Los Angeles County
Metropolition Transportation Authority
Califermin

OPERATIONS
MONTHLY RAIL
PERFORMANCE
REPORT

APRIL 2017


## METRO RAIL PERFORMANCE - APRIL 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 2014 | FY 2015 | FY 2016 | FY 2017 <br> Target | $\begin{gathered} \text { FY } 2017 \\ \text { YTD } \end{gathered}$ | FYTD <br> Status | Feb Month | Mar Month | Apr Month |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Systemwide |  |  |  |  |  |  |  |  |  |
| On-Time Pullouts | 99.55\% | 99.67\% | 99.63\% | 99.50\% | 99.61\% | $\bigcirc$ | 99.51\% | 99.77\% | 99.29\% |
| Mean Miles Between Chargeable Mechanical Failures | 28,829 | 34,524 | 30,482 | 27,911 | 29,066 | - | 33,481 | 29,637 | 29,112 |
| In-Service On-time Performance | 97.92\% | 98.39\% | 98.10\% | 98.00\% | 98.14\% | - | 97.92\% | 98.28\% | 98.48\% |
| Service Delivery Ratio | 99.12\% | 99.35\% | 99.22\% | 99.25\% | 99.18\% | $\bigcirc$ | 98.89\% | 99.27\% | 99.23\% |
| Traffic Accidents Per 100,000 Train Miles | 1.47 | 1.18 | 1.17 | N/A | 1.08 | N/A | 1.15 | 0.65 | 1.10 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.10 | 0.43 | 0.60 | 0.67 | 0.39 | $\bigcirc$ | 0.43 | 0.39 | 0.14 |
| Passenger Accidents per 100,000 Boardings | 0.025 | 0.013 | 0.016 | 0.009 | 0.024 | $\bigcirc$ | 0.023 | 0.071 | 0.000 |
| Complaints per 100,000 Boardings | 0.91 | 0.78 | 1.43 | 1.12 | 2.00 | $\bigcirc$ | 2.01 | 2.36 | 1.75 |
| New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours ${ }^{1,2}$ | 15.35 | 11.11 | 10.97 | 10.42 | 12.79 | $\bigcirc$ | 14.51 | 17.47 | 12.05 |
| Lost Work Days per 200,000 Exposure Hours ${ }^{1,2}$ | 861 | 880 | 482 | 458.16 | 732 | O | 800 | 639 |  |
| OSHA Injuries per 200,000 Exposure Hours ${ }^{1,2}$ | 8.18 | 6.68 | 6.32 | 6.00 | 8.98 | $\bigcirc$ | 9.33 | 10.11 |  |
|  |  |  |  |  |  |  |  |  |  |
| Wayside |  |  |  |  |  |  |  |  |  |
| Overdue Work Orders (Non-PMP) - Aging of Outstanding Work Orders | 64 | 138 | 635 | N/A | 2,123 | N/A | 271 | 344 | 706 |
| Past-Due Preventive Maintenance - Aging of Outstanding Work Orders | 0 | 1 | 25 | N/A | 264 | N/A | 28 | 79 | 110 |
| \% of Completed Inspections | 99.41\% | 99.51\% | 99.57\% | N/A | 99.55\% | N/A | 100.00\% | 99.33\% | 99.34\% |
| New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours | 9.28 | 9.07 | 4.77 | 4.53 | 4.41 | $\bigcirc$ | 4.08 | 7.50 | 0.00 |
| Lost Work Days per 200,000 Exposure Hours ${ }^{1}$ | 179 | 309 | 148 | 141 | 149 | - | 314 | 120 |  |
| OSHA Injuries per 200,000 Exposure Hours ${ }^{1}$ | 6.31 | 8.28 | 4.40 | 4.18 | 4.43 | $\bigcirc$ | 4.08 | 3.75 |  |
|  |  |  |  |  |  |  |  |  |  |
| Blue Line |  |  |  |  |  |  |  |  |  |
| On-Time Pullouts | 99.37\% | 99.41\% | 99.59\% | 99.50\% | 99.63\% | $\bigcirc$ | 99.69\% | 100.00\% | 99.70\% |
| Mean Miles Between Chargeable Mechanical Failures | 18,731 | 23,716 | 19,240 | 19,572 | 15,410 | $\bigcirc$ | 15,852 | 10,647 | 14,849 |
| In-Service On-time Performance | 95.84\% | 97.28\% | 96.10\% | 97.00\% | 96.27\% | $\bigcirc$ | 95.93\% | 96.44\% | 95.90\% |
| Service Delivery Ratio | 98.36\% | 98.88\% | 98.41\% | 98.46\% | 98.47\% | $\bigcirc$ | 97.70\% | 98.82\% | 97.84\% |
| Traffic Accidents Per 100,000 Train Miles | 2.97 | 2.48 | 2.38 | N/A | 2.17 | N/A | 0.69 | 0.64 | 2.69 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.00 | 0.89 | 1.39 | 1.34 | 0.79 | $\bigcirc$ | 0.00 | 0.64 | 0.67 |
| Passenger Accidents per 100,000 Boardings | 0.058 | 0.034 | 0.016 | 0.006 | 0.050 | $\bigcirc$ | 0.111 | 0.202 | 0.000 |
| Complaints per 100,000 Boardings | 1.10 | 0.90 | 1.33 | 1.09 | 1.70 | $\bigcirc$ | 1.39 | 2.07 | 2.04 |
| New Workers' Compensation Indemnity Claims per | 17.46 | 15.10 | 15.08 | 15.58 | 18.50 | O | 11.68 | 25.08 | 21.91 |
| Lost Work Days per 200,000 Exposure Hours ${ }^{1}$ | 990 | 1,622 | 797 | 786 | 914 | $\bigcirc$ | 1,542 | 730 |  |
| OSHA Injuries per 200,000 Exposure Hours ${ }^{1}$ | 5.71 | 10.64 | 6.79 | 9.58 | 10.87 | $\bigcirc$ | 5.84 | 10.03 |  |

