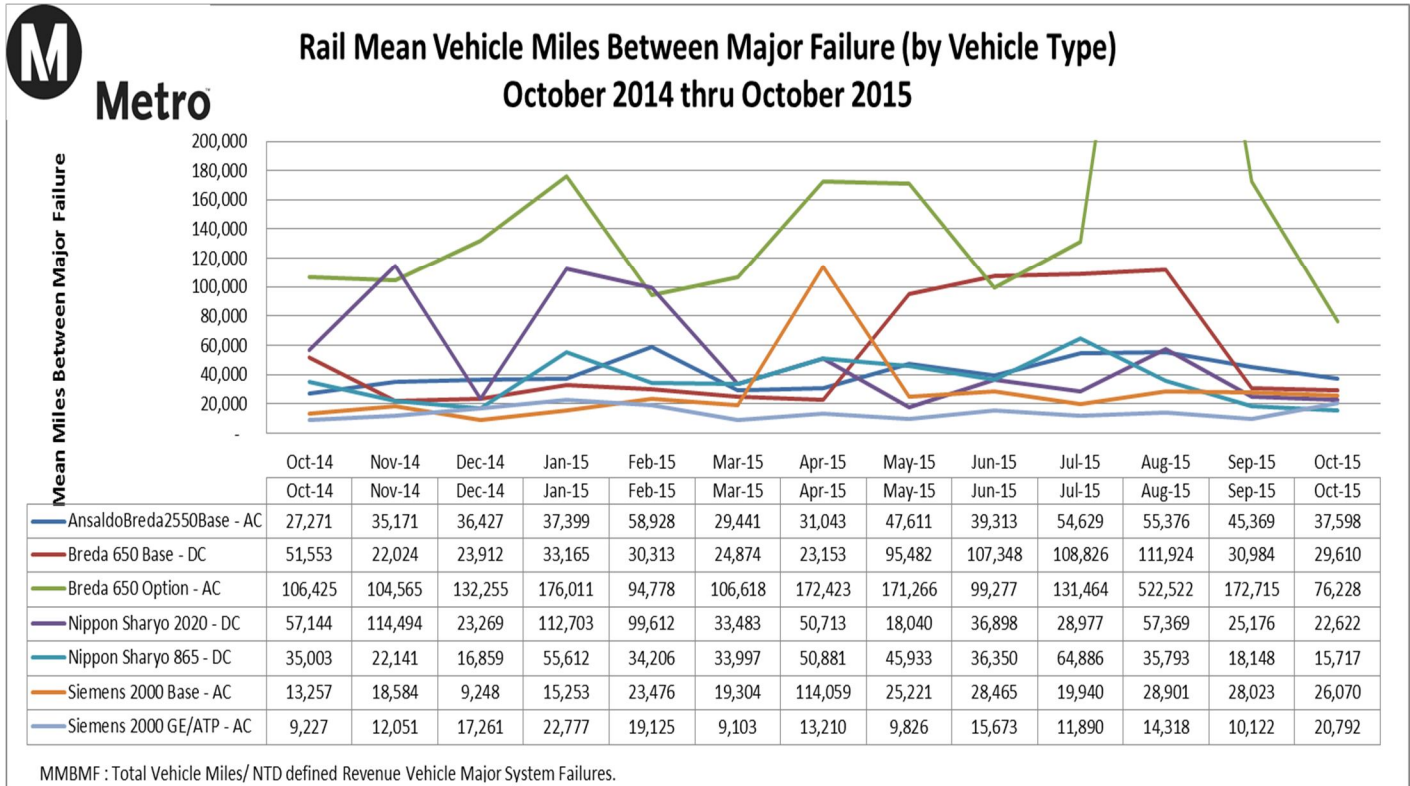


METRO RAIL PERFORMANCE – FY16 -OCTOBER 2015

RAIL PERFORMANCE SYSTEMWIDE



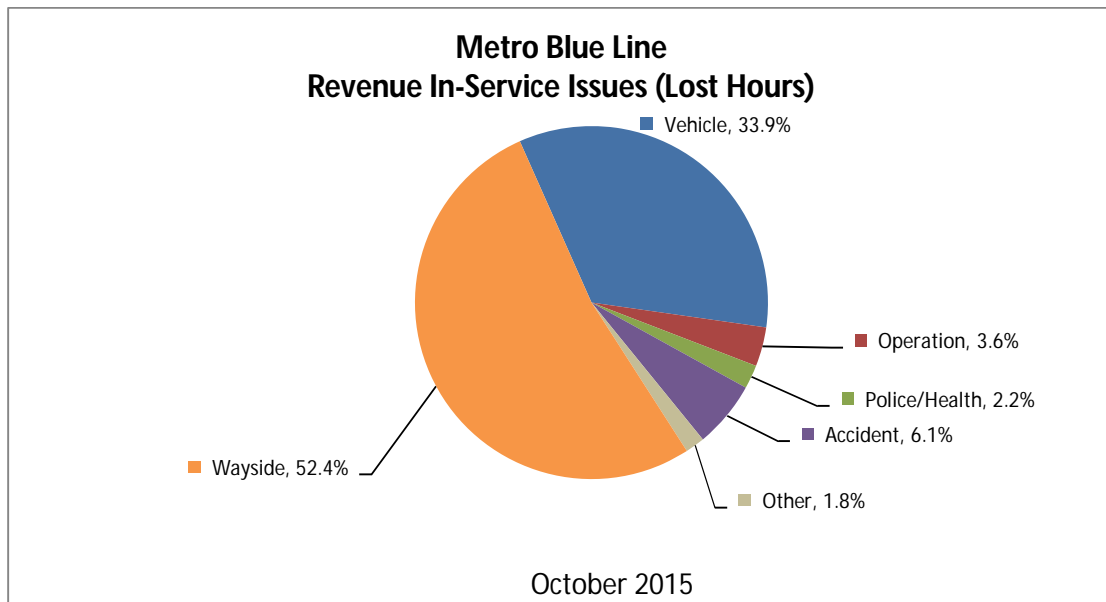
Number of Rail Vehicle Type by Division	<u>RED/ PURPLE</u>	<u>BLUE/ EXPO</u>	<u>GREEN</u>	<u>GOLD</u>
AnsaldoBreda2550Base - AC				50
Breda 650 Base - DC	30			
Breda 650 Option - AC	74			
Nippon Sharyo 2020 - DC		15		
Nippon Sharyo 865 - DC		54		
Siemens 2000 Base - AC			29	
Siemens 2000 GE/ATP - AC		23		
TOTALS	104	92	29	50

RAIL PERFORMANCE BY LINE

BLUE LINE

There were approximately 325 total hours of service delays with major contributors as follows:

• Wayside	170 hours	52%
• Vehicle	110 hours	34%
• Accidents	20 hours	6%
• Operations	12 hours	4%
• Police & Health	7 hours	2%
• Other	6 hours	2%



The major contributors were as follows:

Blue Line:

10/01/15 - Police/Health

Train 121 reported a trespasser lying next to Track 2 at Manville grade crossing as he approached south bound. Operator was able to stop the train but was unsure if he made contact with the trespasser. LASD arrived at scene, trespasser jumped the ROW fence on the west and cleared from tracks. Ground inspection found no evidence of any contact with train. Maximum delay of 20 minutes Artesia to Willow station southbound. 20 mins max delay.

10/03/15 - Accident

Train 112 reported a Train Vs. Auto Southbound Track 2 at 130th grade crossing with the vehicle blocking track 1. Both tracks are blocked at this time. Turnback operations implement Northbound trains turning back from Compton and Southbound trains turning back from Willowbrook. : At 2319 hours incident train was off-loaded and passengers were transported to Willowbrook station by bus. Tow truck is on-scene to remove vehicle from ROW. At 2352 hrs, the incident train proceeded North to Imperial pocket. At 2356 hours, tracks 1 & 2 released for normal operations. 14 trips canceled with a max delay of 92 mins.

10/03/15 - Accident

Train 118 reported it ran over debris that was on the ROW southbound upon approach to the Washington curve. Train 118 reported it was debris from the fencing installed on the center of the ROW, which was damaged by a vehicle prior to train 118's arrival. Single tracking operation initiated. Train 118 offloaded passengers at 1646 hrs. At 1907 hrs, incident train was stored in the tail track at 7th & Metro. 1 trip canceled & 25 trips affected with a max delay of 35 mins.

10/10/15 - Signal

SCADA system indicated the Maple interlocking switches out of correspondence, track circuit false occupancies and signal power failure. Single tracking and turn backs operations initiated. Manual blocks and clearance cards issued for train movement. CPU computers were reset several times at both Maple and San Pedro interlocking. Alarms cleared and normal operations were resumed at 1024 hrs. 1 trip canceled & 27 trips affected with a max delay of 35 mins.

10/12/15 - Vehicle Maint

Train 105 offloaded at Wilmington station due to speed restriction and slow propulsion on Car 111 Southbound and north from Willow to 7th & Metro. 2 trips canceled with a max delay of 9 mins.

10/13/15 - Police/Health

Train 118 reported an MTA not involved car accident blocking track two Long Beach BLVD at 7th street. Trains 117 and 118 were turned back and incurred a 8 minute delay. 2 trips canceled with a max delay of 8 mins.

10/14/15 - Power

Train 102 reported a loss of power at 103th street station and Train 104 reported a loss of power at Firestone station. Trains were turned back northbound from Willowbrook Station and southbound from Slauson Station. Train 102 and 104 were off loaded through evacuation. At 1411 hrs, the tracks were reenergized. Normal operations resumed. 5 trips canceled & 20 affected with a max delay of 46 min.



10/14/15 - Vehicle Maint

Train 105 reported a Dynamic Brake Fault on Car 162 southbound at 7th & Metro. A Vehicle Tech requested the train be removed from service. 1 trip canceled with a max delay of 22 mins.

10/15/15 - Vehicle Maint

Train 123 Aux power (AC or MA Fault) on Car 104 at Willowbrook Station. Train not exceeding past 40mph. Train stayed in service. 20 mins max delay

10/16/15 - Power

SCADA system indicated a loss of Traction power from Willowbrook Station to Compton Station. Trains 110, southbound from Willowbrook and Train 117 northbound from Compton Station had no power and were stranded. Turnback operations implemented. At 1441 hrs, Traction Power arrived at the Piru TPSS. Traction Power was able to restore power to the affected area at approximately 1451 hrs. 6 Blue & 4 Expo trips were canceled with a max delay of 46 mins.

10/16/15 - Accident

Train 106 reported a Train Vs. Auto on Track 2 Southbound at Pico Station. Train 106 was moved to Pico Station at 1925 and offloaded. Single tracking and turnback operations on both Expo & Blue Lines implemented from 7MC to Venice Interlocking. Train 106 was released by LAPD at approximately 2045 hrs. 5 Blue and 4 Expo trips canceled and 36 trips affected with a max delay of 20 mins.

10/16/15 - Power

SCADA system indicated both tracks are de-energized between Florence and Firestone as of 2029 hrs. Turn back operations implemented from 103rd Street Station traveling North. Turning back trains from Slauson Station traveling South. Power was restored at 2052 hours. Only Train 116 was turned back at Willowbrook to Long Beach. 1 trip canceled and 5 trips affected with a max delay of 22 mins.

10/19/15 - Signal

SCADA system indicated a false occupancy on both tracks at the Mainline Yard Interlocking. Control issued manual blocks to proceed past red indications and for ATP bypass through the area. The incident area cleared at 1358 hrs. 26 trips affected with a max delay of 15 mins.

10/20/15 - Vehicle Maint

Train 111 reported a friction brake fault with no movement on Car 247 Southbound at Willowbrook Station. Single Tracking and Turnback operations implemented from Florence to Imperial Interlocking. 2 trains turned back southbound from Willowbrook Station to accommodate passengers on incident train. Incident train was relocated to Blue Line Yard 0933 hrs. 4 trips canceled with a max delay of 18 mins.

10/23/15 - Police/Health

A trespasser was reported in the portal at 7th/Metro. LASD and Metro Security were notified. Both law enforcement agencies swept the portal for the trespasser but none found.



One Expo train was turned back at 23rd St station. One Blue line train turned back at Washington Station. 2 trips canceled with a max delay of 15 mins.

10/24/15 - Vehicle Maint

Train 111 reported all doors on the consist would not open and the train was disabled Southbound at 7 & Metro. The line was bumped until the consist was removed to the tail track. 7 trips affected with a max delay of 20 mins.

10/24/15 - Vehicle Maint

Train 114 reported the doors on Car 112 were not closing Southbound at PCH. The train was offloaded and removed to the Yard. 1 trip canceled with a max delay of 20 mins.

