

## METRO RAIL PERFORMANCE - SEPTEMBER 2017

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## Metro Rail Scorecard Overview

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

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

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

| Measurement | FY 2015 | FY 2016 | FY 2017 | FY 2018 Target | $\begin{array}{\|l} \hline \text { FY } 2018 \\ \text { YTD } \end{array}$ | FYTD <br> Status | Jul Month | Aug Month | Sep Month |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Systemwide |  |  |  |  |  |  |  |  |  |
| On-Time Pullouts | 99.67\% | 99.63\% | 99.61\% | 99.50\% | 99.68\% | $\bigcirc$ | 99.77\% | 99.81\% | 99.45\% |
| Mean Miles Between Chargeable Mechanical Failures | 34,524 | 30,482 | 29,711 | 32,550 | 23,935 | $\bigcirc$ | 29,212 | 21,617 | 22,339 |
| In-Service On-time Performance | 98.39\% | 98.10\% | 98.24\% | 98.99\% | 98.47\% | $\bigcirc$ | 98.78\% | 98.46\% | 98.17\% |
| Service Delivery Ratio | 99.35\% | 99.22\% | 99.23\% | 99.00\% | 99.24\% | $\bigcirc$ | 99.29\% | 99.14\% | 99.30\% |
| Traffic Accidents Per 100,000 Train Miles | 1.18 | 1.17 | 1.01 | 1.01 | 1.02 | $\bigcirc$ | 0.80 | 1.17 | 1.09 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.43 | 0.60 | 0.36 | 0.37 | 0.58 | $\bigcirc$ | 0.40 | 0.65 | 0.68 |
| Passenger Accidents per 100,000 Boardings | 0.013 | 0.016 | 0.023 | 0.010 | 0.025 | $\bigcirc$ | 0.032 | 0.020 | 0.022 |
| Complaints per 100,000 Boardings | 0.78 | 1.43 | 1.98 | 1.10 | 1.78 | $\bigcirc$ | 1.56 | 1.78 | 2.02 |
| New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours ${ }^{1,2}$ | 11.11 | 10.97 | 12.27 | 10.42 | 11.38 | $\bigcirc$ | 14.20 | 9.39 | 10.74 |
| Lost Work Days per 200,000 Exposure Hours ${ }^{1,2}$ | 880 | 482 | 733 | 450.00 | 774 | $\bigcirc$ | 717 | 828 |  |
| OSHA Injuries per 200,000 Exposure Hours ${ }^{1,2}$ | 6.68 | 6.32 | 8.53 | 6.00 | 4.88 | $\bigcirc$ | 5.07 | 4.70 |  |
|  |  |  |  |  |  |  |  |  |  |
| Wayside |  |  |  |  |  |  |  |  |  |
| Overdue Work Orders (Non-PMP) - Aging of Outstanding Work Orders | 96 | 472 | 1,319 | N/A | 1,456 | N/A | 255 | 408 | 79 |
| Past-Due Preventive Maintenance - Aging of Outstanding Work Orders | 1 | 14 | 144 | N/A | 178 | N/A | 58 | 23 | 97 |
| \% of Completed Inspections | 99.51\% | 99.57\% | 99.72\% | N/A | 99.72\% | N/A | 100.00\% | 99.71\% | 99.46\% |
| New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours | 9.07 | 4.77 | 5.35 | 4.53 | 5.48 | $\bigcirc$ | 12.78 | 0.00 | 4.1 |
| Lost Work Days per 200,000 Exposure Hours ${ }^{1}$ | 309 | 148 | 194 | 138 | 325 | $\bigcirc$ | 354 | 299 |  |
| OSHA Injuries per 200,000 Exposure Hours ${ }^{1}$ | 8.28 | 4.40 | 4.01 | 4.18 | 4.09 | $\bigcirc$ | 8.52 | 0.00 |  |
|  |  |  |  |  |  |  |  |  |  |
| Blue Line |  |  |  |  |  |  |  |  |  |
| On-Time Pullouts | 99.41\% | 99.59\% | 99.60\% | 99.50\% | 99.12\% | $\bigcirc$ | 99.26\% | 99.72\% | 98.33\% |
| Mean Miles Between Chargeable Mechanical | 23,716 | 19,240 | 15,405 | 22,825 | 10,585 | $\bigcirc$ | 12,132 | 9,466 | 10,558 |
| In-Service On-time Performance | 97.28\% | 96.10\% | 96.44\% | 98.80\% | 96.00\% | $\bigcirc$ | 97.18\% | 96.63\% | 94.11\% |
| Service Delivery Ratio | 98.88\% | 98.41\% | 98.54\% | 99.00\% | 98.24\% | $\bigcirc$ | 98.21\% | 98.06\% | 98.46\% |
| Traffic Accidents Per 100,000 Train Miles | 2.48 | 2.38 | 2.18 | 2.18 | 1.93 | $\bigcirc$ | 0.64 | 3.14 | 1.98 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.89 | 1.39 | 0.71 | 0.40 | 1.28 | $\bigcirc$ | 0.64 | 1.88 | 1.32 |
| Passenger Accidents per 100,000 Boardings | 0.034 | 0.016 | 0.046 | 0.010 | 0.072 | $\bigcirc$ | 0.056 | 0.102 | 0.055 |
| Complaints per 100,000 Boardings | 0.90 | 1.33 | 1.67 | 1.07 | 2.29 | $\bigcirc$ | 1.51 | 2.51 | 2.81 |
| New Workers' Compensation Indemnity Claims per | 15.10 | 15.08 | 16.74 | 10.42 | 17.33 | $\bigcirc$ | 27.07 | 10.06 | 15.50 |
| Lost Work Days per 200,000 Exposure Hours ${ }^{1}$ | 1,622 | 797 | 836 | 450 | 820 | $\bigcirc$ | 756 | 879 |  |
| OSHA Injuries per 200,000 Exposure Hours ${ }^{1}$ | 10.64 | 6.79 | 10.40 | 6.00 | 2.61 | $\bigcirc$ | 5.41 | 0.00 |  |

[^0]| Measurement | FY 2015 | FY 2016 | FY 2017 | FY 2018 <br> Target | $\begin{array}{\|c\|} \hline \text { FY } 2018 \\ \text { YTD } \\ \hline \end{array}$ | FYTD <br> Status | Jul Month | Aug Month | Sep Month |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Red Line |  |  |  |  |  |  |  |  |  |
| On-Time Pullouts | 99.91\% | 99.79\% | 99.95\% | 99.50\% | 99.86\% | $\bigcirc$ | 100.00\% | 99.80\% | 99.79\% |
| Mean Miles Between Chargeable Mechanical | 85,090 | 94,312 | 104,637 | 131,376 | 59,068 | $\bigcirc$ | 85,664 | 49,953 | 52,087 |
| In-Service On-time Performance | 99.13\% | 99.45\% | 99.39\% | 99.50\% | 99.29\% | $\bigcirc$ | 99.45\% | 99.09\% | 99.33\% |
| Service Delivery Ratio | 99.60\% | 99.71\% | 99.72\% | 100.00\% | 99.65\% | $\bigcirc$ | 99.65\% | 99.63\% | 99.67\% |
| Traffic Accidents Per 100,000 Train Miles | 0.47 | 0.75 | 0.57 | 0.57 | 0.57 | $\bigcirc$ | 0.85 | 0.00 | 0.88 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.07 | 0.07 | 0.14 | 0.21 | 0.29 | $\bigcirc$ | 0.00 | 0.00 | 0.88 |
| Passenger Accidents per 100,000 Boardings | 0.002 | 0.002 | 0.004 | 0.000 | 0.000 | $\bigcirc$ | 0.000 | 0.000 | 0.000 |
| Complaints per 100,000 Boardings | 0.54 | 0.57 | 1.19 | 0.55 | 1.19 | $\bigcirc$ | 1.22 | 1.23 | 1.11 |
| New Workers' Compensation Indemnity Claims per | 6.20 | 16.43 | 12.68 | 10.42 | 9.37 | $\bigcirc$ | 0.00 | 21.29 | 5.49 |
| *Lost Work Days per 200,000 Exposure Hours | 649 | 526 | 992 | 450 | 1,273 | $\bigcirc$ | 902 | 1,597 |  |
| *OSHA Injuries per 200,000 Exposure Hours | 3.54 | 7.99 | 7.52 | 6.00 | 5.69 | - | 0.00 | 10.65 |  |


| Green Line | 99.32\% | 99.49\% | 99.69\% | 99.50\% | 99.76\% | O | 100.00\% | 99.31\% | 100.00\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| On-Time Pullouts |  |  |  |  |  |  |  |  |  |
| Mean Miles Between Chargeable Mechanical Failures | 21,054 | 19,238 | 16,375 | 23,220 | 19,633 | $\bigcirc$ | 37,988 | 23,631 | 11,733 |
| In-Service On-time Performance | 97.39\% | 98.52\% | 98.69\% | 98.80\% | 99.18\% | $\bigcirc$ | 99.50\% | 98.83\% | 99.21\% |
| Service Delivery Ratio | 99.50\% | 99.59\% | 99.61\% | 99.00\% | 99.74\% | $\bigcirc$ | 99.78\% | 99.74\% | 99.68\% |
| Traffic Accidents Per 100,000 Train Miles | 0.21 | 0.42 | 0.48 | 0.48 | 0.82 | $\bigcirc$ | 0.82 | 0.80 | 0.83 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.07 | 0.07 | 0.07 | 0.40 | 0.00 | $\bigcirc$ | 0.00 | 0.00 | 0.00 |
| Passenger Accidents per 100,000 Boardings | 0.024 | 0.034 | 0.048 | 0.010 | 0.000 | $\bigcirc$ | 0.000 | 0.000 | 0.000 |
| Complaints per 100,000 Boardings | 0.89 | 1.54 | 2.08 | 1.27 | 1.93 | $\bigcirc$ | 1.25 | 2.20 | 2.30 |
| New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours | 7.32 | 7.18 | 9.14 | 10.42 | 13.07 | $\bigcirc$ | 9.91 | 9.69 | 19.60 |
| *Lost Work Days per 200,000 Exposure Hours | 479 | 228 | 712 | 450 | 922 | $\bigcirc$ | 899 | 945 |  |
| *OSHA Injuries per 200,000 Exposure Hours | 4.07 | 3.19 | 6.65 | 6.00 | 4.90 | $\bigcirc$ | 0.00 | 9.69 |  |


