Los Angeles County
Metropolitan Transportation Authority
California

## OPERATIONS

MONTHLY RAIL PERFORMANCE REPORT


## METRO RAIL PERFORMANCE - SEPTEMBER 2016

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## Metro Rail Scorecard Overview

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

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

Metro Rail is responsible for the operation of approximately 104 heavy rail cars and 203 light rail cars carrying nearly 110 million passengers each year.
Also included in this report are Key Performance Indicators for Wayside, which is in the process of being developed.

| Measurement | FY 2014 | FY 2015 | FY 2016 | FY 2017 <br> Target | $\begin{gathered} \text { FY } 2017 \\ \text { YTD } \end{gathered}$ | FYTD <br> Status | Jul Month | Aug Month | Sep Month |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Systemwide |  |  |  |  |  |  |  |  |  |
| On-Time Pullouts | 99.55\% | 99.67\% | 99.63\% | 99.50\% | 99.55\% | $\bigcirc$ | 99.77\% | 99.43\% | 99.47\% |
| Mean Miles Between Chargeable Mechanical Failures | 28,829 | 34,524 | 30,482 | 27,911 | 26,414 | $\bigcirc$ | 21,532 | 30,440 | 28,862 |
| In-Service On-time Performance | 97.92\% | 98.39\% | 98.10\% | 98.00\% | 98.60\% | $\bigcirc$ | 98.24\% | 99.04\% | 98.52\% |
| Service Delivery Ratio | 99.12\% | 99.35\% | 99.22\% | 99.25\% | 99.39\% | $\bigcirc$ | 99.05\% | 99.53\% | 99.57\% |
| Traffic Accidents Per 100,000 Train Miles | 1.44 | 1.17 | 1.18 | 0.00 | 1.10 | $\bigcirc$ | 1.14 | 1.43 | 0.71 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.10 | 0.43 | 0.60 | 0.67 | 0.38 | $\bigcirc$ | 0.29 | 0.57 | 0.29 |
| Passenger Accidents per 100,000 Boardings | 0.025 | 0.013 | 0.016 | 0.009 | 0.017 | $\bigcirc$ | 0.032 | 0.020 | 0.000 |
| Complaints per 100,000 Boardings | 0.91 | 0.78 | 1.43 | 1.12 | 2.08 | $\bigcirc$ | 2.19 | 2.09 | 1.95 |
| New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours ${ }^{1,2}$ | 17.50 | 11.75 | 13.33 | N/A | 12.67 | N/A | 17.00 | 11.00 | 10.00 |
| Lost Work Days per 200,000 Exposure Hours ${ }^{1,2}$ | 881 | 861 | 522 | N/A | 766 | N/A | 620 | 911 |  |
| OSHA Injuries per 200,000 Exposure Hours ${ }^{1,2}$ | 10.08 | 7.42 | 8.08 | N/A | 9.00 | N/A | 12.00 | 6.00 |  |
|  |  |  |  |  |  |  |  |  |  |
| Wayside |  |  |  |  |  |  |  |  |  |
| Under Development |  |  |  |  |  |  |  |  |  |
| Under Development |  |  |  |  |  |  |  |  |  |
| Under Development |  |  |  |  |  |  |  |  |  |
| New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours | 9.28 | 9.07 | 4.77 | N/A | 5.77 | N/A | 0.00 | 3.66 | 8.11 |
| Lost Work Days per 200,000 Exposure Hours ${ }^{1}$ | 179 | 309 | 148 | N/A | 29 | N/A | 50 | 10 |  |
| OSHA Injuries per 200,000 Exposure Hours ${ }^{1}$ | 6.31 | 8.28 | 4.40 | N/A | 3.91 | N/A | 4.19 | 3.66 |  |
|  |  |  |  |  |  |  |  |  |  |
| Blue Line |  |  |  |  |  |  |  |  |  |
| On-Time Pullouts | 99.37\% | 99.41\% | 99.59\% | 99.50\% | 99.36\% | $\bigcirc$ | 99.39\% | 99.44\% | 99.25\% |
| Mean Miles Between Chargeable Mechanical Failures | 18,731 | 23,716 | 19,240 | 19,572 | 15,235 | $\bigcirc$ | 15,510 | 14,730 | 15,526 |
| In-Service On-time Performance | 95.84\% | 97.28\% | 96.10\% | 97.00\% | 97.27\% | $\bigcirc$ | 96.71\% | 97.51\% | 97.59\% |
| Service Delivery Ratio | 98.36\% | 98.88\% | 98.41\% | 98.46\% | 98.96\% | $\bigcirc$ | 98.42\% | 99.22\% | 99.22\% |
| Traffic Accidents Per 100,000 Train Miles | 2.97 | 2.48 | 2.38 | 0.00 | 2.17 | $\bigcirc$ | 1.94 | 3.19 | 1.34 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.00 | 0.89 | 1.39 | 1.34 | 0.87 | $\bigcirc$ | 0.65 | 1.28 | 0.67 |
| Passenger Accidents per 100,000 Boardings | 0.058 | 0.034 | 0.016 | 0.006 | 0.031 | $\bigcirc$ | 0.093 | 0.000 | 0.000 |
| Complaints per 100,000 Boardings | 1.10 | 0.90 | 1.33 | 1.09 | 1.59 | $\bigcirc$ | 1.16 | 1.76 | 1.84 |
| New Workers' Compensation Indemnity Claims per | 17.46 | 15.10 | 15.08 | 15.58 | 16.74 | $\bigcirc$ | 27.08 | 17.94 | 5.38 |
| Lost Work Days per 200,000 Exposure Hours ${ }^{1}$ | 990 | 1,622 | 797 | 786 | 957 | $\bigcirc$ | 753 | 1,182 |  |
| OSHA Injuries per 200,000 Exposure Hours ${ }^{1}$ | 5.71 | 10.64 | 6.79 | 9.58 | 11.37 | $\bigcirc$ | 10.83 | 11.96 |  |

[^0]| Measurement | FY 2014 | FY 2015 | FY 2016 | FY 2017 <br> Target | $\begin{gathered} \text { FY } 2017 \\ \text { YTD } \end{gathered}$ | FYTD Status | Jul Month | Aug Month | Sep Month |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Red Line |  |  |  |  |  |  |  |  |  |
| On-Time Pullouts | 99.72\% | 99.91\% | 99.79\% | 99.50\% | 100.00\% | $\bigcirc$ | 100.00\% | 100.00\% | 100.00\% |
| Mean Miles Between Chargeable Mechanical Failures | 63,099 | 85,090 | 94,312 | 112,652 | 82,458 | $\bigcirc$ | 78,500 | 87,317 | 81,557 |
| In-Service On-time Performance | 98.91\% | 99.13\% | 99.45\% | 99.50\% | 99.49\% | $\bigcirc$ | 99.13\% | 99.63\% | 99.72\% |
| Service Delivery Ratio | 99.57\% | 99.60\% | 99.71\% | 99.71\% | 99.76\% | $\bigcirc$ | 99.57\% | 99.79\% | 99.89\% |
| Traffic Accidents Per 100,000 Train Miles | 1.01 | 0.47 | 0.75 | 0.00 | 0.57 | $\bigcirc$ | 0.86 | 0.00 | 0.87 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.00 | 0.07 | 0.07 | 0.60 | 0.00 | $\bigcirc$ | 0.00 | 0.00 | 0.00 |
| Passenger Accidents per 100,000 Boardings | 0.006 | 0.002 | 0.002 | 0.003 | 0.000 | - | 0.000 | 0.000 | 0.000 |
| Complaints per 100,000 Boardings | 0.60 | 0.54 | 0.57 | 0.56 | 0.84 | $\bigcirc$ | 0.96 | 0.72 | 0.86 |
| New Workers' Compensation Indemnity Claims per | 20.22 | 6.20 | 16.43 | 13.29 | 10.00 | $\bigcirc$ | 6.03 | 13.01 | 11.06 |
| *Lost Work Days per 200,000 Exposure Hours | 927 | 649 | 526 | 556 | 879 | $\bigcirc$ | 805 | 958 |  |
| *OSHA Injuries per 200,000 Exposure Hours | 11.79 | 3.54 | 7.99 | 6.55 | 3.13 | $\bigcirc$ | 0.00 | 6.51 |  |


