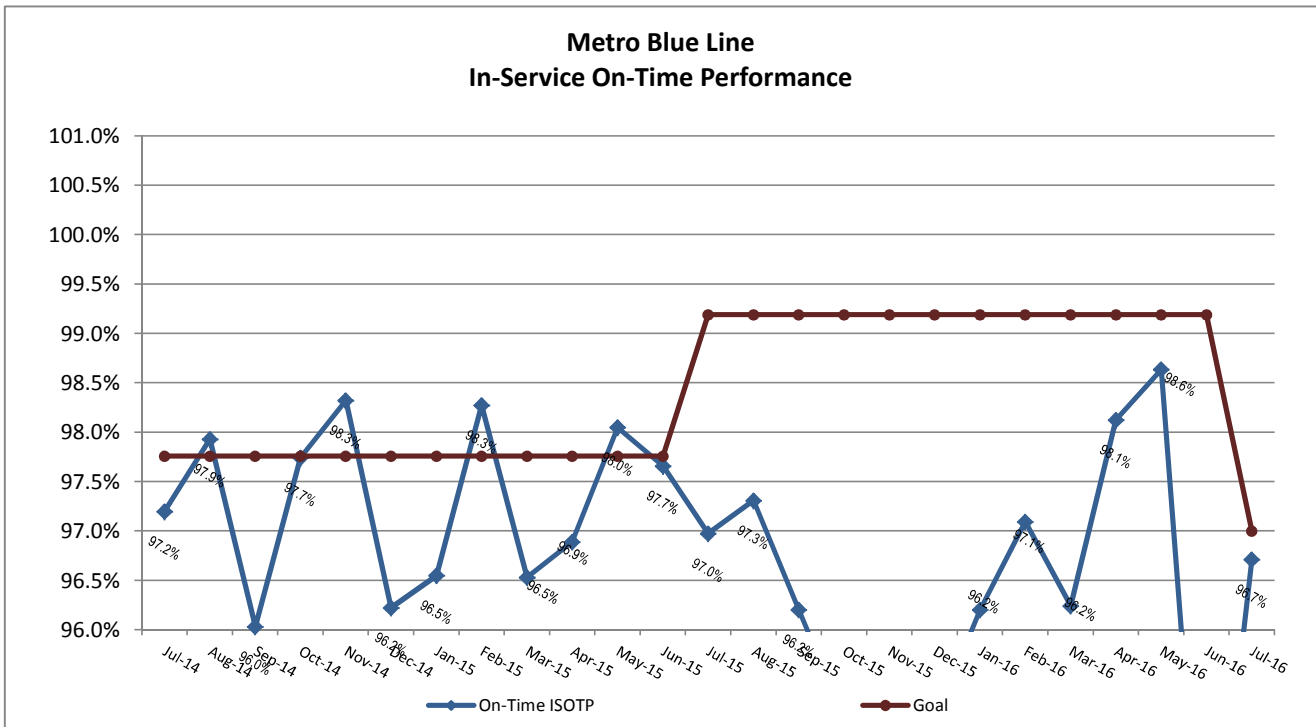
COMPLIANCE WITH SCHEDULED TRAIN MILES CHART



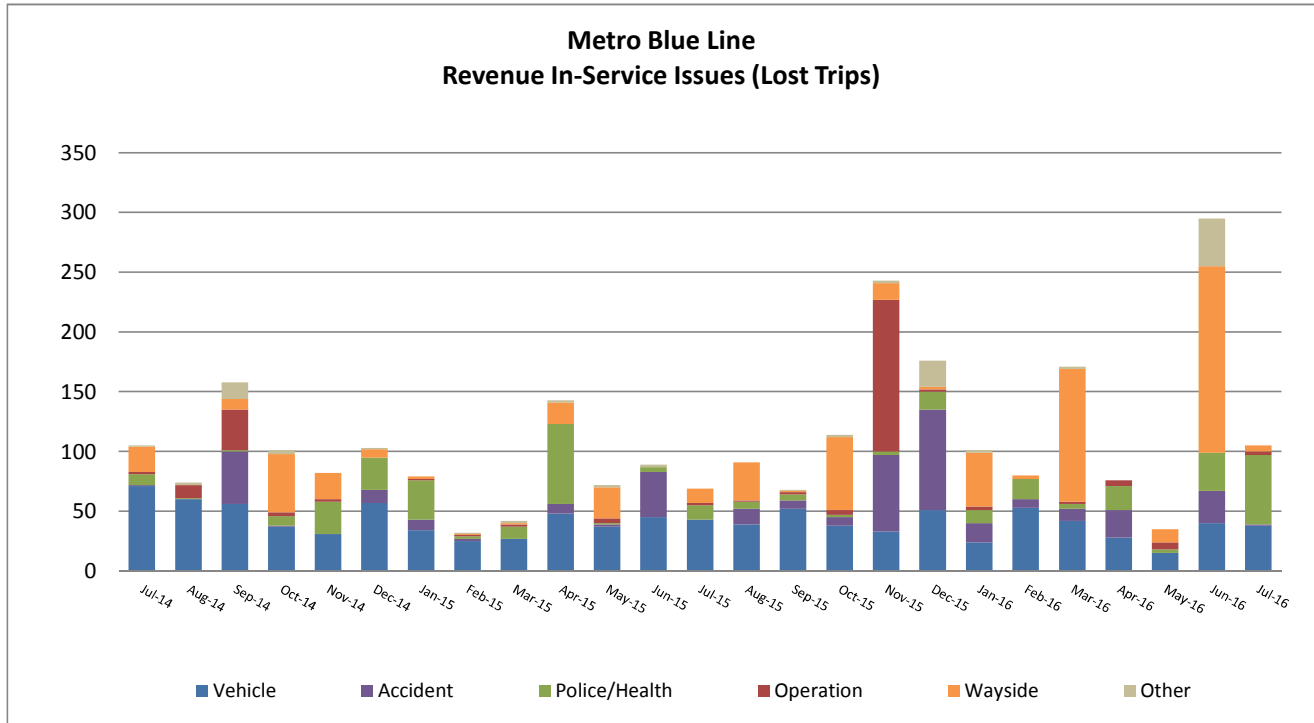
ON-TIME PULL OUTS CHART



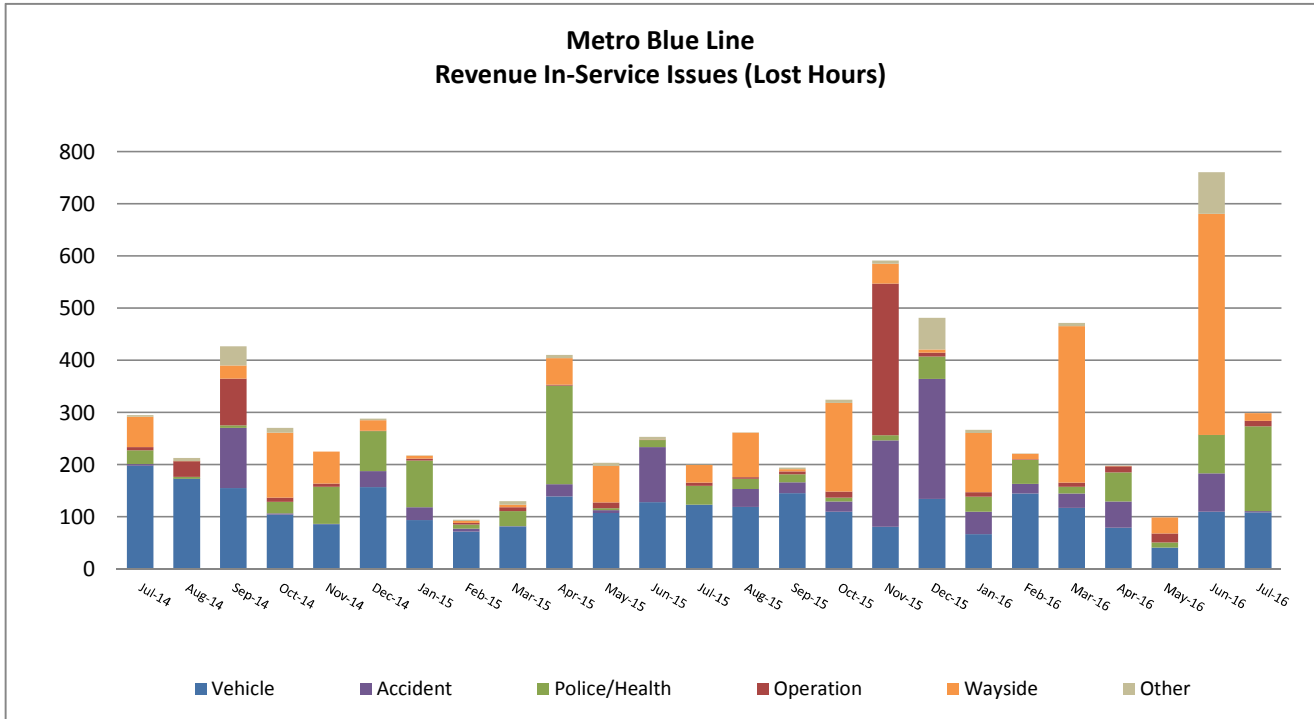
IN-SERVICE ON-TIME PERFORMANCE CHART



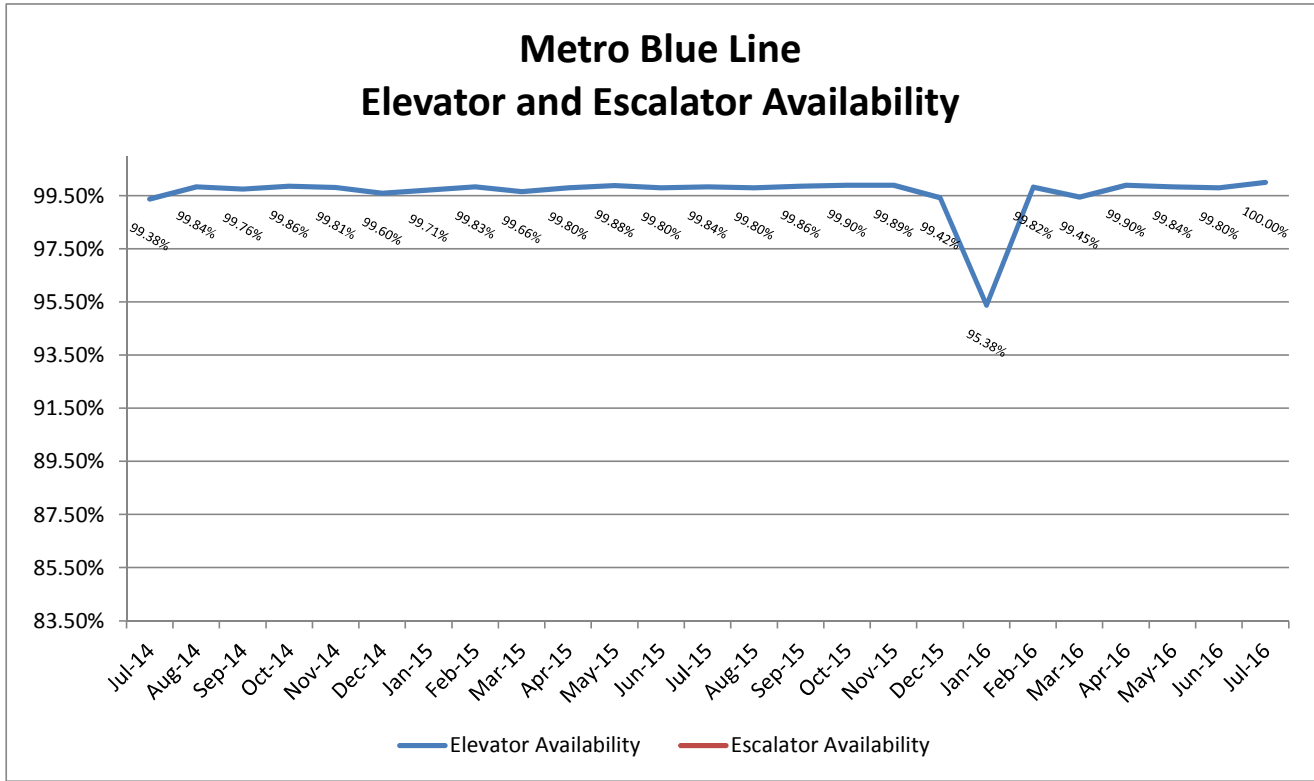
Lost Trips



Lost Hours



VERTICAL TRANSPORTATION AVAILABILITY

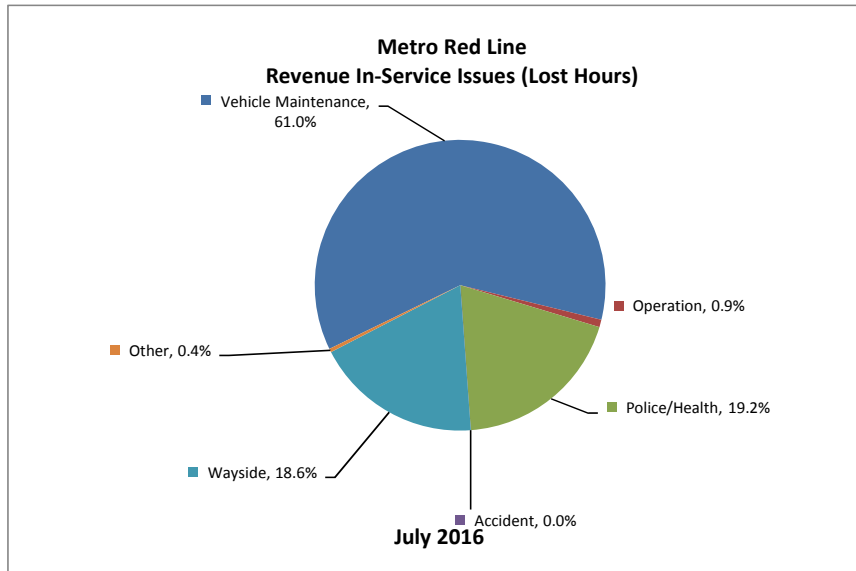


RED LINE

Out of a total of 25,261 hours operated, there were approximately 108 total hours of service delays.

July 2016 Service Hours	Revenue	
	Hours	Per Cent
Revenue Hours without Delays	25,153	99.6%
Hours Delayed	108	0.4%
Total Revenue Hours	25,261	100.0%

Summary of the major contributors:	Count	Hours	Per Cent
Operations	5	0.9	0.9%
Accidents	0	0.0	0.0%
Vehicle Maintenance	13	65.9	61.0%
Wayside	3	20.1	18.6%
Police & Health	7	20.7	19.2%
Other	1	0.4	0.4%
Total	29	107.9	100.0%



July 2016 Red Line major delay contributors were as follows:

Wayside Incidents:

7/14/2016 8:10:00 AM - Incident# 2752881 (6 lost trips, 897 lost minutes)

West Interlocking at Union Station indicates signal overrun.

7/21/2016 9:53:00 AM - Incident# 2755668 (0 lost trips, 8 lost minutes)

Tracs show North Hollywood East interlocking out of correspondence.

7/21/2016 9:38:00 PM - Incident# 2755942 (2 lost trips, 299 lost minutes)

Intermittent loss of power to the DWP feed at North Hollywood TPSS.

Vehicle Maintenance Incidents:

7/3/2016 6:34:00 AM - Incident# 2748872 (2 lost trips, 232 lost minutes)

No westbound movement

Train 201

T-276

Civic Center AR Westbound

(565) 566 599 600

7/4/2016 1:27:00 PM - Incident# 2749107 (2 lost trips, 313 lost minutes)

Train 212 experiencing technical problem unable to proceed westbound due to auxiliary power failure intermittent, unable to identify which car is affected. Train offloaded at Westlake.

7/5/2016 6:00:00 PM - Incident# 2749578 (0 lost trips, 5 lost minutes)

Emergency brakes not releasing in car 560.

7/6/2016 6:24:00 AM - Incident# 2749695 (1 lost trip, 149 lost minutes)

Emergency brakes self apply.

(Experienced same problem on 7/5/16)

Train 205

T-68

Westbound 7th Metro AR

(547) 548 597 598 555 556

7/7/2016 2:49:00 PM - Incident# 2750387 (1 lost trip, 161 lost minutes)

Report of no movement, no doors closed indication.

T-328

Train 216

Cars 543-544-535-536-601-(602)

Civic Center AR westbound.

7/10/2016 11:01:00 PM - Incident# 2751354 (1 lost trip, 116 lost minutes)

Smoke coming out car # 507
North Hollywood AL East
Train # 202 T-323
Car # 521-530-(507)-510

7/12/2016 4:51:00 PM - Incident# 2752193 (1 lost trip, 149 lost minutes)

Train 219 (587,588,561,562,551,552) T-045, Union Station, AL reports flashing cab signals, no movement.

7/17/2016 4:55:00 PM - Incident# 2753899 (0 lost trips, 10 lost minutes)

Emergency brake application train unable to move.

7/22/2016 8:27:00 AM - Incident# 2756083 (2 lost trips, 300 lost minutes)

Doors will not open without the use of the miscellaneous breaker
Train 202
T-032
Cars (521-530-511-(512)
Westlake MacArthur AL East

7/27/2016 10:29:00 PM - Incident# 2758334 (13 lost trips, 1,963 lost minutes)

Train 217 reported no movement due to service brake application and low air at 7th/Metro.

7/29/2016 11:32:00 PM - Incident# 2759188 (2 lost trips, 300 lost minutes)

Reports low voltage trip in car 551 and Service brake failure train line.

T-41

Train 215
Civic Center, AR, Westbound
Cars: (551) 552 545 546

7/30/2016 6:12:00 AM - Incident# 2759214 (0 lost trips, 20 lost minutes)

Train 208 (537,538,593,594) T-0523 reports emergency brake application operating out of car 594.

7/30/2016 10:59:00 AM - Incident# 2759252 (2 lost trips, 232 lost minutes)

Train 203 (565,566,595,596) T-179 departing 7th & Metro, AR reports extreme vibration, unable to proceed.

Police & Health Incidents:

7/1/2016 10:09:00 AM - Incident# 2748301 (1 lost trip, 149 lost minutes)

T-328 reports a patron at Wilshire western is hiding under the refuge area on the BR track.