10/26/15 - Operations

Train 390 (out of service train) reported no movement, no indications in the 7th/Metro portal Southbound. Train regained movement to Pico Station where a Vehicle tech made minor repairs to clear the faults. 20 mins max delay.

10/29/15 - Power

SCADA system indicated a Wardlow TPSS Activation Alarm with Tracks 1 and 2 De-energized between Wardlow and Willow Station. Turnback operations implemented at Del Amo and Willow Station. Traction Power was restored as of 1645 hours. 34 trips canceled with a max delay of 139 mins.

10/29/15 - Vehicle Maint

Train 107 reported a propulsion fault with no movement on Car 246 Southbound at Flower and 18th. Single tracking and turn backs operations implemented. Manual blocks and clearance cards issued for train movement, train was able to proceed south bound. 6 trips canceled with a max delay of 34 mins.

10/29/15 - Vehicle Maint

Train 104 reported a loss of air pressure in Car 106 Northbound at Willow Station with no movement. The train recoupled to build air pressure and proceeded. 20 mins max delay.

10/30/15 - Power

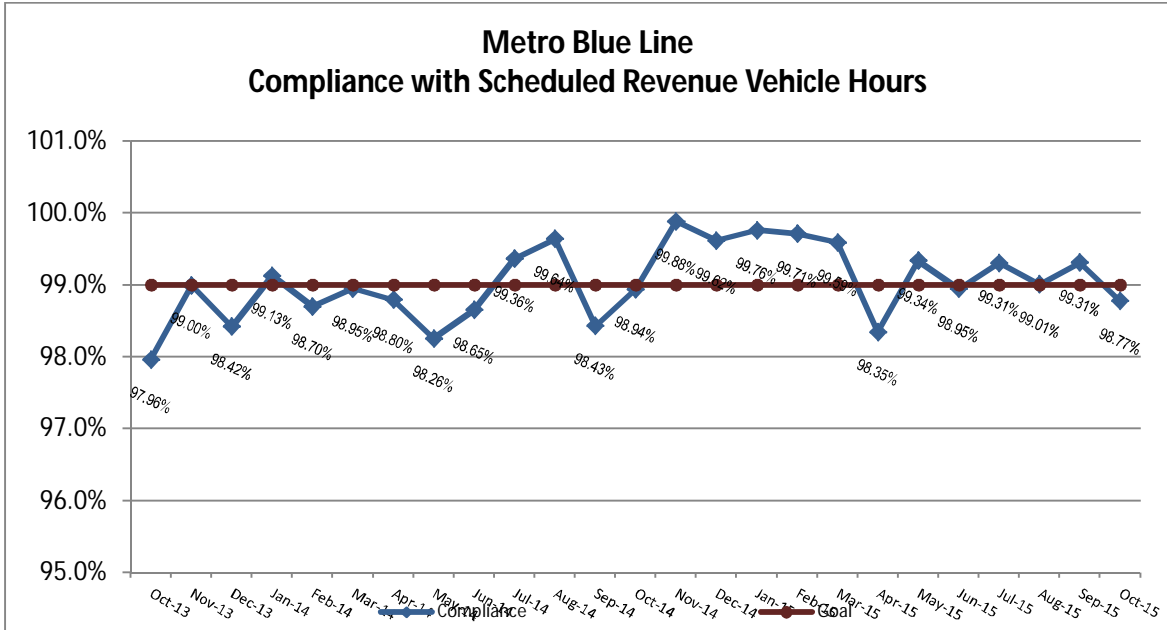
SCADA system indicated a Loss of traction power between Willow Station and Del Amo Station. Power was restored 0937 hrs. Trains proceeded north/south bound with major delays. The bus bridge was kept in place to assist with the overloading of passengers.

10/30/15 – Signal

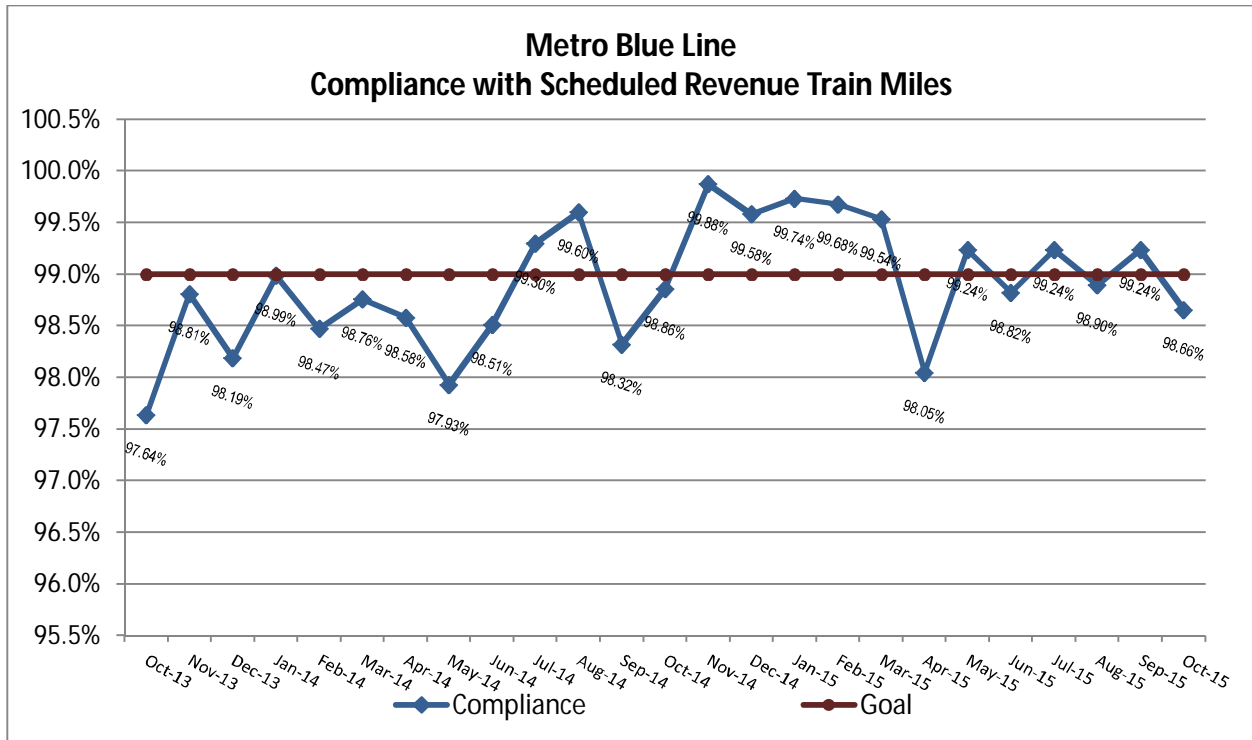
SCADA system indicated a Switch 42 at main yard was out of correspondence. Single tracking and turn back procedures implemented. A RTOS was manually throwing switch 42, and flagging procedures were in effect a operator was requested from the yard to assist at the switch. 4 Willow Turnback trains were canceled at 0641 hrs, All main yard switches were out of correspondence. At 0715 hrs, switches and signals control was regained. 4 trips canceled and 80 trips affected with a max delay of 20 mins.

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS FOLLOWS:

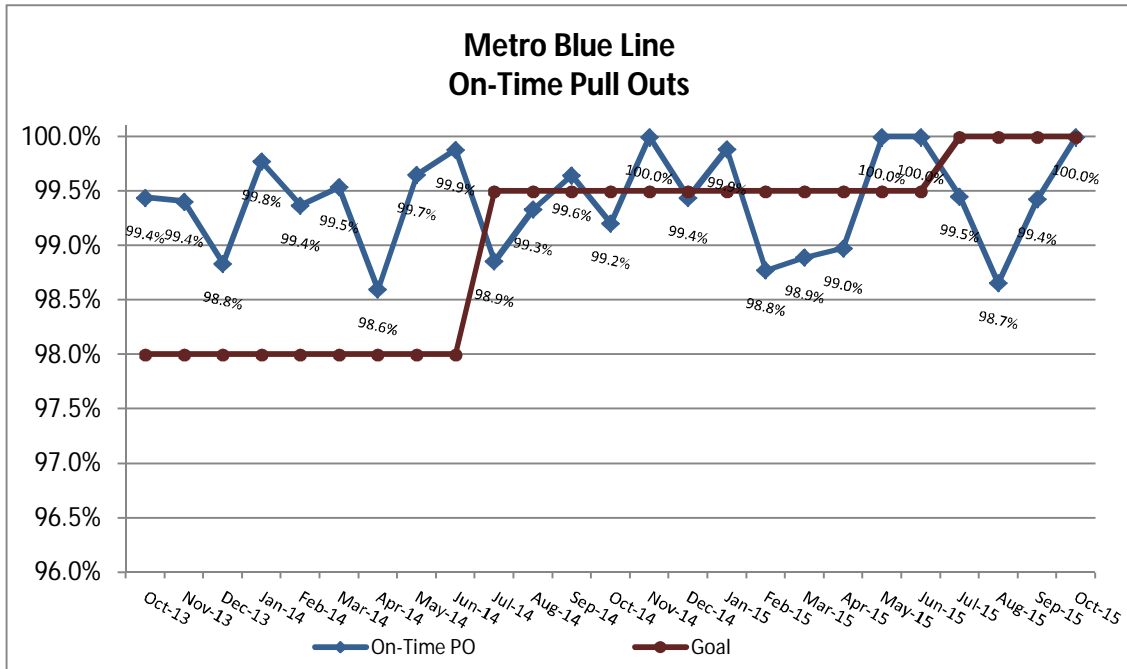
COMPLIANCE WITH SCHEDULED VEHICLE HOURS CHART



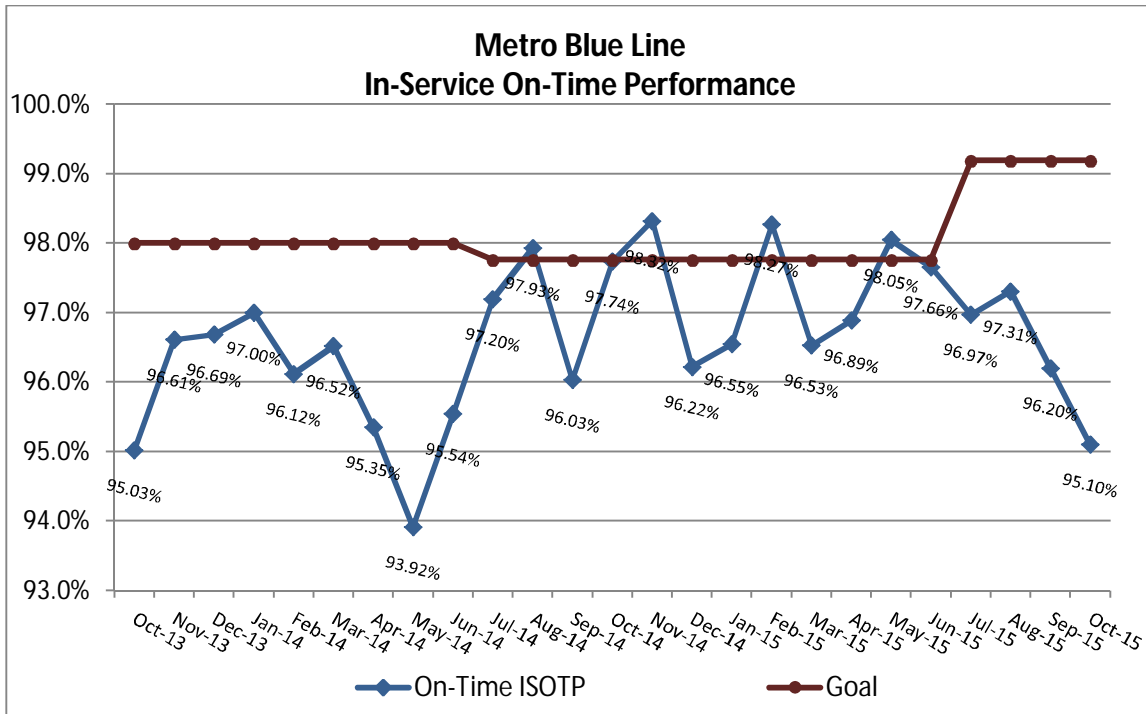
COMPLIANCE WITH SCHEDULED TRAIN MILES CHART