| Green Line | 99.69\% | 99.32\% | 99.49\% | 99.50\% | 99.85\% | - | 100.00\% | 99.56\% | 100.00\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| On-Time Pullouts |  |  |  |  |  |  |  |  |  |
| Mean Miles Between Chargeable Mechanical Failures | 19,513 | 21,054 | 19,238 | 19,911 | 18,802 | $\bigcirc$ | 17,064 | 21,187 | 18,497 |
| In-Service On-time Performance | 97.85\% | 97.39\% | 98.52\% | 98.20\% | 98.34\% | $\bigcirc$ | 98.17\% | 98.91\% | 97.92\% |
| Service Delivery Ratio | 99.57\% | 99.50\% | 99.59\% | 99.62\% | 99.55\% | $\bigcirc$ | 99.39\% | 99.73\% | 99.52\% |
| Traffic Accidents Per 100,000 Train Miles | 0.49 | 0.21 | 0.42 | 0.00 | 0.83 | $\bigcirc$ | 0.84 | 1.61 | 0.00 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.00 | 0.07 | 0.07 | 0.18 | 0.00 | $\bigcirc$ | 0.00 | 0.00 | 0.00 |
| Passenger Accidents per 100,000 Boardings | 0.023 | 0.024 | 0.034 | 0.011 | 0.108 | $\bigcirc$ | 0.110 | 0.204 | 0.000 |
| Complaints per 100,000 Boardings | 1.15 | 0.88 | 1.53 | 1.30 | 2.20 | $\bigcirc$ | 2.96 | 1.63 | 2.04 |
| New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours | 16.51 | 7.32 | 7.18 | 9.27 | 10.61 | $\bigcirc$ | 20.24 | 11.80 | 0.00 |
| *Lost Work Days per 200,000 Exposure Hours | 1,299 | 479 | 228 | 195 | 1,057 | $\bigcirc$ | 598 | 1,591 |  |
| *OSHA Injuries per 200,000 Exposure Hours | 11.30 | 4.07 | 3.19 | 2.34 | 10.90 | $\bigcirc$ | 20.24 | 0.00 |  |


| Gold Line |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| On-Time Pullouts | 99.56\% | 99.98\% | 99.68\% | 99.50\% | 99.92\% | $\bigcirc$ | 99.87\% | 99.88\% | 100.00\% |
| Mean Miles Between Chargeable Mechanical Failures | 45,894 | 44,171 | 40,426 | 51,665 | 28,275 | $\bigcirc$ | 18,010 | 38,914 | 40,000 |
| In-Service On-time Performance | 98.03\% | 98.56\% | 97.60\% | 97.50\% | 97.89\% | - | 98.31\% | 98.94\% | 96.34\% |
| Service Delivery Ratio | 99.03\% | 99.34\% | 99.11\% | 99.16\% | 99.23\% | - | 98.80\% | 99.35\% | 99.55\% |
| Traffic Accidents Per 100,000 Train Miles | 1.03 | 1.14 | 0.99 | 0.00 | 0.42 | $\bigcirc$ | 0.85 | 0.42 | 0.00 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.00 | 0.30 | 0.60 | 0.50 | 0.14 | $\bigcirc$ | 0.00 | 0.42 | 0.00 |
| Passenger Accidents per 100,000 Boardings | 0.052 | 0.007 | 0.039 | 0.035 | 0.000 | O | 0.000 | 0.000 | 0.000 |
| Complaints per 100,000 Boardings | 1.04 | 1.01 | 2.73 | 2.26 | 3.08 | $\bigcirc$ | 3.27 | 3.26 | 2.72 |
| New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours | 14.98 | 15.96 | 11.87 | 12.20 | 16.56 | $\bigcirc$ | 21.42 | 17.47 | 10.81 |
| *Lost Work Days per 200,000 Exposure Hours | 1,460 | 1,068 | 766 | 808 | 1,246 | $\bigcirc$ | 902 | 1,620 |  |
| *OSHA Injuries per 200,000 Exposure Hours | 9.12 | 3.83 | 9.29 | 10.07 | 13.95 | $\bigcirc$ | 16.06 | 11.64 |  |


| Expo Line |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| On-Time Pullouts | - | - | 99.53\% | 99.50\% | 97.71\% | O | 99.64\% | 96.77\% | 96.67\% |
| Mean Miles Between Chargeable Mechanical Failures | - | - | 18,114 | 19,572 | 22,979 | $\bigcirc$ | 15,525 | 35,667 | 25,499 |
| In-Service On-time Performance | 98.70\% | 99.14\% | 98.61\% | 97.05\% | 99.11\% | $\bigcirc$ | 98.32\% | 99.56\% | 99.41\% |
| Service Delivery Ratio | 99.45\% | 99.64\% | 99.56\% | 99.65\% | 99.40\% | $\bigcirc$ | 99.09\% | 99.61\% | 99.50\% |
| Traffic Accidents Per 100,000 Train Miles | 1.17 | 1.02 | 0.74 | 0.00 | 1.73 | $\bigcirc$ | 1.05 | 1.96 | 2.16 |
| CPUC Reportable Accidents per 100,000 Train Miles | 1.17 | 1.02 | 0.50 | 0.37 | 1.04 | $\bigcirc$ | 1.05 | 0.98 | 1.08 |
| Passenger Accidents per 100,000 Boardings | 0.000 | 0.000 | 0.019 | 0.000 | 0.000 | - | 0.000 | 0.000 | 0.000 |
| Complaints per 100,000 Boardings | 1.53 | 1.13 | 3.38 | 1.87 | 5.64 | $\bigcirc$ | 6.04 | 6.02 | 4.79 |
| New Workers' Compensation Indemnity Claims per | - | 24.97 | 8.44 | 0.00 | 11.60 | $\bigcirc$ | 16.14 | 0.00 | 17.51 |
| *Lost Work Days per 200,000 Exposure Hours | - | 937 | 73 | 0 | 209 | $\bigcirc$ | 150 | 279 |  |
| *OSHA Injuries per 200,000 Exposure Hours | - | - | 5.63 | 0.00 | 8.67 | O | 16.14 | - |  |

* There is One Month lag in reporting this data

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

## METRO RAIL PERFORMANCE - SEPTEMBER 2016

## Rail Performance by Vehicle Type



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

| Metro |  | Percentage Change in Rail MMBMF by Vehicle Type Heavy Rail - Breda |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| - Ansaldobreda 2550 Base - Ac |  | -4.4\% | -17.1\% | -17.3\% | 73.8\% | -51.5\% | 62.5\% | 47.5\% | -37.7\% | 71.7\% | -53.7\% | -27.0\% | 142.2\% | -15.8\% |
| $-\quad$ Breda 650 Base -DC <br> Breda 650 Option -AC |  | -72.3\% | -4.4\% | 204.3\% | 1.4\% | 12.9\% | -77.0\% | 111.9\% | -32.7\% | -20.3\% | 259.3\% | 14.8\% | 10.7\% | -66.5\% |
|  |  | -66.9\% | -55.9\% | 29.2\% | 437.8\% | -2.1\% | -81.8\% | 7.4\% | 21.8\% | -61.3\% | 163.9\% | -36.2\% | 4.9\% | 39.9\% |

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


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



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


Rail Mean Vehicle Miles Between Major Failure by Vehicle Type
Metro
Light Rail - Siemens


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



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

## Rail Fleet Distribution - SEPTEMBER 2016

| Number of Rail Vehicle Type by <br> Division | Blue | Red / <br> Purple | Green | Gold | Expo |
| ---: | :---: | :---: | :---: | :---: | :---: |
| AnsaldoBreda 2550 Base - AC |  |  |  | 50 |  |
| Breda 650 Base - DC |  | 30 |  |  |  |
| Breda 650 Option - AC |  | 74 |  |  |  |
| Kinki Sharyo P3010 |  |  |  | 10 | 22 |
| 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 | $\mathbf{6 9}$ | $\mathbf{1 0 4}$ | $\mathbf{2 9}$ | $\mathbf{6 0}$ | $\mathbf{4 5}$ |

## Vehicle Availability Systemwide

| Blue |  |  |  |
| :---: | :---: | :---: | :---: |
| Day Type | Vehicles <br> Required | Average Available | Average \% Available |
| Weekday | 60 | 56 | 93\% |
| Weekend | 26 | 41 | 159\% |
| Red/ Purple |  |  |  |
| Day Type | Vehicles <br> Required | Average Available | Average \% Available |
| Weekday | 74 | 79 | 107\% |
| Weekend | 55 | 68 | 124\% |
| Green |  |  |  |
| Day Type | Vehicles <br> Required | Average Available | Average \% Available |
| Weekday | 22 | 22 | 99\% |
| Weekend | 14 | 17 | 118\% |
| Gold |  |  |  |
| Day Type | Vehicles <br> Required | Average Available | Average \% Available |
| Weekday | 44 | 47 | 106\% |
| Weekend | 28 | 36 | 129\% |
| Expo |  |  |  |
| Day Type | Vehicles <br> Required | Average Available | Average \% Available |
| Weekday | 27 | 30 | 110\% |
| Weekend | 27 | 30 | 112\% |