7/7/2016 8:05:00 PM - Incident# 2750459 (0 lost trips, 10 lost minutes)

R-128 reports female patron not responsive on train 219 car 575 at Vermont and Sunset.

7/12/2016 6:26:00 AM - Incident# 2751922 (0 lost trips, 8 lost minutes)

Union Station male patron requesting medical assistance due to an existing spinal injury on board Train # 203 A/R.

7/21/2016 9:47:00 AM - Incident# 2755646 (0 lost trips, 6 lost minutes)

Patron reported having trouble breathing on car 569, train 206

7/21/2016 10:19:00 AM - Incident# 2755678 (1 lost trip, 149 lost minutes)

Male patron having a seizure on train 204 car 582 at Westlake MacArthur Station

7/21/2016 2:29:00 PM - Incident# 2755769 (6 lost trips, 907 lost minutes)

T-212 report a patron was push into the path of the train.

7/31/2016 3:20:00 PM - Incident# 2759524 (0 lost trips, 11 lost minutes)

T-199 reports male patron banging on cab door making verbal threats.

Other Incidents:

7/20/2016 8:48:00 AM - Incident# 2755169 (0 lost trips, 24 lost minutes)

TRACS showed Vermont Sunset Station FCP Summery alarm and Cross passage 27 smoke detector alarm.

Operations Incidents:

7/8/2016 2:51:00 PM - Incident# 2750764 (0 lost trips, 5 lost minutes)

LASD Notified Control of a Bomb Suspect at 7th and Metro. Deputies requested all trains currently at 7th to hold until further notice.

7/11/2016 10:59:00 AM - Incident# 2751550 (0 lost trips, 10 lost minutes)

Emergency brakes not releasing

T-329

Cars 553-554-589-(590)

Wilshire Western BR East

7/15/2016 10:04:00 PM - Incident# 2753542 (0 lost trips, 15 lost minutes)

RC-146 activated work permit W-007 in support of INSITE WIRELESS / DYNALECTRIC to perform WiFi / Wireless project.

Code one issued at 21:51 hours by R-62.

3 Hi Rail known as train # 71.

Ground straps were placed, WW BL by TP-153 at 22:18 hours.

7/25/2016 12:00:00 PM - Incident# 2757119 (0 lost trips, 10 lost minutes)

Testing Propulsion

Train 099

T-031

M-232

Cars 523-528-559-560

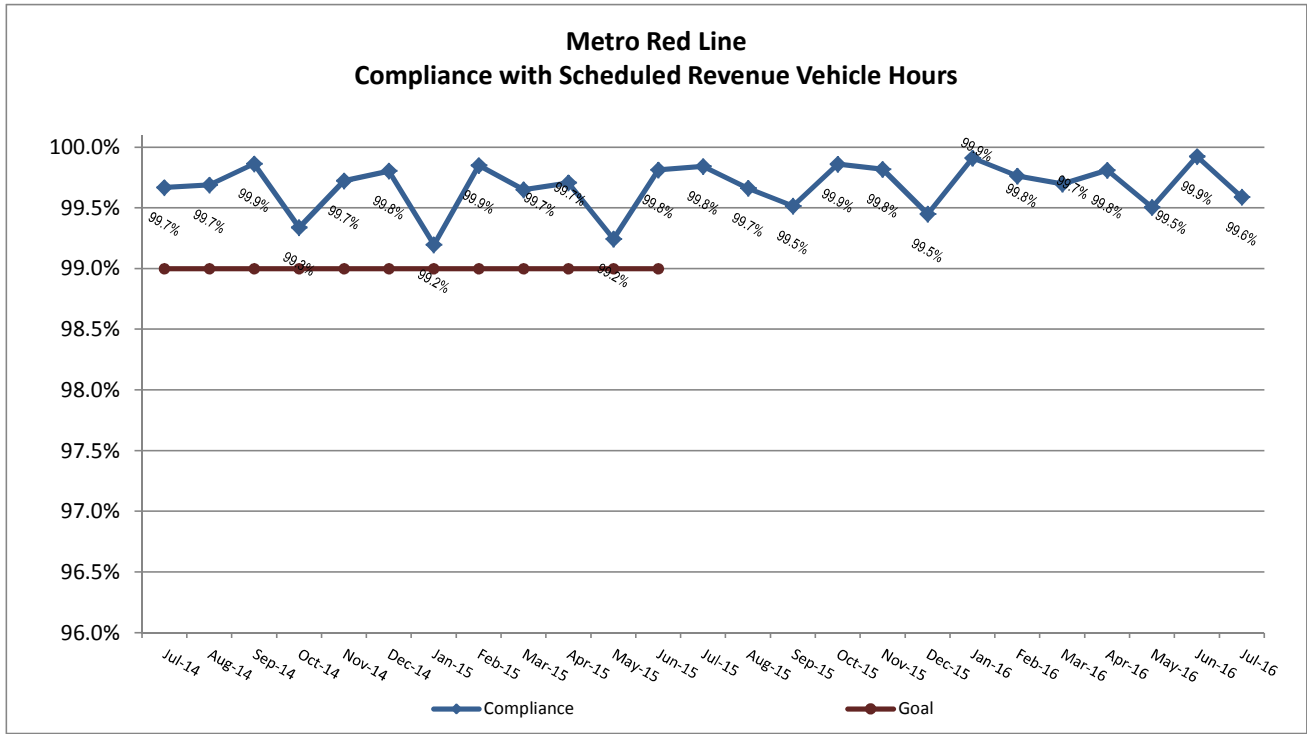
Union Station to Wilshire Western

7/30/2016 10:04:00 PM - Incident# 2759326 (0 lost trips, 15 lost minutes)

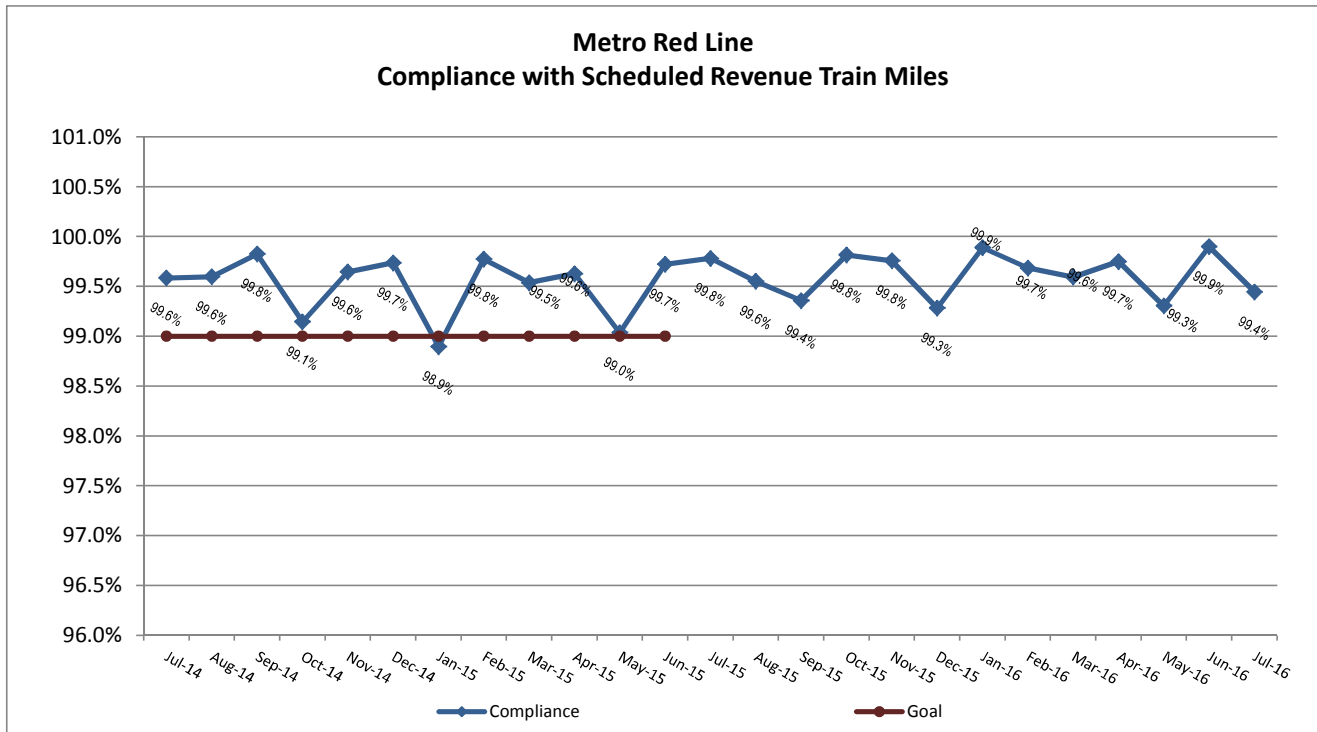
Rail Communications personnel will support Dynalectric from Westlake to Wilshire Western BR AR.

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

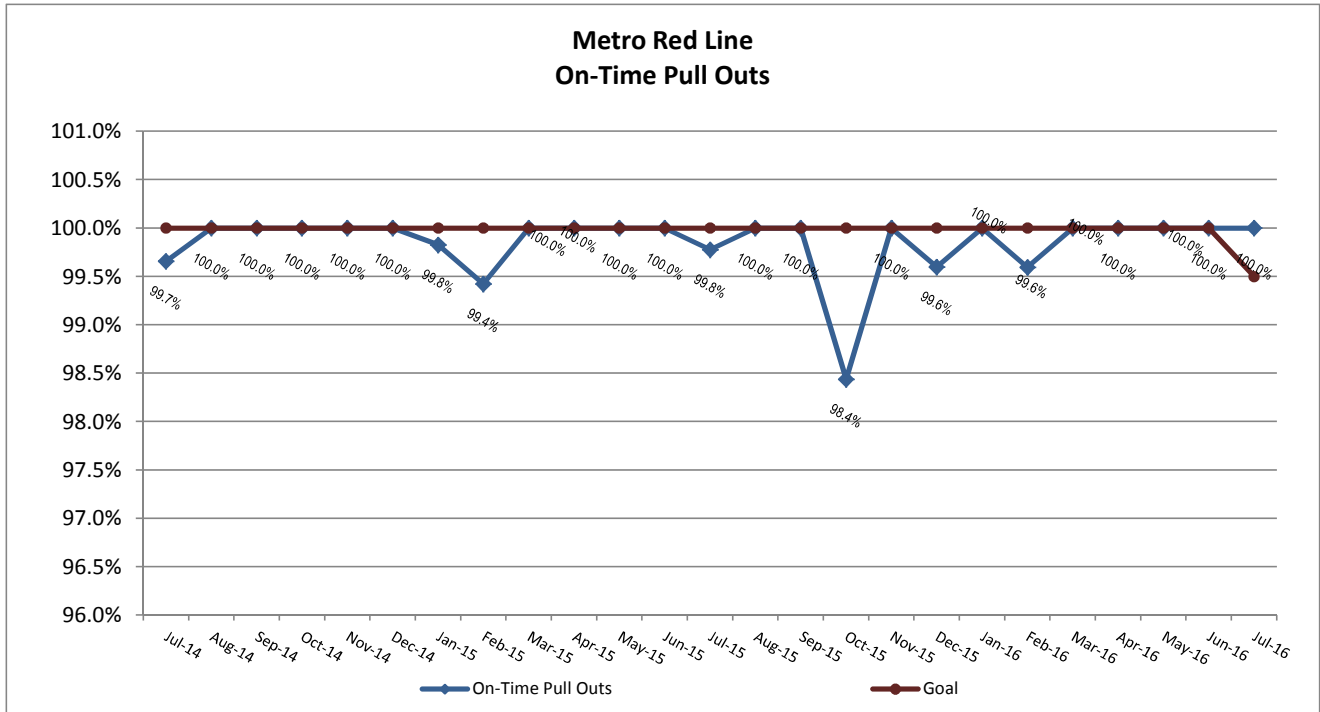
COMPLIANCE WITH SCHEDULED VEHICLE HOURS CHART



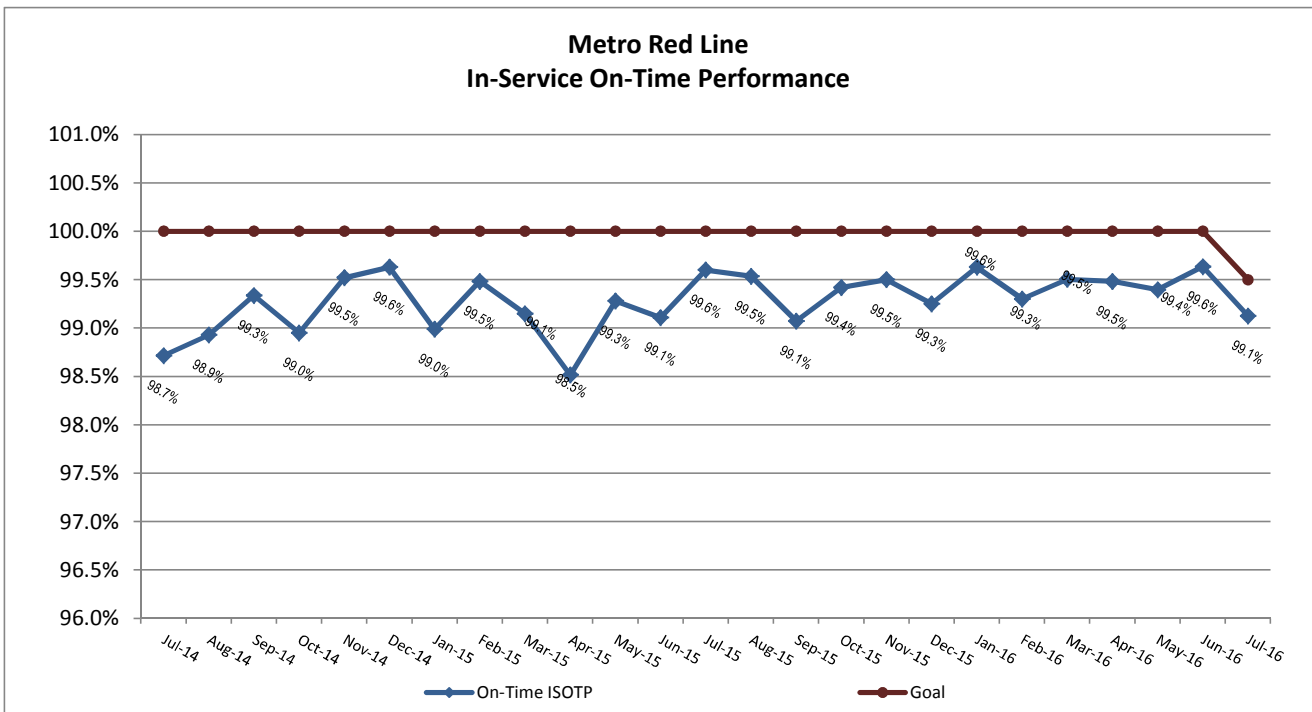
COMPLIANCE WITH SCHEDULED TRAIN MILES CHART