| Gold Line |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| On-Time Pullouts | 99.98\% | 99.68\% | 99.82\% | 99.50\% | 100.00\% | O | 100.00\% | 100.00\% | 100.00\% |
| Mean Miles Between Chargeable Mechanical Failures | 44,171 | 40,426 | 38,427 | 60,252 | 35,824 | $\bigcirc$ | 33,561 | 30,787 | 47,052 |
| In-Service On-time Performance | 98.56\% | 97.60\% | 97.61\% | 98.80\% | 98.98\% | $\bigcirc$ | 98.70\% | 99.13\% | 99.10\% |
| Service Delivery Ratio | 99.34\% | 99.11\% | 98.88\% | 99.00\% | 99.27\% | $\bigcirc$ | 99.27\% | 99.26\% | 99.27\% |
| Traffic Accidents Per 100,000 Train Miles | 1.14 | 0.99 | 0.61 | 0.61 | 0.58 | $\bigcirc$ | 0.44 | 0.42 | 0.88 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.30 | 0.60 | 0.25 | 0.40 | 0.29 | $\bigcirc$ | 0.00 | 0.42 | 0.44 |
| Passenger Accidents per 100,000 Boardings | 0.007 | 0.039 | 0.030 | 0.010 | 0.071 | $\bigcirc$ | 0.143 | 0.000 | 0.075 |
| Complaints per 100,000 Boardings | 1.01 | 2.73 | 2.78 | 2.22 | 1.90 | $\bigcirc$ | 1.79 | 1.57 | 2.38 |
| New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours | 15.96 | 11.87 | 14.31 | 10.42 | 15.11 | $\bigcirc$ | 17.40 | 10.97 | 17.17 |
| *Lost Work Days per 200,000 Exposure Hours | 1,068 | 766 | 1,055 | 450 | 838 | O | 863 | 815 |  |
| *OSHA Injuries per 200,000 Exposure Hours | 3.83 | 9.29 | 9.69 | 6.00 | 8.46 | $\bigcirc$ | 5.80 | 10.97 |  |


| Expo Line |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| On-Time Pullouts | - | 99.53\% | 98.76\% | 99.50\% | 99.70\% | $\bigcirc$ | 99.70\% | 100.00\% | 99.34\% |
| Mean Miles Between Chargeable Mechanical Failures | - | 18,114 | 33,402 | 22,825 | 29,599 | $\bigcirc$ | 36,414 | 25,087 | 29,559 |
| In-Service On-time Performance | 99.14\% | 98.61\% | 98.48\% | 98.80\% | 98.75\% | $\bigcirc$ | 98.94\% | 98.45\% | 98.88\% |
| Service Delivery Ratio | 99.64\% | 99.56\% | 99.46\% | 99.00\% | 99.46\% | $\bigcirc$ | 99.66\% | 99.22\% | 99.52\% |
| Traffic Accidents Per 100,000 Train Miles | 1.02 | 0.74 | 1.26 | 1.26 | 1.33 | $\bigcirc$ | 1.59 | 1.55 | 0.83 |
| CPUC Reportable Accidents per 100,000 Train Miles | 1.02 | 0.50 | 0.63 | 0.40 | 1.07 | $\bigcirc$ | 1.59 | 0.78 | 0.83 |
| Passenger Accidents per 100,000 Boardings | 0.000 | 0.019 | 0.018 | 0.010 | 0.000 | - | 0.000 | 0.000 | 0.000 |
| Complaints per 100,000 Boardings | 1.12 | 3.38 | 3.68 | 1.83 | 2.42 | $\bigcirc$ | 2.32 | 2.21 | 2.75 |
| New Workers' Compensation Indemnity Claims per | 24.97 | 8.44 | 19.26 | 10.42 | 10.03 | $\bigcirc$ | 15.44 | 7.22 | 7.64 |
| *Lost Work Days per 200,000 Exposure Hours | 937 | 73 | 887 | 450 | 674 | $\bigcirc$ | 748 | 605 |  |
| *OSHA Injuries per 200,000 Exposure Hours | - | 5.63 | 16.60 | 6.00 | 3.73 | $\bigcirc$ | 7.72 | - |  |

[^1]
## METRO RAIL PERFORMANCE - SEPTEMBER 2017

## Rail Performance by Vehicle Type

Rail Mean Vehicle Miles Between Major Failure by Vehicle Type
Metro
Heavy Rail - Breda


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.



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

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


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

## (11) <br> Metro

## Percentage Change in Rail MMBMF by Vehicle Type <br> Light Rail - KinkiSharyo




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

| Percentage Change in Rail MMBMF by Vehicle Type |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Metro Light Rail - NipponSharyo |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 500.0\% |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $400.0 \%$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Sep-16 | Oct-16 | Nov-16 | Dec-16 | Jan-17 | Feb-17 | Mar-17 | Apr-17 | May-17 | Jun-17 | Jul-17 | Aug-17 | Sep-17 |
| - Nippon Sharyo 2020 - DC | 25.4\% | -10.3\% | 25.1\% | -46.3\% | 47.1\% | 131.9\% | -33.0\% | -3.9\% | -15.2\% | -25.9\% | 143.6\% | -57.5\% | 17.3\% |
| ——Nippon Sharyo 865 - DC | 8.9\% | 10.8\% | 34.7\% | -50.2\% | 13.2\% | -14.1\% | -5.3\% | 41.7\% | 4.5\% | 33.7\% | -28.4\% | -51.0\% | 28.3\% |

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.

## Mean Miles Beween Major Failures

|  | FY 2017 | FY 2018 <br> Goal | FY 2018 <br> YTD |
| :--- | ---: | ---: | ---: |
| AnsaldoBreda2550Base - AC | 41,528 | 44,517 | 51,977 |
| Breda 650 Base - DC | 47,876 | 53,185 | 68,962 |
| Breda 650 Option - AC | 115,753 | 126,708 | 125,441 |
| Kinkisharyo P3010 | 19,068 | 20,072 | 35,793 |
| Nippon Sharyo 2020 - DC | 29,724 | 31,214 | 19,963 |
| Nippon Sharyo 865 - DC | 22,695 | 26,062 | 25,231 |
| Siemens 2000 Base - AC | 19,713 | 20,778 | 16,722 |
| Siemens 2000 GE/ATP - AC | 10,920 | 13,620 | 6,298 |

## Rail Fleet Distribution - SEPTEMBER 2017

| 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 |  | 70 |  |  |  |
| KinkiSharyo P3010 | 30 |  | 2 | 15 | 41 |
| Nippon Sharyo 2020 - DC | 8 |  |  |  | 7 |
| Nippon Sharyo 865 - DC | 39 |  |  |  | 8 |
| Siemens 2000 Base - AC |  |  | 28 |  |  |
| Siemens 2000 GE/ATP - AC | 22 |  |  |  |  |
| TOTALS | $\mathbf{9 9}$ | $\mathbf{1 0 0}$ | $\mathbf{3 0}$ | $\mathbf{6 5}$ | $\mathbf{5 6}$ |


| Blue |  |  |  |
| :---: | :---: | :---: | :---: |
| Day Type | Vehicles <br> Required | Average Available | Average \% Available |
| Weekday | 71 | 71 | 101\% |
| Weekend | 26 | 55 | 213\% |
| Red/ Purple |  |  |  |
| Day Type | Vehicles <br> Required | Average Available | Average \% Available |
| Weekday | 63 | 71 | 112\% |
| Weekend | 40 | 63 | 157\% |
| Green |  |  |  |
| Day Type | Vehicles <br> Required | Average Available | Average \% Available |
| Weekday | 22 | 23 | 106\% |
| Weekend | 14 | 18 | 129\% |
| Gold |  |  |  |
| Day Type | Vehicles <br> Required | Average Available | Average \% Available |
| Weekday | 50 | 53 | 107\% |
| Weekend | 28 | 40 | 143\% |
| Expo |  |  |  |
| Day Type | Vehicles Required | Average Available | Average \% Available |
| Weekday | 42 | 42 | 101\% |
| Weekend | 30 | 42 | 141\% |



## Cleanliness by Vehicle Type

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 - 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
Blue, Red/Purple, Green, Gold \& Expo Line WC



## 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 2017 - Sep 2017
3 Month Comparison


## Lost Work Days and OSHA Injuries

Jun 2017 - Aug 2017
3 Month Comparison



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

Systemwide Vertical Transportation Availability by Line


Note: No Escalators at Blue and Expo Lines

## BLUE LINE

Out of a total of 20,374 hours operated, there were approximately 314 total hours of service delays.