## Cleanliness by Vehicle Type

0
Metro
Rail Cleanliness by General Vehicle Type


Note: Data Collection Began September 2016

## RAIL DELAYS BY CATEGORY - SYSTEMWIDE

Revenue Hours Lost Related to - ACCIDENTS


Revenue Hours Lost Related to - OPERATIONS


Revenue Hours Lost Related to - OTHER
Blue, Red/Purple, Green, Gold \& Expo Line Other Delays


Revenue Hours Lost Related to - POLICE \& HEALTH
Blue, Red/Purple, Green, Gold \& Expo Line Police \& Health Delays


Revenue Hours Lost Related to - Vehicle Delays


Revenue Hours Lost Related to - WAYSIDE
Blue, Red/Purple, Green, Gold \& Expo Line Wayside Delays


## Rail Service Performance

## In Service On Time Performance by Line



Ratio of Scheduled to Revenue Hours Delivered by Line
Blue, Red/Purple, Green, Gold \& Expo Line SRHD


Mean Miles Between Mechanical Failures by Line


Workers Comp Claims by Line


## On-Time Pullouts Ratio by Line



## Rail Safety Performance

## CPUC REPORTABLE ACCIDENTS PER 100,000 TRAIN MILES

Blue, Red/Purple, Green, Gold \& Expo Line CPUC Accident Ratio


## TRAFFIC ACCIDENTS PER 100,000 TRAIN MILES

Blue, Red/Purple, Green, Gold \& Expo Line Traffic Accident Ratio


## PASSENGER ACCIDENTS PER 100,000 BOARDINGS



Worker's Comp. Claims
Jul 2016 - Sep 2016
3 Month Comparison


## Lost Work Days and OSHA Injuries

Jun 2016 - Aug 2016
3 Month Comparison



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

Systemwide Vertical Transportation Availability by Line


[^1]
## BLUE LINE

Out of a total of 18,994 hours operated, there were approximately 149 total hours of service delays.

| September 2016 Service Hours * | Revenue |  |
| :--- | ---: | ---: |
| Revenue Hours without Delays | 18,845 | Per Cent |
| Hours Delayed | 149 | $0.2 \%$ |
| Total Revenue Hours | $\mathbf{1 8 , 9 9 4}$ | $\mathbf{1 0 0 . 0 \%}$ |


| Summary of the major contributors: | Count | Hours | Per Cent |
| :---: | :---: | :---: | :---: |
| Operations | 6 | 8.2 | 5.5\% |
| Accidents | 2 | 6.1 | 4.1\% |
| Vehicle Maintenance | 33 | 60.1 | 40.4\% |
| Wayside | 3 | 8.3 | 5.6\% |
| Police \& Health | 9 | 60.3 | 40.6\% |
| Other | 3 | 5.7 | 3.8\% |
| Total | 56 | 148.7 | 100.0\% |

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



## September 2016 Blue Line major delay contributors were as follows:

## Operations Incidents:

9/10/2016 4:53:00 AM - Incident\# 2775074 (0 lost trips, 12 lost minutes)
Roll-Out late due to B/O car.

9/15/2016 9:25:00 AM - Incident\# 2777100 (1 lost trip, 168 lost minutes)
Other: Information Only
Train 120 placed out of service due to dirty car (feces).

9/18/2016 1:24:00 AM - Incident\# 2778022 (1 lost trip, 163 lost minutes)
Blockade at 24th grade crossing blocking both track

9/24/2016 9:09:00 PM - Incident\# 2780673 (1 lost trip, 121 lost minutes)
Train delay
Train 112
Cars 231-248
Vernon tk 2 south bound

9/26/2016 1:17:00 PM - Incident\# 2781211 (0 lost trips, 8 lost minutes)
Reports of unknown passenger issues
Train \# 104
T-149
153-163-116
7th and Metro Center Station, Track \#1, NB

9/30/2016 6:10:00 PM - Incident\# 2783352 (0 lost trips, 18 lost minutes)
Train Delay, (Door problem) Cars \#248-(230)-239
Train \#127
T-053
Pico Station, Track \#002, Southbound.

## Accidents:

9/8/2016 10:56:00 PM - Incident\# 2774670 (2 lost trips, 355 lost minutes)
Train Vs. Auto
Train 104
(234B)-248
T-298
18th and Flower S/B
No Injuries
Residule delays

9/12/2016 7:55:00 AM - Incident\# 2775599 (0 lost trips, 12 lost minutes)
Auto vs. Train LRV 302A
T-233
Train 108
LRV (302A) 342
Pacific and 3rd Street, Track 2, northbound.
Vehicle Maintenance Incidents:
9/1/2016 4:27:00 PM - Incident\# 2772256 (1 lost trip, 187 lost minutes)
Reports no door lock indication on ADU
Train \#124
T-132
(301)-302-247

Firestone Station, Track \#2, NB

9/1/2016 6:49:00 PM - Incident\# 2772275 (0 lost trips, 7 lost minutes)
No fault-No movement
Train \#606
T-97
1024-1022-1037
7th and Metro Center Station, Track \#2, SB

9/2/2016 4:46:00 PM - Incident\# 2772639 (0 lost trips, 5 lost minutes)
Doors, Cars \#166-(161B 5/6)-130
Train \#124
T-183
Del Amo Station, Track \#001, Northbound.

9/6/2016 7:31:00 AM - Incident\# 2773396 (1 lost trip, 167 lost minutes)
Anaheim Station, Train-111 T-66 consist \#248-236-235 with no movement from open door indication.

9/6/2016 5:59:00 PM - Incident\# 2773721 (0 lost trips, 6 lost minutes)
Propulsion fault
Train 122
Car 233a
T-059
Willobrook Station
Southbound

9/7/2016 2:55:00 PM - Incident\# 2774157 (0 lost trips, 5 lost minutes)
Operator reports of a recurring, non-clerable propulsion fault with a speed restriction.
Train 123
T-149
(148-138-160)
Del Amo station, Trk. 1, northbound

9/8/2016 3:40:00 PM - Incident\# 2774592 (0 lost trips, 6 lost minutes)
Prop fault on car 301A
T-262, train 106
(301)-242-247

Vernon, track 2, south
9/9/2016 7:10:00 AM - Incident\# 2774760 (0 lost trips, 12 lost minutes)
Propulsion / Dynamic Brakes
(301A)-247-242
Train 106
T-485
Northbound, Track 1, Willowbrook

9/11/2016 3:45:00 PM - Incident\# 2775425 (0 lost trips, 10 lost minutes)
Operator reports of doors not closing. Further, was delayed due to non cycling bar signal at 14th Street
Train 110
T-292
(!45)163
Del Amo station, Trk. 1, northbound

9/12/2016 4:53:00 AM - Incident\# 2775532 (0 lost trips, 3 lost minutes)
Propulsion / Dynamic Brakes LRV 112B
T-236
Train 105
LRV (112B) 158113
Washington Station, Track 2, southbound.
9/12/2016 5:00:00 AM - Incident\# 2775535 (0 lost trips, 3 lost minutes)
Auto Train Protection (Speed Limit) LRV 301B
T-259
Train 108
LRV (301B) 242302
Willowbrook Station, Track 2, southbound.

9/13/2016 3:51:00 AM - Incident\# 2776045 (0 lost trips, 15 lost minutes)
Train 101, Cars 112,108 and 128.
Mainyard Interlocking, north pull-out on departure track.
Friction brakes locking.

9/15/2016 8:13:00 PM - Incident\# 2777327 (1 lost trip, 178 lost minutes)
Operator reports of doors not closing
Train 111
T-082
(231)-240

Willow station, Trk. 2, southbound
9/17/2016 3:13:00 PM - Incident\# 2777963 (0 lost trips, 5 lost minutes)
Lose Skirt , Car \#(129A left \#002)-161-127
TRain \#104
T-149
Washington Station, Track \#002, Southbound.

9/18/2016 9:55:00 AM - Incident\# 2778085 (0 lost trips, 10 lost minutes)
Cab window on 232A, bad window seal.
T-259
Train 101
LRV (232A) 250231
Compton Station, Track 2, Southbound.
9/18/2016 10:42:00 AM - Incident\# 2778095 (0 lost trips, 12 lost minutes)
Low Air Pressure 244246
T-400
Train 108
LRV 244246
Imperial Station, Track 1, northbound.
9/20/2016 6:40:00 AM - Incident\# 2778734 (0 lost trips, 10 lost minutes)
Doors \# 3 \& 4 fail to close.
Train \# 118
T-194
Cars \#302-(240-A).
N/Bound Wardlow Station Track-1.