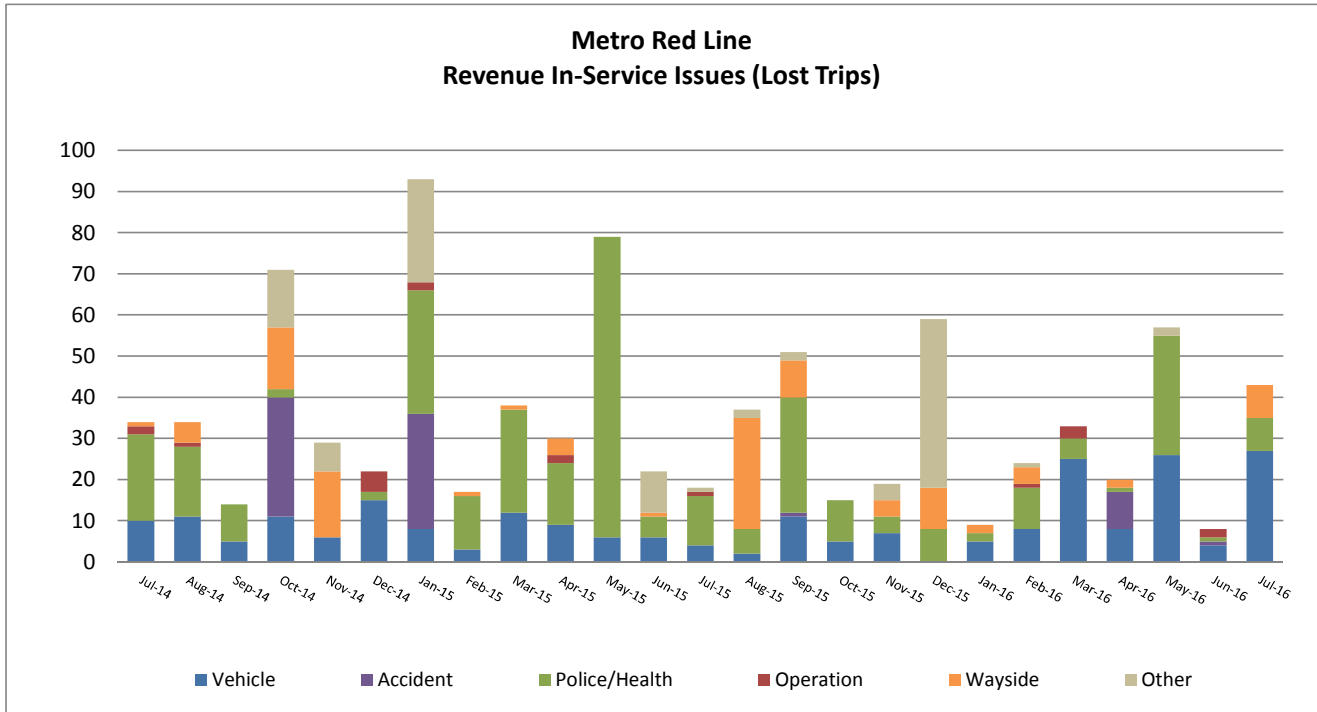
ON-TIME PULL OUTS CHART



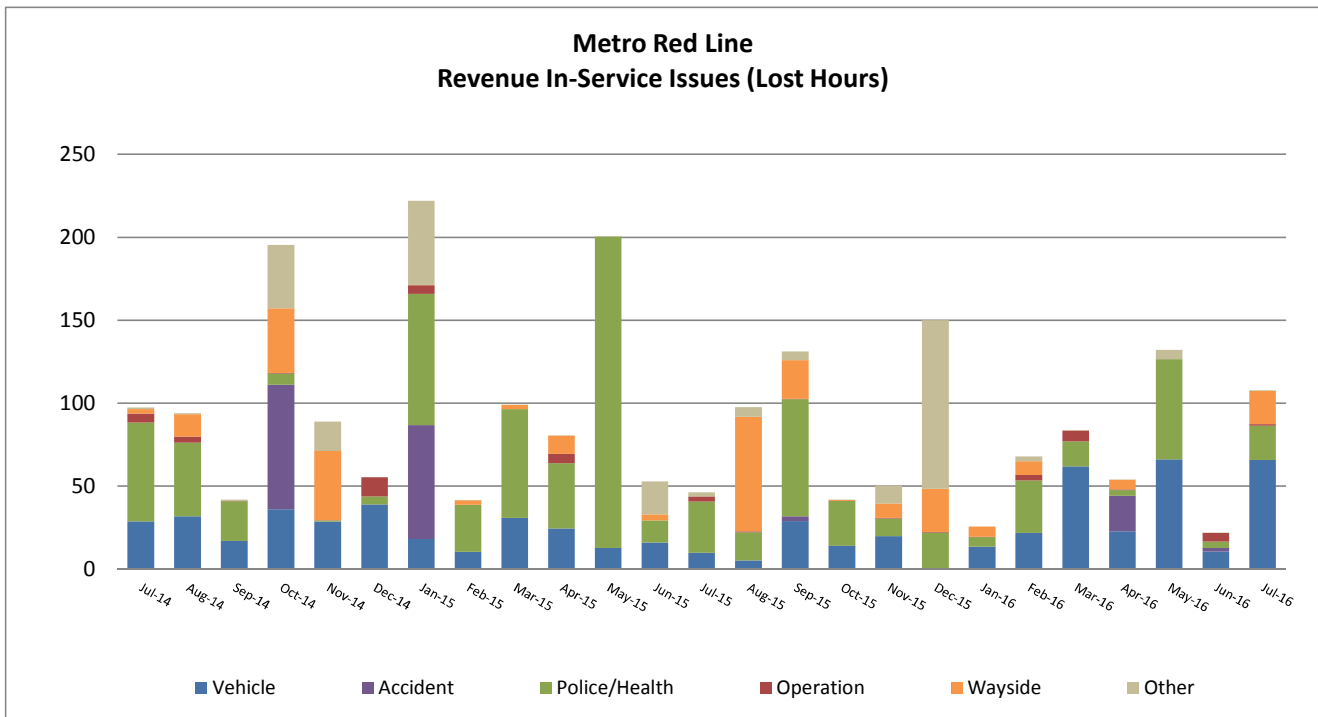
IN-SERVICE ON-TIME PERFORMANCE CHART



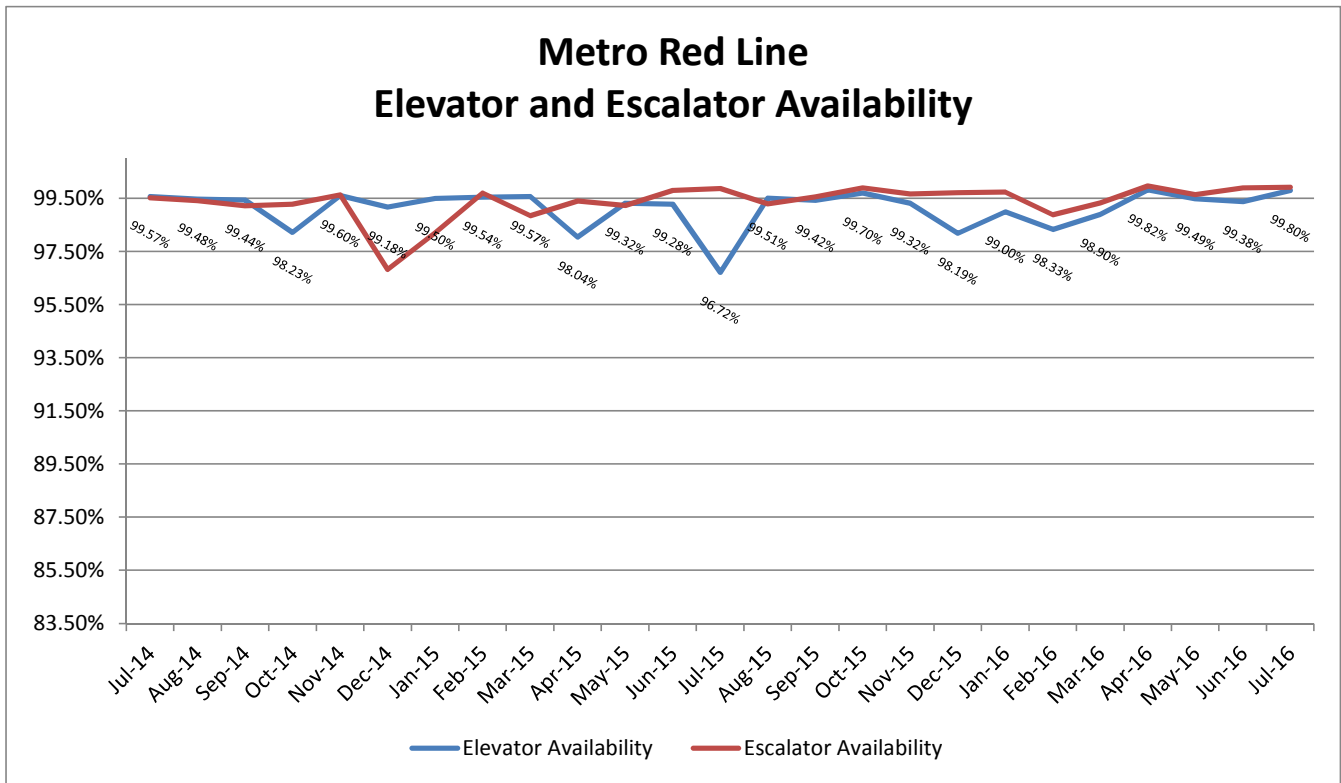
Lost Trips



Lost Hours



VERTICAL TRANSPORTATION AVAILABILITY

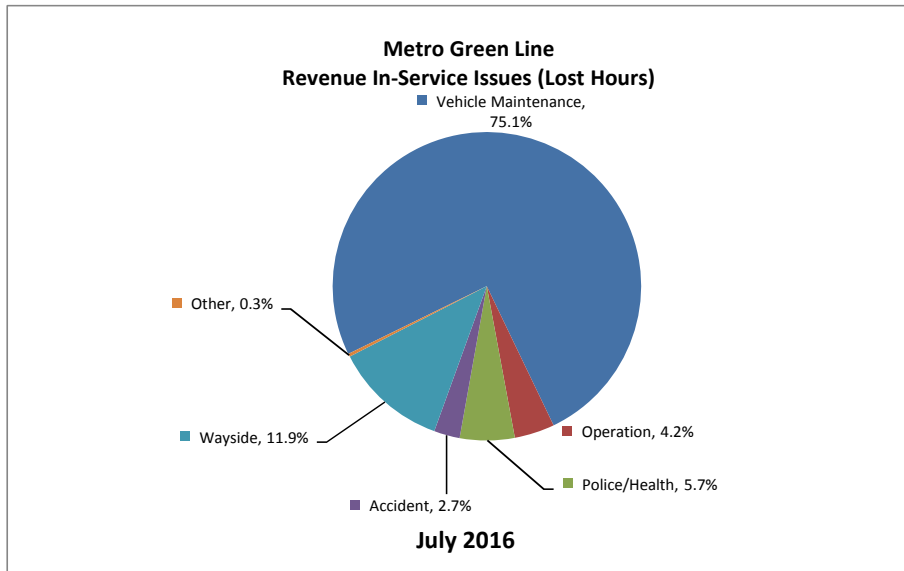


GREEN LINE

Out of a total of 7,701 hours operated, there were approximately 47 total hours of service delays.

July 2016 Service Hours	Revenue	
	Hours	Per Cent
Revenue Hours without Delays	7,654	99.4%
Hours Delayed	47	0.6%
Total Revenue Hours	7,701	100.0%

Summary of the major contributors:	Count	Hours	Per Cent
Operations	7	2.0	4.2%
Accidents	1	1.3	2.7%
Vehicle Maintenance	24	35.2	75.1%
Wayside	2	5.6	11.9%
Police & Health	5	2.7	5.7%
Other	2	0.2	0.3%
Total	41	46.9	100.0%



July 2016 Green Line major delay contributors were as follows:

Wayside Incidents:

7/10/2016 5:30:00 PM - Incident# 2751292 (2 lost trips, 131 lost minutes)

Train delays due to emergency single tracking from Aviation west to Crenshaw station.

7/17/2016 12:01:00 AM - Incident# 2753789 (3 lost trips, 204 lost minutes)

AC and DC breakers open at El Segundo, Douglas, and Yard TPSS'S.

De-energized tracks 1 and 2 from El Segundo Station to Marines.

Vehicle Maintenance Incidents:

7/4/2016 12:29:00 AM - Incident# 2749044 (0 lost trips, 6 lost minutes)

No Speed Code / No Cab Signal

224A

Train 332

T-450

Norwalk westbound

7/7/2016 5:44:00 AM - Incident# 2750102 (2 lost trips, 139 lost minutes)

Train 334, Cars (204B) and 207.

Yard lead to track 1 (Yard Interface) west.

Friction Brake fault, no movement.

7/7/2016 10:31:00 AM - Incident# 2750245 (1 lost trip, 73 lost minutes)

Train 333, Cars (225B) and 243.

Mariposa Station, Track 1 westbound.

Lost movement and speed code of 8mph.

7/8/2016 6:33:00 AM - Incident# 2750564 (2 lost trips, 129 lost minutes)

Propulsion faults wont clear

Train 346

LRV 222A/226

T-479

Aviation station track 2 eastbound

7/8/2016 2:34:00 PM - Incident# 2750780 (0 lost trips, 8 lost minutes)

Propulsion failure, with speed restriction.

T-235

Train 351

Cars 243-(208A)

Avalon track 2 eastbound



7/9/2016 7:17:00 PM - Incident# 2751106 (0 lost trips, 5 lost minutes)

Propulsion fault with ATP failure 207(204B).

Aviation Station

Train #334, T-450, track #2, eastbound.

7/10/2016 2:44:00 PM - Incident# 2751263 (0 lost trips, 10 lost minutes)

Propulsion fault unable to clear. 207 204

Train 333

T-344

Track 1

Westbound

Lakewood station

ATO MODE

7/11/2016 3:13:00 PM - Incident# 2751668 (16 lost trips, 1,053 lost minutes)

Train 351, Cars (222A) and 213.

Wilmington Station, Track 1 westbound.

Prop fault and speed restriction.

7/11/2016 5:57:00 PM - Incident# 2751736 (2 lost trips, 132 lost minutes)

ATP Fail / Propulsion Fault / Speed Restriction

(212)-228

Train 353

T-20

Vermont Station, eastbound

7/18/2016 4:46:00 AM - Incident# 2754035 (0 lost trips, 9 lost minutes)

Propulsion / Dynamic Brakes LRV 212

T-260

Train # 334

LRV (212) 203

Harbor Station, Track #2, eastbound.

7/18/2016 6:51:00 AM - Incident# 2754069 (0 lost trips, 5 lost minutes)

Auto Train Protection (Speed Limit) LRV

T-260

Train #344

LRV (211A) 227

Del Norte, Track #1, westbound.

7/18/2016 7:21:00 PM - Incident# 2754450 (1 lost trip, 68 lost minutes)

No Fault - No Movement, Cars #(211A)-227

Train #333

T-450

Wilmington East Interlocking, Track #001, Westbound.



7/19/2016 5:15:00 PM - Incident# 2754914 (0 lost trips, 6 lost minutes)

Propulsion / Dynamic Brakes, (207A)-223

Train #334

T-113

Vermont Station, Track #001, Westbound.

7/19/2016 8:10:00 PM - Incident# 2754952 (0 lost trips, 11 lost minutes)

Propulsion / Dynamic Brakes, Cars #(225B)-204

Train #332

T-078

Lakewood Station, Track #002, Eastbound.

7/22/2016 5:11:00 AM - Incident# 2755995 (0 lost trips, 7 lost minutes)

Train 332, Cars (224A) and 204.

Marine platform 2, east.

Prop fault with speed restriction.

7/23/2016 10:01:00 PM - Incident# 2756626 (2 lost trips, 125 lost minutes)

No movement. Lost air pressure.

Train 331

T-255

Track 2, E/B

Between stations Douglas and El segundo

(209)

ATO mode

7/24/2016 5:10:00 AM - Incident# 2756651 (0 lost trips, 8 lost minutes)

Propulsion fault / Spin Slide

219-(212)

Train 332

T-141

Long Beach, westbound

7/24/2016 10:49:00 AM - Incident# 2756694 (0 lost trips, 10 lost minutes)

Train 332, Cars 204 and 224.

Marine station, track 2 east.

Prop fault with speed restriction.

7/25/2016 10:08:00 PM - Incident# 2757371 (0 lost trips, 8 lost minutes)

Train 331 had a small air leak on car 218

7/27/2016 6:04:00 AM - Incident# 2757930 (1 lost trip, 82 lost minutes)

Emergency brakes applied, no movement

Train 333

LRV 218A/219

T-141

West of Norwalk Interlocking track 2

7/27/2016 4:31:00 PM - Incident# 2758220 (2 lost trips, 132 lost minutes)

ATC rack malfunction car 218A-219
Train 335
T-458
Track 2
Eastbound
Between Wilmington and Long Beach station

7/28/2016 12:49:00 PM - Incident# 2758599 (0 lost trips, 15 lost minutes)

Operator reports loss of propulsion
Train 333
T-458
(202A)-220
Track #1 Lakewood Station

7/28/2016 2:01:00 PM - Incident# 2758620 (0 lost trips, 8 lost minutes)

Propulsion faults
Train 332
car 203
Vermont Station
Westbound.

7/29/2016 6:26:00 AM - Incident# 2758871 (1 lost trip, 64 lost minutes)

Propulsion faults not clearing
Train 345
LRV 209A/216
T-202
Aviation station track 1 westbound

Police & Health Incidents:

7/11/2016 11:49:00 AM - Incident# 2751570 (0 lost trips, 15 lost minutes)

Car 202 disturbance on board.
T-57
Train 333
Cars (202)-201
Marine Station, Track 2, eastbound.

7/12/2016 2:03:00 PM - Incident# 2752133 (0 lost trips, 5 lost minutes)

Possible assault aboard train 331 at Crenshaw Station



7/18/2016 11:35:00 PM - Incident# 2754474 (1 lost trip, 66 lost minutes)

Train operator reported that a Patron got stabbed in the back while the Train was departing Hawthorne Station Westbound.

7/23/2016 12:20:00 PM - Incident# 2756525 (1 lost trip, 63 lost minutes)

West end of Aviation station trespasser.

7/29/2016 2:26:00 PM - Incident# 2759066 (0 lost trips, 13 lost minutes)

Alleged assault

Other Incidents:

7/12/2016 4:40:00 AM - Incident# 2751831 (0 lost trips, 4 lost minutes)

Green Line Yard Control routed Train 344 with the incorrect routing for dispatch onto the mainline. Train 344 incurred a minor delay for service at Douglas Station.

7/15/2016 5:43:00 AM - Incident# 2753222 (0 lost trips, 5 lost minutes)

Out Late due to consist exchange in yard, problem with the equipment.

Operations Incidents:

7/6/2016 5:38:00 PM - Incident# 2749989 (0 lost trips, 8 lost minutes)

LASD requested to hold Train 353 due to a robbery at Crenshaw Station, Track 2, eastbound.

7/6/2016 6:50:00 PM - Incident# 2750006 (0 lost trips, 16 lost minutes)

T-235, Train 334, 10-100 at Marine Station.

7/11/2016 7:46:00 PM - Incident# 2751747 (1 lost trip, 66 lost minutes)

Train 361 trip was cancelled from Norwalk to Lakewood due to no equipment.

7/15/2016 6:25:00 AM - Incident# 2753238 (0 lost trips, 8 lost minutes)

Out Late due an oil container being left on top of the HVAC unit, which required the train to be relocated to an elevated location for removal.

7/16/2016 10:42:00 PM - Incident# 2753769 (0 lost trips, 7 lost minutes)

Train 331 departed Norwalk Station late due to the operator locking their keys into the operator's room.

7/21/2016 6:02:00 AM - Incident# 2755525 (0 lost trips, 8 lost minutes)

Train delay due to loss of cab signals.

7/31/2016 6:07:00 AM - Incident# 2759437 (0 lost trips, 6 lost minutes)

Train Operator T-140 departed 6 minutes late due to 10-100 at Norwalk station. Train 341 Operating car 203. Scheduled departure time 0601, Actual time 0607.