| September 2017 Service Hours | Revenue Hours | Percent |
| :---: | :---: | :---: |
| Revenue Hours without Delays | 20,060 | 98.5\% |
| Cancelled + Delayed Hours | 314 | 1.5\% |
| Total Revenue Hours | 20,374 | 100.0\% |


| Summary of the major contributors: | Count | Hours | Percent |
| :---: | :---: | :---: | :---: |
| Operations | 4 | 0.7 | 0.2\% |
| Accidents | 2 | 33.3 | 10.6\% |
| Vehicle Maintenance | 58 | 143.4 | 45.7\% |
| Wayside | 5 | 7.0 | 2.2\% |
| Police \& Health | 22 | 129.4 | 41.2\% |
| Other | 1 | 0.3 | 0.1\% |
| Total | 92 | 314.1 | 100.0\% |

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



## September 2017 Blue Line major delay contributors were as follows:

```
Operations Incidents:
9/15/2017 12:44:00 AM - Incident# 2911317 (0 lost trips, 6 lost minutes)
Passenger holding door
Compton Station
9/22/2017 2:57:00 PM - Incident# 2914207 (0 lost trips, 10 lost minutes)
Train 121 Late Pull Out
9/25/2017 1:15:00 PM - Incident# 2915052 (0 lost trips, }10\mathrm{ lost minutes)
Due to Single Tracking with a 12 minute headway from Mainyard to Willow Interlocking, Blue Line delays ranging from 5-15 minutes.
North and South.
9/25/2017 2:00:00 PM - Incident# 2915078 (0 lost trips, }18\mathrm{ lost minutes)
Operator Late (Single Tracking).
Train }10
T-005
234-244-238
Northbound, Transit Mall Track 1.
Accidents:
9/18/2017 1:42:00 AM - Incident# 2912143 (1 lost trip, 168 lost minutes)
Train 110, car 108A operated by T-490 reports 10-73 with automobile due to illegal left turn at 4th Street and Long Beach.
T-490
TRAIN#110
Cars(108A)-126
Southbound Trk#2
4th/ Long Beach
9/29/2017 8:52:00 AM - Incident# 2916759 (11 lost trips, 1,828 lost minutes)
Train }103\mathrm{ reports accident 10-72
T-115, Train }11
Track 1, Wardlow, North
(1069)-1067-1072
Vehicle Maintenance Incidents:
9/1/2017 8:01:00 PM - Incident\# 2906120 (1 lost trip, 166 lost minutes)
Loud noise and vibration under the train
Train \# 106
T-353
144-114-103
SB, Firestone Station, Track \#2
9/2/2017 7:24:00 AM - Incident\# 2906211 (1 lost trip, 163 lost minutes)
Propulsion fault on LRV 141A Speed Restriction.
Train 101
T-335
Pico Station Trk 1 S/B
9/2/2017 7:16:00 PM - Incident\# 2906386 (0 lost trips, 5 lost minutes)
Train-111
T-326
Cars (1082)-1078-1068
Southbound, Track \#2
Washington Station
Propulsion / Dynamic Brakes unable to clear.
```

9/3/2017 4:22:00 AM - Incident\# 2906433 (0 lost trips, 12 lost minutes)
Operator reports of no movement.
Train 103
T-050
(246)241-231

Del Amo station, Trk. 1, northbound
9/3/2017 4:29:00 AM - Incident\# 2908930 (0 lost trips, 8 lost minutes)
Propulsion Faults
Train 104
T-522
(229)-237-302

Willow Station N/B Trk 1
+8 minute delay
9/3/2017 4:48:00 AM - Incident\# 2908941 (0 lost trips, 14 lost minutes)
Friction Brake Fault No Movement
Train 102
T-400
(122)-120-167

T-Mall Trk 1 N/B
+14 Service delay

9/3/2017 4:48:00 AM - Incident\# 2906434 (0 lost trips, 14 lost minutes)
Operator reports of no movement.
Train 103
T-050
(246)241-231

Del Amo station, Trk. 1, northbound
9/3/2017 3:50:00 PM - Incident\# 2906599 (1 lost trip, 137 lost minutes)
Propulsion fault unable to clear. 149A-160
T-308
Train 103
Track 1
Northbound
Compton station
9/3/2017 10:01:00 PM - Incident\# 2906656 (2 lost trips, 275 lost minutes)
Propulsion fualt no movement. 245-248
T-237
Train 110
Track 1
Northbound
Myrrh xing

9/5/2017 6:41:00 AM - Incident\# 2907034 (0 lost trips, 5 lost minutes)
Train 117 pull-out 6 minutes late due to a yard beak down.
9/5/2017 4:17:00 PM - Incident\# 2907346 (1 lost trip, 176 lost minutes)
No Fault - No Movement
Train 124
T-549
(1074)-1075-1064

Southbound, Track 2 7th and Metro Center.

9/6/2017 7:05:00 AM - Incident\# 2907589 (0 lost trips, 14 lost minutes)
No Fault - No Movement
(1074A)-1075-1064
Train 117
T-115
Firestone, Northbound, Track 1
9/7/2017 4:52:00 AM - Incident\# 2908005 (2 lost trips, 336 lost minutes)
Propulsion fault
Train \#101 T-182 car\#156B-162-152
southbound at Grand station.

9/7/2017 5:04:00 AM - Incident\# 2908007 (1 lost trip, 168 lost minutes)
propulsion fault no movement
Train \#605 T-026 car \#1070-1072-1064
Main Yard northbound lost trip northbound.

9/9/2017 12:56:00 PM - Incident\# 2909088 (1 lost trip, 174 lost minutes)
Operator states that there is no power to his train
Train 106
T-233
LRV'S 1060-1063-1074
Mainyard Interlocking, track 2, southbound.
9/10/2017 8:18:00 PM - Incident\# 2909420 (0 lost trips, 13 lost minutes) (237)-231

Propulsion Fault w/ Speed Restriction
NB Wardlow Station
T-353
Train 104

9/10/2017 8:44:00 PM - Incident\# 2910257 (1 lost trip, 161 lost minutes)
Propulsion / Dynamic Brakes
Train 104
T-353
(237)-231

Northbound, Track 1 Wardlow station.

9/11/2017 8:10:00 AM - Incident\# 2909637 (0 lost trips, 21 lost minutes)
Train Delay due mechanical issues, clearable by vehicle tech M-158.
9/11/2017 11:50:00 AM - Incident\# 2909757 (0 lost trips, 10 lost minutes)
Train Delay due to mechanical issues, doors 5/6 Car 139B cut out

9/12/2017 8:25:00 AM - Incident\# 2910186 (0 lost trips, 12 lost minutes)
Propulsion / Dynamic Brakes (E7 Codes)
106-110-(148)
Train 105
T-37
Imperia, Northbound, Track 1
9/13/2017 6:58:00 AM - Incident\# 2910545 (1 lost trip, 168 lost minutes)
Train 113 T-37 with operating car 234246236 reports propulsion faults at Firestone station on track 2.
9/13/2017 4:08:00 PM - Incident\# 2910806 (1 lost trip, 168 lost minutes)
Friction Brakes (Smell of breaks).
Train 106
T-34
(126A)-165-117
Southbound, Track 2 at Florence station.

9/14/2017 5:05:00 PM - Incident\# 2911240 (1 lost trip, 168 lost minutes) Possible part fell off consist (138)(166)(130).
Imperial Station
Train \#119, T-43, track \#2, southbound.
9/14/2017 5:22:00 PM - Incident\# 2911243 (1 lost trip, 168 lost minutes)
Propulsion fault (127A)108, 122.
Compton Station
Train \#120, T-487, track \#1, northbound

9/14/2017 9:04:00 PM - Incident\# 2911286 (0 lost trips, 10 lost minutes)
Train Operator reported loud noises coming from under the Train.
Train 103
T-326
(148)-162

Del Amo Station Northbound Track \#1.

9/15/2017 5:01:00 AM - Incident\# 2911343 (0 lost trips, 10 lost minutes)
Friction Brakes
Train 101
T-182
(109A)-112-118
Flower Junction, Track 2, Southbound

9/16/2017 7:55:00 AM - Incident\# 2911793 (0 lost trips, 6 lost minutes)
Re occurrent propulsion on LRV 117B
Train 109
T-069
LRV'S (117B) 130-166
Artesia Station , track 1, northbound.

9/16/2017 8:23:00 AM - Incident\# 2911803 (0 lost trips, 5 lost minutes) BO headlights LRV 1065B
Train 102
T-281
LRV'S ( 1065B ) 1061-1078
Washington Station, track 2 , southbound.
9/16/2017 8:45:00 AM - Incident\# 2911799 (0 lost trips, 6 lost minutes)
Train 101 reporting propulsion faults on LRV 114
T-034
LRV'S 131-(114) 159
Willowbrook station, track 1 northbound.
9/18/2017 6:52:00 PM - Incident\# 2912539 (3 lost trips, 509 lost minutes)
(247B)-240-245
Misaligned Doors
SB Grand
Train 107
T-487

9/19/2017 6:01:00 AM - Incident\# 2912699 (1 lost trip, 174 lost minutes)
Friction Brakes
(238)233-234

Train 114
T-164
Willow, Track 1, Northbound
9/19/2017 1:32:00 PM - Incident\# 2912843 (0 lost trips, 16 lost minutes)
No Fault - No Movement
158-123-136
Train 656
T-252
Pico, Southbound, Track 2
9/20/2017 2:58:00 PM - Incident\# 2913364 (1 lost trip, 168 lost minutes)
Train 121 had door issue upon pulling out the yard NB at Del Amo.
Train 121
T-82
Tk 1 NB Del Amo
301-245-247

9/20/2017 9:35:00 PM - Incident\# 2913459 (2 lost trips, 336 lost minutes)
Doors are not opening with use of (open Doors) push button. The whole consist.
Train 118
T-78
Track 1, N/B
Del Amao Station
(1070A)-1020-1088

9/21/2017 5:37:00 AM - Incident\# 2913536 (0 lost trips, 6 lost minutes)
Propulsion / Dynamic Brakes
(112)-122-165

Train 113
T-37
Yard, Southbound, Departure Track

9/21/2017 6:14:00 AM - Incident\# 2913556 (1 lost trip, 168 lost minutes)
Propulsion / Dynamic Brakes
(301A)-239-246
Train 114
T-376
Compton, Northbound, Track 1
9/21/2017 8:00:00 AM - Incident\# 2913723 (6 lost trips, 1,007 lost minutes) Other Vehicle System (Dynamic Brake Fault)
(234B)-233-237
Train 102
T-485
Wardlow, Southbound, Track 2
9/21/2017 8:04:00 AM - Incident\# 2914140 (0 lost trips, 10 lost minutes)
Propulsion / Dynamic Brakes
T-262
Train 113
LRV 242-238-229
Willow Station, Trackn 1, northbound.