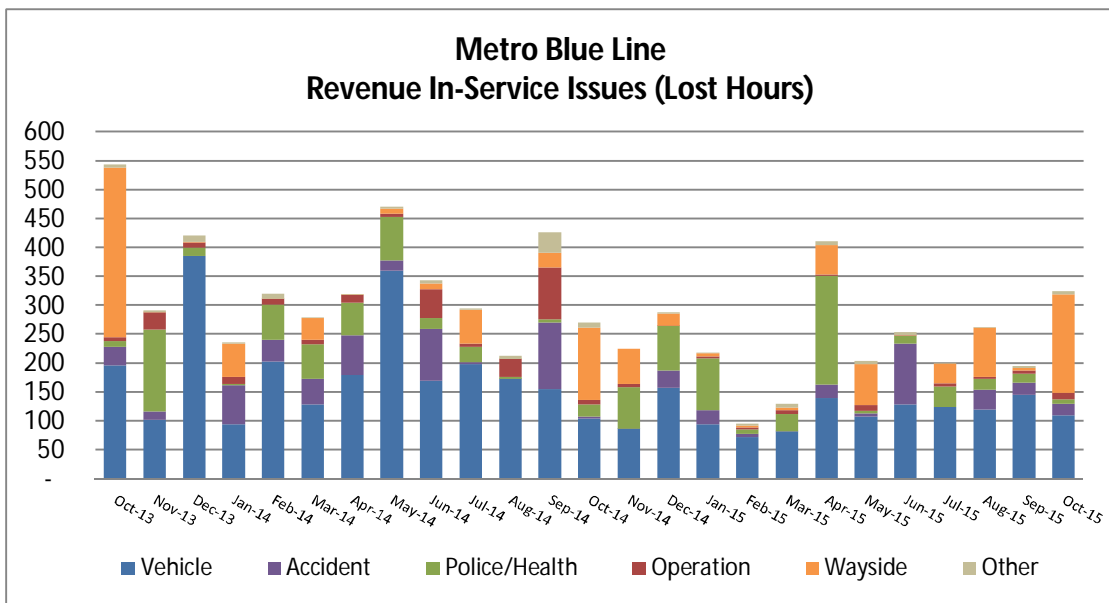
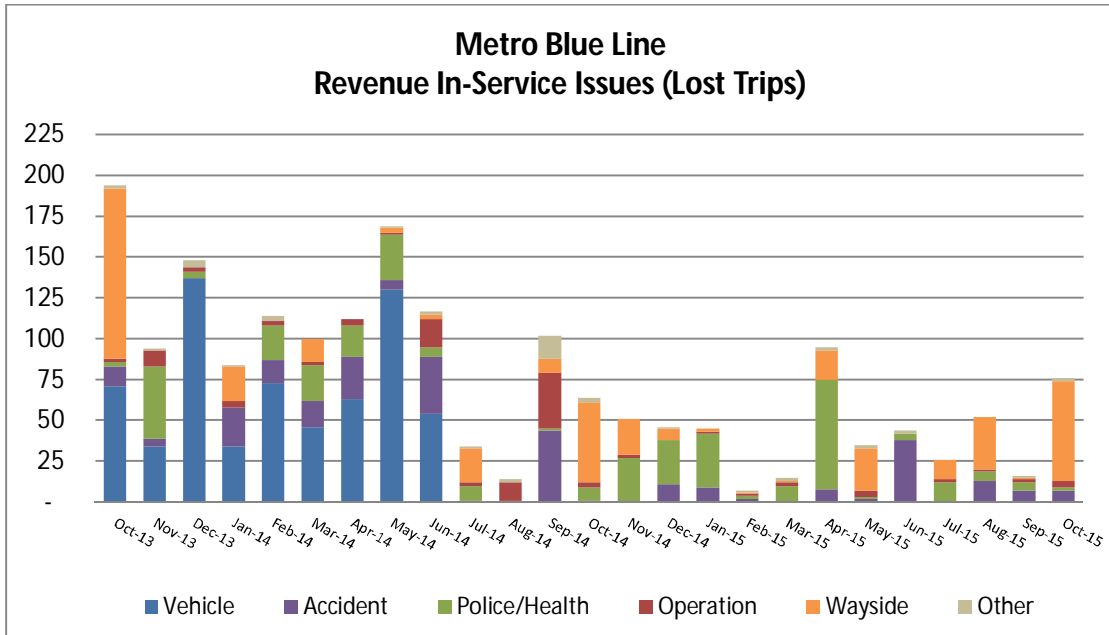


ON-TIME PULL OUTS CHART



IN-SERVICE ON-TIME PERFORMANCE CHART

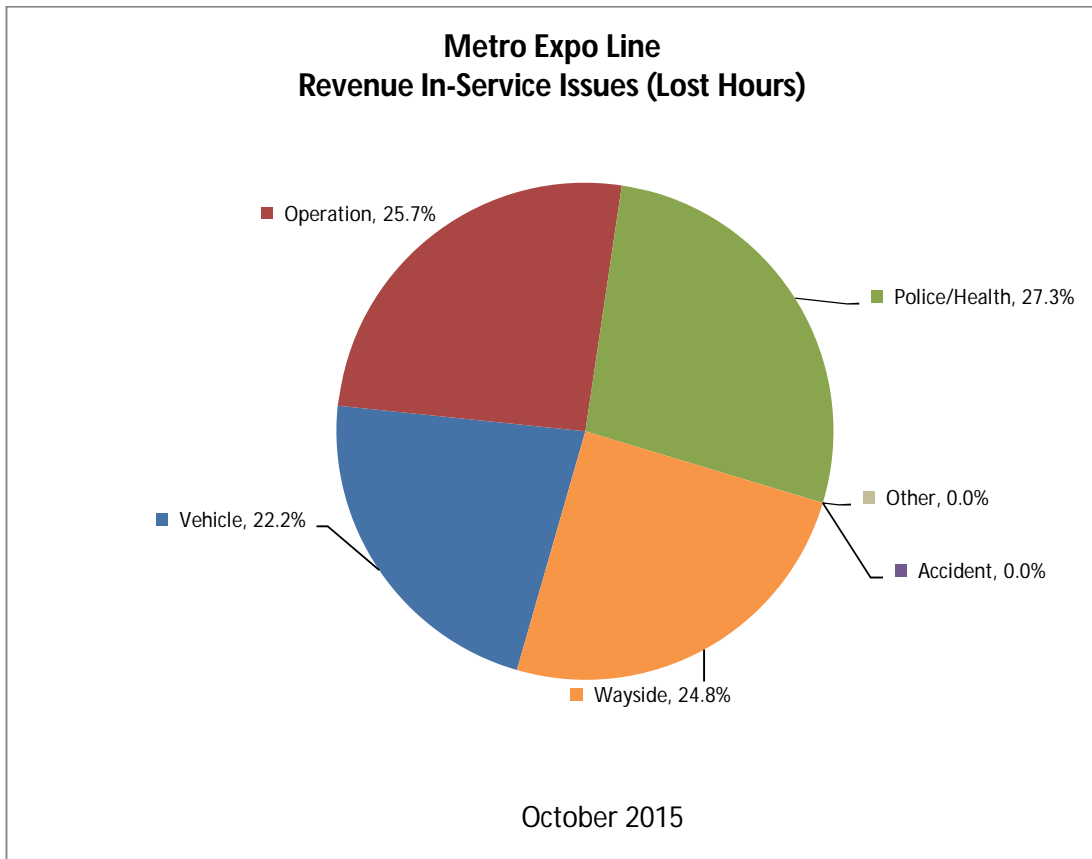




EXPO LINE

There were approximately 33 total hours of service delays with major contributors as follows:

- Police & Health 9 hours 27%
- Operations 8 hours 26%
- Wayside 8 hours 25%
- Vehicle 7 hours 22%
- Accidents 0 hours 0%
- Other 0 hours 0%



The major contributors were as follows:

Expo Line

10/18/15 - Vehicle Maint

Train 115 reported no southbound movement on Car 163 at 23rd Street Station. Train 101 and 118 were singled tracked around B/O train. Trip was cancelled for train 115 southbound and northbound on Expo Line. 2 trips canceled with a max delay of 12 mins.



10/18/15 – Vehicle Maint

Train 115 reported no southbound movement on Car 163 at 23rd Street Station. Train 101 and 118 were singled tracked around B/O train. Trip was cancelled for train 115 southbound and northbound on Expo Line. 2 trips canceled with a max delay of 12 mins.

10/30/15 - Operations

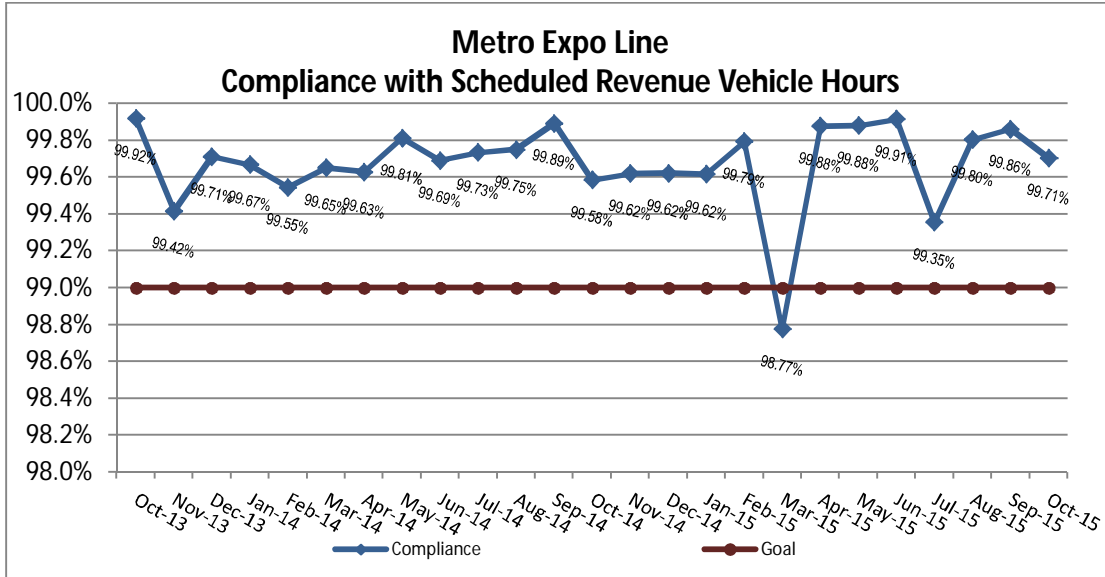
Due no Equipment available at 7th & Metro Center train 116 to Culver City was canceled Southbound and Northbound. Train 110 Turnback from Jefferson Station and control implemented single tracking operations. Trains 103 and 104 were cancelled at 7th & Metro due to excessive trains and diverted Willowbrook Station on the Blue Line. LASD and Track Department cleared the incident at 2246 hrs and normal service was restored. 6 trips canceled & 22 affected with a max delay of 15 mins.

10/31/15 - Police/Health

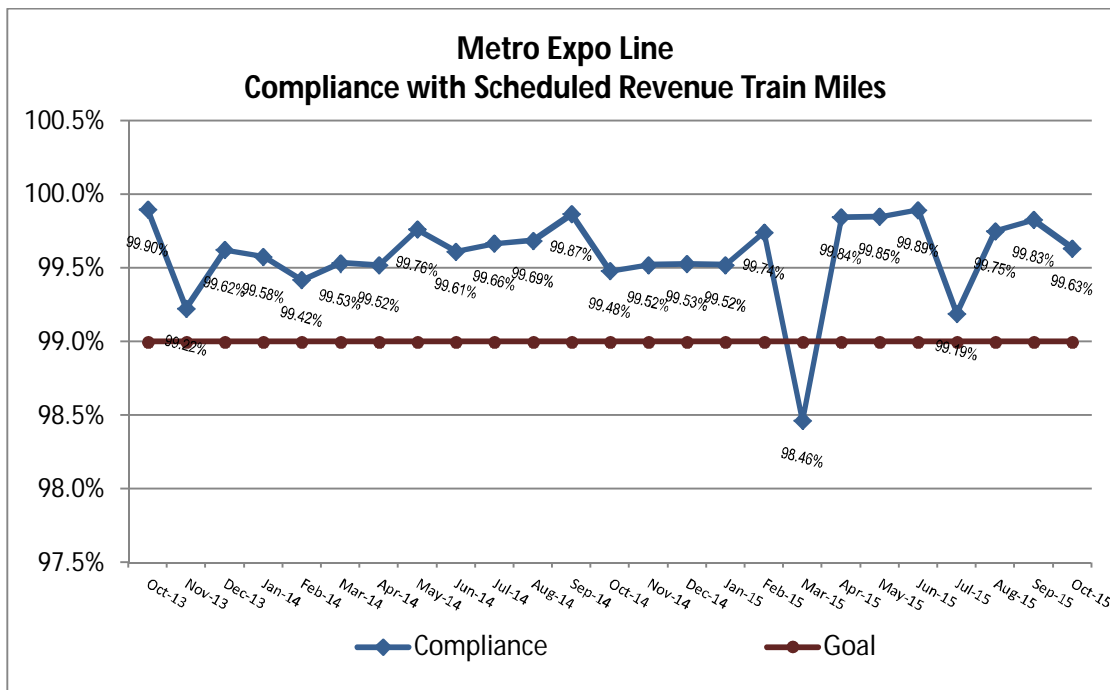
Train 110 reported a Blockade at Jefferson and Flower on Track 4 Southbound. A car was lodged in the bushes next to track 4 and was partially on Track 4. Single tracking from 30th Interlocking to Catalina Interlocking at this time. Train 110 Turnback from Jefferson Station and initiated single tracking operations. Notified all parties to respond to that location for assistance and recovery of mainline operations. Trains 103 and 104 were the only 2 Trains cancelled at 7th & Metro due to excessive trains and diverted Willowbrook Station on the Blue Line. LASD and Track Department cleared the incident at 2046 hrs and normal service was restored with minimal delays. 6 trips canceled with a max delay of 15 mins.