[^0]| Measurement | FY 2014 | FY 2015 | FY 2016 | FY 2017 <br> Target | $\begin{gathered} \text { FY } 2017 \\ \text { YTD } \end{gathered}$ | FYTD <br> Status | Feb Month | Mar Month | Apr Month |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Red Line |  |  |  |  |  |  |  |  |  |
| On-Time Pullouts | 99.72\% | 99.91\% | 99.79\% | 99.50\% | 99.98\% | $\bigcirc$ | 100.00\% | 99.80\% | 100.00\% |
| Mean Miles Between Chargeable Mechanical Failures | 63,099 | 85,090 | 94,312 | 112,652 | 111,801 | $\bigcirc$ | 109,220 | 145,093 | 96,997 |
| In-Service On-time Performance | 98.91\% | 99.13\% | 99.45\% | 99.50\% | 99.38\% | $\bigcirc$ | 98.56\% | 99.11\% | 99.42\% |
| Service Delivery Ratio | 99.57\% | 99.60\% | 99.71\% | 99.71\% | 99.71\% | , | 99.54\% | 99.35\% | 99.69\% |
| Traffic Accidents Per 100,000 Train Miles | 1.01 | 0.47 | 0.75 | N/A | 0.68 | N/A | 0.91 | 0.00 | 0.87 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.00 | 0.07 | 0.07 | 0.60 | 0.17 | $\bigcirc$ | 0.00 | 0.00 | 0.00 |
| Passenger Accidents per 100,000 Boardings | 0.006 | 0.002 | 0.002 | 0.003 | 0.005 | $\bigcirc$ | 0.000 | 0.025 | 0.000 |
| Complaints per 100,000 Boardings | 0.60 | 0.54 | 0.57 | 0.56 | 1.12 | $\bigcirc$ | 1.74 | 1.93 | 1.47 |
| New Workers' Compensation Indemnity Claims per | 20.22 | 6.20 | 16.43 | 13.29 | 13.66 | O | 6.17 | 22.47 | 11.41 |
| *Lost Work Days per 200,000 Exposure Hours | 927 | 649 | 526 | 556 | 1,021 | $\bigcirc$ | 771 | 762 |  |
| *OSHA Injuries per 200,000 Exposure Hours | 11.79 | 3.54 | 7.99 | 6.55 | 7.59 | $\bigcirc$ | 6.17 | 0.00 |  |