9/21/2017 8:35:00 AM - Incident\# 2913619 (6 lost trips, 1,007 lost minutes)
Friction Brakes
(235A)-236-230
Train 119
T-125
Rosecrans Flyover, Southbound, Track 2
9/21/2017 3:55:00 PM - Incident\# 2913792 (0 lost trips, 6 lost minutes)
Out Late
Train 126
T-075
236-(229)-234
Yard Limits division 11.

9/22/2017 4:18:00 AM - Incident\# 2913963 (0 lost trips, 6 lost minutes)
Loss of Cab Signal Intermettently
Train 101
T-152
(1061A)-1062-1066
Slauson Station, Track 2, Northbound

9/23/2017 12:46:00 PM - Incident\# 2914471 (0 lost trips, 8 lost minutes) Train 111 reporting loss of Cab Signals departing 7th \& Metro.
Train 111
T-259
LRV'S (302A) 238
7th \& Metro, track 2, southbound.
9/25/2017 3:18:00 PM - Incident\# 2915097 (1 lost trip, 168 lost minutes)
Propulsion / Dynamic Brakes
Train 119
T-042
(229)-302-242

Southbound, Track 2 Del Amo station.

9/25/2017 9:04:00 PM - Incident\# 2915212 (1 lost trip, 176 lost minutes)
Doors
Train 107
T-413
250-246-(248)
Southbound, Track 2 Grand station.

No Fault - No Movement
Train 605
T-043
1075-1062-1066
Southbound, Track 2 119th crossing.
9/26/2017 6:10:00 AM - Incident\# 2915298 (1 lost trip, 175 lost minutes)
Train 604 reports no movement Friction Brakes not releasing.
Train 604
LRV'S 135-141-153
Del Amo Station, Track 1, northbound.
Auto Train Protection (Speed Limit)
Train 121
T-043
(1074)-1066-1062
9/27/2017 8:19:00 AM - Incident\# 2915818 (2 lost trips, 336 lost minutes)
Propulsion / Dynamic Brakes/HSCB trip
Train 111
T-36
LRV (166A),153,141
Del Amo Station,Track 1
Northbound
9/27/2017 4:10:00 PM - Incident\# 2916022 (1 lost trip, 168 lost minutes)
B/O Doors 7/8
Train 117
Car 248
Pico Station
Southbound
9/27/2017 5:55:00 PM - Incident\# 2916072 (1 lost trip, 168 lost minutes)
Propulsion faults
Train 125
Car 112
T-187
Wardlow Station
Northbound
9/28/2017 4:43:00 AM - Incident\# 2916166 (2 lost trips, 336 lost minutes)
Train 103 reports reoccuring Propulsion Faults on LRV 106
Train
LRV'S 138 ( 106 ) 110
Transit Mall, track 1, Northbound.

9/28/2017 5:10:00 AM - Incident\# 2916225 (0 lost trips, 20 lost minutes) Train 604 reports that train will not move at more than 35 mph , no other indications Train 604
T-005
LRV'S 1090-1070-1065

9/28/2017 8:45:00 AM - Incident\# 2916296 (2 lost trips, 336 lost minutes)
Train 114 reports that speed can not exceed 35 mph on LRV 1090. LRV 1070 Smoking Brakes.

Train 114

Compton Station, track 1, northbound.

9/28/2017 9:18:00 AM - Incident\# 2916421 (1 lost trip, 168 lost minutes)
Train 105 contacted control that doors will not open at Slauson Station track 2.

Train 105
T-076
LRV'S 1066-1062-1077
Slauson Station, track 2, southbound.
9/29/2017 3:51:00 AM - Incident\# 2916657 (0 lost trips, 12 lost minutes)
Prop/Fault.
Train \#102.
T-246.
LRV- (124), 140, 110.
4N Mainyard, Northbound.
9/29/2017 4:52:00 AM - Incident\# 2916671 (0 lost trips, 11 lost minutes)
No Indication/ No Movement.
Train \#107.
T-069.
LRV- 1066, 1062, 1077.
3N Mainyard, Northbound for Imperial Turn- Back.

9/29/2017 3:28:00 PM - Incident\# 2916918 (1 lost trip, 166 lost minutes) HSCB trip 235(250)234.
Metro Center
Train \#104, T-005, track \#2, southbound.
9/29/2017 3:47:00 PM - Incident\# 2916930 (0 lost trips, 6 lost minutes)
Friction brakes feel slack (301)233,231.
Washington Station
Train \#121, T-353, track \#2, southbound.

Wayside Incidents:
9/1/2017 4:50:00 PM - Incident\# 2906071 (0 lost trips, 50 lost minutes)
False Occupancy from Compton to Willow.
9/8/2017 9:41:00 AM - Incident\# 2908623 (0 lost trips, 12 lost minutes)
False Occupancy from Compton-Artesia

9/18/2017 3:37:00 PM - Incident\# 2912508 (0 lost trips, 15 lost minutes)
Train 121 Delayed
9/19/2017 4:14:00 AM - Incident\# 2912622 (2 lost trips, 336 lost minutes)
Traction Power: Other
Willow Pocket graphics give apperance of de-engerized tracks, Wardlow TPSS is back feeding Willow Pocket.
9/21/2017 2:45:00 PM - Incident\# 2913761 (0 lost trips, 6 lost minutes) OUT LATE! due to open breaker.

Police \& Health Incidents:
9/1/2017 12:53:00 PM - Incident\# 2905928 (6 lost trips, 997 lost minutes)
Stabbing on train \# 103 at Anaheim Station.
Train \# 103
T-548
Anaheim, track \#1, northbound
108210701078

9/2/2017 10:34:00 PM - Incident\# 2906408 (0 lost trips, 15 lost minutes)
Train-104
T-149
Cars (301)-248-245
Northbound, Track \#1
Imperial Station
Altercation aboard train, LASD reports a fight aboard the train.

9/4/2017 1:02:00 PM - Incident\# 2906782 (0 lost trips, 10 lost minutes) Traffic Accident MTA Not Involved at Washington and Naomi Track 2

9/5/2017 10:59:00 AM - Incident\# 2907181 (0 lost trips, 22 lost minutes)
Vehicle with broken Axle blocking track at 119th Street crossing.

9/5/2017 11:00:00 AM - Incident\# 2907223 (0 lost trips, 6 lost minutes)
Train 105 reports a Sick patron on board at Metro Center
9/5/2017 10:21:00 PM - Incident\# 2907447 (0 lost trips, 20 lost minutes)
Sick individual
Train 101
T-376
Cars 117-(119)
WillowbrooK station N/B

9/6/2017 9:14:00 AM - Incident\# 2907680 (23 lost trips, 3,859 lost minutes)
Stabbing adjcent to Pico Station

9/6/2017 3:10:00 PM - Incident\# 2907829 (0 lost trips, 8 lost minutes)
Train-107
T-355
Cars (100)-143-113
Southbound Track \#2
Imperial Station
Sick Individual reported on approach to 103rd Station.

9/7/2017 1:00:00 PM - Incident\# 2908231 (1 lost trip, 180 lost minutes)
Traffic accident at 5th Street and Long Beach, MTA not involved.
Train \# 119
T-355
5th Street Station, track \#1, southbound
107510861077
9/7/2017 4:05:00 PM - Incident\# 2908302 (1 lost trip, 174 lost minutes)
Long Beach PD notified CCTV to hold train \# 108 at Warlow Station for (4) juveniles of an (alledged) robbery at Transit Mall. Train departed prior to hold, proceeding to Del Amo Station.
Train \#108
Del Amo Station, track \#1, northbound
169168162

9/7/2017 4:41:00 PM - Incident\# 2908319 (6 lost trips, 1,007 lost minutes)
Blockade at Pacific and 3rd in Long Beach.

## 9/8/2017 7:10:00 AM - Incident\# 2908550 (0 lost trips, 5 lost minutes)

Train 109 arrived Transit Mall Station 5 minutes late due to a tractor trailer blocking intersection of long beach and broadway.
9/9/2017 5:07:00 AM - Incident\# 2908973 (0 lost trips, 4 lost minutes)
R-105 reports a sick patron on board train 103, platform number 2.

9/9/2017 7:32:00 PM - Incident\# 2909171 (0 lost trips, 7 lost minutes)
Train-103
T-490
Cars (237A)-231-235
Southbound Track \#2
Transit Mall
Emergency: Operator reports Patron lying on the floor in the floor in car 237, non responsive and requested medical.

9/11/2017 2:45:00 PM - Incident\# 2909834 (0 lost trips, 14 lost minutes)
Trespasser
Train 102
T-05
139-111-140
Nouthbound, Track 2 119th crossing.
9/13/2017 5:34:00 AM - Incident\# 2910494 (6 lost trips, 1,026 lost minutes)
Train service suspended between Grand and San Pedro stations due to armed/ Barricaded individual at Washington /Santee. Per LAPD
Lt. Humphries.