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS FOLLOWS:

COMPLIANCE WITH SCHEDULED VEHICLE HOURS CHART



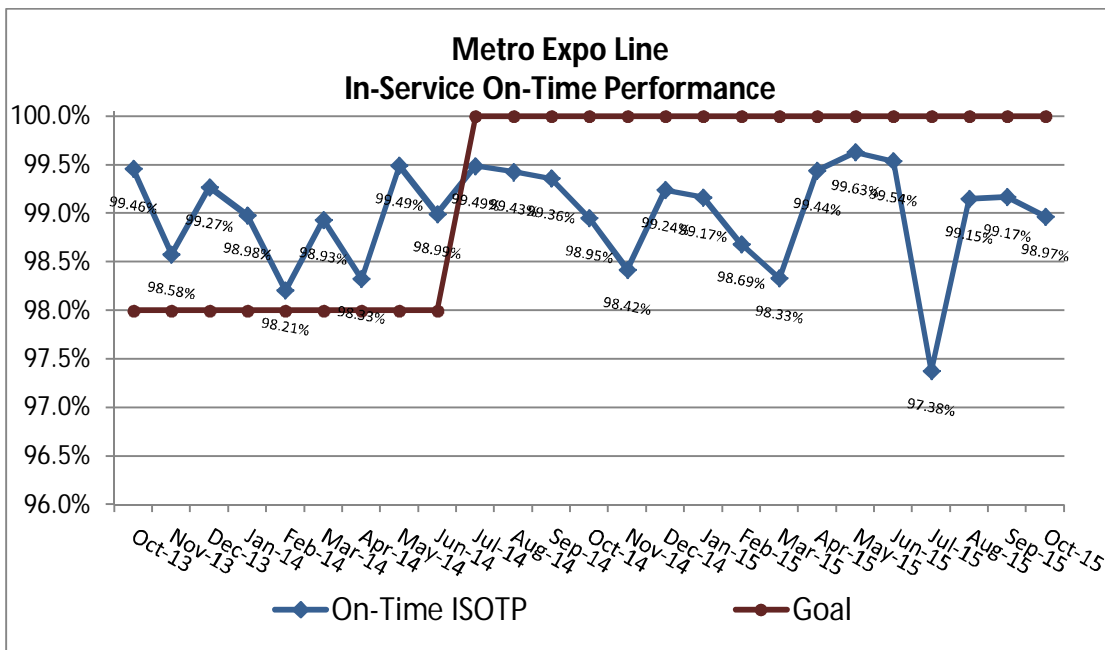
COMPLIANCE WITH SCHEDULED TRAIN MILES CHART

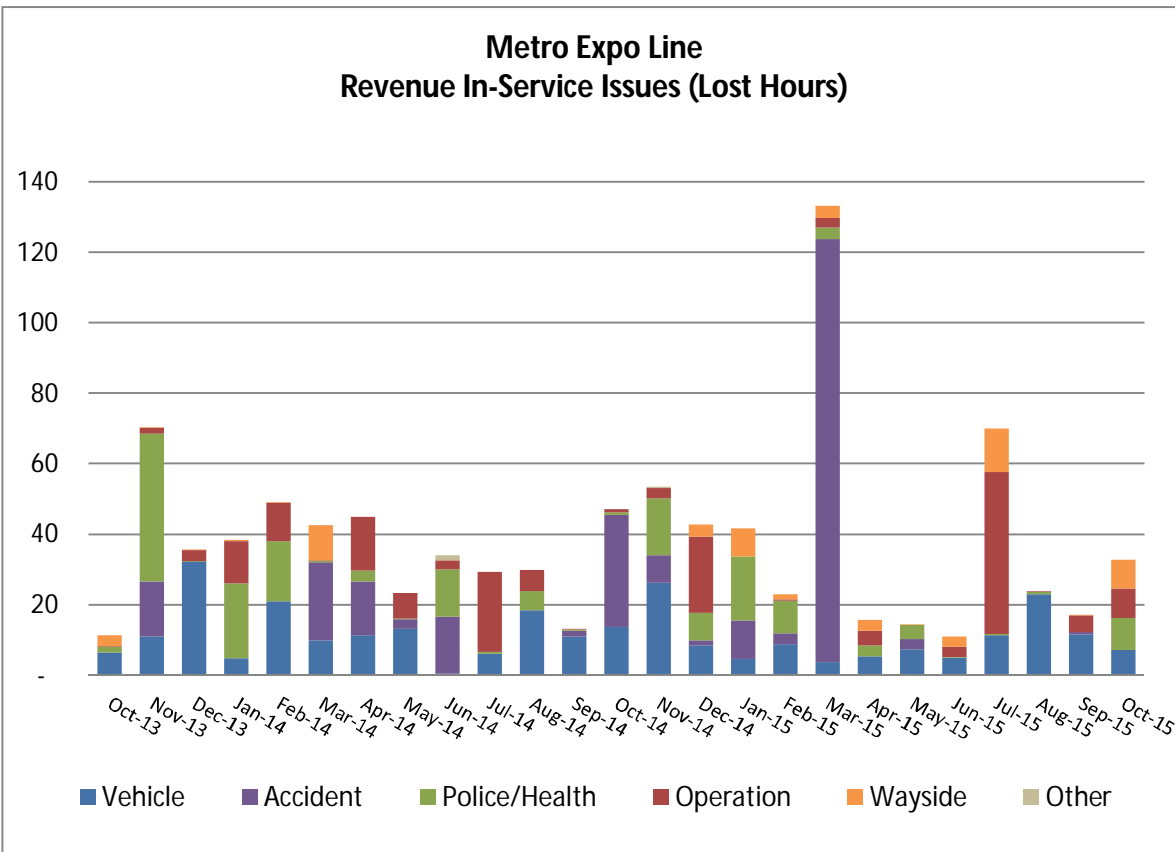
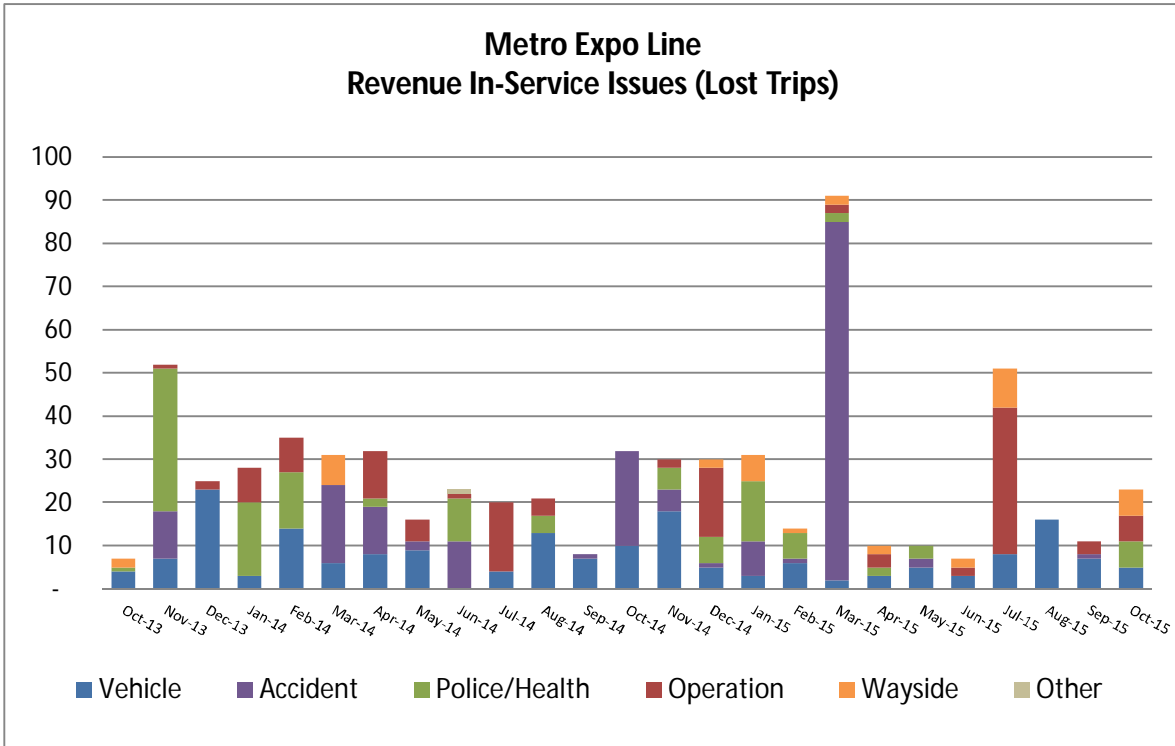


ON-TIME PULL OUTS

Expo Line Pull Outs are included in Blue line Pull Outs.

IN-SERVICE ON-TIME PERFORMANCE CHART

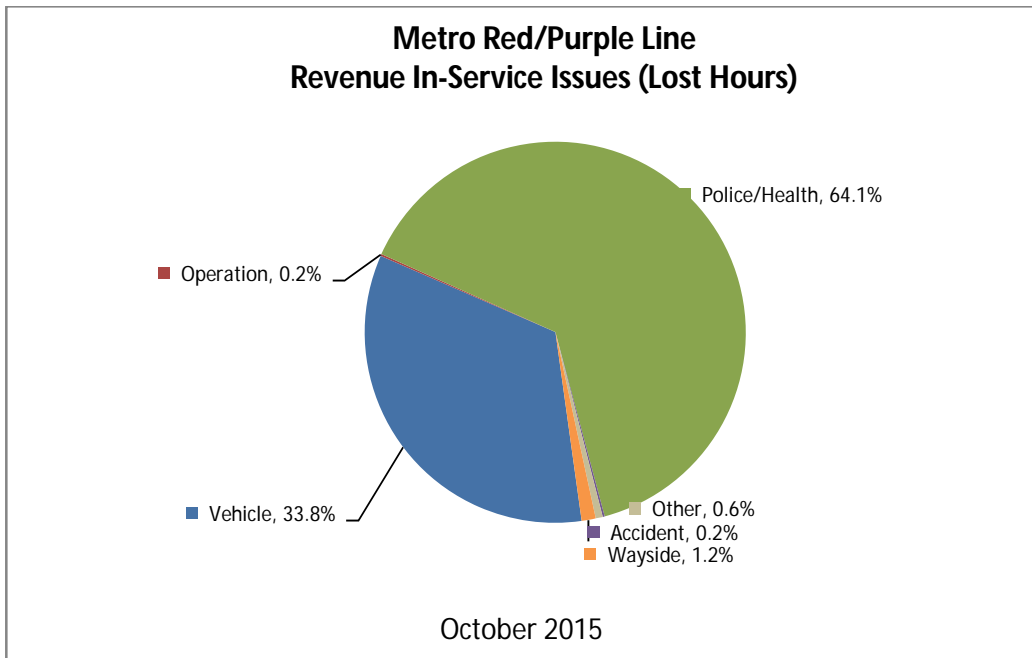




RED / PURPLE LINE

There were approximately 42 total hours of service delays with major contributors as follows:

- Police & Health 27 hours 64%
- Vehicle 14 hours 34%
- Wayside 1 hours 1%
- Other <1 hour <1%
- Operations <1 hour <1%
- Accidents <1 hour <1%



The major contributors were as follows:

Red/Purple Line:

10/05/15 - Police/Health

Train 208 reported trespasser on the right of way west of Wilshire Vermont Station. Traction power was de-energized. Control implemented single tracking operations between Westlake MacArthur and Vermont Santa Monica and Wilshire Western. Trespasser removed from the Right of Way at Wilshire Vermont by LASD at 1841 hrs. 12 trips affected with a max delay of 20 mins.