9/20/2016 7:35:00 AM - Incident\# 2778775 (1 lost trip, 167 lost minutes)
Smoking friction brakes from the A Truck.
Trains \# 113
T-152
Cars \# 109-128
N?Bound 103rd Street Station Track-1.

9/20/2016 10:22:00 AM - Incident\# 2778842 ( 0 lost trips, 5 lost minutes)
Doors, Cars (122A)-148-135
Train \#107
T-118
Pico Station, Track \#002, Southbound.
9/20/2016 6:40:00 PM - Incident\# 2779152 (0 lost trips, 6 lost minutes)
Propulsion fault
Train 131
T-357
Car 150
Artesia Station
Southbound

9/21/2016 5:12:00 AM - Incident\# 2779251 (0 lost trips, 10 lost minutes)
Doors (3/4)
240-(302)-248
Train 103
T-37
Metro Center, Southbound, Track 2

9/21/2016 6:40:00 AM - Incident\# 2779289 (0 lost trips, 20 lost minutes)
Doors (248A 5/6)
(248A)-302-240
Train 109
T-115
Slauson, Southbound, Track 2
9/21/2016 8:24:00 AM - Incident\# 2779340 (1 lost trip, 167 lost minutes)
Friction Brakes ( Self apply brakes)
(232A)-235
Train 105
T-102
Anaheim, Northbound, Track 1

9/21/2016 3:15:00 PM - Incident\# 2779553 (1 lost trip, 167 lost minutes)
Door fault on cars 109-166-142
T-357, train 132
109-166-142
Grand, track 2, south

9/26/2016 7:58:00 AM - Incident\# 2781046 (1 lost trip, 187 lost minutes)
No Movement, no indications.
Train \#116.
T-258.
LRV-(233B),301,230.Track \#1.
300 ft . north of Mainyard Interlocking.
9/27/2016 9:19:00 AM - Incident\# 2781613 (0 lost trips, 10 lost minutes)
Complete ATP Failure.
Train \#
T-
(AB)--
EWB, 7th and Metro Center Station, Track \#

9/27/2016 3:42:00 PM - Incident\# 2781945 (0 lost trips, 6 lost minutes)
Lost cab signal unable to reset.
Train 104
Car 248
Willow Station
Northbound
9/27/2016 4:45:00 PM - Incident\# 2781973 (0 lost trips, 6 lost minutes)
Propulsion Fault
Train 123
Car 232
Compton Station
Northound
9/28/2016 4:38:00 PM - Incident\# 2782485 (1 lost trip, 179 lost minutes)
Operator reports of a non clearing propulsion fault, with a speed restriction.
Train 126
T-246
(126A)151
Vernon station, Trk. 2, southbound

9/29/2016 6:09:00 PM - Incident\# 2782895 (10 lost trips, 1,686 lost minutes)
Propulsion fault with a speed restriction of 35 mph
Train \# 127
T-53
(101A)-159
7th and Metro Center Station, Track \#2, SB

9/29/2016 11:48:00 PM - Incident\# 2782772 (2 lost trips, 335 lost minutes)
Reports of self applying brakes
Train \#105
T-46
133-164-116
Willowbrook Station, Track \#2, SB

9/30/2016 5:27:00 AM - Incident\# 2783012 (0 lost trips, 6 lost minutes)
Propulsion / Dynamic Brakes
(166)-146-163

T-224
Train 105
Wardlow, Southbound, Track 2

9/30/2016 6:22:00 AM - Incident\# 2783050 (0 lost trips, 6 lost minutes)
Friction Brakes (Master Controller)
(232A)-301-247
Train 106
T-132
Anaheim, Southbound, Track 2

## Wayside Incidents:

9/10/2016 2:42:00 PM - Incident\# 2775212 (1 lost trip, 133 lost minutes)
Loss of DC power from Florence Station to Firestone Station

9/14/2016 5:55:00 PM - Incident\# 2776889 (2 lost trips, 355 lost minutes)
ETS: Tripped at San Pedro and Washington TPSS

9/28/2016 2:20:00 PM - Incident\# 2782372 (0 lost trips, 12 lost minutes)
ARINC System indicates switch 23 (A)(B) are out of correspondence

## Police \& Health Incidents:

9/5/2016 5:09:00 PM - Incident\# 2773245 (0 lost trips, 12 lost minutes)
Police activity at Long Beach and Pacific Coast Highway station. North/West of PCH not on platform (street

9/11/2016 7:05:00 PM - Incident\# 2775451 (0 lost trips, 13 lost minutes)
Operator reports of two male blacks on board rail car (156A) one of which has a knife.
Train 101
T-250
(156A)166
Compton Station, Trk. 2, southbound

9/12/2016 1:08:00 PM - Incident\# 2775757 (0 lost trips, 10 lost minutes)
Reports of passenger claiming injury
Train \#110
T-132
138-(150A)-165
NB, Transit Mall Station, Track \#2

9/14/2016 3:12:00 PM - Incident\# 2776775 (20 lost trips, 3,354 lost minutes)
Suspicious Package at Willow Station

9/20/2016 11:22:00 PM - Incident\# 2779206 (0 lost trips, 25 lost minutes)
Patron jumped on top of coupler of train 105 at Pico Station.

9/22/2016 6:59:00 PM - Incident\# 2780056 (0 lost trips, 15 lost minutes)
Possible fight on train. 112-133-160
Train 104
T-137
Track 2
Southbound
Artesia station

9/25/2016 3:00:00 PM - Incident\# 2780822 (0 lost trips, 16 lost minutes)
Train 102 was held by LASD Deputy Hacen at Wardlow Station with 16 minute delay.

9/29/2016 8:46:00 AM - Incident\# 2782731 (1 lost trip, 167 lost minutes)
Artesia Station, Train-120 T-194 conswist \#161-165-151 with medical emergency onboard car \#165 involving Female patron.

## 9/30/2016 12:58:00 PM - Incident\# 2783245 (0 lost trips, 7 lost minutes)

Sick Individual (chest pains) Cars \#(159A)-105-142
Train \#102
T-224
Vernon Staion, Track \#002, Southbound.

## Other Incidents:

9/8/2016 10:06:00 PM - Incident\# 2774675 (1 lost trip, 167 lost minutes)
Passenger assaulted on board Train 132
T-174
125-117-(138A)
S/B Track 2 Vernon

9/9/2016 11:49:00 PM - Incident\# 2774886 (1 lost trip, 170 lost minutes)
Medical Emergency: Possible Seizure
PCH Station
Train 110
Cars: (237)-244
Trk 2, Southbound
T-87

9/27/2016 4:38:00 AM - Incident\# 2781489 (0 lost trips, 3 lost minutes)
Anaheim street station: Long Beach FD advised ROC that there is a fire at 146 Long Beach Blvd, affecting Anaheim street station; LBFD requesting no trains on track 1 between ANanheim and PCH stations.

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 26,145 hours operated, there were approximately 29 total hours of service delays.

| Seper | Revenue |  |
| :--- | ---: | ---: |
| September 2016 Service Hours * | Hours | Per Cent |
| Revenue Hours without Delays | 26,116 | $99.9 \%$ |
| Hours Delayed | 29 | $0.1 \%$ |
| Total Revenue Hours | $\mathbf{2 6 , 1 4 5}$ | $\mathbf{1 0 0 . 0 \%}$ |


| Summary of the major contributors: | Count | Hours | Per Cent |
| :---: | :---: | :---: | :---: |
| Operations | 1 | 0.2 | 0.6\% |
| Accidents | 1 | 0.3 | 1.1\% |
| Vehicle Maintenance | 13 | 27.7 | 96.3\% |
| Wayside | 0 | 0.0 | 0.0\% |
| Police \& Health | 3 | 0.5 | 1.7\% |
| Other | 1 | 0.1 | 0.3\% |
| Total | 19 | 28.8 | 100.0\% |

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



## September 2016 Red Line major delay contributors were as follows:

## Operations Incidents:

9/3/2016 12:43:00 AM - Incident\# 2772715 (0 lost trips, 10 lost minutes)
T-365 reports an individual on the train threatening patrons with a knife at Vermont Sunset AR west.

## Accidents:

9/17/2016 7:14:00 AM - Incident\# 2777875 (O lost trips, 20 lost minutes)
Train 205 reported and individual alleging to have been struck by one of our train.
Civic Center Station, AR track.

## Vehicle Maintenance Incidents:

9/1/2016 12:07:00 AM - Incident\# 2771839 (3 lost trips, 448 lost minutes)
Propulsion cut out indication, service brake and electric brake failure in car 595.
T-22
Train 214
Cars (595),596,539,540,533,534
Union Station AL WB.