Accidents:

7/6/2016 6:59:00 AM - Incident# 2749716 (1 lost trip, 76 lost minutes)

Patron jumped onto track 2 and was struck by train 333

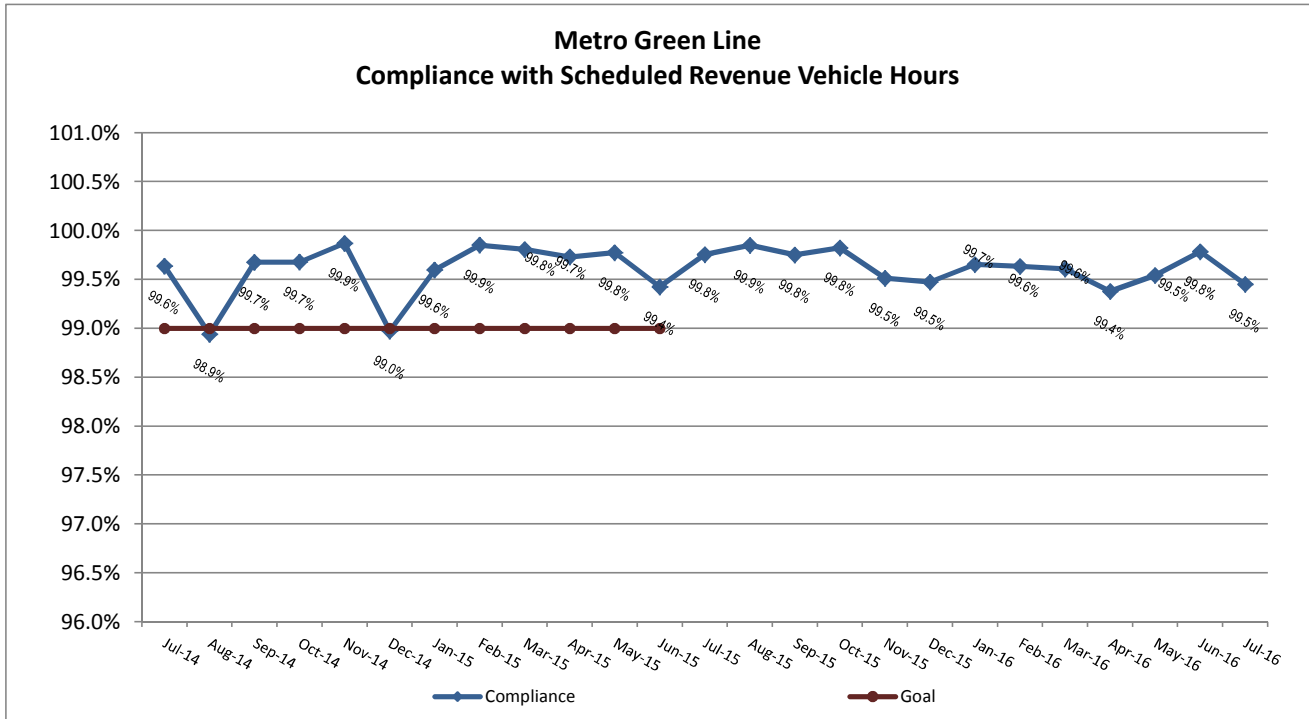
T-184, Train 333

Track 2, Hawthorne, East

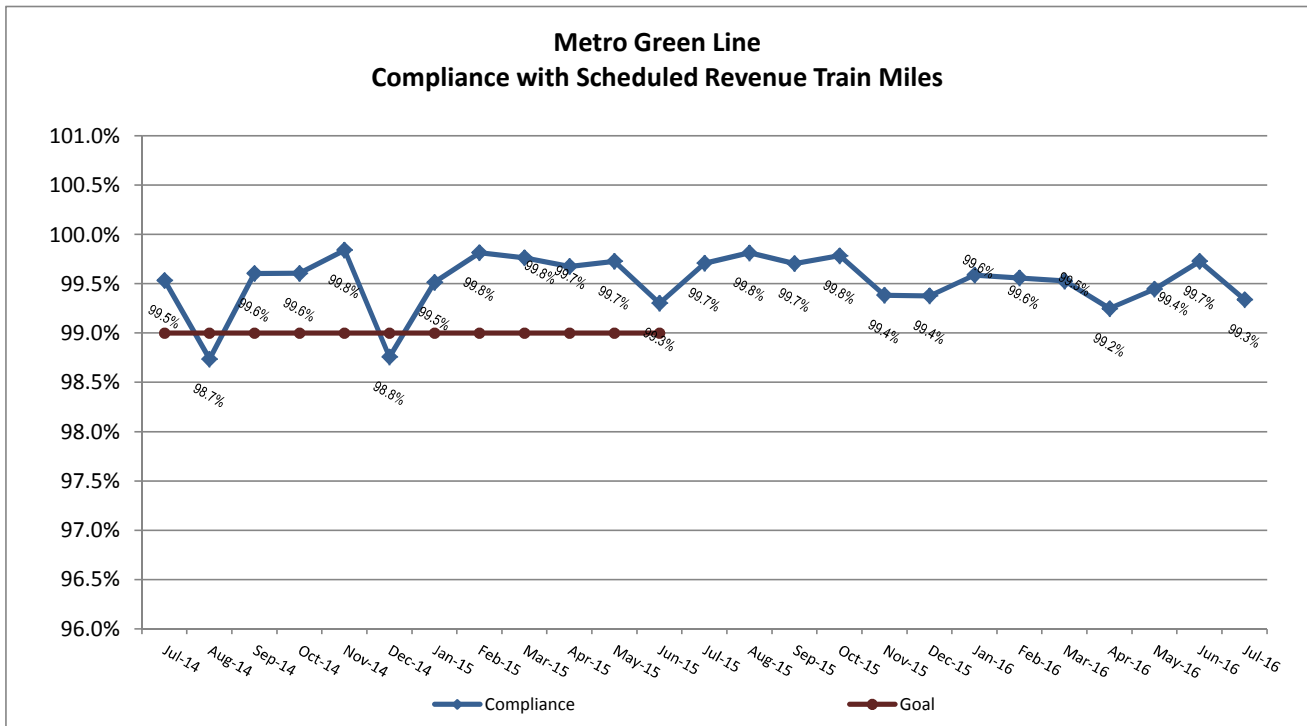
(243A)-225

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

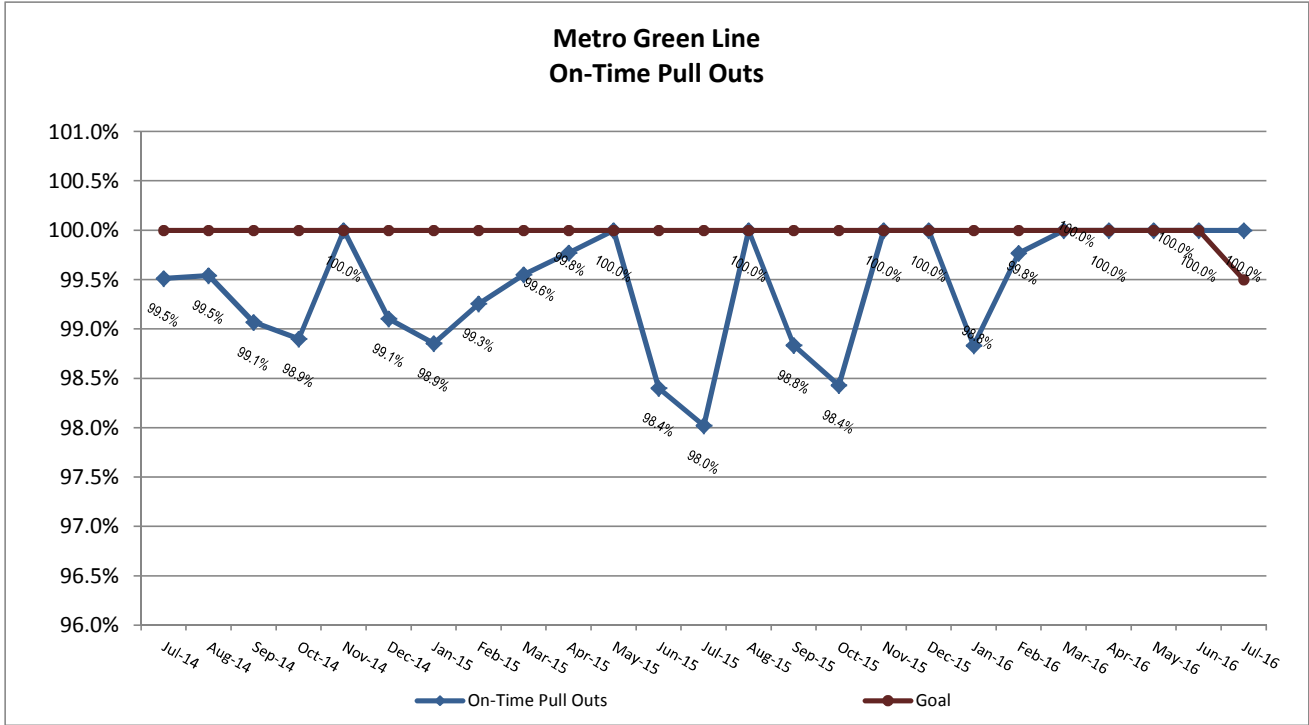
COMPLIANCE WITH SCHEDULED VEHICLE HOURS CHART



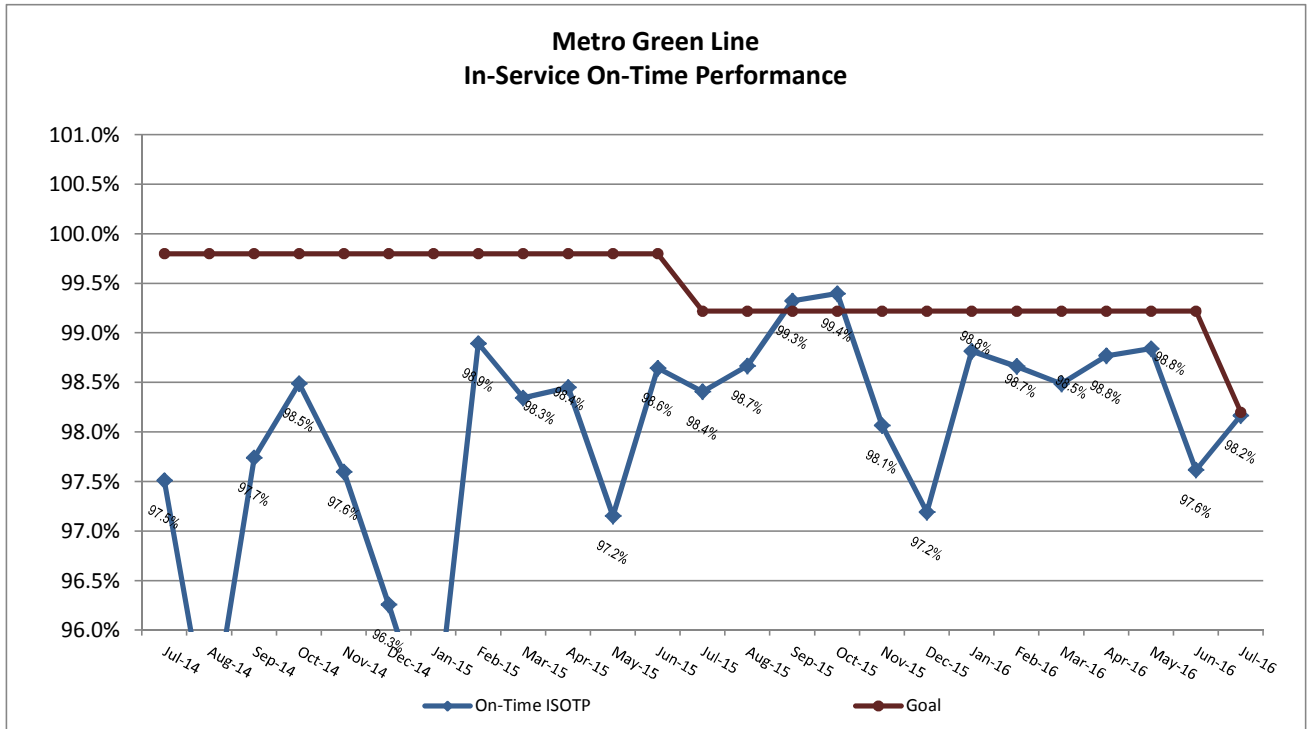
COMPLIANCE WITH SCHEDULED TRAIN MILES CHART