10/16/15 - Police/Health

A Metro employee reported a stabbing on board train 207 and Car 579 Westbound at Wilshire Vermont/ Beverly. Train held for emergency services. Patron reported the wound was self-inflicted. 20 mins max delay.

10/19/15 - Police/Health

SCADA system indicated an intrusion alarm activated at the AR, west end of the Pershing Square Station. Train 206 reported a patron walking from Civic to Pershing to 7th. The AR track was de-energized for LASD to conduct a sweep from Civic to 7th & Metro. At 1012, the trespasser was in custody. Normal operations resumed. 8 trips canceled with a max delay of 35 mins.

10/27/15 - Police/Health

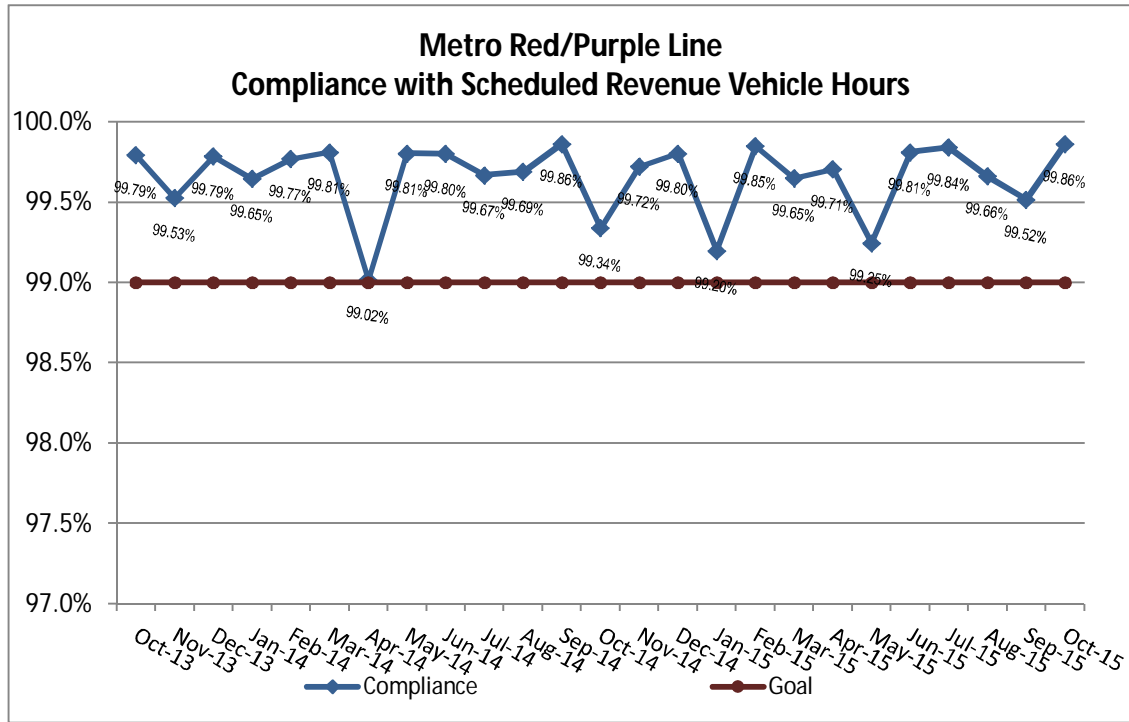
Train 207 reported a physical altercation with a possible weapon on board Eastbound at Vermont/Santa Monica. LASD requested to hold train. Single tracking operations was implemented between Hollywood Vine and Vermont/ Santa Monica. Suspect and victim both had left the scene. Train 207 was released in service eastbound to US at 0811 hrs. 1 trip canceled with a max delay of 26 mins.

10/27/15 - Signal

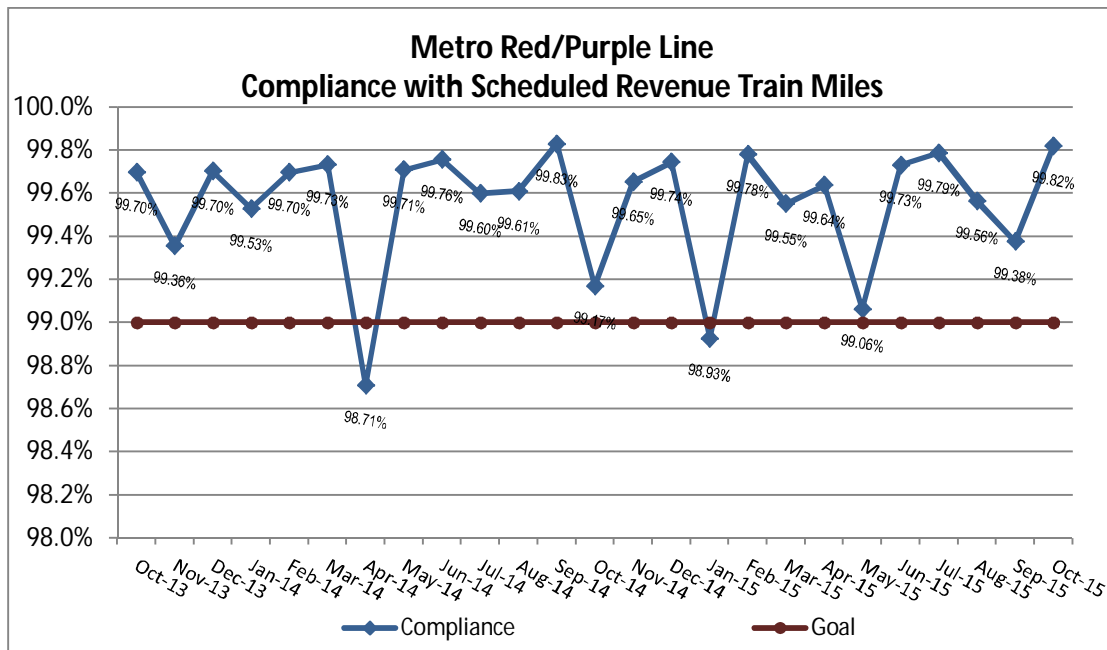
SCADA system indicated a Loss of Traction Power at Westlake with a breaker open and would not close. Train 212 held in the Westlake pocket until Traction Power personnel manually closed D02. 30 minute Eastbound delay.

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS FOLLOWS:

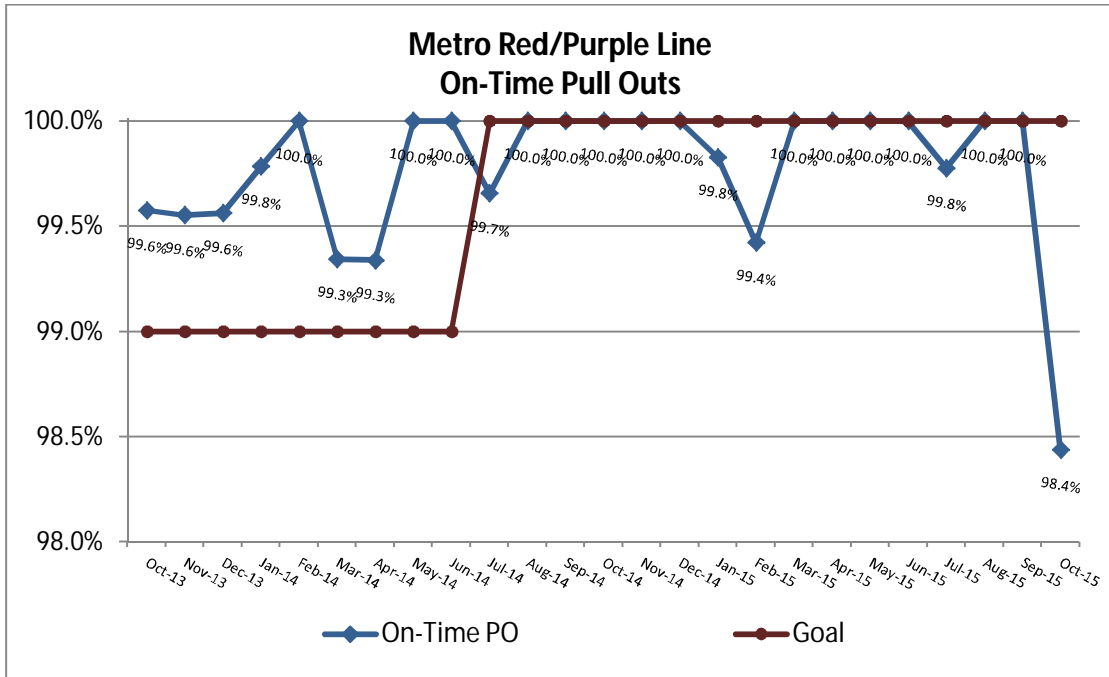
COMPLIANCE WITH SCHEDULED VEHICLE HOURS CHART



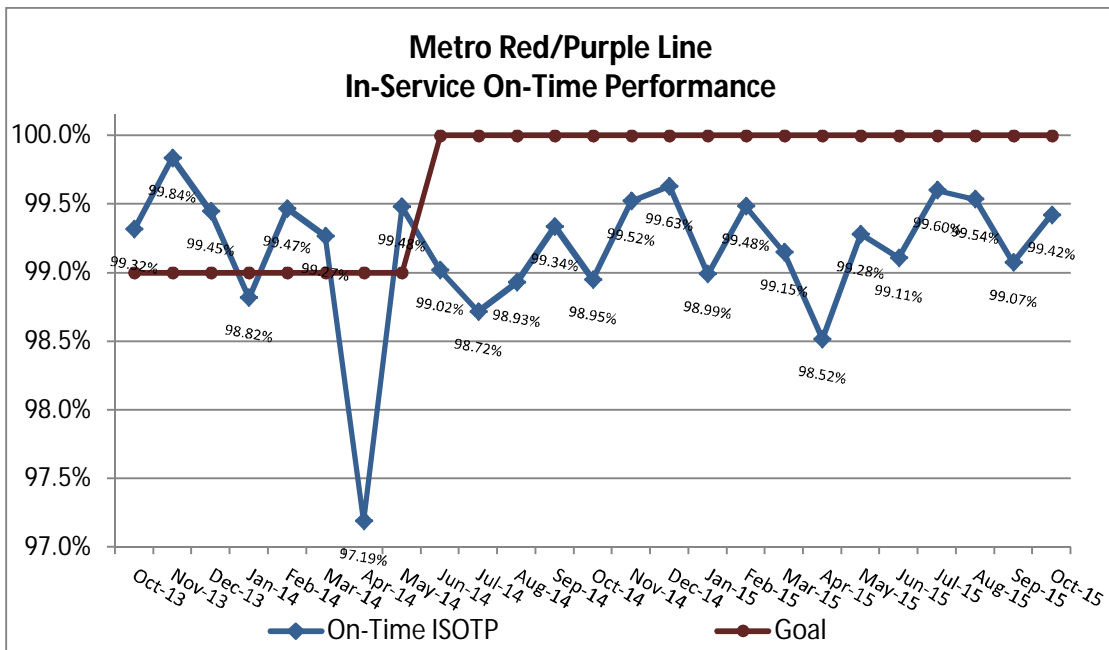
COMPLIANCE WITH SCHEDULED TRAIN MILES CHART