9/1/2016 3:12:00 PM - Incident\# 2772220 (1 lost trip, 155 lost minutes)
Report of heavy vibration departing station.
T-176
Train 213
Cars (565)-566-601-602-547-548
Union Station AL westbound.

9/3/2016 6:00:00 AM - Incident\# 2772741 (2 lost trips, 348 lost minutes)
Jerky Propulsion
Train 207
T-007
Cars 513-514-503-504-519-526
Wilshire Western BR East

9/12/2016 10:52:00 PM - Incident\# 2776005 (0 lost trips, 9 lost minutes)
Emergency brake application and doors will not open Car \# 560
Universal City AL East
Train \# 219 T-22
Car \# 563-564-549-550-559-(560)

9/17/2016 10:49:00 AM - Incident\# 2777910 (1 lost trip, 174 lost minutes)
No movement with propulsion failure.
Trains \# 204
T-329
Cars \# 579-580-595-596-545-(546).
W/Bound Westlake Station A/R Track.

9/17/2016 8:03:00 PM - Incident\# 2778000 (O lost trips, 20 lost minutes)
No power Car \# 517 and 518, no movement.
Cross passage 49 AL East
Train \# 210 Operator T-145
Car \# (517)-(518)-501-502-519-526

9/18/2016 12:12:00 PM - Incident\# 2778113 (O lost trips, 20 lost minutes)
Flashing Cab Signals with Emergency Brake Application
Train 203
T-389
Cars 527-522-515-516-511-(512)
Wilshire Western BR East and Normandie BL East

9/19/2016 12:44:00 PM - Incident\# 2778478 (O lost trips, 4 lost minutes)
Auxiliary Power Failure Train line
Train 201
T-124
Cars (525)-524-503-504
Union Station AL West

9/19/2016 5:59:00 PM - Incident\# 2778585 (0 lost trips, 12 lost minutes)
Train 217 T-004 received friction brake fault, unable to reset.

9/20/2016 3:52:00 PM - Incident\# 2779106 (O lost trips, 8 lost minutes)
Train 219 ( $551,552,543,544,573,574$ ) T-064, Vermont Beverly, AR reports consist has no power, no movement.

9/22/2016 6:52:00 PM - Incident\# 2780061 (2 lost trips, 311 lost minutes)
Report of propulsion and service brake failure.
T-418
Train 218
Cars (503-504)-527-(522)-519-526
Pershing Square AL eastbound.

9/28/2016 6:19:00 PM - Incident\# 2782502 (0 lost trips, 5 lost minutes)
Report of flashing cab signal, emergency brake applications.
T-004
Train 217
Cars 591-592-573-574-575-(576)
7th/Metro AL eastbound
9/29/2016 2:51:00 PM - Incident\# 2782799 (1 lost trip, 149 lost minutes)
Propulsion failure Auxiliary power failure.
Train 214
T-045
Cars 541542577578 (581) (582)
Vermont Santa Monica AR Westbound

## Police \& Health Incidents:

9/5/2016 12:09:00 PM - Incident\# 2773196 (0 lost trips, 8 lost minutes)
G-378 reports sick individual on board train 204, car 573 in apparent distress.

9/9/2016 11:49:00 AM - Incident\# 2774883 (0 lost trips, 9 lost minutes)
Train 206 ( $599,600,537,538$ ) T-523, 7th \& Metro, AL reports she is unable to depart due to an irate female patron holding the doors.

9/30/2016 6:49:00 AM - Incident\# 2783076 (0 lost trips, 13 lost minutes)
Trespasser observed on the AR right of way East of Vermont Beverly Station

## Other Incidents:

9/9/2016 5:00:00 PM - Incident\# 2775023 (0 lost trips, 5 lost minutes)
TRACS indicate RTU failure.

## MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

COMPLIANCE WITH SCHEDULED VEHICLE HOURS CHART


COMPLIANCE WITH SCHEDULED TRAIN MILES CHART


## ON-TIME PULL OUTS CHART



IN-SERVICE ON-TIME PERFORMANCE CHART


LOST TRIPS


LOST TRIPS


## VERTICAL TRANSPORTATION AVAILABILITY




## GREEN LINE

Out of a total of 7,756 hours operated, there were approximately 37 total hours of service delays.

| Seper | Revenue |  |
| :--- | ---: | ---: |
| September 2016 Service Hours * | Hours | Per Cent |
| Revenue Hours without Delays | 7,719 | $99.5 \%$ |
| Hours Delayed | 37 | $0.5 \%$ |
| Total Revenue Hours | $\mathbf{7 , 7 5 6}$ | $\mathbf{1 0 0 . 0 \%}$ |


| Summary of the major contributors: | Count | Hours | Per Cent |
| :---: | :---: | :---: | :---: |
| Operations | 3 | 1.0 | 2.7\% |
| Accidents | 0 | 0.0 | 0.0\% |
| Vehicle Maintenance | 30 | 33.1 | 88.6\% |
| Wayside | 3 | 0.9 | 2.4\% |
| Police \& Health | 2 | 2.4 | 6.4\% |
| Other | 0 | 0.0 | 0.0\% |
| Total | 38 | 37.4 | 100.0\% |

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



## September 2016 Green Line major delay contributors were as follows:

## Operations Incidents:

9/3/2016 9:20:00 AM - Incident\# 2772792 (0 lost trips, 5 lost minutes)
Management approved unscheduled Single Tracking.

9/9/2016 5:10:00 AM - Incident\# 2774707 (0 lost trips, 15 lost minutes)
Train 344 out late due to no manpower.

9/26/2016 12:40:00 PM - Incident\# 2781173 (0 lost trips, 40 lost minutes)
25 MPH speed restriction UFN Norwalk to Aviation both directions.
Trains delyaed on all light rail lines due to heat advisories.

## Vehicle Maintenance Incidents:

9/1/2016 5:46:00 PM - Incident\# 2772272 (1 lost trip, 64 lost minutes)
Car 227 no power/movement.
T-177
Train 354
Cars (227)-219
Mariposa Station, Track 2, eastbound.

9/2/2016 4:40:00 AM - Incident\# 2772354 (0 lost trips, 3 lost minutes)
Friction brake faults/no movement
Train 344
LRV 218A/226
T-048
Yard Limits 76

9/2/2016 5:49:00 PM - Incident\# 2772651 (1 lost trip, 64 lost minutes)
ATP failure on car 208B
T-255, train 354
(208)-214

Douglas, track 2, east

9/3/2016 2:26:00 PM - Incident\# 2772848 (0 lost trips, 5 lost minutes)
Unable to cut out doors 7/8 (216A)-224
T-096
Train 331
Track 1
Norwalk station
Westbound

9/3/2016 3:57:00 PM - Incident\# 2772873 (0 lost trips, 8 lost minutes)
Propulsion fault car 203-214
T-013
Train 332
Track 2
eastbound
Mariposa station

9/3/2016 10:01:00 PM - Incident\# 2772917 (0 lost trips, 9 lost minutes)
Operator reports that after unccoupleing, Car 205 began losing air pressure.
Car 205
Train 331
T-247
Marine, TRK 2, eastbound.

9/4/2016 2:31:00 AM - Incident\# 2772936 (0 lost trips, 10 lost minutes)
Friction Brakes not releasing.
Train \#331.
T-112.
LRV-(204A), 207.
Yard Interface, Westbound.

9/6/2016 5:23:00 PM - Incident\# 2773714 (2 lost trips, 136 lost minutes)
Doors (Track brake) , Cars \#(222A)-211
Train \#349
T-071
El Segundo Station, Track \#001, Westbound.

9/8/2016 7:25:00 AM - Incident\# 2774364 (1 lost trip, 66 lost minutes)
Propulsion fault with a speed restriction. ADU faults.
Train 341
T-96
219-209
EB, Marine Station, Track 2

9/10/2016 4:36:00 PM - Incident\# 2775227 (0 lost trips, 5 lost minutes)
Propulsion / Dynamic Brakes, Cars \#(222A)-207
Train \#331
T-177
Vermont West interlocking, Track \#002, Eastbound.

9/11/2016 3:48:00 PM - Incident\# 2775421 (0 lost trips, 4 lost minutes)
Propulsion / Dynamic Brakes 205B
T-334
Train 334
LRV 205B-228
Marine Station, Track 2, Eastbound.

9/11/2016 10:01:00 PM - Incident\# 2775473 (0 lost trips, 14 lost minutes)
Train 351 had Propulsion Faults in car 205
228-(205)
T-274
Lakewood Station Westbound Track \#1.

9/13/2016 4:59:00 AM - Incident\# 2776055 (0 lost trips, 10 lost minutes)
Reocurring propulsion faults
Train 344
LRV 217A/215
T-177
Mariposa station track 2 eastbound

9/13/2016 7:28:00 PM - Incident\# 2776443 (O lost trips, 15 lost minutes)
Low Air Pressure, cars \#(224B-207)
Train \#361
T-105
Norwalk Station, Track \#001, Northbound.