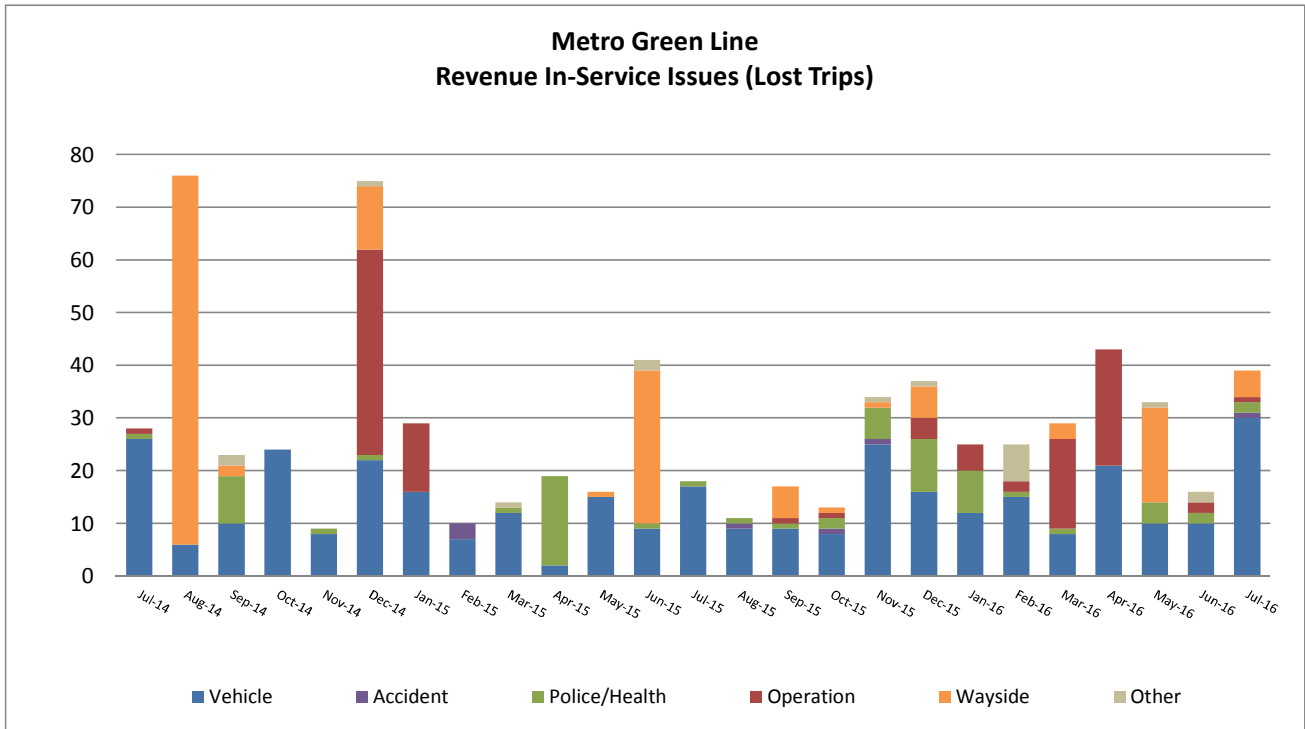
ON-TIME PULL OUTS CHART



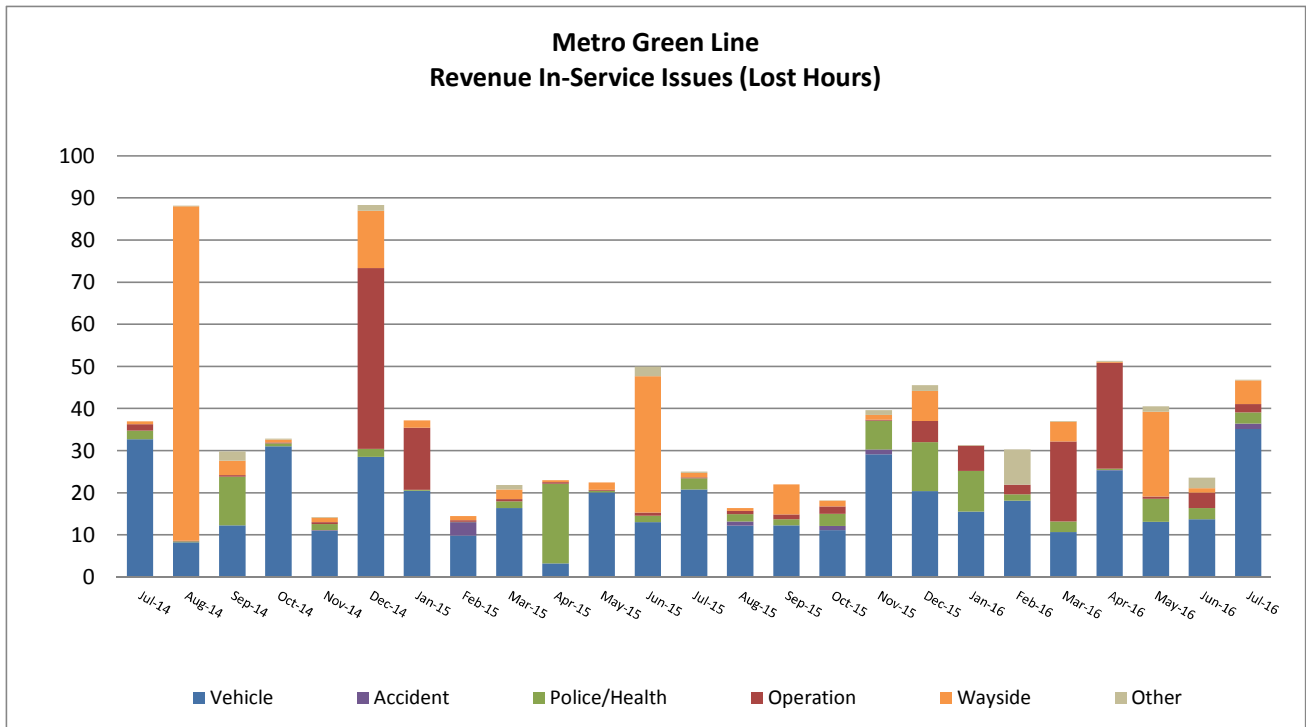
IN-SERVICE ON-TIME PERFORMANCE CHART



Lost Trips

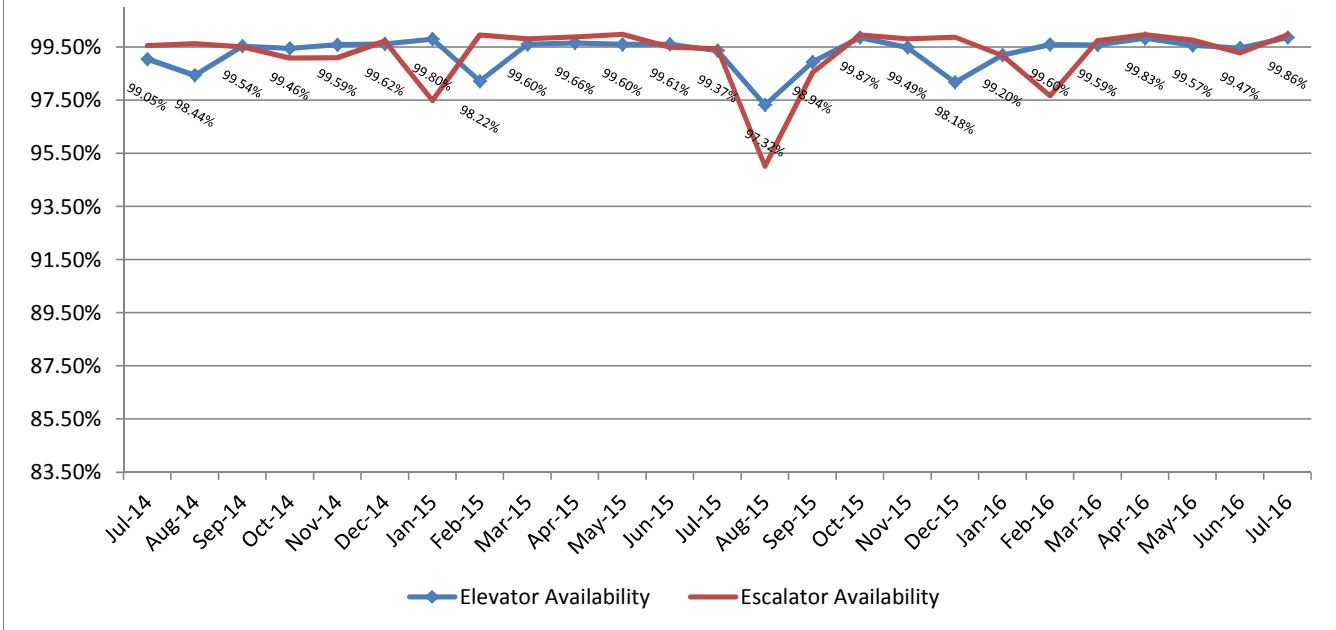


Lost Hours



VERTICAL TRANSPORTATION AVAILABILITY

**Metro Green Line
Elevator and Escalator Availability**

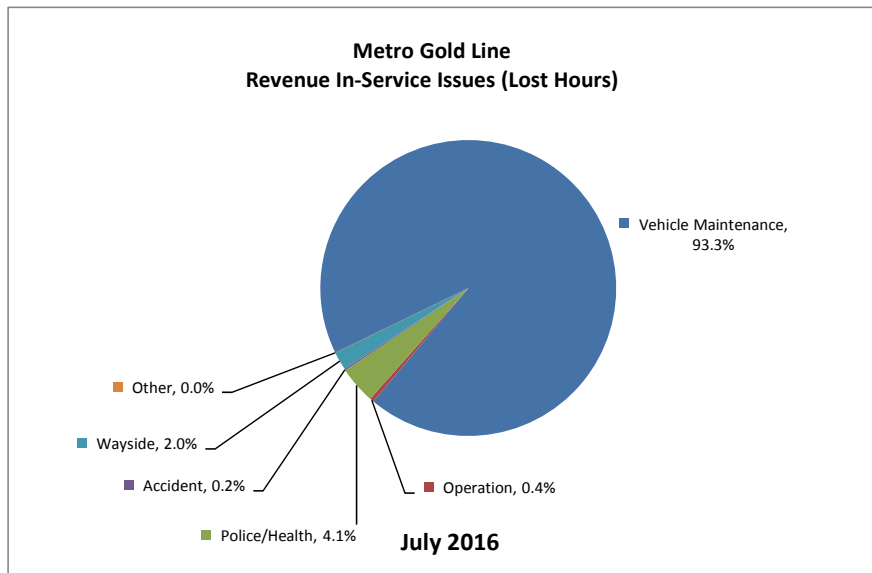


GOLD LINE

Out of a total of 19,264 hours operated, there were approximately 232 total hours of service delays.

July 2016 Service Hours	Revenue	
	Hours	Per Cent
Revenue Hours without Delays	19,033	98.8%
Hours Delayed	232	1.2%
Total Revenue Hours	19,264	100.0%

Summary of the major contributors:	Count	Hours	Per Cent
Operations	5	1.0	0.4%
Accidents	2	0.4	0.2%
Vehicle Maintenance	44	216.2	93.3%
Wayside	6	4.6	2.0%
Police & Health	7	9.4	4.1%
Other	0	0.0	0.0%
Total	64	231.6	100.0%



July 2016 Gold Line major delay contributors were as follows:

Wayside Incidents:

7/20/2016 4:04:00 AM - Incident# 2755012 (0 lost trips, 5 lost minutes)

Monrovia Interlocking Signal 12N, Signal: Unable To Clear.

7/20/2016 9:07:00 PM - Incident# 2755460 (0 lost trips, 12 lost minutes)

B12 and B13 are open, platform #2 at Citrus Station is de-energized.

Citrus TPSS

7/21/2016 6:43:00 AM - Incident# 2755534 (1 lost trip, 231 lost minutes)

High voltage on negative return at Azusa Citrus

all feeder breakers opened unable to close

, train #413 cancelled on deenergized track.

7/21/2016 7:03:00 AM - Incident# 2755573 (0 lost trips, 8 lost minutes)

High voltage negative return.

Breaker B13 unable to close lost power on track #2

at Azusa Citrus

Train #417 8 minutes Delay

7/22/2016 2:04:00 PM - Incident# 2756218 (0 lost trips, 10 lost minutes)

AC Breaker: State of the breaker is unknown

TP-152 and TP-151

Soldano TPSS.

7/22/2016 5:52:00 PM - Incident# 2756341 (0 lost trips, 10 lost minutes)

Track Circuit: False Occupancy

SCADA

N1AT, Track #001, Mountain Avenue.

Vehicle Maintenance Incidents:

7/1/2016 9:08:00 AM - Incident# 2748280 (0 lost trips, 5 lost minutes)

Prop fault on car 718

(718)-740

T-100, train 402

Duarte Station, track 2, south

7/1/2016 3:11:00 PM - Incident# 2748521 (0 lost trips, 7 lost minutes)

Car 739 Friction Brake Fault

T-160

Consist-(739)742

Train-423

Fillmore Station, Southbound, Track #2

7/1/2016 5:20:00 PM - Incident# 2748554 (1 lost trip, 232 lost minutes)

Car 739 Friction Brake Fault
T-186
Consist-(717)737
Train-426
Mariachi Station, Northbound, Track #1

7/1/2016 7:26:00 PM - Incident# 2748578 (0 lost trips, 7 lost minutes)

Propulsion faults with restricted speed.
Train 427
T-2
Track 1, N/B
Indiana Station
(737-717)

7/5/2016 5:15:00 AM - Incident# 2749226 (2 lost trips, 448 lost minutes)

ATP failure/no movement
Train 455
LRV 712A/709
T-477
Union Station track 2 southbound

7/5/2016 7:00:00 AM - Incident# 2749313 (4 lost trips, 900 lost minutes)

Propulsion fault
Train #404 T-133 car#1013 - 1010
northbound at Allen station.

7/6/2016 9:02:00 AM - Incident# 2749775 (1 lost trip, 224 lost minutes)

south of Lincoln/Heritage Station, Train-408 T-461 consist #739-717 with Friction Brake fault car #739C, C-truck cut out. will off load at Chinatown Station.

7/6/2016 11:30:00 AM - Incident# 2749870 (1 lost trip, 224 lost minutes)

(1007)-1006
Friction Brakes
Train #405
Northbound Atlantic
T-19

7/7/2016 3:17:00 PM - Incident# 2750397 (0 lost trips, 12 lost minutes)

Train 426 (1013-1010) T-036, Duarte Station, track 2 reports 35 MPH speed restriction.

7/7/2016 4:22:00 PM - Incident# 2750409 (0 lost trips, 20 lost minutes)

Train 453 (740,713) T-225, Southwest Museum Station, track 1 reports no movement due to door problems.

7/8/2016 1:00:00 AM - Incident# 2750495 (1 lost trip, 224 lost minutes)

Car 717A smoking brakes.

T-388

Train 403

Cars 717,739

SMV Track 1 NB.

7/8/2016 10:16:00 AM - Incident# 2750668 (1 lost trip, 231 lost minutes)

Propulsion / Dynamic Brakes LRV 1010

T-065

Train #411

LRV (1010A) 1013

S. Pasadena Station, Northbound, Track #1.

7/8/2016 5:05:00 PM - Incident# 2750851 (0 lost trips, 8 lost minutes)

Doors not closing on consist 731(719).

Little Tokyo Station

Train #401, T-228, track #2, southbound.

7/10/2016 8:50:00 AM - Incident# 2751198 (0 lost trips, 9 lost minutes)

Indiana Station, Train-405 T-28 consist #1012-1015 with emergency lighting and HVAC failure on car #1012.

7/12/2016 5:43:00 AM - Incident# 2751894 (1 lost trip, 236 lost minutes)

Door fault/no movement

Train 405

LRV 1005A/1008

T-014

Fillmore station track 2 southbound

7/12/2016 10:10:00 AM - Incident# 2752016 (1 lost trip, 236 lost minutes)

Train 401, Cars (717) and 733.

Lincoln/Cypress, Track 1 north.

ATP failure and no cab speed.

7/14/2016 9:48:00 AM - Incident# 2752894 (0 lost trips, 6 lost minutes)

Consist experiencing limited speed.

Train 404

T-477

(1013) 1008

Track 1 northbound Southwest Museum

7/14/2016 5:10:00 PM - Incident# 2753083 (0 lost trips, 9 lost minutes)

Train 407K at Civic Ctr. Station, track 1 reports B fault in trailing car 1012.

7/15/2016 5:00:00 AM - Incident# 2753221 (2 lost trips, 448 lost minutes)

Train 451, Cars (704) and 703.
Southwest Museum Station, Track 2 south.
Smoking brakes.

7/15/2016 3:51:00 PM - Incident# 2753490 (0 lost trips, 5 lost minutes)

Doors 5/6 cut out on consist (701A)710.
South Pasadena Station
Train #455, T-134, track #2, southbound.

7/17/2016 10:47:00 AM - Incident# 2753862 (1 lost trip, 224 lost minutes)

Major Fault unable to reset (propulsion)
Train #401 T-195 car#739A-734
Northbound at Sierra Madre.

7/18/2016 6:54:00 AM - Incident# 2754080 (1 lost trip, 224 lost minutes)

Train 407, Cars (1006) and 1007.
Maravilla station moving north on Track 1.
Reported emergency lighting and speed restriction.

7/18/2016 9:08:00 AM - Incident# 2754125 (16 lost trips, 3,584 lost minutes)

Train 451, Cars(708) and 709.
Union Station, Track 2 south.
Doors open indication.

7/18/2016 6:14:00 PM - Incident# 2754432 (4 lost trips, 896 lost minutes)

Door fault
Train 429
Car 708
Allen Station
Northbound

7/19/2016 5:09:00 AM - Incident# 2754556 (1 lost trip, 227 lost minutes)

Propulsion / Dynamic Brakes LRV 704A
T-270
Train # 453
LRV (704A) 706
Indiana Station, Track #1, northbound.

7/19/2016 7:00:00 PM - Incident# 2754941 (2 lost trips, 448 lost minutes)

Propulsion faults
Car 1007
Train 407
Lake Station
Southbound

7/20/2016 6:39:00 AM - Incident# 2755045 (0 lost trips, 3 lost minutes)

Friction Brakes LRV 1011

T-216

Train # 407

LRV (1011) 1009

Indiana Station, Southbound, Track #2.

7/20/2016 6:45:00 AM - Incident# 2755051 (2 lost trips, 458 lost minutes)

Propulsion / Dynamic Brakes

T-147

Train # 454

LRV 704 709

Irwindale Station, Track # 2, southbound.

7/20/2016 6:40:00 PM - Incident# 2755416 (2 lost trips, 453 lost minutes)

T-225, Train 429k (1015-1012) approaching Duarte Station, track 2 reports propulsion fault with 35MPH speed restriction.

7/21/2016 6:12:00 PM - Incident# 2755888 (1 lost trip, 224 lost minutes)

Train 426 (731,735) T-196, Fillmore Station, track 2 reports emergency lighting in car 731.

7/22/2016 11:15:00 AM - Incident# 2756167 (1 lost trip, 224 lost minutes)

Friction Brakes LRV 727

T-270

Train 403

LRV (727) 739

South Pasadena Station, Track #1, northbound.

7/24/2016 8:06:00 AM - Incident# 2756675 (1 lost trip, 224 lost minutes)

Train operator reports doors not closing on car 734 with burning smell at SWM station track 2 on train 405

7/25/2016 4:31:00 AM - Incident# 2756831 (0 lost trips, 10 lost minutes)

Car 745 B 5/6 cut out

T-019

Train-413

Consist (745)721

Arcadia Station, Southbound, Track #2

7/25/2016 1:59:00 PM - Incident# 2757195 (1 lost trip, 224 lost minutes)

Train 401 (729,730) T-088 reports major fault train line indication with 35MPH speed restriction.

7/25/2016 4:43:00 PM - Incident# 2757300 (1 lost trip, 224 lost minutes)

Train 427 (748,738) T-207, Duarte Station, track 2 reports propulsion major fault with speed restriction in car 748l.

7/27/2016 8:47:00 AM - Incident# 2758007 (0 lost trips, 6 lost minutes)

No movement, High speed circuit breaker trip, unable to clear. Train 404k consist 1010B-1013, T-477 was on Track 1.

7/28/2016 5:35:00 AM - Incident# 2758399 (1 lost trip, 224 lost minutes)

Car 720B burning breaks

T-157

Consist (720B)719

Train-403

Indiana Station, Southbound, Track #2

7/28/2016 2:56:00 PM - Incident# 2758650 (1 lost trip, 224 lost minutes)

Train 407 (1010,1013) T-185 departing Chinatown Station, track 1 reports no cab signals only 35MPH.

7/28/2016 7:20:00 PM - Incident# 2758732 (1 lost trip, 227 lost minutes)

Train 426 (1008,1005) T-2, track 1 just north of Alameda reports no movement.

7/29/2016 2:20:00 PM - Incident# 2759056 (2 lost trips, 448 lost minutes)

Train 453 (713-703), T-133, Arcadia Interlocking reports reoccurring emergency brake application.

7/29/2016 6:09:00 PM - Incident# 2759123 (2 lost trips, 453 lost minutes)

Train 404 (713,737) T-134, milepost marker 14.7 reports dynamic brake failure with speed restriction in trailing car 713.

7/30/2016 8:44:00 AM - Incident# 2759238 (0 lost trips, 12 lost minutes)

HSCB Trip 722

T-430

Train 401

LRV (722) 724

Duarte Station, Track #2, southbound.

7/30/2016 10:30:00 AM - Incident# 2759263 (0 lost trips, 15 lost minutes)

Auto Train Protection (Speed Limit), No movement on LRV 1009

T-248

Train # 403

LRV (1009) 1011

Rowan Ave, Track #1, northbound.

7/31/2016 2:14:00 PM - Incident# 2759515 (1 lost trip, 224 lost minutes)

Car 740A Prop Fault with Speed Restriction.

T-39

Train 402

Cars 732-(740A)

Arcadia Station, Track 1, northbound.

Police & Health Incidents:

7/9/2016 2:00:00 AM - Incident# 2750917 (0 lost trips, 6 lost minutes)

MTA not involve traffic accident at 3rd and Indiana.

7/13/2016 12:39:00 AM - Incident# 2752286 (0 lost trips, 14 lost minutes)

T-63 Train 425 car 745 physical altercation between 2 males.

7/15/2016 5:05:00 PM - Incident# 2753530 (2 lost trips, 456 lost minutes)

Traffic accident on eastbound 210 freeway is blocking track #1.

Mile marker 12.7 between Sierra Madre and Allen Station

7/18/2016 5:13:00 PM - Incident# 2754417 (0 lost trips, 7 lost minutes)

LASD holding train at Union Station.

7/22/2016 10:00:00 AM - Incident# 2756107 (0 lost trips, 58 lost minutes)

3rd Street and Ditman Avenue, natural gas leak.

7/25/2016 3:06:00 PM - Incident# 2757275 (0 lost trips, 7 lost minutes)

Train 455 reports smoldering smoke at MPM 14.4.

7/31/2016 5:06:00 AM - Incident# 2759423 (0 lost trips, 18 lost minutes)

Train 402 reports trespasser between track 1 and 2 at 3rd and Ford ave.

Operations Incidents:

7/3/2016 6:34:00 PM - Incident# 2749000 (0 lost trips, 20 lost minutes)

Trains Held Outside of Union Station by LASD

7/7/2016 2:03:00 PM - Incident# 2750362 (0 lost trips, 15 lost minutes)

Train 422 (713,714) at Yard Limits did not make contact with control at scheduled pull out time.

7/12/2016 4:54:00 AM - Incident# 2751838 (0 lost trips, 10 lost minutes)

Train 405 consist change in yard.

T-14

Cars 1008/1005

7/27/2016 4:18:00 PM - Incident# 2758204 (0 lost trips, 6 lost minutes)

Train 401 (743-719), Azusa Pacific Station, track 2 departed 6 minutes late due to no alpha AJ at the station.

7/28/2016 5:26:00 PM - Incident# 2758714 (0 lost trips, 10 lost minutes)

Train 426 accrued a 10 minute delay northbound.

Accidents:

7/20/2016 9:25:00 PM - Incident# 2755452 (0 lost trips, 5 lost minutes)

General Services G-502 is complaining the door closed on his foot.

Heritage Square Station

Train #427, T-196, track #2, southbound.

Consist (715)714A.