9/15/2017 4:15:00 PM - Incident\# 2912533 (2 lost trips, 344 lost minutes)
Physical Altercation On Board Train
Train 107, T-355
Cars 136-113-116
Willowbrook Station, SB, Trk 2

9/16/2017 11:08:00 PM - Incident\# 2911947 (0 lost trips, 15 lost minutes)
Male Individual fell onto tracks
PCH Station
LBPD
LBFD
Dispatch \#7389
No information was obtained from individual

9/16/2017 11:46:00 PM - Incident\# 2911949 (0 lost trips, 15 lost minutes)
Car blocking Track 1
Flower Junction

9/17/2017 5:14:00 AM - Incident\# 2911979 (0 lost trips, 10 lost minutes)
Trespasser Sitting on Track 1
Willow Pocket Mile Marker 18.2

9/20/2017 2:40:00 PM - Incident\# 2913326 (0 lost trips, 12 lost minutes)
Train 101 reports a patron is having a seizure NB at San Pedro.

9/23/2017 11:03:00 AM - Incident\# 2914459 (0 lost trips, 12 lost minutes)

Train 105 reports that track 2 was blocked at Washington Blvd \& Naomi Street due to a traffic accident MTA not involved.

## Other Incidents:

9/3/2017 1:34:00 PM - Incident\# 2906550 (0 lost trips, 20 lost minutes)
Individual holding doors at Metro Center and then at Grand
Train 110
T259
1063A-1074
Track 2
Southbound
metro center and then Grand

MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS COMPLIANCE WITH SCHEDULED VEHICLE HOURS


COMPLIANCE WITH SCHEDULED TRAIN MILES


## ON-TIME PULL OUTS



IN-SERVICE ON-TIME PERFORMANCE CHART


LOST TRIPS


## LOST HOURS



## VERTICAL TRANSPORTATION AVAILABILITY



## RED LINE

Out of a total of 26,248 hours operated, there were approximately 86 total hours of service delays.

| Revenue <br> September 2017 Service Hours * |  |  | Hours | Percent |
| :--- | :---: | :---: | :---: | :---: |
| Revenue Hours without Delays |  |  |  |  |


| Summary of the major contributors: | Count | Hours | Percent |
| :---: | :---: | :---: | :---: |
| Operations | 1 | 0.1 | 0.1\% |
| Accidents | 1 | 27.4 | 32.0\% |
| Vehicle Maintenance | 13 | 33.2 | 38.7\% |
| Wayside | 4 | 10.8 | 12.6\% |
| Police \& Health | 8 | 13.7 | 16.0\% |
| Other | 2 | 0.4 | 0.5\% |
| Total | 29 | 85.7 | 100.0\% |

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



## September 2017 Red Line major delay contributors were as follows:

## Operations Incidents:

9/19/2017 6:04:00 PM - Incident\# 2912956 (0 lost trips, 5 lost minutes)
Union Station operator removed from service due to observing several mice inside the operators break room.

## Accidents:

9/12/2017 9:43:00 AM - Incident\# 2910138 (11 lost trips, 1,647 lost minutes)
Train vs. Trepasser
Train \#201
Train operator T-364
Cars (547), 548, 589,590
7th \& Metro, AR, Westbound
Vehicle Maintenance Incidents:
9/1/2017 7:43:00 AM - Incident\# 2905782 (0 lost trips, 10 lost minutes)
No movement at Westlake AL East
Train 211
T-276
Cars 565-566-547-(548)-591-592
Westlake MacArthur AL East

9/3/2017 7:08:00 PM - Incident\# 2906634 (2 lost trips, 232 lost minutes)
Off set wheels car \# 536
Union Station AL East
T-64 Train 202
Car \# 589-593-535-(536)

9/7/2017 3:26:00 PM - Incident\# 2908316 (1 lost trip, 190 lost minutes)
No Movement with no indications.
Train \#213
Cars \#(549)-550-565-566-581-582
W/Bound Vermont Santa Monica A/R Track.

9/10/2017 4:12:00 AM - Incident\# 2909224 (0 lost trips, 9 lost minutes)
Propulsion/Service Brake Failure train line, unknown car.
Train \# 202
T-10
Union Station, AR, westbound
(599 600563564535 536)

9/13/2017 4:52:00 AM - Incident\# 2910486 (0 lost trips, 11 lost minutes)
North Hollywood East IL(departing station), Train-210 T-101 cars 568/567/586/585/590/589 ATP failure with emergency brake applications on car 568.

9/13/2017 1:28:00 PM - Incident\# 2910731 (0 lost trips, 12 lost minutes)
Train 207 reports brakes will not release
T-378, Train 207
AL, East, UC
(586)-585-590-589

9/15/2017 6:29:00 AM - Incident\# 2911400 (1 lost trip, 151 lost minutes)
MTO Generator Breaker Tripped
Train 210
T-483
Cars 575-576-5597-598-565-(566)
Civic Center AL East

9/18/2017 9:59:00 AM - Incident\# 2912295 (0 lost trips, 11 lost minutes)
Emergency Brake Application
Train 204
T-080
Cars 523-528-515-(516)
North Hollywood AR East

9/18/2017 4:25:00 PM - Incident\# 2912506 (2 lost trips, 299 lost minutes)
CB1 Trip
Train 206
T-271
Cars 517-518-529)-520
Wilshire Western BR East

9/19/2017 1:25:00 PM - Incident\# 2912832 (0 lost trips, 5 lost minutes)
Service Brake Failure Indication.
Train \#203
T-022
Cars \#563-(564)-587-588.
W/Bound Union Station A/R Track.
9/25/2017 5:43:00 PM - Incident\# 2915175 (2 lost trips, 299 lost minutes)
Propulsion failure
Train 214
T-179
Cars 503-504-501-(502)-519-526
Universal City AL East

9/26/2017 8:26:00 AM - Incident\# 2915361 (3 lost trips, 464 lost minutes)
Westlake/MacArthur AL Track, Train-202 T-10 cars 508/509/510/507 experiencing door issues from car 510 and cut out whole car. NOTE: repeat offender two days in row with same RFS failure.

9/27/2017 5:16:00 AM - Incident\# 2915715 (2 lost trips, 299 lost minutes)
Union Station AR Track, Train-203 T-314 cars 515/516/501/502 with Emergency Brake Application and won't clear on car 515.

## Wayside Incidents:

9/4/2017 4:54:00 AM - Incident\# 2906690 (4 lost trips, 464 lost minutes)
DO1 breakers at Universal \& North Hollywood tripped causing a loss of power between Universal \& North Hollywood on the both tracks.

9/6/2017 1:00:00 AM - Incident\# 2907496 (0 lost trips, 25 lost minutes)
Unable to close D02 at Westlake.
9/20/2017 8:49:00 PM - Incident\# 2913451 (1 lost trip, 149 lost minutes)
W-004/Hayward Baker performing tunnel grouting with high rail vehicle.

9/22/2017 3:59:00 PM - Incident\# 2914229 (0 lost trips, 11 lost minutes)
TRACS indicates breakers opened with D01 in LKTRP.
Police \& Health Incidents:
9/2/2017 10:32:00 PM - Incident\# 2906159 (0 lost trips, 7 lost minutes)
T-199 on train 215 at Hollywood Western, train doors were being held open due to a male hispanic acting eratic. Train was also held at Hollywood Vine and Hollywood Highland. All revenue trains delayed and departing late.

9/9/2017 8:55:00 AM - Incident\# 2909028 (0 lost trips, 7 lost minutes)
Operator reports LAPD is holding train at 7th Metro for a passenger needs medical assistance, LAPD has already placed a call to LAFD. Unknown nature of emergency.

9/17/2017 12:34:00 PM - Incident\# 2912044 (0 lost trips, 12 lost minutes)
T-179 Train 207 trespasser in the cab of car570.
9/24/2017 12:58:00 PM - Incident\# 2914662 (0 lost trips, 8 lost minutes)
CCTV reports patron having a seizure on board train 202, car 572 at North Hollywood.
9/24/2017 2:04:00 PM - Incident\# 2914685 (3 lost trips, 467 lost minutes)
Male patron observed on the AR right of way between Pershing Square and 7th/Metro
9/27/2017 1:30:00 PM - Incident\# 2915952 (0 lost trips, 8 lost minutes) Patron slipped and fell on baoard Train 205 car 565.