9/13/2016 10:19:00 PM - Incident\# 2776472 (2 lost trips, 132 lost minutes)
Car 203 and 226 prop fault speed restriction
T-496
Consist(226A)203
Train349
Crenshaw Station, Eastbound, Track 2

9/15/2016 11:21:00 AM - Incident\# 2777141 (1 lost trip, 66 lost minutes)
Train 335, Cars 225 and 202.
Douglas station, Track 2 east.
Prop fault and spin slide.

9/15/2016 8:18:00 PM - Incident\# 2777329 (1 lost trip, 77 lost minutes)
Operator reports having a CCH indication on both Cars 220, 221.
Cars $(220,221)$
Train 350
T-24
Marine, TRK 2, eastbound

9/15/2016 11:52:00 PM - Incident\# 2777367 (0 lost trips, 27 lost minutes)
Operator reports losing air, and no movement on Car 205B.
Car 205B
Train 347
T-294
El Segundo TRK 2, eastbound

9/16/2016 6:36:00 AM - Incident\# 2777439 (1 lost trip, 64 lost minutes)
Train 342, Cars 227 and 208.
Marine station, Track 2 east.
Prop fault with speed restriction.
9/16/2016 9:06:00 PM - Incident\# 2777806 (0 lost trips, 9 lost minutes)
Operator reports friction brakes self appied departing the platform east.
Cars 207-(226)
Train 333
T-294
Marine TRk 2, esastbound.

9/17/2016 4:57:00 AM - Incident\# 2777847 (0 lost trips, 6 lost minutes)
Self applying friction brakes, possible spin/slide condition.
Train \# 331
T-085
Cars \# 213-217
E/Bound Mariposa Station Track-2.

9/18/2016 5:42:00 AM - Incident\# 2778042 (0 lost trips, 5 lost minutes)
Train 333, Cars 207 and 213.
Douglas station, track 2 east.
Friction brakes locked and prop fault.
9/20/2016 7:51:00 AM - Incident\# 2778776 (0 lost trips, 4 lost minutes)
Propulsion faults wont clear
Train 334
LRV 221A/208
T-202
Crenshaw station track 1 westbound

9/21/2016 6:38:00 AM - Incident\# 2779286 (0 lost trips, 10 lost minutes)
Propulsion faults wont clear
Train 346
LRV 222A/203
T-140
Crenshaw station track 2 eastbound

9/21/2016 11:06:00 AM - Incident\# 2779459 (0 lost trips, 1,020 lost minutes)
No movement/ADU shows depressed mushroom
Train 333
LRV 220A/213
T-105
Wilmington West Pocket track 2 eastbound

9/23/2016 7:45:00 AM - Incident\# 2780232 (1 lost trip, $\mathbf{7 0}$ lost minutes)
Train 342, Cars (207A) and 222.
Aviation Station, Track 1 west.
Prop fault with speed restriction.

9/27/2016 4:38:00 AM - Incident\# 2781490 (0 lost trips, 8 lost minutes)
Car 221 friction brakes lock up in ATO mode
T-40
Train-342
Consist (221)205
Vermont West 2, Track 2, Eastbound
9/27/2016 3:39:00 PM - Incident\# 2781958 (0 lost trips, 5 lost minutes)
Propulsion / Dynamic Brakes, cars \#(223B)-220
Train \#350
T-344
Norwalk Station, Track \#001, Westbound.

## 9/28/2016 7:45:00 AM - Incident\# 2782189 (1 lost trip, 68 lost minutes)

Doors hard to open
Train 334
LRV 223A/220
T-057
Lakewood station track 1 westbound

9/28/2016 3:18:00 PM - Incident\# 2782436 (0 lost trips, 4 lost minutes)
Train overshot station
Lakewood Station
Westbound
Train 348
Car 213

## Wayside Incidents:

9/18/2016 8:22:00 AM - Incident\# 2778065 (0 lost trips, 6 lost minutes)
OCS inspection and repairs.

9/19/2016 1:11:00 AM - Incident\# 2778226 (0 lost trips, 34 lost minutes) A06, B01, B11 \& B12 open due to a broken hanger wire near YDI signal 8.

9/19/2016 3:31:00 AM - Incident\# 2778243 (0 lost trips, 13 lost minutes) Loss Power to Hawthorne TPSS due to power outage in the area.

## Police \& Health Incidents:

9/12/2016 3:11:00 PM - Incident\# 2775781 (0 lost trips, 5 lost minutes)
Assault, patron was hit with a cell phone, Cars \#(216A)-211
Train \#349
T-020
Crenshaw Station, Track \#001, Eastbound.

9/16/2016 9:46:00 PM - Incident\# 2777812 (2 lost trips, 138 lost minutes)
Female 10-390 non-responsive on car 249A
T-374
Train-605
Consist-239-301(249A)
Vermont Station, Track \#4, 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



## Metro Green Line

 Escalator Availability

GOLD LINE
Out of a total of 18,941 hours operated, there were approximately 84 total hours of service delays.

| September 2016 Service Hours * |  | Revenue |
| :--- | ---: | ---: |
| Revenue Hours without Delays | 18,856 | Per Cent |
| Hours Delayed | 84 | $0.6 \%$ |
| Total Revenue Hours | $\mathbf{1 8 , 9 4 1}$ | $\mathbf{1 0 0 . 0 \%}$ |


| Summary of the major contributors: | Count | Hours | Per Cent |
| :--- | ---: | ---: | ---: |
| Operations | 4 | 7.8 | $9.3 \%$ |
| Accidents | 0 | 0.0 | $0.0 \%$ |
| Vehicle Maintenance | 28 | 55.6 | $65.9 \%$ |
| Wayside | 4 | 1.0 | $1.2 \%$ |
| Police \& Health | 9 | 20.0 | $23.7 \%$ |
| Other | 0 | 0.0 | $0.0 \%$ |
| Total | $\mathbf{4 5}$ | $\mathbf{8 4 . 4}$ | $\mathbf{1 0 0 . 0 \%}$ |

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



## September 2016 Gold Line major delay contributors were as follows:

## Operations Incidents:

9/9/2016 10:18:00 AM - Incident\# 2774843 (1 lost trip, 224 lost minutes)

Train 402 Trip cancelled from Atlantic station to Citrus due to excessive amounts of feces on the train. No gap trains or replacements available. Train Scheduled to depart 1018 hours, Follower train departed 1030.

9/22/2016 8:19:00 PM - Incident\# 2780075 (1 lost trip, 224 lost minutes)
Dirty Car \#739 Removed From Service

9/23/2016 8:10:00 AM - Incident\# 2780236 (0 lost trips, 6 lost minutes)
Atlantic Interlocking , Track 2. Signal 4N Overran.
T-447
Train 403
LRV (713B) 749
Atlantic Station, Track 2, northbound.

9/27/2016 11:46:00 AM - Incident\# 2781687 (O lost trips, 15 lost minutes)
10 minutes delay do to single tracking.

## Vehicle Maintenance Incidents:

9/1/2016 7:42:00 PM - Incident\# 2772287 (1 lost trip, 230 lost minutes)
HSCB and Propulsion fault in car 707B.
T-63
Train 424
Cars 701-(707B)
Departing Citrus Station Track 2 SB.

9/2/2016 4:24:00 PM - Incident\# 2772637 (1 lost trip, 229 lost minutes)
Train 401 (1005-1008) T-228, Monrovia Station, track 2 reports no movement.

9/3/2016 4:46:00 AM - Incident\# 2772746 (0 lost trips, 18 lost minutes)
HSCB Trip LRV 741-738
T-470
Train 405
LRV 741-738
Irwindale Station, Track 2, southbound.

9/4/2016 10:13:00 PM - Incident\# 2773093 (O lost trips, 15 lost minutes)
Propulsion fault on consist (715)743.
Arcadia Station
Train \#401, T-467, track \#2, southbound.

9/7/2016 1:00:00 PM - Incident\# 2774112 (1 lost trip, 226 lost minutes)
HSCB unable to clear no movement.
Train \#406 T-019 car \#726B-735
Azusa Citrus southbound.

## 9/7/2016 3:30:00 PM - Incident\# 2774159 ( 0 lost trips, 7 lost minutes)

Train 405 (1010-1013) T-432, approaching Irwindale Station, track 2 reports reocurring propulsion and HVAC fault, unable to proceed above 35 MPH .

9/9/2016 5:16:00 PM - Incident\# 2775014 (2 lost trips, 448 lost minutes)
Train 428 (1015-1012) T-111, Ditman Interlocking, track 1 reports minimal propulsion operating out of car 1015 with no fault indications.