7/29/2016 10:09:00 PM - Incident# 2759176 (0 lost trips, 20 lost minutes)

Trespasser vs. Train, Cars #(726B)-727

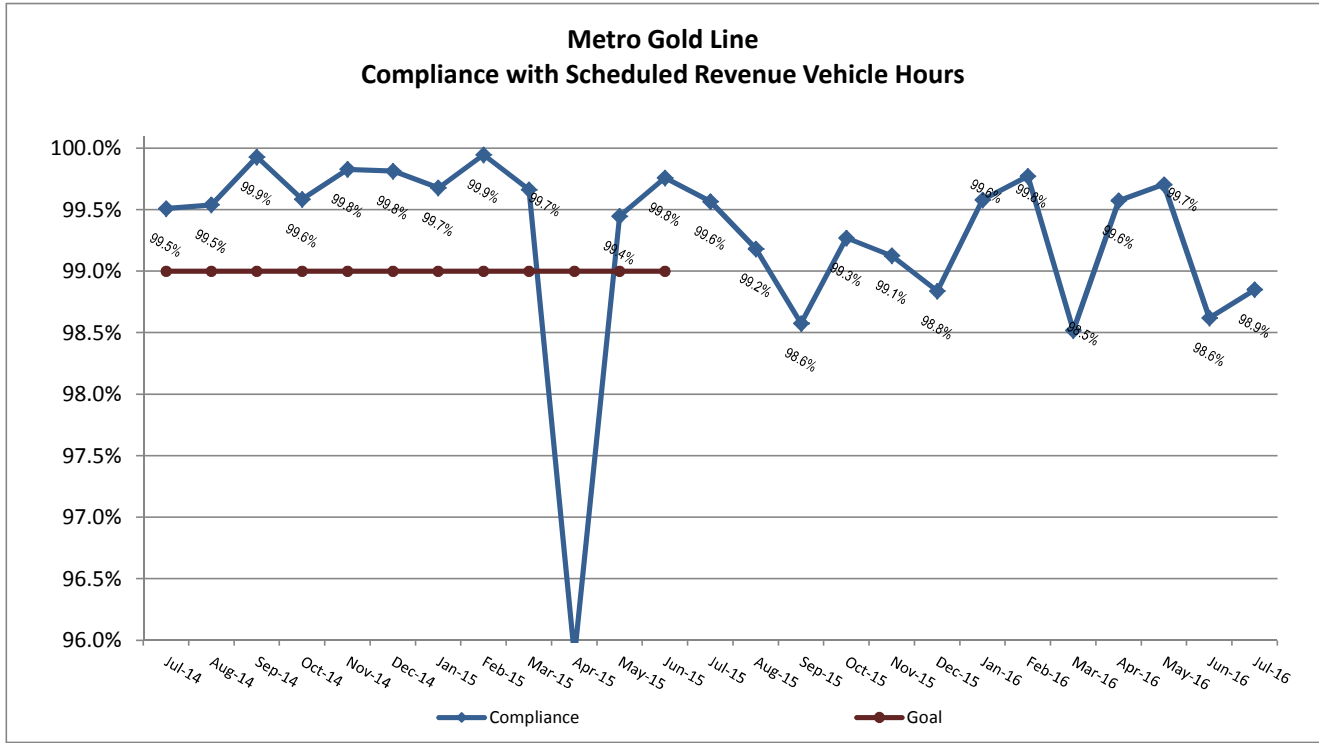
Train #427

T-461

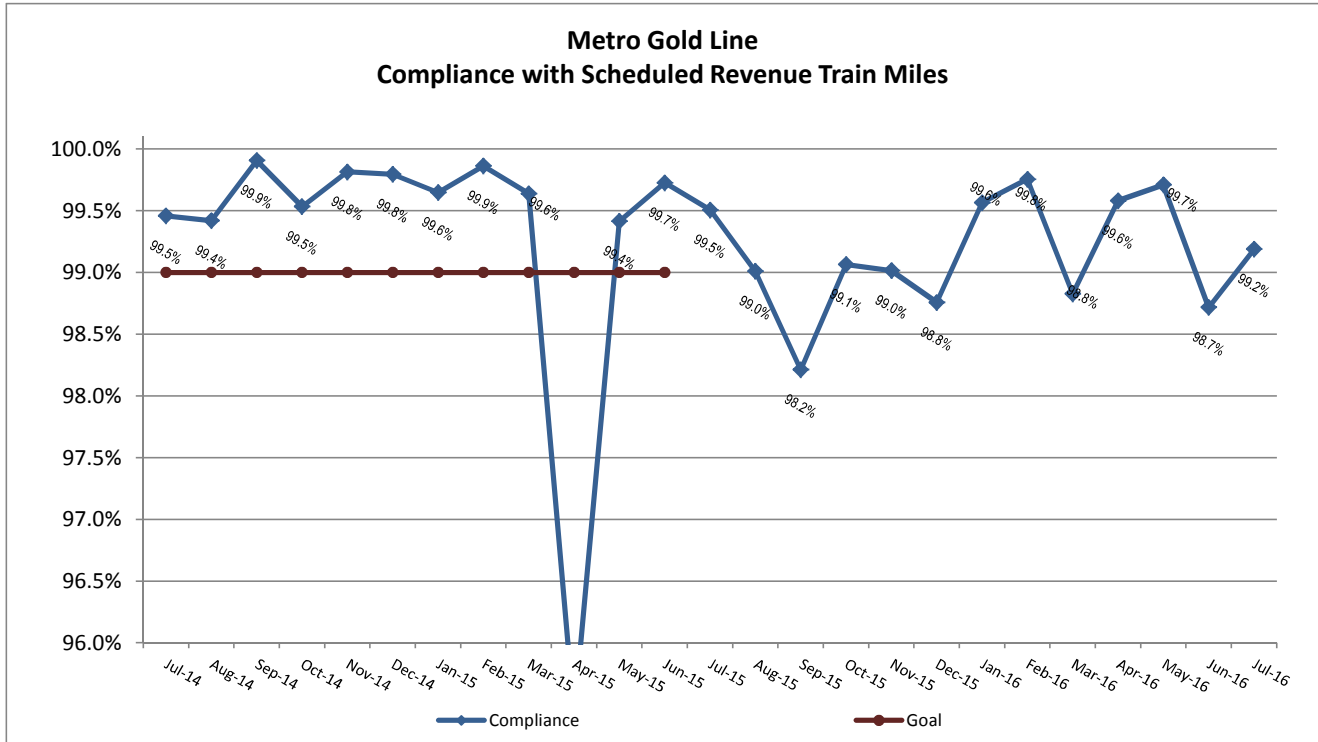
1st Bridge, 1st and Vignes, Tarck#001, Northbound.

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

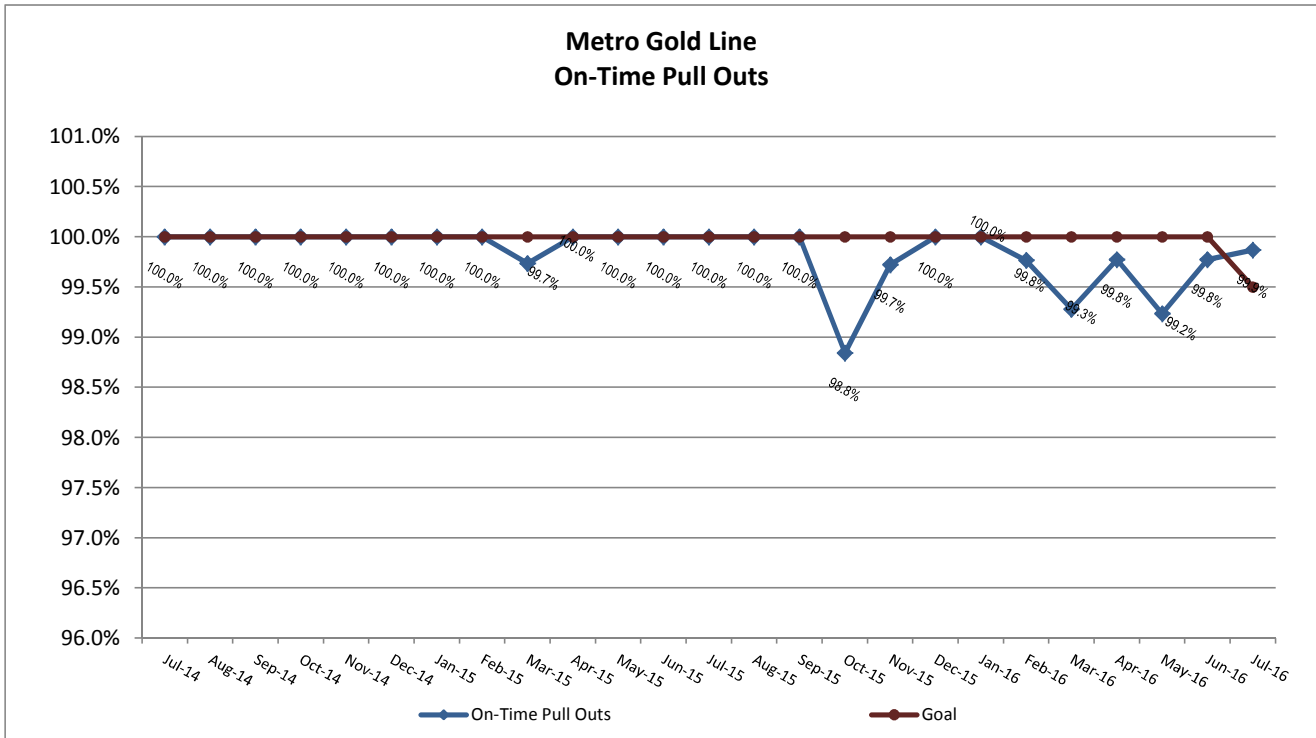
COMPLIANCE WITH SCHEDULED VEHICLE HOURS CHART



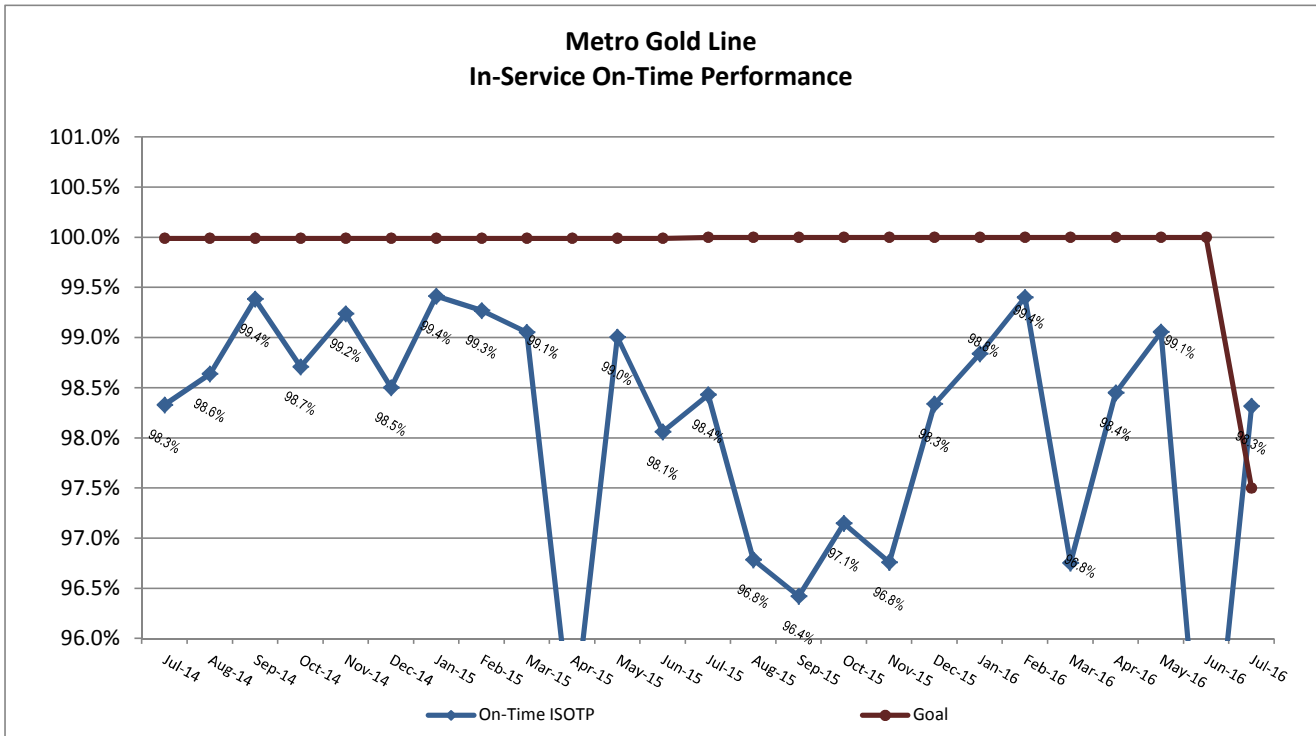
COMPLIANCE WITH SCHEDULED TRAIN MILES CHART