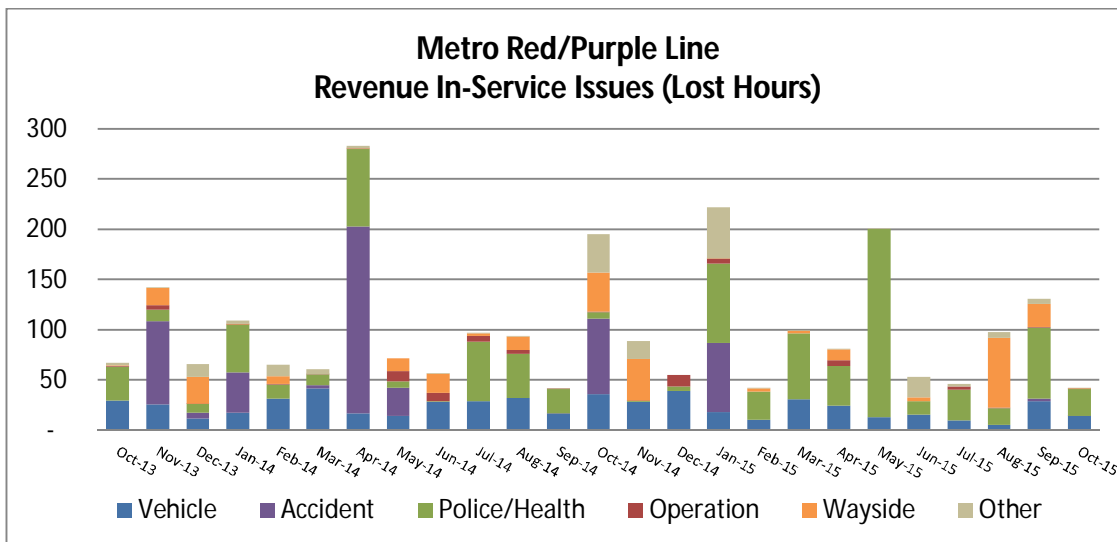
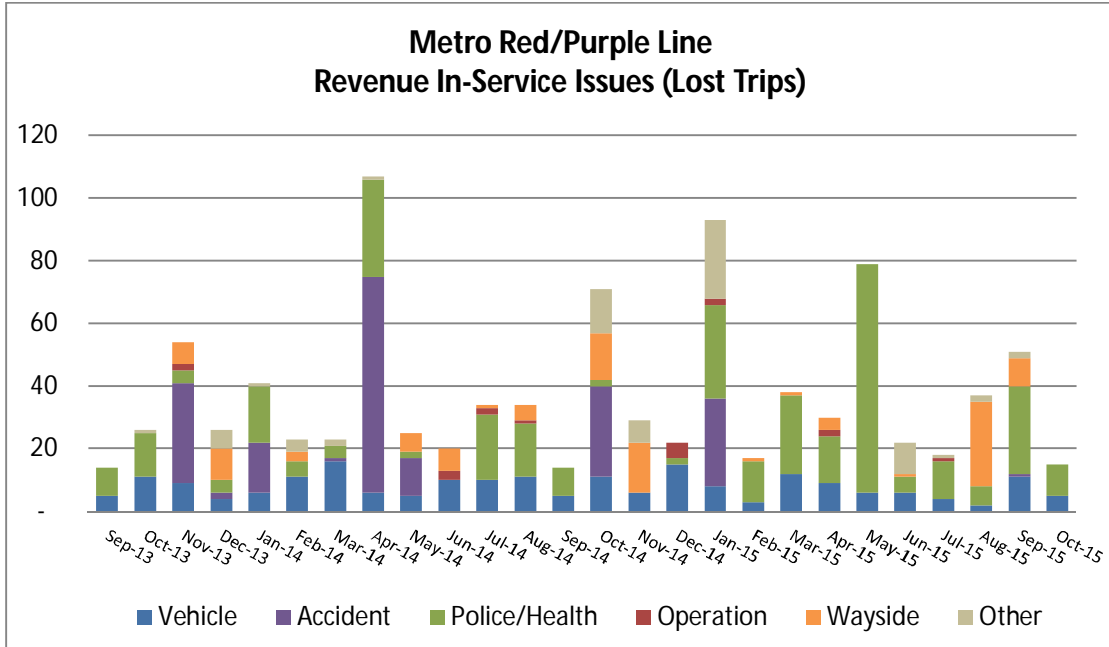


ON-TIME PULL OUTS CHART



IN-SERVICE ON-TIME PERFORMANCE CHART

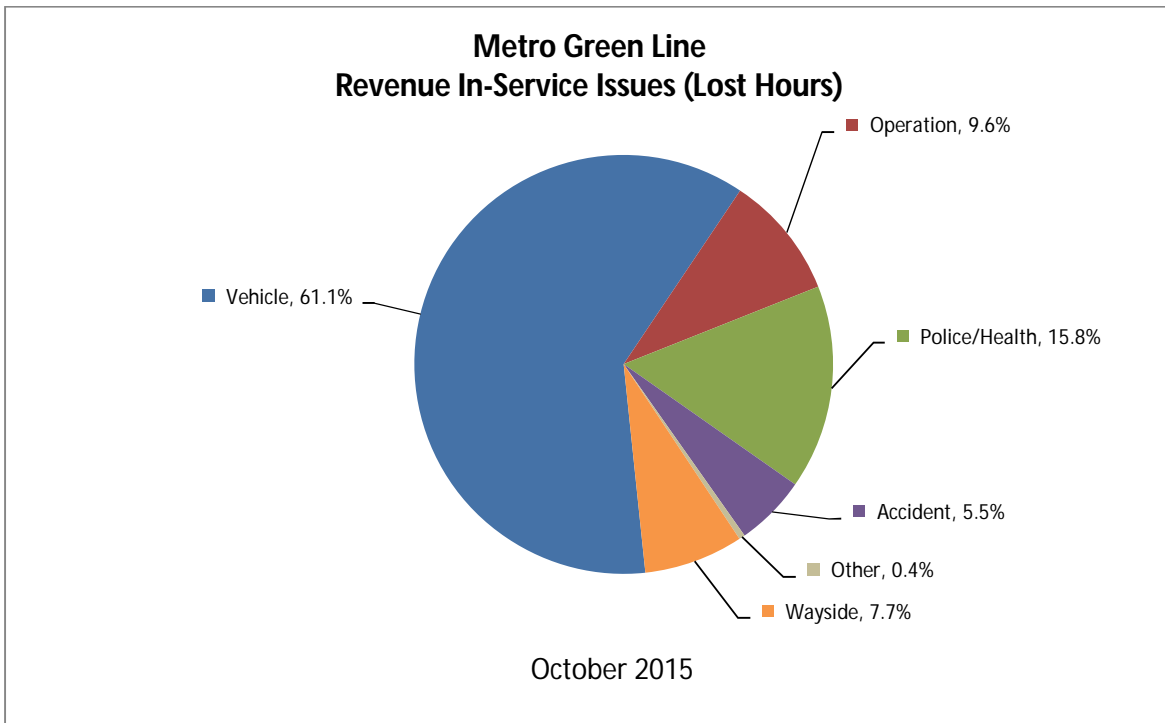




GREEN LINE

There were approximately 18 hours of service delays with major contributors as follows:

• Vehicle	11 hours	61%
• Police & Health	3 hours	16%
• Operations	2 hours	10%
• Wayside	1 hour	8%
• Accidents	1 hour	6%
• Other	<1 hour	<1%



The major contributors were as follows:

Green Line:

10/07/15 - Operations

Train 332 stated he ran over a cone that was on the ROW and was unable to move at Lakewood Station. Single tracking operations implemented until the train is cleared to move to the Yard. A Vehicle Tech stated that Car 243 had experienced a propulsion failures and the cone on the ROW did not cause any further damage to the train or the tracks. Train 332 rescued from Lakewood Station at 0359 hrs. 1 trip canceled with a max delay of 24 mins.



10/22/15 - Vehicle Maint

Train 333 reported a speed restriction on Car 206 westbound departing Norwalk. The operator attempted to trouble-shoot at Lakewood St. but was unsuccessful. Train continued westbound at a speed restriction. 2 trains offloaded and turned back to replace lost service in both directions. 2 trips canceled with a max delay of 15 mins.

10/22/15 - Vehicle Maint

Train 342 reported no movement at Marine Station Eastbound on car 222A. Trains were bumped at Marine Station East Bound due to no equipment from the yard. 20 minute service delay from Marine to Douglas Station East Bound. The incident train was uncoupled and each Rail Car pulled into the yard separately. 20 mins max delay.

10/26/15 - Vehicle Maint

Train 353 reported a door problem and no movement on Car 202 Eastbound at Harbor Station. At 1651 hrs Train 353 was able to place doors back on track and cut-out the affected doors. Train 353 lost headways in both directions and was canceled. 2 trips canceled with a max delay of 17 mins.

10/29/15 - Vehicle Maint

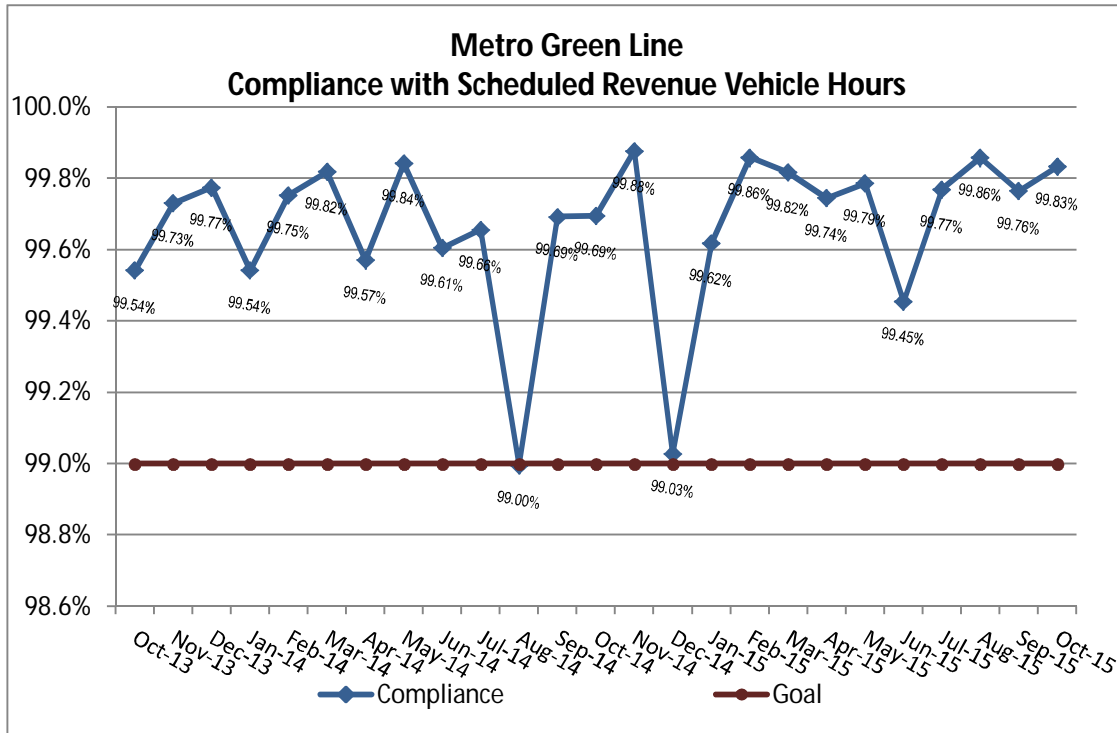
Train 353 reported propulsion fault on Car 206A Westbound at Norwalk Station. A 90 second shut down did not clear faults and train departed Norwalk westbound with a speed restriction. Follower train 331 single tracked around train 353 westbound and was turned back eastbound from at El Segundo Station. Train 331 Eastbound was canceled. 2 trips canceled with a delay of 7 mins.

10/30/15 - Police/Health

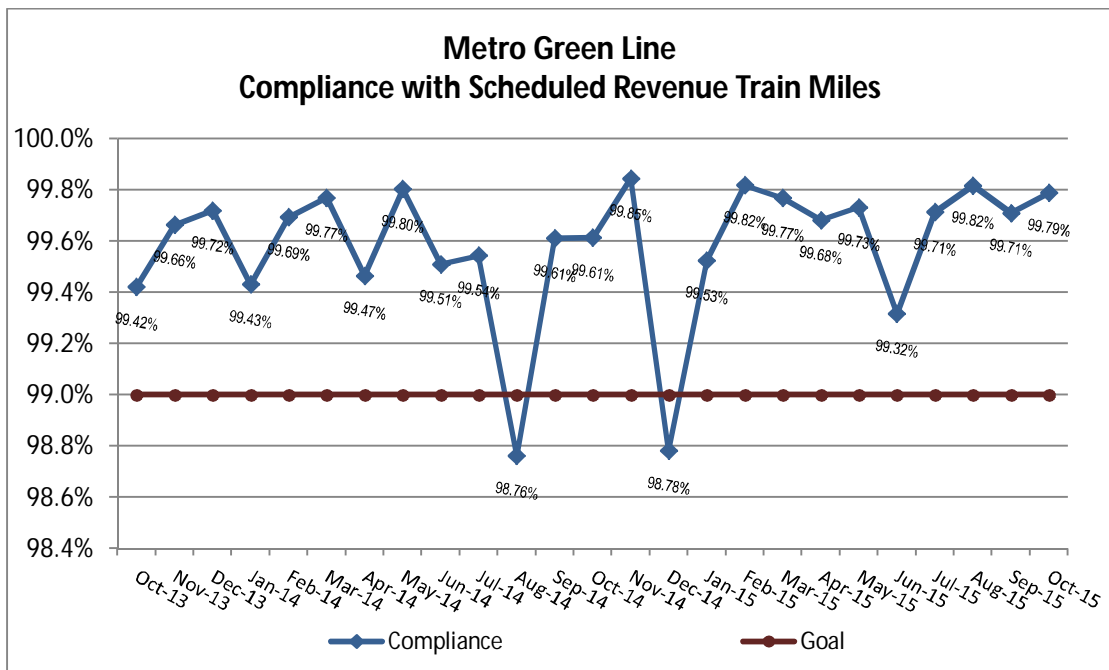
LASD deputies held train 335 eastbound at Harbor Station to remove an unruly patron. Single track operations were implemented by control. Train 331 was the only train singled tracked. Patron was removed and train was released at 0009 hrs. Train 335 was instructed to deadhead to Lakewood station for turn back. 1 trip canceled with a max delay of 20 mins.