9/28/2017 8:25:00 AM - Incident\# 2916288 (1 lost trip, 165 lost minutes)
Train 203 reports trespasser at Civic AL

9/28/2017 6:57:00 PM - Incident\# 2916579 (1 lost trip, 150 lost minutes)
Westlake Station male patron throwing debris onto the right of way.
Other Incidents:
9/21/2017 11:48:00 AM - Incident\# 2913698 (0 lost trips, 15 lost minutes)
SCADA/TRACS: ATC Alarm for de-energized track indication, loss of cab signals
Train 201 and train 205
Vermont Beverly AR track
Hollywood vine AR track

## 9/27/2017 5:01:00 PM - Incident\# 2916059 (0 lost trips, 10 lost minutes)

Reports patron refuse to exit train.
T-172
Train 215
Union Station, AL, Westbound
Cars: 553554577578 (539) 540

## MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

 COMPLIANCE WITH SCHEDULED VEHICLE HOURS

COMPLIANCE WITH SCHEDULED TRAIN MILES

Metro Red Line
Compliance with Scheduled Revenue Train Miles


## ON-TIME PULL OUTS



IN-SERVICE ON-TIME PERFORMANCE


LOST TRIPS


LOST TRIPS


## VERTICAL TRANSPORTATION AVAILABILITY




## GREEN LINE

Out of a total of 8,045 hours operated, there were approximately 26 total hours of service delays.

| Revenue <br> September 2017 Service Hours * <br> Revenue Hours without Delays$\quad 8,019$ | $99.7 \%$ |  |
| :--- | ---: | ---: |
| Cancelled + Delayed Hours | 26 | $0.3 \%$ |
| Total Revenue Hours | $\mathbf{8 , 0 4 5}$ | $\mathbf{1 0 0 . 0 \%}$ |


| Summary of the major contributors: | Count | Hours | Percent |
| :---: | :---: | :---: | :---: |
| Operations | 0 | 0.0 | 0.0\% |
| Accidents | 0 | 0.0 | 0.0\% |
| Vehicle Maintenance | 23 | 24.4 | 95.4\% |
| Wayside | 2 | 0.2 | 0.6\% |
| Police \& Health | 5 | 0.8 | 3.2\% |
| Other | 1 | 0.2 | 0.9\% |
| Total | 31 | 25.6 | 100.0\% |

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



## September 2017 Green Line major delay contributors were as follows:

Operations Incidents:
Vehicle Maintenance Incidents:
9/2/2017 1:01:00 PM - Incident\# 2906289 (1 lost trip, 60 lost minutes)
Train 332 car 203 has a propulsion speed restriction.
9/2/2017 3:40:00 PM - Incident\# 2906314 (0 lost trips, 5 lost minutes)
Train 333 Car 224B developed a propulsion/speed restriction, fault is persistent unable to clear
9/5/2017 3:31:00 PM - Incident\# 2907324 (3 lost trips, 205 lost minutes)
Friction Brakes self applied, no movement on car (206).
Train \# 344
T-344
Norwalk, track \# 1, westbound
(206) 244
9/6/2017 6:36:00 PM - Incident\# 2907905 (0 lost trips, 8 lost minutes)
Propulsion faults. No movement.
Train 335
T-450
Norwalk Station
Track 1, W/B
ATO mode
(216A)-208
9/7/2017 4:03:00 PM - Incident\# 2908304 (1 lost trip, 66 lost minutes)
Train 346 Car 206B developed a no movement fault at Lakewood Station.
9/12/2017 7:58:00 AM - Incident\# 2910086 ( 1 lost trip, 66 lost minutes)
Air leak on car (210).
Train \# 337
T-210
Norwalk, track \#1, westbound
218 (210)
9/13/2017 2:36:00 PM - Incident\# 2910797 (0 lost trips, 11 lost minutes)
Recurring loss of cab signaling.
Train \#343
T-085
Cars \#207-(201-B).
E/Bound Yard Interface Track-2.
9/15/2017 5:51:00 AM - Incident\# 2911359 (1 lost trip, 75 lost minutes)
Friction Brake Fault
Train 336
T-40
(208A)-225
Yard Interface.
Cancelled trip
9/15/2017 9:23:00 AM - Incident\# 2911451 (0 lost trips, 14 lost minutes)
Propulsion and speed restrictiuon in Car 203 Train 331.
9/15/2017 4:03:00 PM - Incident\# 2911631 (0 lost trips, 4 lost minutes)
Train 336206 doors $7 \& 8$ not closing completely, caused brakes not to release. Operator cut out the doors and
friction brake cleared.
9/17/2017 9:22:00 AM - Incident\# 2912006 (0 lost trips, 5 lost minutes)
Train 331 Car 225A developed a propulsion fault with a speed restriction.
9/18/2017 4:52:00 AM - Incident\# 2912152 (2 lost trips, 138 lost minutes)
Train Operator T-269 reports unsafe spin slide, not allowing the train to come to a stop without using track
brakes.
Train 334
T-269
Cars (205)-226
West of Crenshaw Station, Track 2, eastbound
9/18/2017 4:25:00 PM - Incident\# 2912504 (1 lost trip, 66 lost minutes)
Train 342 Car 221 developed an ATP fault.
9/19/2017 7:10:00 PM - Incident\# 2912962 (4 lost trips, 263 lost minutes)
Train 344, LRV's 208 and (215B)
Long Beach Station, Track 2 eastbound.
Friction brakes locked in car 215.
9/22/2017 4:26:00 AM - Incident\# 2915330 (1 lost trip, 79 lost minutes)
Car 221A loss of proper speed code, 9 MPH only
Train 333
T-40
Eastbound track 2 approaching Douglas Station
Consist 221-206
9/23/2017 2:05:00 PM - Incident\# 2914487 (0 lost trips, 10 lost minutes)
Train 335 Car 215 operator reports smoke coming out from car 215.
9/24/2017 4:54:00 AM - Incident\# 2914592 (0 lost trips, 8 lost minutes) Operator T-274 reports no movement.
Train 331
T-274
Cars (207B)-217
Marine Station , Track 2, Eastbound
9/24/2017 1:55:00 PM - Incident\# 2914672 (0 lost trips, 10 lost minutes)
Train 332 Car 206 has propulsion and speed restriction.
9/26/2017 8:12:00 AM - Incident\# 2915348 (0 lost trips, 10 lost minutes)
Train 337 reports propulsion faults on 243A
T-183, Train 337
Track 1, Avalon, West
(243A)-209
9/27/2017 6:27:00 AM - Incident\# 2915731 (2 lost trips, 142 lost minutes)
Train 340 car 208 unable to gain cab signals
Douglas Track 2
T-193
Car \# 217-(208)
9/27/2017 3:18:00 PM - Incident\# 2916000 (2 lost trips, 145 lost minutes) Report of friction brake won't release, no movement.
T-140
Train-346
Car (205)-219
Yard interface track 1 west bound.
9/29/2017 8:00:00 AM - Incident\# 2916744 (1 lost trip, 64 lost minutes)
Train 337 Car 211/205 developed a friction brake, $\mathrm{T}-020$ is unable to clear.
9/30/2017 11:20:00 AM - Incident\# 2917107 (0 lost trips, 10 lost minutes) Train 112 entered Mainline to test propulsion and brakes, with cars 205 and 209.

## Wayside Incidents:

9/4/2017 5:40:00 AM - Incident\# 2906693 (0 lost trips, 5 lost minutes)
Track Circuit 257 at Marine Station developed a false occupancy, trains had routing but no cab signals.
9/9/2017 4:30:00 PM - Incident\# 2909111 (0 lost trips, 4 lost minutes)
False occupancy at the Yard Interface Track Circuit 13 and 19.
Police \& Health Incidents:
9/22/2017 8:23:00 PM - Incident\# 2914315 (0 lost trips, 7 lost minutes)
Train Operator reported that a Passenger requested Medical Attention at Norwalk Station Westbound Track \#1.
Train 342
T-117
(217A)-212
Norwalk Station Track \#1.
9/23/2017 3:41:00 AM - Incident\# 2914361 (0 lost trips, 10 lost minutes)
Train 341 with a Sick Individual (seizure) onboard LRV 211 at Lakewood Station.
9/25/2017 11:06:00 AM - Incident\# 2914983 (0 lost trips, 10 lost minutes)
LASD Carbajal requested that Train 336 hold at Long Beach Station.

## 9/29/2017 8:19:00 AM - Incident\# 2916742 (0 lost trips, 11 lost minutes)

Train 333 Car 216 LASD requested a hold on Train due to a passenger was observed making threats with a knife.
9/30/2017 4:17:00 PM - Incident\# 2917171 (0 lost trips, 10 lost minutes)
LASD Espinoza informed Control of a passenger onboard Train 336 with a hand gun.
Other Incidents:
9/16/2017 5:07:00 PM - Incident\# 2911905 (0 lost trips, 14 lost minutes)
Train 335 Car 225A has Vomit.

## MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

## COMPLIANCE WITH SCHEDULED VEHICLE HOURS



COMPLIANCE WITH SCHEDULED TRAIN MILES


## ON-TIME PULL OUTS



IN-SERVICE ON-TIME PERFORMANCE


LOST TRIPS


LOST HOURS


## VERTICAL TRANSPORTATION AVAILABILITY




GOLD LINE
Out of a total of 20,296 hours operated, there were approximately 148 total hours of service delays.

|  | Revenue |  |
| :--- | ---: | ---: |
| September 2017 Service Hours * | Hours | Percent |
| Revenue Hours without Delays | 20,148 | $99.3 \%$ |
| Cancelled + Delayed Hours | 148 | $0.7 \%$ |
| Total Revenue Hours | $\mathbf{2 0 , 2 9 6}$ | $\mathbf{1 0 0 . 0 \%}$ |


| Summary of the major contributors: | Count |  | Hours |
| :--- | ---: | ---: | ---: | Percent | Operations |
| :--- |