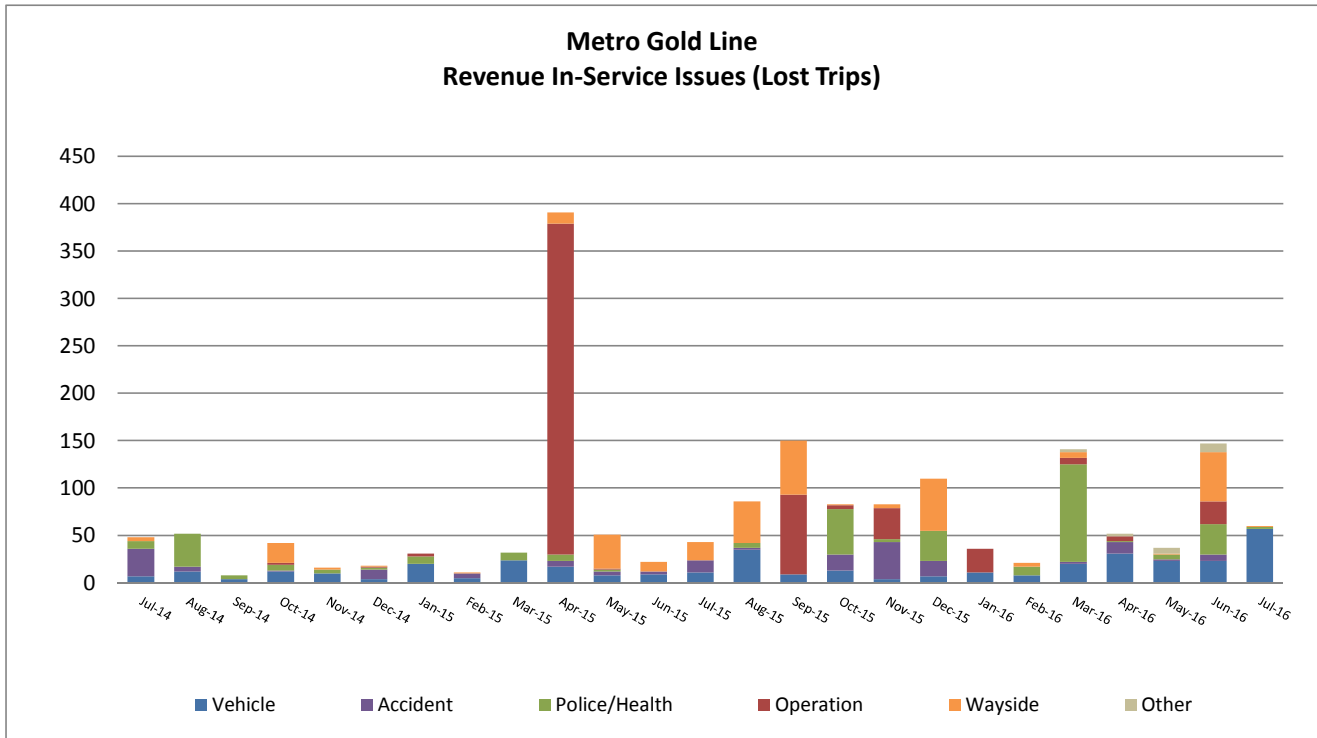
ON-TIME PULL OUTS CHART



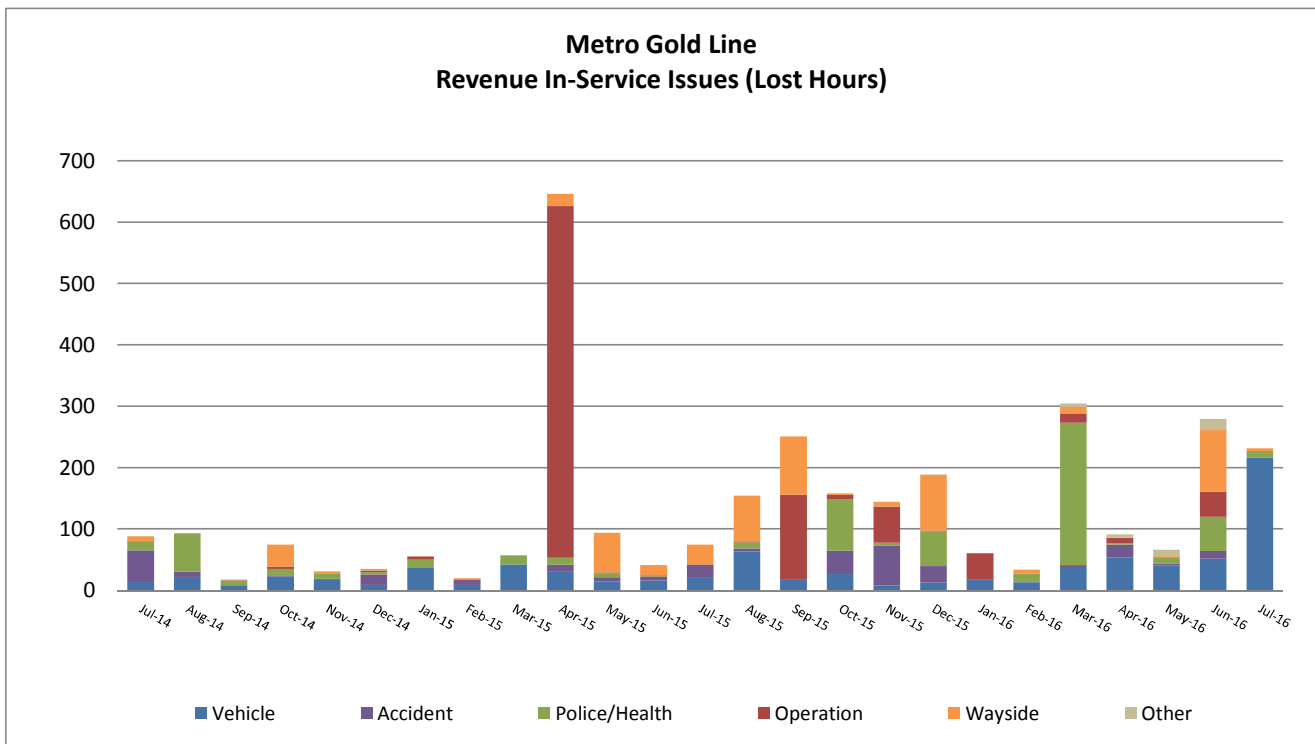
IN-SERVICE ON-TIME PERFORMANCE CHART



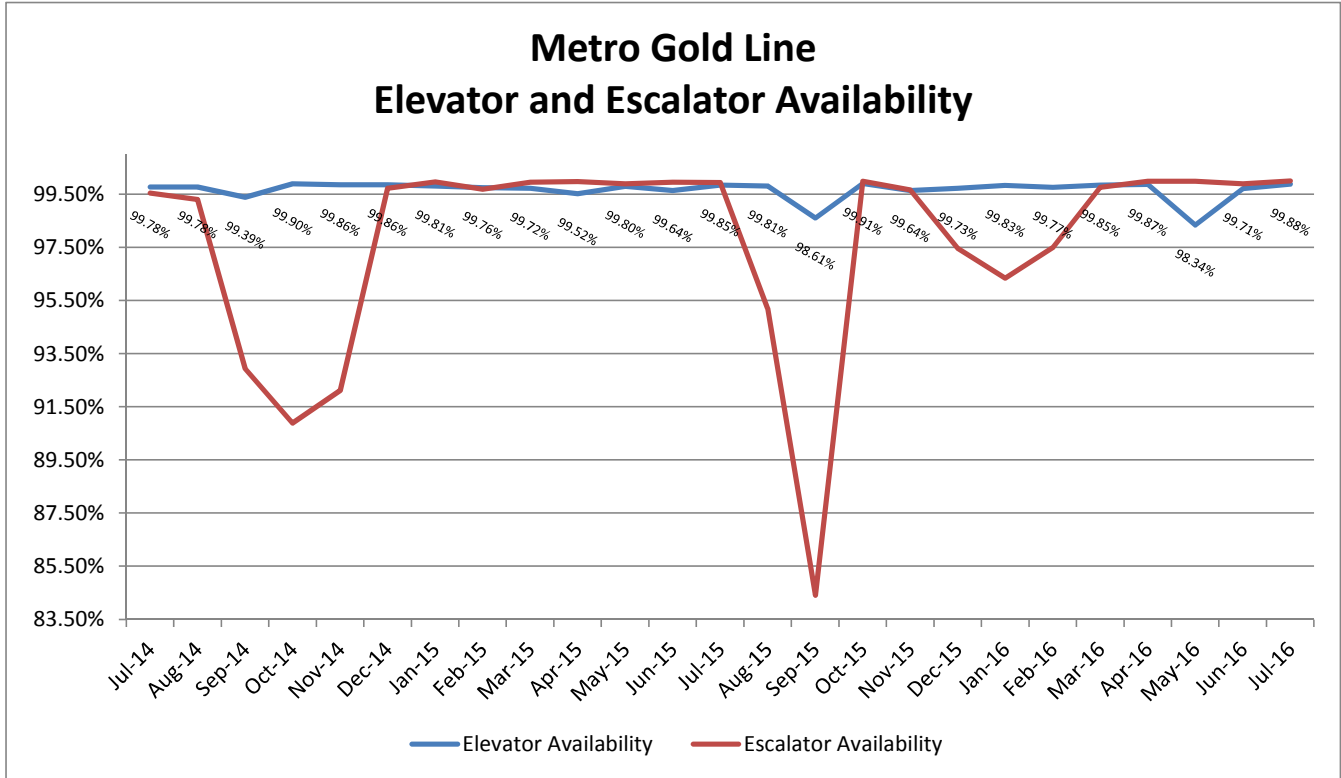
Lost Trips



Lost Hours



VERTICAL TRANSPORTATION AVAILABILITY

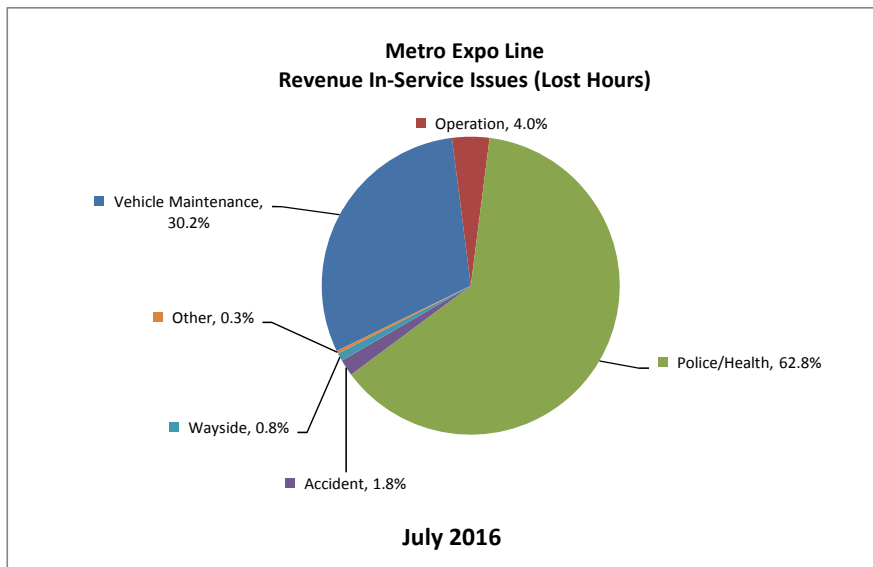


EXPO LINE

Out of a total of 15,462 hours operated, there were approximately 141 total hours of service delays.

July 2016 Service Hours	Revenue	
	Hours	Per Cent
Revenue Hours without Delays	15,321	99.1%
Hours Delayed	141	0.9%
Total Revenue Hours	15,462	100.0%

Summary of the major contributors:	Count	Hours	Per Cent
Operations	8	5.7	4.0%
Accidents	1	2.5	1.8%
Vehicle Maintenance	28	42.7	30.2%
Wayside	6	1.2	0.8%
Police & Health	5	88.7	62.8%
Other	2	0.4	0.3%
Total	50	141.3	100.0%



July 2016 Expo Line major delay contributors were as follows:

Wayside Incidents:

7/4/2016 3:25:00 PM - Incident# 2749146 (0 lost trips, 8 lost minutes)

Switch #3 is out of correspondence.
30th Street Intylocking.

7/5/2016 8:07:00 AM - Incident# 2749413 (0 lost trips, 12 lost minutes)

30th Bypass Interlocking, switch #3 malfunction.

7/8/2016 3:32:00 AM - Incident# 2750520 (0 lost trips, 30 lost minutes)

AO1 Incoming feed lost at overland Deenergized
, lost power from Palms to Bundy

7/20/2016 5:24:00 PM - Incident# 2755385 (0 lost trips, 8 lost minutes)

Broken messenger wire at Culver City Station, Track 3.

7/22/2016 5:39:00 PM - Incident# 2756338 (0 lost trips, 9 lost minutes)

Switch 1A and 1B went out of correspondence.

7/25/2016 8:20:00 PM - Incident# 2757348 (0 lost trips, 5 lost minutes)

Traction Power personnel (TP-181) inadvertently opened the Breakers at Halldale TPSS

Vehicle Maintenance Incidents:

7/1/2016 9:20:00 AM - Incident# 2748288 (0 lost trips, 10 lost minutes)

Prop/Fault.
Train #602
T-516
LRV-(238), 229, 244.
4rth Street Station, Track #4, Northbound.

7/2/2016 1:46:00 AM - Incident# 2748626 (1 lost trip, 132 lost minutes)

No fault no movement
Train 608
(115B)-155
T-518
La cienega tk4 S/B

7/4/2016 3:02:00 PM - Incident# 2749141 (0 lost trips, 23 lost minutes)

No fault, no movement (142A)146,141.
23rd street station
Train #607, T-362, track #4, southbound.

7/4/2016 10:05:00 PM - Incident# 2749183 (2 lost trips, 287 lost minutes)

Train has reoccurring propulsion faults with a speed restriction of 25 MPH.

Train 604, T-380

(230A)-235

Track 4, Culver City, South

7/5/2016 6:35:00 AM - Incident# 2749301 (1 lost trip, 133 lost minutes)

23rd St Station, Train-604 T-126 consist #1019-1014-1024 with door open indication and no movement however all doors observed to be closed. 2nd issue MA Low indication with emergency lighting.

7/5/2016 7:59:00 AM - Incident# 2749429 (2 lost trips, 271 lost minutes)

Pico Station, Train-604 T-405 consist #1016-1023-1020 with no movement without indication and troubleshooting.

7/7/2016 7:23:00 AM - Incident# 2750165 (0 lost trips, 12 lost minutes)

Train 602 reports propulsion faults on 246B

T-89, Train 602

Track 3, 4th St, North

(246B-250-236

7/7/2016 9:10:00 AM - Incident# 2750220 (2 lost trips, 292 lost minutes)

Train 608 has loss air and movement in portal

T-54, Train 608

Track 1, portal, North

(118-(121)-152

7/10/2016 4:26:00 PM - Incident# 2751278 (0 lost trips, 10 lost minutes)

Operator reports of no movement

Train 606

T-323

(1025)1003-1016

7th Metro Ctr., trk. 2, southbound

7/12/2016 1:52:00 PM - Incident# 2752126 (0 lost trips, 10 lost minutes)

Auto Train Protection (Speed Limit) LRV 236

T-214

Train # 605

LRV (236) 250 229

Santa Monica Station, Northbound, Track #3.

7/16/2016 12:00:00 PM - Incident# 2753676 (1 lost trip, 132 lost minutes)

Train 607 reports repeated Propulsion Faults on LRV 112B

Train 607

T-054

LRV'S 9 (112B) 136

Santa Monica Station, Track 3, Southbound.

7/17/2016 6:14:00 AM - Incident# 2753815 (0 lost trips, 5 lost minutes)

Train 608 reports re-occurring propulsion faults
T-414, Train 608
Track 4, 17th, South
(106A)-144

7/17/2016 11:24:00 AM - Incident# 2753871 (1 lost trip, 148 lost minutes)

Train 607 reports propulsion faults that will not clear
T-54, Train 607
Track 4, 23rd Street, South
154-(103)

7/19/2016 2:09:00 PM - Incident# 2754838 (0 lost trips, 9 lost minutes)

Doors 1 and 2 on LRV 100B were cut out. Doors get stuck unable to identify on what they get stuck.

Train 609
T-029
LRV'S (100 B) 102
17Th St Station, Track 3, Northbound.

7/19/2016 4:54:00 PM - Incident# 2754928 (0 lost trips, 10 lost minutes)

Propulsion Fault with Speed Restriction of 35MPH
Train 608
T-449
Cars (229),249,246
La Cienega, Track 4, Southbound

7/21/2016 4:14:00 PM - Incident# 2755840 (1 lost trip, 149 lost minutes)

Car 125B HVAC, hot.
T-265
Train 601
Cars (125B)-103
Santa Monica Station, Track 4, southbound.

7/21/2016 4:32:00 PM - Incident# 2755852 (1 lost trip, 149 lost minutes)

Middle Car 141 brakes had to cut out.
T-325
Train 608
Cars 136-(141)-106
Western Station, Track 3, northbound.

7/22/2016 3:59:00 PM - Incident# 2756310 (3 lost trips, 406 lost minutes)

Propulsion fault with a speed restriction.
Reports recurring propulsion dynamic brake fault.
Train #602
T-029
SB, Westwood Station, Track #4

7/24/2016 2:14:00 PM - Incident# 2756981 (0 lost trips, 7 lost minutes)

Motor Blown fuse LRV 127B
T-252
Train 601
LRV (127B) 133
Santa Monica Station, Track #3, northbound.

7/25/2016 10:54:00 AM - Incident# 2757041 (1 lost trip, 133 lost minutes)

Non-operational pro-trans on LRV 1030B
T-268
Train 604
LRV (1030B) 1026
Crenshaw Station, southbound, Track #4.

7/25/2016 3:21:00 PM - Incident# 2757262 (0 lost trips, 9 lost minutes)

Hot car no HVAC LRV 154A/B
T-519
Train 604
LRV (154A/B)-133
Palms Station, northbound, Track #3.

7/25/2016 4:00:00 PM - Incident# 2757287 (0 lost trips, 6 lost minutes)

Self applying brakes
Reports recurring dynamic brake fault.
Train #606
T-486
(141)-118
NB, 7th and Metro Center Station, Track #1

7/26/2016 3:07:00 PM - Incident# 2757698 (1 lost trip, 158 lost minutes)

Leaking A/C.
Train #604
T-358
LRV-(1026B), 1030.
17th Street, track 3, northbound.

7/30/2016 12:59:00 PM - Incident# 2759295 (0 lost trips, 10 lost minutes)

Reports lose of movement master controller issues/train line issues

Train #603k

T-47

(1016A)-1031-1018

NB, Santa Monica Station, Track #3

7/30/2016 2:56:00 PM - Incident# 2759299 (0 lost trips, 8 lost minutes)

Reports dynamic brake fault/self applying brakes

Train # 602

T-417

(112)-109-140

NB, Santa Monica Station, Track #3

7/30/2016 8:09:00 PM - Incident# 2759312 (0 lost trips, 15 lost minutes)

Train 601

T-455

cars 141-(151A)-137

Sepulveda tk3 southbound

7/31/2016 12:26:00 PM - Incident# 2759503 (0 lost trips, 12 lost minutes)

Propulsion fault with a speed restriction.

Reports recurring propulsion dynamic brake fault.

Train # 609

(242B)-244-246

Northbound, 17Th St Station, Track #3

7/31/2016 2:45:00 PM - Incident# 2759529 (0 lost trips, 14 lost minutes)

Propulsion fault with a speed restriction.

Reports recurring propulsion dynamic brake fault.

Train 606

T-313

(112A)-109

Southbound, Normandie Crossing, Track 4

Police & Health Incidents:

7/6/2016 4:32:00 AM - Incident# 2749686 (8 lost trips, 1,064 lost minutes)

Train 606, Cars (163), 137 and 118.
National/Palms Station, Track 3 north.
Vandalism and assault.

7/7/2016 1:58:00 PM - Incident# 2750594 (30 lost trips, 4,230 lost minutes)

Delays related to Blue Line Incident #2750343

7/7/2016 3:35:00 PM - Incident# 2750394 (0 lost trips, 6 lost minutes)

Train 605 holding Per LASD at Crenshaw station.
T-449
102-146-151
Northbound
Track 3
Crenshaw station

7/19/2016 3:11:00 PM - Incident# 2754866 (0 lost trips, 12 lost minutes)

Traffic accident MTA Vehicle not involved
Jefferson Station
Track 3

7/22/2016 9:53:00 PM - Incident# 2757140 (0 lost trips, 10 lost minutes)

Train 601 Tk 3 nothbund at Palms station passenger had a seizer on train.

Other Incidents:

7/12/2016 4:21:00 AM - Incident# 2751820 (0 lost trips, 13 lost minutes)

Train 605 pulled out of yard 14 minutes late. Per yard control, Outlate due to operator miss out. Scheduled pull out 0407, Actual pull out at 0421.

7/28/2016 4:22:00 AM - Incident# 2758379 (0 lost trips, 13 lost minutes)

Train 606 out late from Div. 14 yard

Operations Incidents:

7/1/2016 4:23:00 PM - Incident# 2748548 (0 lost trips, 8 lost minutes)

Train Delay, Cars (1019)-1014
Train #604K
T-381 and T-514
USC/Expo Park Station, Track #003, Northbound.

7/1/2016 6:50:00 PM - Incident# 2748571 (0 lost trips, 13 lost minutes)

Train Delay, Cars (1019)-1014
Train #604K
T-381 and T-514
USC/Expo Park Station, Track #003, Northbound.

7/4/2016 7:04:00 PM - Incident# 2749163 (1 lost trip, 141 lost minutes)

Cancelled trip, no manpower

7/10/2016 3:44:00 PM - Incident# 2751273 (0 lost trips, 10 lost minutes)

Signal overrun 4th street interlocking

Train 607

T-392

(137A)-121

Track 3

Northbound

Santa Monica Station

7/10/2016 4:38:00 PM - Incident# 2751283 (0 lost trips, 10 lost minutes)

Delays due to 10-72 at Pico Xing

7/16/2016 1:40:00 PM - Incident# 2753690 (1 lost trip, 132 lost minutes)

Train 607 proceeding southbound from 7th Metro Ctr. to Santa Monica was turned back at Culver City.

Train 607

T-354

116-120

Culver City, southbound, Trk. 4

7/18/2016 2:58:00 PM - Incident# 2754203 (0 lost trips, 10 lost minutes)

A passenger on board Train 604k, proceeding southbound, towards Santa Monica Terminal, utilized the train's "PIC" communication system to report an emergency. Train operator (T-511) failed to respond.