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS FOLLOWS:

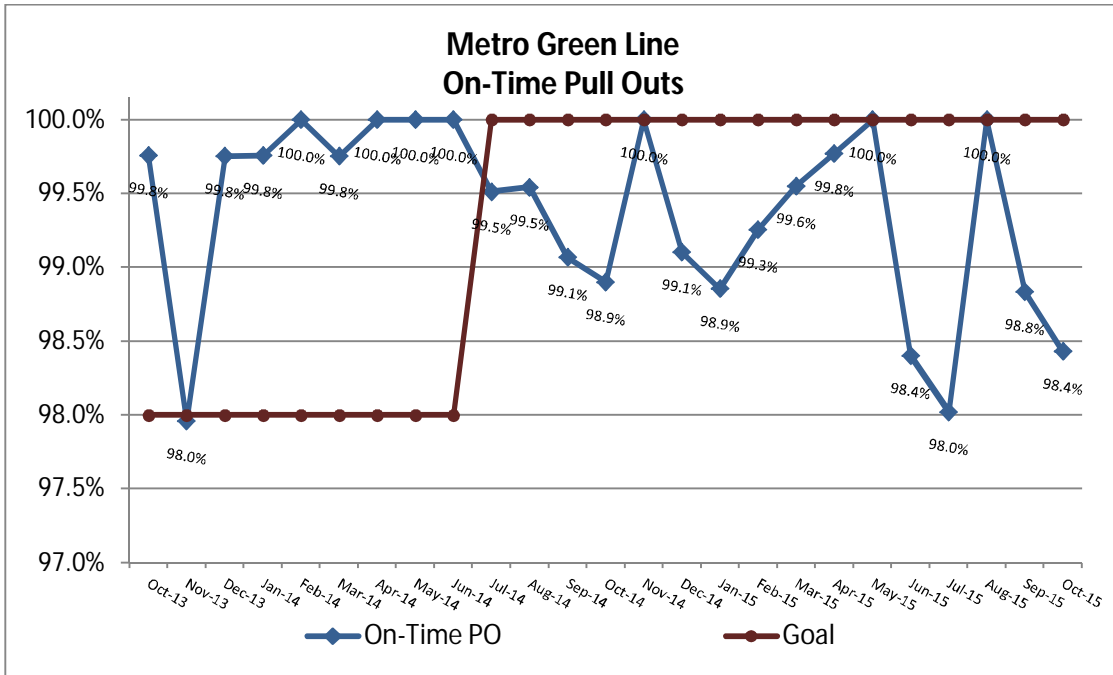
COMPLIANCE WITH SCHEDULED VEHICLE HOURS CHART



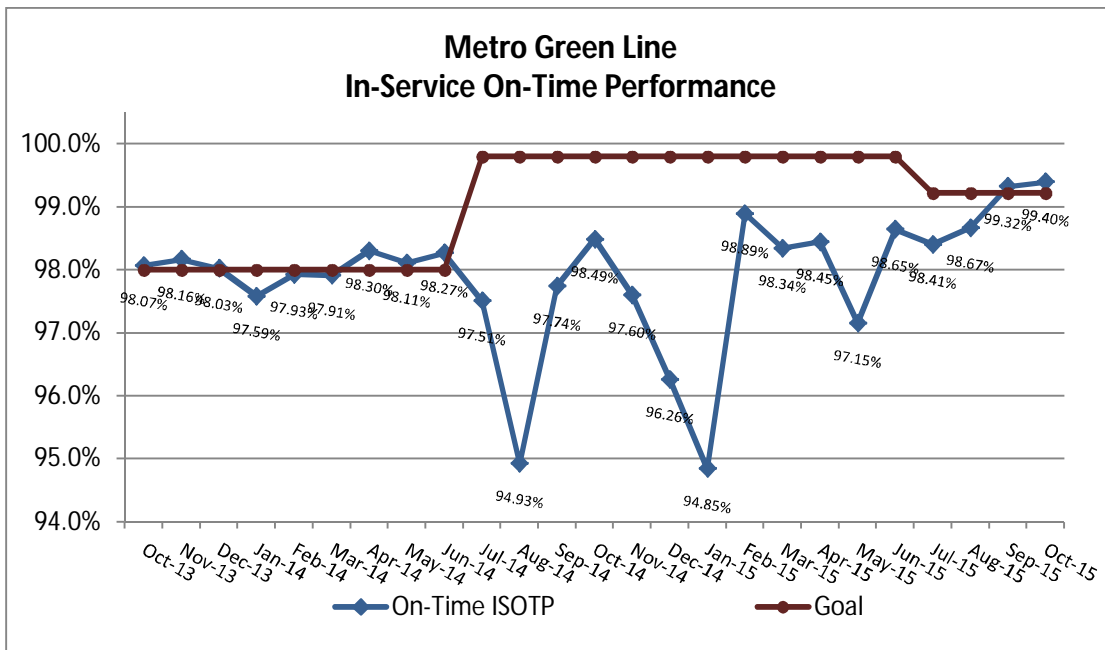
COMPLIANCE WITH SCHEDULED TRAIN MILES CHART

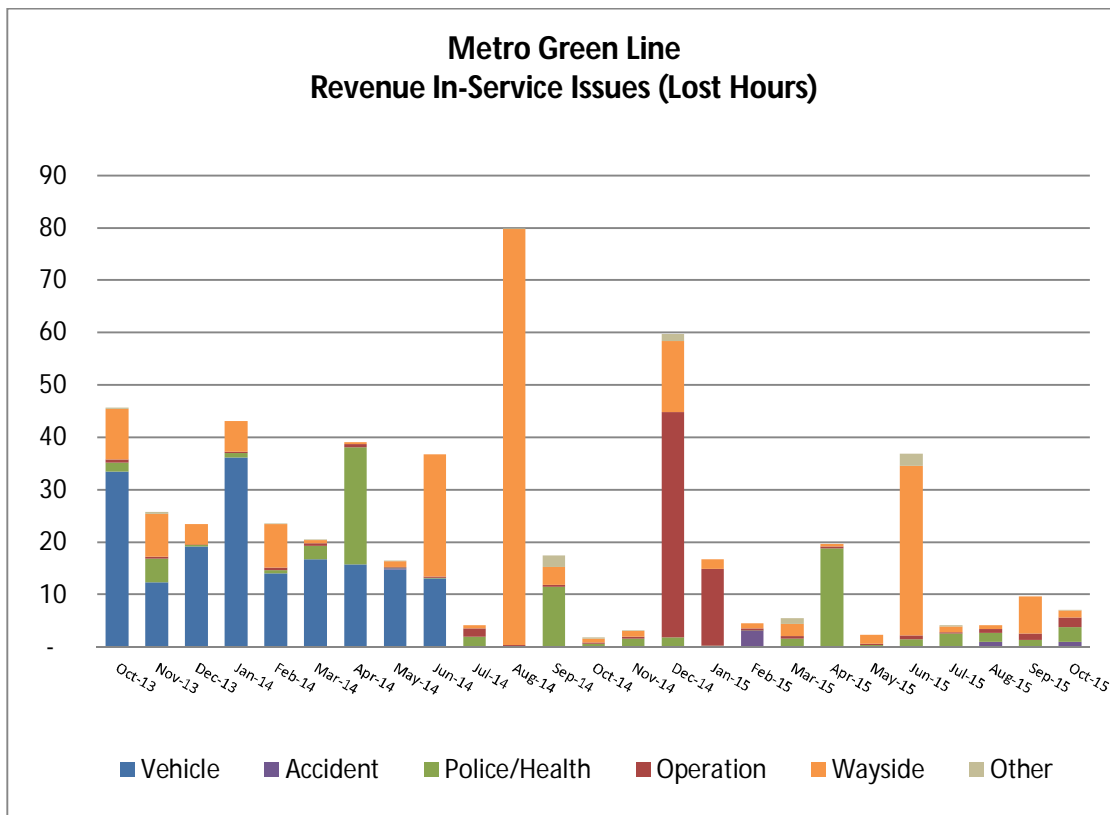
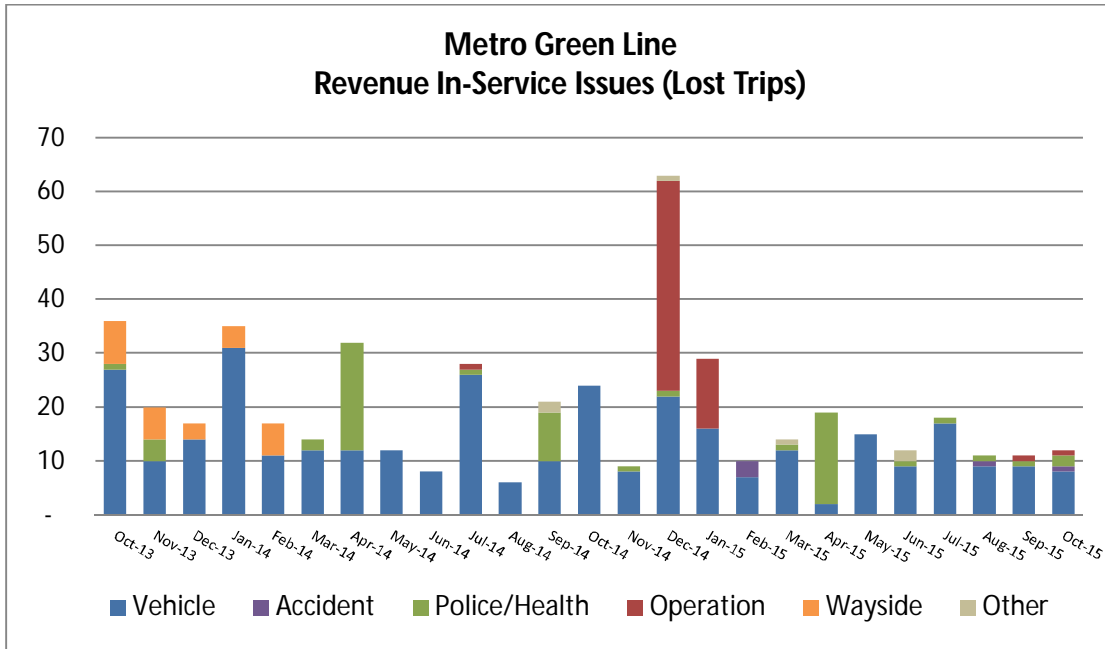


ON-TIME PULL OUTS CHART



IN-SERVICE ON-TIME PERFORMANCE CHART

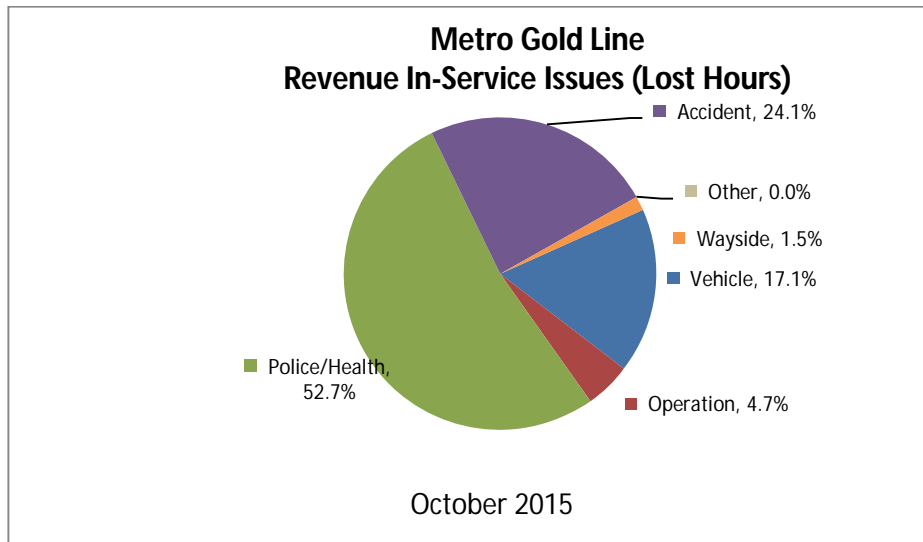




GOLD LINE

There were approximately 158 hours of service delays with major contributors as follows:

• Police & Health	83 hours	53%
• Accidents	38 hours	24%
• Vehicle	27 hours	17%
• Operations	7 hours	5%
• Wayside	2 hours	2%
• Other	0 hours	0%



The major contributors were as follows:

Gold Line:

10/01/15 - Police/Health

Train 405 reported unable to proceed due to a motorcycle accident at the 1st St. Bridge between Little Tokyo Station and Pico Aliso Station blocking tracks 1 and 2. MTA not involved. Turn back operations implemented at Pico Aliso Station and Little Tokyo Station. The incident area was cleared and normal operations resumed at 1628 hrs. 3 trips canceled with a max delay of 20 mins.