| Green Line |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| On-Time Pullouts | 99.69\% | 99.32\% | 99.49\% | 99.50\% | 99.65\% | - | 98.70\% | 98.89\% | 100.00\% |
| Mean Miles Between Chargeable Mechanical Failures | 19,513 | 21,054 | 19,238 | 19,911 | 15,776 | $\bigcirc$ | 19,422 | 16,863 | 14,907 |
| In-Service On-time Performance | 97.85\% | 97.39\% | 98.52\% | 98.20\% | 98.55\% | - | 98.87\% | 98.52\% | 99.06\% |
| Service Delivery Ratio | 99.57\% | 99.50\% | 99.59\% | 99.62\% | 99.60\% | O | 99.71\% | 99.50\% | 99.71\% |
| Traffic Accidents Per 100,000 Train Miles | 0.49 | 0.21 | 0.42 | N/A | 0.50 | N/A | 0.00 | 0.00 | 0.84 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.00 | 0.07 | 0.07 | 0.18 | 0.00 | - | 0.00 | 0.00 | 0.00 |
| Passenger Accidents per 100,000 Boardings | 0.023 | 0.024 | 0.034 | 0.011 | 0.046 |  | 0.000 | 0.000 | 0.000 |
| Complaints per 100,000 Boardings | 1.15 | 0.88 | 1.53 | 1.30 | 2.15 | $\bigcirc$ | 2.72 | 2.76 | 2.14 |
| New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours | 16.51 | 7.32 | 7.18 | 9.27 | 9.03 | $\bigcirc$ | 20.51 | 8.92 | 9.90 |
| *Lost Work Days per 200,000 Exposure Hours | 1,299 | 479 | 228 | 195 | 715 | - | 352 | 268 |  |
| *OSHA Injuries per 200,000 Exposure Hours | 11.30 | 4.07 | 3.19 | 2.34 | 5.59 |  | 0.00 | 8.92 |  |


| Gold Line |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| On-Time Pullouts | 99.56\% | 99.98\% | 99.68\% | 99.50\% | 99.80\% | $\bigcirc$ | 99.19\% | 100.00\% | 100.00\% |
| Mean Miles Between Chargeable Mechanical Failures | 45,894 | 44,171 | 40,426 | 51,665 | 36,698 | $\bigcirc$ | 43,930 | 53,570 | 29,660 |
| In-Service On-time Performance | 98.03\% | 98.56\% | 97.60\% | 97.50\% | 97.48\% | $\bigcirc$ | 97.05\% | 97.72\% | 98.45\% |
| Service Delivery Ratio | 99.03\% | 99.34\% | 99.11\% | 99.16\% | 98.81\% | $\bigcirc$ | 98.33\% | 99.06\% | 99.38\% |
| Traffic Accidents Per 100,000 Train Miles | 1.03 | 1.14 | 0.99 | N/A | 0.65 | N/A | 0.94 | 0.83 | 0.45 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.00 | 0.30 | 0.60 | 0.50 | 0.26 | $\bigcirc$ | 0.47 | 0.83 | 0.00 |
| Passenger Accidents per 100,000 Boardings | 0.052 | 0.007 | 0.039 | 0.035 | 0.029 | $\bigcirc$ | 0.000 | 0.141 | 0.000 |
| Complaints per 100,000 Boardings | 1.04 | 1.01 | 2.73 | 2.26 | 2.77 | $\bigcirc$ | 2.80 | 3.89 | 1.74 |
| New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours | 14.98 | 15.96 | 11.87 | 12.20 | 14.95 | $\bigcirc$ | 30.04 | 26.14 | 5.87 |
| *Lost Work Days per 200,000 Exposure Hours | 1,460 | 1,068 | 766 | 808 | 1,121 | $\bigcirc$ | 763 | 1,039 |  |
| *OSHA Injuries per 200,000 Exposure Hours | 9.12 | 3.83 | 9.29 | 10.07 | 10.40 | O | 18.02 | 20.92 |  |