7/25/2016 8:25:00 PM - Incident# 2757359 (0 lost trips, 17 lost minutes)

Operator reports of no movement

Train 608

T-299

302-301-247

USC Expo station, Trk. 4, southbound

Accidents:

7/10/2016 4:30:00 PM - Incident# 2751280 (1 lost trip, 153 lost minutes)

Operator reports of a 10-72 at the Pico station

Train 606

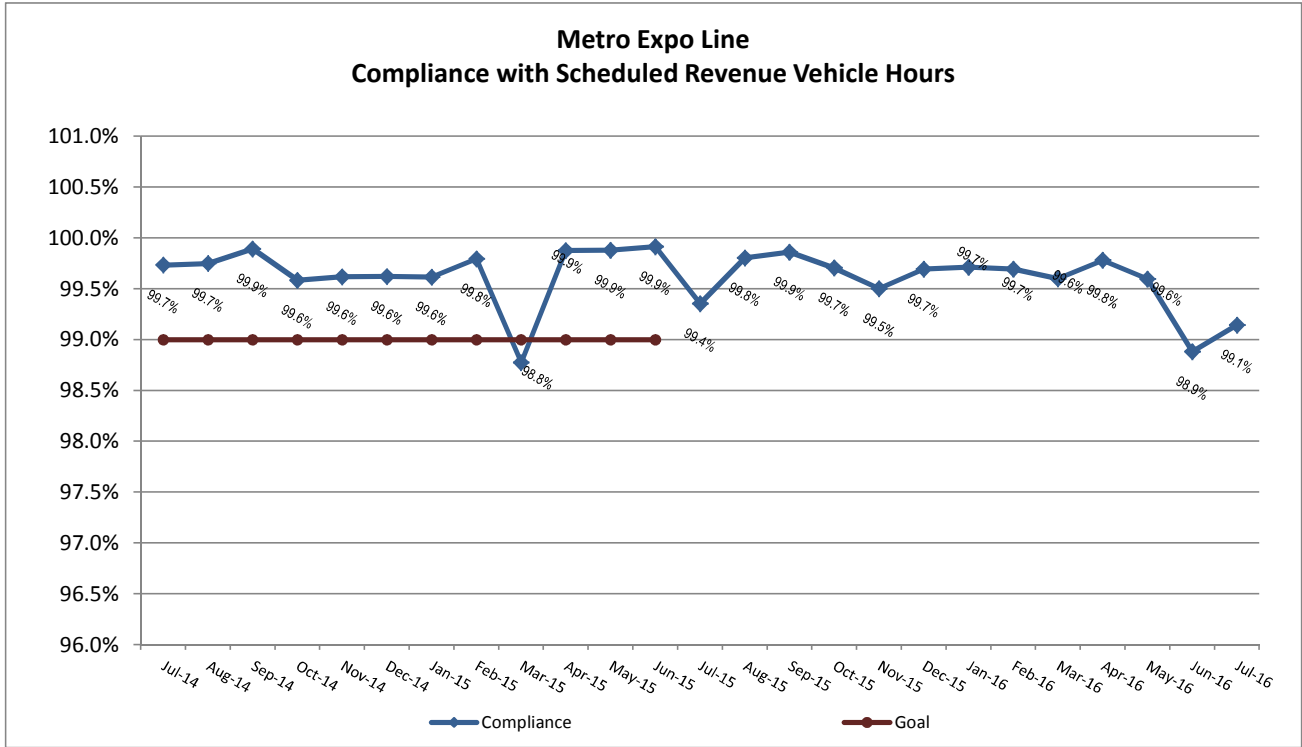
T-325

(232)237

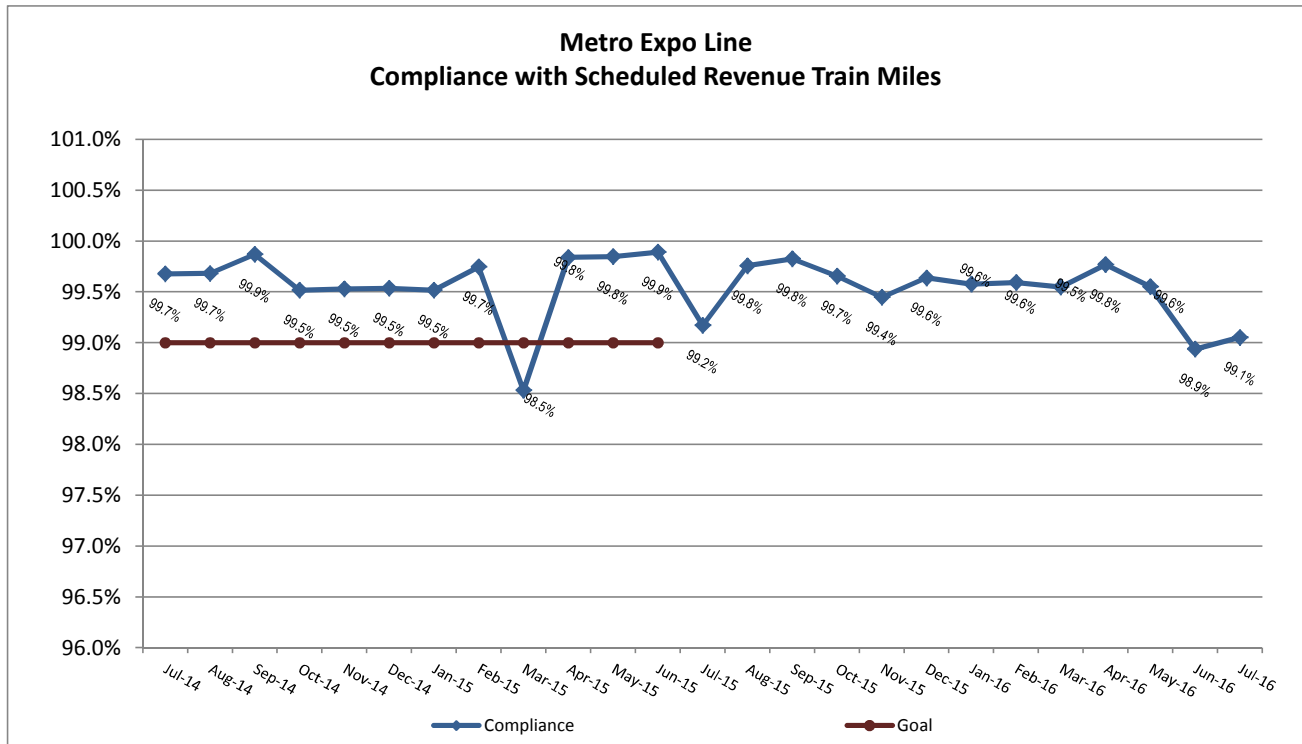
Pico station, Trk. 2, southbound

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

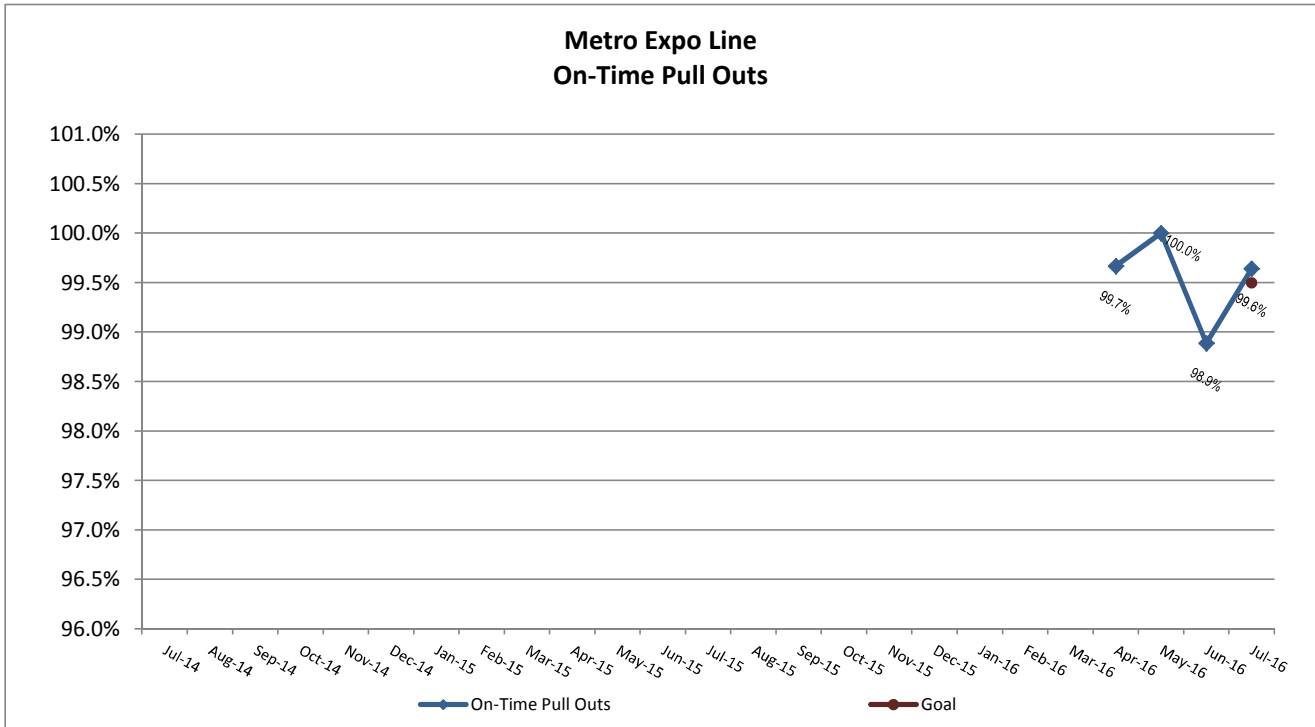
COMPLIANCE WITH SCHEDULED VEHICLE HOURS CHART



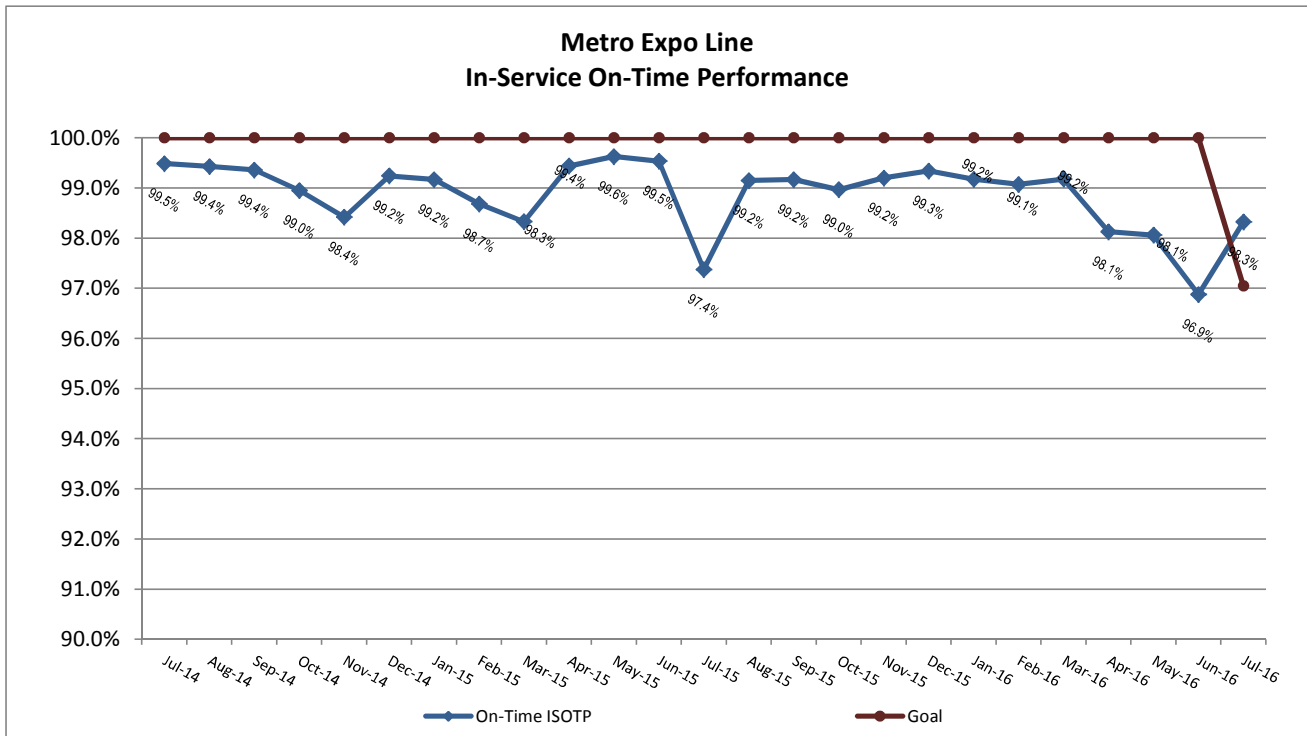
COMPLIANCE WITH SCHEDULED TRAIN MILES CHART



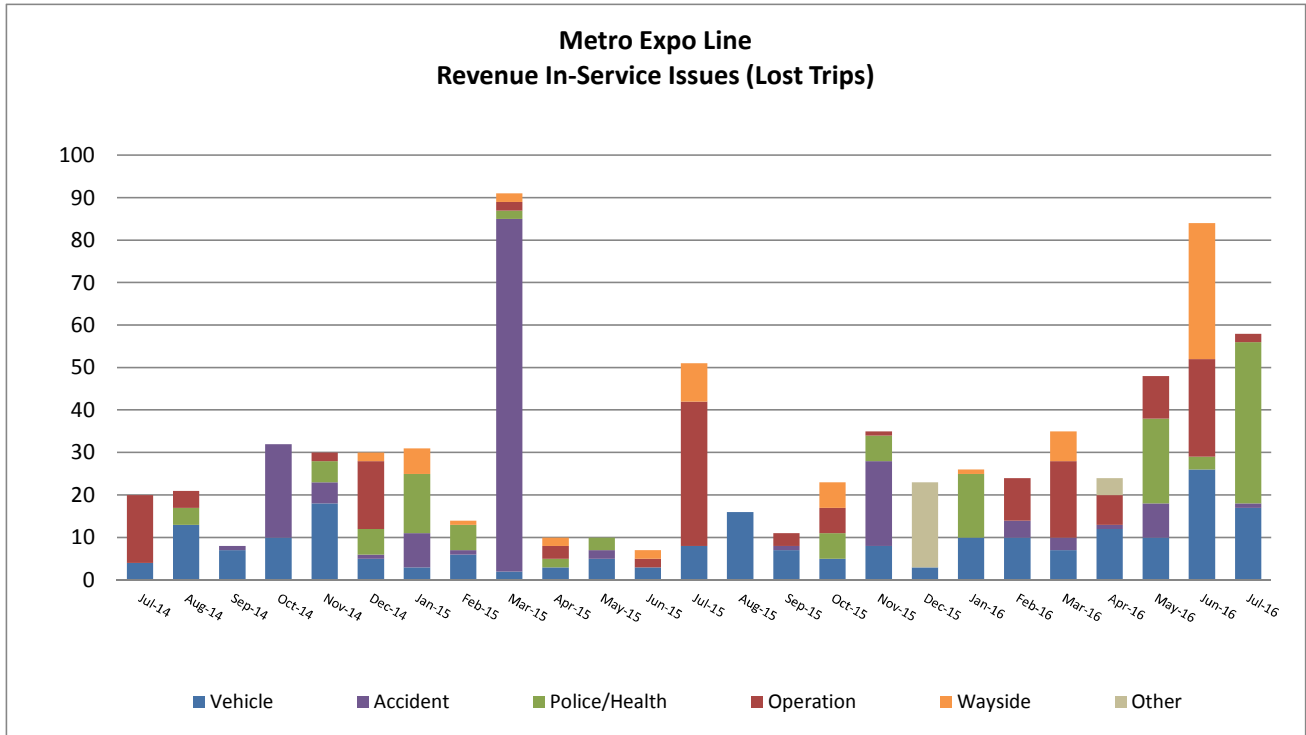
ON-TIME PULL OUTS CHART



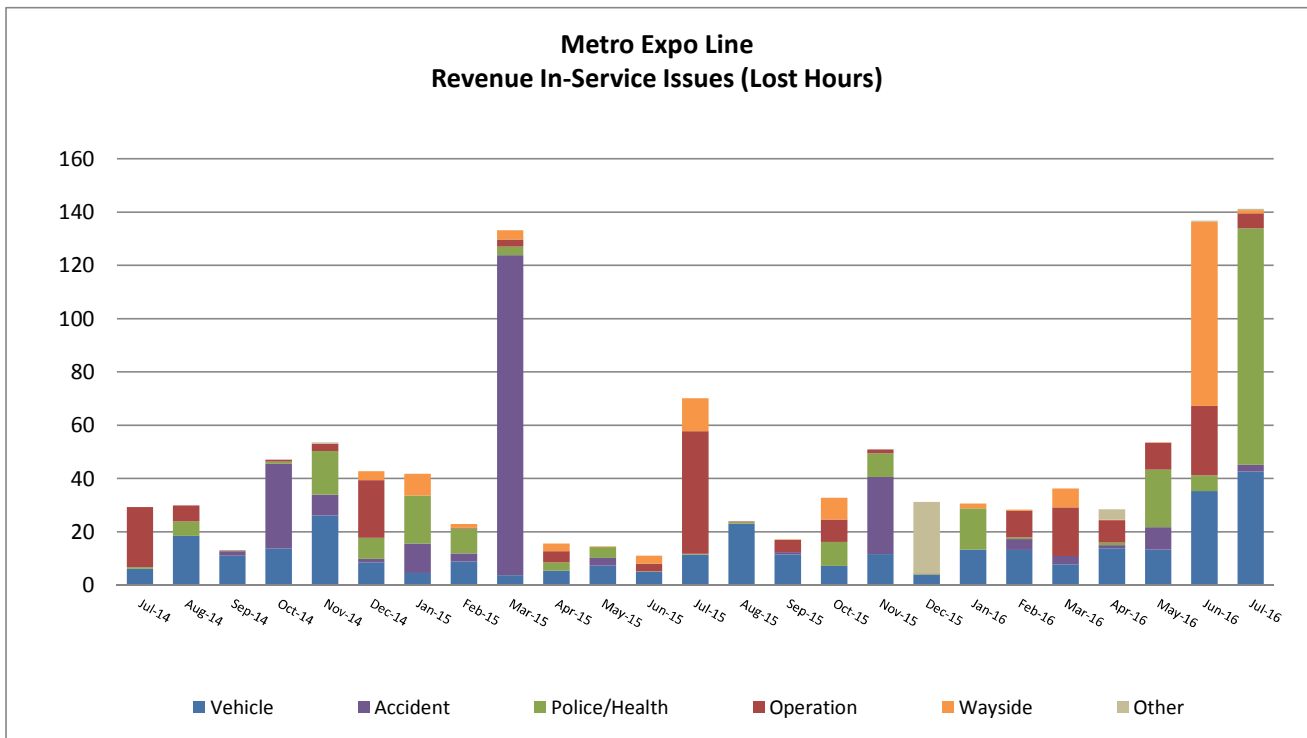
IN-SERVICE ON-TIME PERFORMANCE CHART



Lost Trips



Lost Hours



VERTICAL TRANSPORTATION AVAILABILITY