10/01/15 - Operations

OCS: Maintenance from Del Mar to Allen on track 1 with single tracking. Due to 15 minute headway established by pink summary 639, delays fluctuated between 5-10 minutes throughout the entire single track operations. 35 trips affected with a max delay of 10 mins.

10/06/15 - Police/Health

Train 405 held at South Pasadena station due to sexual assault on board Southbound. Single tracking operations implemented. 6 trips affected with a max delay of 20 mins.



10/09/15 - Police/Health

LASD reported a blockade at Orange Grove Grade Crossing on Tracks 1 and 2 due to an alleged drunk driver fleeing the scene. Pasadena PD on scene. Turn back operations implemented from Filmore Station Northbound and from Highland Park Station Southbound. At 2359, Track 2 was released for single tracking. Normal operations resumed at 0130 hrs. 16 trips canceled with a max delay of 77 mins.

10/11/15 - Police/Health

Train 415 reported a Trespasser on the right of way north Of Union Station. Train 408 northbound and 409 southbound were unable to proceed due to trespasser on the right of way at the guideway between Union and Chinatown Station. Turn back operations initiated at approximately 1611hrs. At 1733hrs a train was off loaded to transport LASD along and the individual to Union Station. Normal operations resumed at 1735 hrs. 24 trips canceled with a max delay of 95 mins.

10/18/15 - Accident

Train 402 reported a Train vs. Auto at the California grade crossing southbound. Single tracking operations implemented. At 1155 hrs, emergency services removed and blocked both tracks. Turnback operations being implemented. At 1255 hrs, the train was released and sent South. At 1337hrs, the incident train was removed from service. 17 trips canceled with a max delay of 80 mins.

10/18/15 - Vehicle Maint

Train 410 reported a friction brake application on Car 703 Northbound at Memorial Park Station. Single track & Turnback operations implemented on between Del Mar and Allen Interlocking. At approximately 1045 hrs, the Vehicle Tech cut out the C truck on car 716 and consist was given bypass and authorized to proceed north to SMV. Normal operations resumed at 1100 hrs. 7 trips canceled and 14 trips affected with a max delay of 25 mins.

10/24/15 - Police/Health

LASD reported a blockade at Fremont-Grevelia crossing due to disabled vehicle on track 1. Single tracking operations implemented. Turn back operations in effect between Filmore Station and S. Pasadena Station. At 0200 hrs, tracks 1 & 2 blocked at Fremont-Grevelia due to personnel and tow truck on scene. At 0241 hrs, the disabled vehicle was removed. 5 trips were canceled due to Turnbacks and 20 trips were affected with a max delay of 30 mins.

10/26/15 - Vehicle Maint

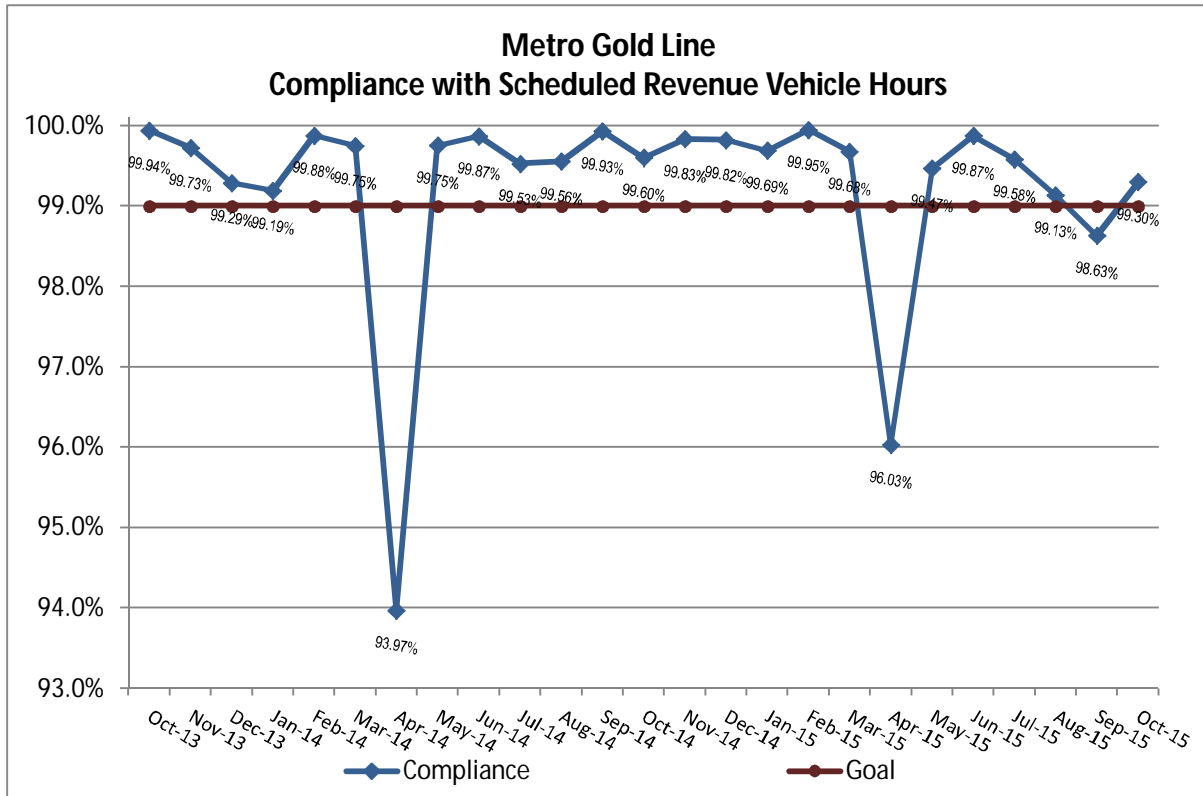
Train 402 reported a High-Speed circuit break tripped on Car 714 Northbound at Heritage Square Station. Train 402 off loaded at Heritage Square and the train was removed to the Yard. 2 trips canceled with a max delay of 6 mins.

10/30/15 - Operations

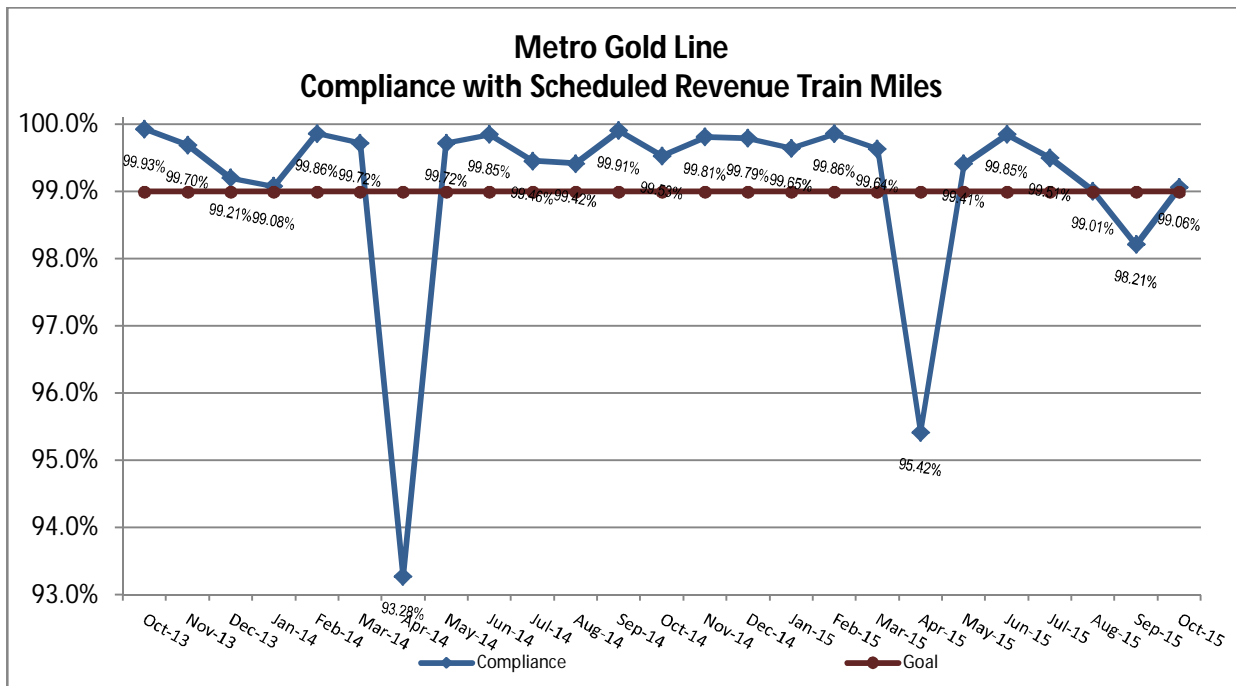
Due to Pink Letter M-696 trains were delayed 10-20 mins. The Pink Letter was cancelled at 1403 hours. 1 trip canceled with a max delay of 20 mins.

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS FOLLOWS:

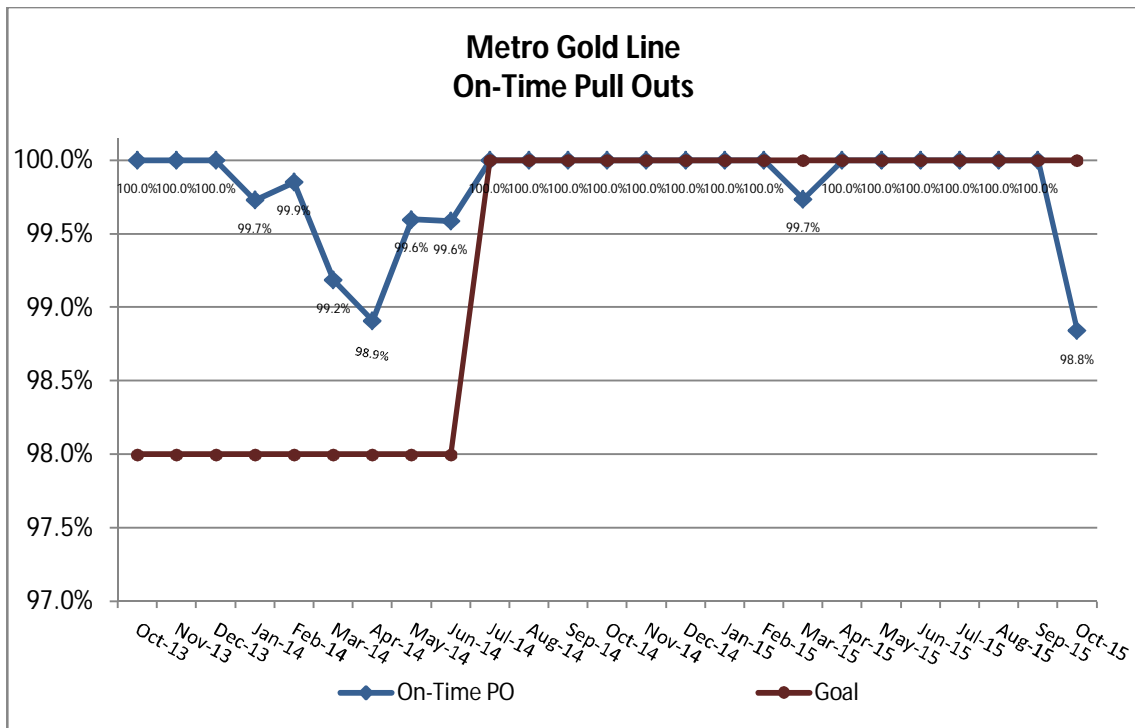
COMPLIANCE WITH SCHEDULED VEHICLE HOURS CHART



COMPLIANCE WITH SCHEDULED TRAIN MILES CHART



ON-TIME PULL OUTS CHART



IN-SERVICE ON-TIME PERFORMANCE CHART