9/11/2016 6:05:00 AM - Incident\# 2775317 (0 lost trips, 9 lost minutes)
Train $405(717,740)$ T-129, Civic Ctr Station, track 1 reports various faults, momentary loss of propulsion, loss of radio.

9/13/2016 8:30:00 AM - Incident\# 2776169 (1 lost trip, 224 lost minutes)
No fault no movement
Train 451 (703),706
T-19
Atlantic Station north.

9/13/2016 5:45:00 PM - Incident\# 2776419 (0 lost trips, 6 lost minutes)
(1007)-1006

Train\# 408
No Movement
NB Little Tokyo
T-425

9/13/2016 7:52:00 PM - Incident\# 2776452 (1 lost trip, 224 lost minutes)
(740)-714

Train 424
Propulsion Fault/Speed Restriction
SB Downtown Azusa
T-11

9/14/2016 2:56:00 PM - Incident\# 2776765 (O lost trips, 9 lost minutes)
Propulsion Code Fault
716-739B
Train 406
T-128
Lincoln / Cypress Station, northbound

9/15/2016 10:09:00 AM - Incident\# 2777116 (0 lost trips, 8 lost minutes)
Propulsion / Dynamic Brakes LRV 1010
T-019
Train 404
LRV 1005 (1010)
Duarte Station, southbound, Track2.

9/15/2016 12:53:00 PM - Incident\# 2777184 (0 lost trips, 8 lost minutes)
(1013)-1009

Train 405
HSCB Fault No Movement
SB Citrus Station
T-178

9/15/2016 7:20:00 PM - Incident\# 2777311 (1 lost trip, 224 lost minutes)
(1005)-1010

Train 404
Propulsion Fault/Speed Restriction
NB Soto Station
T-158

9/20/2016 6:03:00 PM - Incident\# 2779148 (0 lost trips, 10 lost minutes)
Doors $3 / 4$ and $5 / 6$ will not close (737A)747.
Chinatown Station
Train \#401, T-499, track \#2, northbound.

9/22/2016 3:26:00 PM - Incident\# 2779988 (0 lost trips, 6 lost minutes)
While conducting a LOCAL RESET the left bank doors opened on LRV 1006-1007
T-340
Train 419
LRV (1006-1007)
Lincoln/Cypress Station, Track 1, northbound.

9/22/2016 11:06:00 PM - Incident\# 2780102 (O lost trips, 20 lost minutes)
Train 431
Car 723 Low Air Pressure no movement
First and Mission St, ELA

9/26/2016 5:56:00 AM - Incident\# 2780947 (1 lost trip, 229 lost minutes)
Train 427, Cars 749 and (750).
Irwindale Station southbound on Track 2.
No headlights

9/26/2016 2:30:00 PM - Incident\# 2781316 (0 lost trips, 8 lost minutes)
Train $403(1009,1010)$ T-180 departing Atlantic Station, track 1 reports propulsion fault, unable to operate above 35 MPH and no AC in either car. Train had various faults on the southbound trip.

9/26/2016 4:41:00 PM - Incident\# 2781361 (1 lost trip, 227 lost minutes)
Train 437 (736,747) T-466, departing APU reports propulsion fault car 736.
9/26/2016 5:00:00 PM - Incident\# 2781383 (0 lost trips, 15 lost minutes)
Train 404 (1009-1010) T-063, Little Tokyo Station, track 1 reports emergency brakes applied, no movement.

## 9/26/2016 5:30:00 PM - Incident\# 2781381 (0 lost trips, 20 lost minutes)

Train $402(1013,1012)$ T-036, departing Atlantic Station, track 1 reports propulsion failure.

9/29/2016 5:00:00 AM - Incident\# 2782592 (2 lost trips, 448 lost minutes)
Dirty LRV 726 human waste
T-128
Train 401
LRV (726) 728
Atlantic Station, Track 1, northbound.

9/29/2016 6:20:00 AM - Incident\# 2782637 (0 lost trips, 7 lost minutes)
Propulsion / Dynamic Brakes LRV 733-736
T-304
Train \# 455
LRV 733-736
Sierra Madre Station, Track 2, southbound.

## 9/29/2016 9:25:00 AM - Incident\# 2782720 (1 lost trip, 231 lost minutes)

Auto Train Protection (Speed Limit) LRV 1007-1008
T-108
Train 404
LRV 1007-1008
Little Tokyo Station, Track 1, northbound.

9/29/2016 6:18:00 PM - Incident\# 2782898 (1 lost trip, 224 lost minutes)
LVPS failure on consist (726)728.
Atlantic Station
Train \#431, T-205, track \#1, northbound.

## 9/30/2016 8:11:00 PM - Incident\# 2783372 (0 lost trips, 7 lost minutes)

Propulsion failure on consist (1015)1010.
Chinatown Station
Train \#405, T-243, track \#1, northbound.

## Wayside Incidents:

9/13/2016 10:44:00 AM - Incident\# 2776214 (0 lost trips, 17 lost minutes)
TP-147 and crew requests access to the right of way track 1
Soto to Maravilla Station with a Hi-Rail vehicle.Emergency fan
maintenance.

9/22/2016 6:24:00 AM - Incident\# 2779731 (0 lost trips, 15 lost minutes) train \#413 reports Signal at 2 S at citrus interlocking unable to clear , late departures.

9/25/2016 3:22:00 PM - Incident\# 2780823 (0 lost trips, 12 lost minutes)
ARINC shows deenergized track between Highland Park Station and Indiana Siding with open A-01, B-01 Ave 50 TPSS, B-12, B-13 Monterey, B-14,B-15 French Ave.

## 9/27/2016 2:04:00 PM - Incident\# 2781915 ( 0 lost trips, 15 lost minutes)

Track Department request emergency single tracking due to missing track bolt on track \#2.
Allen Interlocking.

## Police \& Health Incidents:

9/1/2016 11:58:00 PM - Incident\# 2772322 (O lost trips, 20 lost minutes)
Del Mar Station Track \#1

9/3/2016 6:34:00 PM - Incident\# 2772896 (1 lost trip, 224 lost minutes)
T-186 Reported an Assault on Train 409 NB at Monrovia

9/4/2016 4:30:00 PM - Incident\# 2773057 (0 lost trips, 6 lost minutes)
LASD Instructed Control to Hold Train 410 at Downtown Azusa

9/8/2016 9:16:00 PM - Incident\# 2774662 (0 lost trips, 4 lost minutes)
Del Mar Station

9/11/2016 6:37:00 PM - Incident\# 2775453 (0 lost trips, 12 lost minutes)
Non-MTA Trafffic Accident 1st and Mission

9/14/2016 5:23:00 PM - Incident\# 2776893 (O lost trips, 2 lost minutes)
Train 429 northbound reports a non-MTA vehicular accident fouling track 2 at Ditman interlocking.

9/20/2016 3:59:00 PM - Incident\# 2779120 (0 lost trips, 22 lost minutes)
LASD requests southbound to hold due to a person with a possible knife.
Highland Park Station
Train \#427, T-207, track \#2, southbound.
Consist 714-739.

9/27/2016 5:02:00 PM - Incident\# 2781997 (0 lost trips, 900 lost minutes)
Vehicle is stuck on track \#1.
3rd/Eastman.

9/30/2016 4:52:00 PM - Incident\# 2783340 (0 lost trips, 7 lost minutes)
Blockade, vehicle blocking both tracks.
Fremont Grevelia grade crossing

## 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 14,960 hours operated, there were approximately 75 total hours of service delays.

| Seper | Revenue |  |
| :--- | ---: | ---: |
| September 2016 Service Hours * | Hours | Per Cent |
| Revenue Hours without Delays | 14,886 | $99.5 \%$ |
| Hours Delayed | 75 | $0.5 \%$ |
| Total Revenue Hours | $\mathbf{1 4 , 9 6 0}$ | $\mathbf{1 0 0 . 0 \%}$ |


| Summary of the major contributors: |
| :--- |
| Count |
|  Hours Per Cent  <br> Operations 7 16.1 $21.4 \%$ <br> Accidents 2 7.2 $9.6 \%$ <br> Vehicle Maintenance 21 25.1 $33.5 \%$ <br> Wayside 0 0.0 $0.0 \%$ <br> Police \& Health 6 26.6 $35.4 \%$ <br> Other 0 0.0 $0.0 \%$ <br> Total $\mathbf{3 6}$ $\mathbf{7 4 . 9}$ $\mathbf{1 0 0 . 0 \%}$ |

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



## September 2016 Expo Line major delay contributors were as follows:

## Operations Incidents:

9/2/2016 2:54:00 PM - Incident\# 2772620 (1 lost trip, 132 lost minutes)
Train 602 trip from Santa Monica to Bundy station was cancelled

9/10/2016 4:33:00 AM - Incident\# 2775075 (1 lost trip, 132 lost minutes)
26th St Interlocking signal-6S, Train-102 T-89 consist \#248-236 "out-late". Scheduled pull-out at 4:33 hours and actual pull-out at 5:23 hours with (50) minutes delayed.