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



## September 2017 Gold Line major delay contributors were as follows:

Operations Incidents:
9/15/2017 6:47:00 AM - Incident\# 2911382 (1 lost trip, 248 lost minutes)
Train 414
T-154
Cars (748A)-735-715
Northbound Track \#1
Del Mar Station
4270 Bypassing Stations Authorization
Train Operators shall not bypass stations unless authorized by
Control.
9/23/2017 5:45:00 AM - Incident\# 2914378 (0 lost trips, 7 lost minutes)
Train Delay, (718B)-723
Train \#401
T-216
Azusa/Citrus Station
Accidents:
9/5/2017 11:25:00 PM - Incident\# 2907463 (1 lost trip, 247 lost minutes)
Door closure on passenger, car 723 doors A7/A8.
Train 426
T-480
Consist 726a-723-725
Duarte Station, Track 2 SB
9/8/2017 7:47:00 PM - Incident\# 2908899 (0 lost trips, 10 lost minutes)
Patron Fell Onto Track 1 at Del Mar Station
9/22/2017 7:47:00 AM - Incident\# 2914030 (1 lost trip, 249 lost minutes)
Auto vs. Train, Cars \#(746B)-731
Train \#413
T-018
3rd and La Verne, Track \#002, Southbound
Vehicle Maintenance Incidents:
9/5/2017 4:24:00 AM - Incident\# 2906936 (0 lost trips, 7 lost minutes)
Reports of ATP failure
Train\#401
T-216
(726B)-740
Maravilla Station, Track \#1, NB
9/5/2017 5:39:00 AM - Incident\# 2906943 (1 lost trip, 247 lost minutes)
Reports of HVAC
Train \#413
T-158
(750B)-717
Monrovia Station, Track \#2, SB
9/6/2017 2:42:00 PM - Incident\# 2907810 (0 lost trips, 5 lost minutes)
Doors, 735-(718B 7/8)
Train \#433
T-063
Atlantic Station, Track \#001, Northbound.
9/7/2017 6:55:00 AM - Incident\# 2908047 (0 lost trips, 7 lost minutes)
Reports of cab signal failure
Train \# 411
T-301
738-742-(721)
Arcadia Station, Track \#1, NB
9/7/2017 3:09:00 PM - Incident\# 2908277 (0 lost trips, 10 lost minutes) Door problem consist 1/2, $3 / 4$ (713)5/6, 7/8(749).
South Pasadena Station
Train \#403, T-92, track \#2, southbound.
9/8/2017 10:40:00 AM - Incident\# 2908657 (0 lost trips, 3 lost minutes)
Heating / Air Conditioning
Train 407
T-178
LRV (736),744
APU Station
Track 2, Southbound
9/8/2017 8:05:00 PM - Incident\# 2908916 (1 lost trip, 244 lost minutes)
(730)-748-737
Propulsion Fault/Speed Restriction
SB Allen
T-151
Train 424
9/10/2017 2:43:00 AM - Incident\# 2909210 (1 lost trip, 224 lost minutes)
Door Jam/ Train move with door open 3 and 4
Train 409
T-251
Cars 1006 (1013a)
NB, Irwindale Station, Track 1
9/11/2017 10:40:00 AM - Incident\# 2909683 (0 lost trips, 12 lost minutes)
HSCB Trip LRV 710
T-11
Train 454
LRV 710/703
Indiana Staion, track 1, northbound.
9/11/2017 12:34:00 PM - Incident\# 2909759 (1 lost trip, 248 lost minutes)
Doors not closing LRV 1006
T-301
Train 401
LRV 1006-1013
Soto Station, Track 1, northbound.
9/11/2017 8:43:00 PM - Incident\# 2909934 (1 lost trip, 245 lost minutes)
T-63 reports multiple faults on Train 429, cars 736, 735, 715, Track 1, Sierra Madre Station, Northbound. Speed code of 10 mph .
9/14/2017 12:51:00 PM - Incident\# 2911142 (0 lost trips, 17 lost minutes)
Auto Train Protection (Speed Limit) 1059A
T-304
Train 406
LRV 1005-(1059)
South Pasadena Station, Track 1, northbound.
9/16/2017 11:13:00 AM - Incident\# 2911823 (1 lost trip, 312 lost minutes)
1009 loses cab signal at every station
Train 413
T-301 and T-8
Lake Station and APU
1009-1007
9/16/2017 3:59:00 PM - Incident\# 2911894 (0 lost trips, 12 lost minutes)
Cars 721-724 propulsion fault/speed restriction.
T-466
Train 408
Cars 732-(721-724)
Monrovia Station, Track 2, southbound.
9/18/2017 5:46:00 AM - Incident\# 2912206 (4 lost trips, 984 lost minutes)
Reports door problem.
Train \# 455
T-36
(703B)-709
Civic Center Station, Track \#1, NB

9/18/2017 7:54:00 PM - Incident\# 2912554 (1 lost trip, 252 lost minutes)
Train 424 (cars 727-740) reports ATP fault on lead car 727. Duarte Station, Track 2, Southbound. Speed code of 35 mph .

## 9/18/2017 9:56:00 PM - Incident\# 2912575 (0 lost trips, 8 lost minutes)

T-347 reports speed restriction of 10 mph on Train 422 (cars 748, 735) on lead car 735B, APU/Citrus, Track 2,
Southbound.

9/21/2017 6:04:00 AM - Incident\# 2913570 (0 lost trips, 7 lost minutes)
Reports of LVPS fault
Train \#421
T-159
(720)-715-745

Azusa Station, Track \#2, SB

9/25/2017 5:15:00 PM - Incident\# 2915165 (1 lost trip, 244 lost minutes)
Train 405 (739-727), T-452, Soto Station, track 1 reports speed restriction operating out of car 727.
9/26/2017 4:03:00 PM - Incident\# 2915534 (1 lost trip, 256 lost minutes)
Operator reports of ATP failure at Cirus station
Train 441
T-251
(748A)729-744
Citrus Station, Trk. 2, southbound
9/27/2017 5:16:00 AM - Incident\# 2915664 (0 lost trips, 7 lost minutes)
ATP failure
Train 411
T-216
Track 1 north Allen
734 (748)

9/27/2017 8:22:00 AM - Incident\# 2915783 (3 lost trips, 736 lost minutes)
No movement
Train 419
T-196
Track 2 south Irwindale.
1006 (1011)
9/29/2017 6:40:00 PM - Incident\# 2916978 (0 lost trips, 7 lost minutes)
Train with no speed code
Train 426
T-92
Cars (1058b),1013
NB, Track 1, Atlantic Station
9/29/2017 10:47:00 PM - Incident\# 2917029 (3 lost trips, 731 lost minutes)
Friction Brakes fault car (724b)
T-283
Train 403
SB, Track 2, Duarte Station
Cars 715, (724b)
9/30/2017 7:58:00 PM - Incident\# 2917214 (0 lost trips, 10 lost minutes)
(731)-720-744

Propulsion Fault/Speed Restriction
SB Allen Station
T-250
Train 403

Wayside Incidents:
9/1/2017 10:24:00 AM - Incident\# 2905882 (4 lost trips, 984 lost minutes)
AC Breaker: Open at the Irwindale TPSS.
9/14/2017 7:04:00 AM - Incident\# 2910990 (0 lost trips, 7 lost minutes)
ARINC SUMMARY ALARM indicates "cut section (mission) Data Link Failure" creating false occupancy at on track circuit 478-2/456-2

Police \& Health Incidents:
9/4/2017 7:24:00 PM - Incident\# 2906854 (0 lost trips, 6 lost minutes)
Vomit on cars (730)(741).
Citrus Station
Train \#402, T-430, track \#1, northbound.

9/4/2017 8:21:00 PM - Incident\# 2906865 (0 lost trips, 6 lost minutes)
Patron reports individual on board consist possibly with a weapon.
Allen Station
Train \#407, T-480, track \#1, northbound.
Consist 1006(1008).
9/16/2017 1:38:00 AM - Incident\# 2911747 (0 lost trips, 10 lost minutes)
Train 404 reported a vehicle struck on Track \#1 at Highland Ave Grade Crossing.
Train 404
T-482
717-722
Duarte Station Track \#1 Northbound
9/17/2017 6:11:00 AM - Incident\# 2911980 (0 lost trips, 14 lost minutes)
Train 405 reports a blockage track \#1 Downey Road and 3rd. MTA not invovled.
9/18/2017 5:15:00 PM - Incident\# 2912525 (0 lost trips, 5 lost minutes)
Trespasser reported by CCTV R-440 at Downtown Azusa on track 2 side.

9/29/2017 8:08:00 PM - Incident\# 2916998 (0 lost trips, 7 lost minutes)
Sick Individual on board train 429
Train 429
Cars (1059a),1011,1006
NB, Track 1, Mariachi Station
9/29/2017 8:08:00 PM - Incident\# 2917004 (0 lost trips, 10 lost minutes)
Patron on board the train request medical attention
Train 453
T-223
Cars (703a),709
SB, Track 2, Little Tokyo Station
9/30/2017 4:24:00 AM - Incident\# 2917048 (6 lost trips, 1,958 lost minutes)
Assault, cars \#(730B)-722-714
Train \#401
T-077
East Los Angeles Civic Center, Track \#001, Northbound.
Other Incidents:
9/6/2017 6:56:00 AM - Incident\# 2907611 (0 lost trips, 8 lost minutes)
Passenger preventing doors from clossing, cars \#(723A)-725-726
Train \#416
T-134
Indiana Station, Track \#002, Southbound

9/6/2017 7:30:00 PM - Incident\# 2907915 (1 lost trip, 251 lost minutes)
Feces in car 1058
Train 434
T-215
Consist 1058-1007-1056
Figueroa Box Track 1 NB
9/14/2017 3:09:00 PM - Incident\# 2911238 (0 lost trips, 5 lost minutes)
T-250 signed on late with a Miss-out assigned. Train Operator Alphas were bumped at APU/Citrus heading southbound. Trains obtained detail of 5 mins southbound.

## MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS COMPLIANCE WITH SCHEDULED VEHICLE HOURS



COMPLIANCE WITH SCHEDULED TRAIN MILES


ON-TIME PULL OUTS


IN-SERVICE ON-TIME PERFORMANCE

## Metro Gold Line In-Service On-Time Performance



LOST TRIPS


LOST HOURS


## VERTICAL TRANSPORTATION AVAILABILITY




## EXPO LINE

Out of a total of 21,874 hours operated, there were approximately 105 total hours of service delays.

| Revenue <br> September 2017 Service Hours * <br> Revenue Hours without Delays$\quad 21,769$ | $99.5 \%$ |  |
| :--- | ---: | ---: |
| Cancelled + Delayed Hours | 105 | $0.5 \%$ |
| Total Revenue Hours | $\mathbf{2 1 , 8 7 4}$ | $\mathbf{1 0 0 . 0 \%}$ |


| Summary of the major contributors: | Count | Hours | Percent |
| :--- | ---: | ---: | ---: |
| Operations | 3 | 12.1 | $11.6 \%$ |
| Accidents | 1 | 2.5 | $2.3 \%$ |
| Vehicle Maintenance | 20 | 44.5 | $42.4 \%$ |
| Wayside | 1 | 0.2 | $0.2 \%$ |
| Police \& Health | 6 | 43.3 | $41.3 \%$ |
| Other | 1 | 2.4 | $2.2 \%$ |
| Total | $\mathbf{3 2}$ | $\mathbf{1 0 4 . 8}$ | $\mathbf{1 0 0 . 0 \%}$ |

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



## September 2017 Expo Line major delay contributors were as follows:

## Operations Incidents:

9/8/2017 6:08:00 PM - Incident\# 2908861 (0 lost trips, 11 lost minutes)
Train 651
T-180
Cars (1039)-1046-1030
Northbound, Track \#3
Santa Monica Station
Eleven minute delay in service due to 10-100.

9/16/2017 5:50:00 AM - Incident\# 2911771 (0 lost trips, 12 lost minutes)
Train Delay due to Train 658 with no movement Re: M3\# 2911772

9/19/2017 1:56:00 PM - Incident\# 2912885 (5 lost trips, 705 lost minutes)
In reference to M3\# 2912845 Expo had delays due to disabled expo train at Pico SB.
Accidents:
9/15/2017 1:27:00 PM - Incident\# 2911574 (1 lost trip, 147 lost minutes)
Train vs. automobile at 14 th/Colorado.
Train \# 603
T-180
14th/Colorado, track \#3/northbound
(1071A) 10671072
Vehicle Maintenance Incidents:
9/1/2017 4:22:00 AM - Incident\# 2905807 (0 lost trips, 17 lost minutes)
Train 658 reports no movements.
Train 658
T-543
Cars(1022)-1016-1023
South of LaCienega Station, Track 3, Northbound

9/1/2017 4:33:00 PM - Incident\# 2906063 (1 lost trip, 141 lost minutes)
Train-605
T-380
Cars (117B)-152-159
Northbound, Track \#3
Culver City Station
Friction Brakes reported burning smell.

9/2/2017 10:48:00 AM - Incident\# 2906263 (0 lost trips, 7 lost minutes)
Propulsion / Dynamic Brakes
Train 656
T-510
(1054)-1030-1046

Northbound, Track 3 Santa Monica.
9/3/2017 4:38:00 AM - Incident\# 2906432 (0 lost trips, 22 lost minutes)
Yard Control R-190 reports Train 659 pulled out 16 minutes late due to multiple consists exchanges due to breakdowns in the Expo Yard.

9/3/2017 7:15:00 PM - Incident\# 2906638 (1 lost trip, 141 lost minutes) (1049)-1026-1032

Friction Brake/Air Loss/No Movement
SB Jefferson
T-455
Train 655

9/7/2017 11:25:00 AM - Incident\# 2908190 (0 lost trips, 5 lost minutes)
Train with no movement Over speed unable to switch from cab to street run.
Train \#601 T-135 Car\#137A-118-123
southbound at 23 rd street station.

9/8/2017 9:13:00 AM - Incident\# 2908615 (0 lost trips, 5 lost minutes)
Train 660 reporting doors will not closed on LRV 126
T-545
LRV'S 102-(126)-109
Jefferson Station, track 4, southbound.

9/11/2017 11:24:00 AM - Incident\# 2909695 (1 lost trip, 146 lost minutes)
Train with air leak no movement at Sepulveda
Train \#653 T-313 1050-1003-1035
NB @Sepulveda Station
9/11/2017 7:15:00 PM - Incident\# 2909922 (1 lost trip, 141 lost minutes)
(1022b)-1037-1033
Propulsion Fault w/ Speed Restriction
SB Sepulveda
T-536
Train 672
9/13/2017 8:08:00 AM - Incident\# 2912229 (1 lost trip, 141 lost minutes)
Low Air Pressure No Movement
Train 664
Train Operator T-534
Cars (159A), 146, 114
Venice Interlocking, Track 2, Southbound
9/15/2017 3:29:00 PM - Incident\# 2911619 (2 lost trips, 294 lost minutes)
Self applying brakes on car (301B).
Train \#655
T-449
La Cienega Station, track \#4, southbound
(301B) 302231
9/16/2017 5:50:00 AM - Incident\# 2911772 (6 lost trips, 858 lost minutes)
Train 658 reports no movement with HSCB
Train 658
T-417
LRV'S ( 1003 ) 1050-1034
Pico Station, Track 1, Northbound
9/18/2017 5:05:00 AM - Incident\# 2912155 (1 lost trip, 161 lost minutes) Operator reports of no movement.

T-472
Train\#658
Cars(1023B)-1022-1035
Washington/Flower Junction
Southbound Trk\#4
9/18/2017 3:30:00 PM - Incident\# 2912479 (1 lost trip, 141 lost minutes)
Train 653 reports doors will not open.
T-541
Tk 3 NB La Cienega
1025-1026-1016
9/19/2017 7:26:00 AM - Incident\# 2912705 (0 lost trips, 8 lost minutes)
Operator reports of no movement.
T-459
Train \#653
Cars(1029A)-1052-1054
Santa Monica St.
Northbound Trk\#4

9/21/2017 2:53:00 PM - Incident\# 2913766 (0 lost trips, 10 lost minutes)
Train 652 departed minus 10 minutes, northbound from Santa Monica Station. The operator conducted a local-off to clear propulsion faults at 7th and Metro-southbound.
Train\#652
T\#546
1043,1048
1032
Track\#3,Northbound,Santa Monica Station
9/22/2017 10:18:00 PM - Incident\# 2914342 (0 lost trips, 9 lost minutes)
Self Applying Brakes
Train \#672, T-514
1038-1044-1053
7th and Metro Center Station

9/25/2017 3:10:00 PM - Incident\# 2915094 (1 lost trip, 141 lost minutes)
RFS Called to advise about performing a ground inspection on train 666

9/29/2017 4:36:00 AM - Incident\# 2916666 (1 lost trip, 141 lost minutes)
Operator reports of train shaking and braking.
T-315
Train\#660
Cars(155)-121-102
La Cienega, Trk 3
Northbound
9/30/2017 11:35:00 PM - Incident\# 2917230 ( 1 lost trip, 141 lost minutes)
Train Operator reported Friction Brake Fault on car 1038A. It was determined that an air leak on car 1022 caused the problem.
Train 658
1038-1071-1022
Westwood Station Northbound Track \#3
Wayside Incidents:
9/25/2017 3:16:00 PM - Incident\# 2915129 (0 lost trips, 10 lost minutes)
Train 669 was delayed due to switch 5 at Signal 8 N being out of correspondence
Train 669
T-133
Expo Yard, Trk. 3, northbound
Police \& Health Incidents:
9/2/2017 10:55:00 PM - Incident\# 2906410 (0 lost trips, 10 lost minutes)
Physical alteration
Train 693
T-243
Cars (151)-125-104
Santa Monica station tk3

9/4/2017 8:17:00 PM - Incident\# 2906862 ( 1 lost trip, 141 lost minutes)
Individual was assaulted. T-541 reports blood on the train
Train652
T-541
Track 3
Northbound
Crenshaw station

9/8/2017 7:03:00 AM - Incident\# 2908555 (1 lost trip, 168 lost minutes)
Field Supervisor S-61 R-110 reports a slip and fall on board Train 605 car 234.
Train 605
T-123
Cars 250-234-244
Sepulveda Station, Track 3, Northbound
9/13/2017 5:35:00 AM - Incident\# 2910533 (0 lost trips, 20 lost minutes)
Train delay due to police activity at Washington and Santee. Ref: M3\# 2,910,494.

9/13/2017 8:32:00 AM - Incident\# 2910832 (8 lost trips, 1,128 lost minutes)
Due to Downtown incident M3\# 29104944 trains were turned back SB from 23rd street station.

9/13/2017 9:37:00 AM - Incident\# 2910840 (8 lost trips, 1,128 lost minutes)
Due to earlier incident M3\# 2910494 some trains trips had to be canceled.
Other Incidents:
9/21/2017 4:04:00 PM - Incident\# 2913829 (1 lost trip, 141 lost minutes)
Emergency 10-100.
Train\#673
1028,1036,1033
8 N Bundy,Northbound

## MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

COMPLIANCE WITH SCHEDULED VEHICLE HOURS


COMPLIANCE WITH SCHEDULED TRAIN MILES


## ON-TIME PULL OUTS



## IN-SERVICE ON-TIME PERFORMANCE



LOST TRIPS


LOST HOURS


## VERTICAL TRANSPORTATION AVAILABILITY




[^0]:    ${ }^{1}$ There is a One Month lag in reporting this data
    ${ }^{2}$ Includes Operations, RFS and Wayside
    O Green - High probability of achieving the target (on track). Meets Target at $100 \%$ or better.
    〇 Yellow - Uncertain if the target will be achieved -- slight problems, delays or management issues. Falls below Target 70-99\%,
    Red - High probability that the target will not be achieved -- significant problems and/or delays. Falls below Target >70\%
    N/A = Not Available

[^1]:    * There is One Month lag in reporting this data

    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\%
    N/A = Not Available