9/10/2016 8:15:00 AM - Incident\# 2775127 (3 lost trips, 397 lost minutes)
Expo Yard (Division-14), last three scheduled pull-out's canceled due to "no equipment" available. Train-105 at 8:15 hours, Train-101 at 8:27 hours and Train-619 at 8:39 hours.

9/14/2016 11:30:00 AM - Incident\# 2776695 (0 lost trips, 8 lost minutes)
Train 605 Operator T-459 departed from Santa Monica Station eight minutes late for no reason.

9/14/2016 6:41:00 PM - Incident\# 2776887 (0 lost trips, 12 lost minutes)
Refer to M3 \#2,776,889
Train Delay due to deenergized track
South of San Pedro Station, Track \#002.

9/18/2016 10:27:00 AM - Incident\# 2778105 (2 lost trips, 271 lost minutes)
Trains 918 \& 919 did not roll out from the Expo Yard at the prescribed scheduled times

## 9/21/2016 7:12:00 AM - Incident\# 2779365 (0 lost trips, 12 lost minutes)

Train \# 607 T-230 departed 12 minutes due to late arrival into 7th \& Metro. Blue Line delays cause trains to be held outside of 7th \& Metro.

## Accidents:

9/13/2016 9:47:00 AM - Incident\# 2776202 (1 lost trip, 146 lost minutes)
Train \# 605 T-226, S/Bound Track \#3, 17th Street Pedestrian Grade Crossing reports 1072.

9/26/2016 1:41:00 AM - Incident\# 2780920 (2 lost trips, 286 lost minutes)
Train vs Motorcycle with a fatality
Train 604
T-497
Cars (158)B-157
Flower Washington tk 4

## Vehicle Maintenance Incidents:

9/1/2016 5:21:00 PM - Incident\# 2772261 (0 lost trips, 8 lost minutes)
Door problems car 1028B-1025-1027
Train 601
T-375
Track 3
Bundy station
Northbound

9/4/2016 4:33:00 AM - Incident\# 2772940 (2 lost trips, 266 lost minutes)
B/O dynamic brake on 163.
Train 606
T-241
116-(163)-122
SB, Westwood Station, Track 3

9/5/2016 5:38:00 AM - Incident\# 2773124 (0 lost trips, 12 lost minutes)
Horn/Gong not working LRV 119A
T-054
Train 602
LRV (119A) 108138
26th Street Station, Track 3, northbound.

9/5/2016 6:28:00 AM - Incident\# 2773128 (0 lost trips, 13 lost minutes)
Train keyed in Local on Trailing Cab of 131
T-054
Train 602
LRV 118-138-131
Crenshaw Station, Track 3, northbound.

9/7/2016 4:53:00 AM - Incident\# 2773855 (0 lost trips, 480 lost minutes)
Train-603
T-230
Cars (1023)-1017-1036
USC/EXPO, Track \#4
Southbound
HSCB Trip/ Fricton Brakes

9/10/2016 5:29:00 PM - Incident\# 2775236 (1 lost trip, 152 lost minutes)
Propulsion / Dynamic Brakes, Cars \#(119A)-142-141
Train \#601
T-354
Bill Robertson Way, Track \#003, Northbound.
9/12/2016 11:51:00 PM - Incident\# 2776014 (0 lost trips, 7 lost minutes)
Operator reports a door problem on Car 236A.
Cars 236A, 248
Train 605
T-375
Vermont TRK 4, southbound

9/14/2016 2:31:00 PM - Incident\# 2776762 (0 lost trips, 4 lost minutes)
Doors, Cars \#246-(248A 5/6-236
Train \#605
T-449
Western Station, Track \#004, Southbound.
9/14/2016 5:40:00 PM - Incident\# 2776876 (0 lost trips, 13 lost minutes)
Propulsion / Dynamic Brakes, Cars \#(145)-148-122
Train \#601
T-392
23rd street Station, Track \#004, Southbound.
9/15/2016 4:26:00 PM - Incident\# 2777276 (0 lost trips, 12 lost minutes)
Operator reports of self applying brakes
Train 607
T-219
(149A)142-133
Sepulveda station, Trk. 4, southbound

9/17/2016 12:58:00 AM - Incident\# 2777827 (0 lost trips, 20 lost minutes)
NO Fault no movement and Self applying brakes on the Trailing.
Train 604
T-455
(1019)-1014-(1018)

Washington and Flower (Junction)
20 minute delay

9/17/2016 2:45:00 AM - Incident\# 2777836 (0 lost trips, 20 lost minutes)
No Fault No Movement/ Friction Break Fault
Train 604
T-455
(1019A FF)-1014-(1018)
Flower/Washington (Junction)
+20 min.

9/17/2016 5:34:00 PM - Incident\# 2777979 (0 lost trips, 20 lost minutes)
No movement
Train \#604
T-325
1024-1026-1023
7th and Metro Center Station, Track \#1, NB

9/18/2016 3:07:00 PM - Incident\# 2778152 (0 lost trips, 15 lost minutes)
Operator reports of no movement after cutting out doors on rail car 247
Train 608
T-241
(247)234-302

Crenshaw station, Trk. 4, southbound
9/19/2016 10:11:00 AM - Incident\# 2778419 (0 lost trips, 11 lost minutes)
Propulsion / Dynamic Brakes
T-241
Train 603
LRV 1026-1018-1038-1038
7MC Station, Track 1, southbound.

9/21/2016 2:38:00 PM - Incident\# 2779564 (1 lost trip, 133 lost minutes)
Propulsion fault unable to clear 1026-1018-1038
Train 601
T-407
Track 3
Northbound
Sepulveda station
9/27/2016 6:37:00 AM - Incident\# 2781563 (0 lost trips, 12 lost minutes)
Hi-Circuit Breaker Trip. No Movement.
Train \#606.
T-306.
LRV-(1038A),1018,1023.
Culver City Station, Track \#3, Northbound.

9/28/2016 2:14:00 PM - Incident\# 2782426 (1 lost trip, 133 lost minutes)
No fault no movement cars 1021-1027-1022
Train 606
T-392
Track 3
Northobound

9/29/2016 1:33:00 PM - Incident\# 2782813 (1 lost trip, 143 lost minutes)
Operator reports of no movement
Train 603
T-502
(1025)1029-1033

Vermont station, Trk. 3, northbound

9/29/2016 10:20:00 PM - Incident\# 2782937 (0 lost trips, 20 lost minutes)
Door Problemm/ No movement
Train \#604, T-401
(229B)-249
SB, Culver City Station, Track \#4

9/30/2016 6:09:00 AM - Incident\# 2783051 (0 lost trips, 12 lost minutes)
Car 144A Doors 5/6 unable to close
Train 605
T-442
17th St. Station track 3 Northbound
Consist 110-144-100

## Police \& Health Incidents:

9/6/2016 12:45:00 PM - Incident\# 2773610 (1 lost trip, 133 lost minutes)
Sick individual at Culver City track 4.requesting medical attention.

9/8/2016 11:52:00 AM - Incident\# 2774490 (10 lost trips, 1,410 lost minutes) 996-TOM at Vermont Station

9/14/2016 3:46:00 PM - Incident\# 2776816 (0 lost trips, 13 lost minutes)
Other Felony/Misdemeanor (teenagers fighting) Cars \#1029-1038-1028
Train \#601
T-354
Vermont Station, Track \#004, Southbound.

9/15/2016 5:05:00 PM - Incident\# 2777279 (0 lost trips, 6 lost minutes)
Operator reports of a trespasser blocking train movement at 27th and Adams.
Train 99
T-509
1030-1016-1031
27th/Adams, Trk. 4, southbound

9/19/2016 2:13:00 PM - Incident\# 2778526 (0 lost trips, 12 lost minutes) Intoxicated passenger requesting medical attention.

9/30/2016 12:50:00 AM - Incident\# 2782974 (0 lost trips, 20 lost minutes)
Traffic accident at Crenshaw Blvd. MTA not involved

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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




[^0]:    ${ }^{1}$ 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
    Y Yellow - Uncertain if the target will be achieved -- slight problems, delays or management issues. Falls below Target $70-99 \%$
    O Red - High probability that the target will not be achieved -- significant problems and/or delays. Falls below Target >70\%.

[^1]:    * No Escalators at Blue and Expo Lines