| Expo Line |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| On-Time Pullouts | - | - | 99.53\% | 99.50\% | 98.70\% | $\bigcirc$ | 100.00\% | 99.81\% | 96.40\% |
| Mean Miles Between Chargeable Mechanical Failures | - | - | 18,114 | 19,572 | 30,797 | $\bigcirc$ | 49,240 | 110,378 | 62,795 |
| In-Service On-time Performance | 98.70\% | 99.14\% | 98.61\% | 97.05\% | 98.39\% | $\bigcirc$ | 98.96\% | 99.16\% | 99.11\% |
| Service Delivery Ratio | 99.45\% | 99.64\% | 99.56\% | 99.65\% | 99.39\% | $\bigcirc$ | 99.50\% | 99.75\% | 99.62\% |
| Traffic Accidents Per 100,000 Train Miles | 1.17 | 1.02 | 0.74 | N/A | 1.53 | N/A | 3.48 | 1.52 | 0.83 |
| CPUC Reportable Accidents per 100,000 Train Miles | 1.17 | 1.02 | 0.50 | 0.37 | 0.77 | $\bigcirc$ | 1.74 | 0.00 | 0.00 |
| Passenger Accidents per 100,000 Boardings | 0.000 | 0.000 | 0.019 | 0.000 | 0.022 | $\bigcirc$ | 0.000 | 0.000 | 0.000 |
| Complaints per 100,000 Boardings | 1.53 | 1.13 | 3.38 | 1.87 | 3.99 | $\bigcirc$ | 2.38 | 2.22 | 1.86 |
| New Workers' Compensation Indemnity Claims per | - | 24.97 | 8.44 | 0.00 | 20.86 | $\bigcirc$ | 24.74 | 14.26 | 31.27 |
| *Lost Work Days per 200,000 Exposure Hours | - | 937 | 73 | 0 | 747 | $\bigcirc$ | 1,195 | 1,096 |  |
| *OSHA Injuries per 200,000 Exposure Hours | - | - | 5.63 | 0.00 | 18.78 | $\bigcirc$ | 24.74 | 21.39 |  |

## * There is One Month lag in reporting this data

Green - High probability of achieving the target (on track). Meets Target at $100 \%$ or better.
O 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 $>70 \%$.
N/A = Not Available

## METRO RAIL PERFORMANCE - APRIL 2017

## Rail Performance by Vehicle Type




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


There was no FY16 target established by car type.
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




There was no FY16 target established by car type.
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.

| Percentage Change in Rail MMBMF by Vehicle Type |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Light Rail - NipponSharyo |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 500.0\% |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 400.0\% |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 岂 300.0\% |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\sum_{\Sigma}^{\bar{\infty}} \quad 200.0 \%$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{array}{ll} \underset{y}{\Sigma} & \\ \underset{\sim}{ \pm} & 100.0 \% \end{array}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| か) -100.0\% |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Apr-16 | May-16 | Jun-16 | Jul-16 | Aug-16 | Sep-16 | Oct-16 | Nov-16 | Dec-16 | Jan-17 | Feb-17 | Mar-17 | Apr-17 |
| - Nippon Sharyo 2020-DC | 348.3\% | -50.1\% | -53.7\% | -0.5\% | -33.4\% | 25.4\% | -10.3\% | 25.1\% | -46.3\% | 47.1\% | 131.9\% | -33.0\% | -3.9\% |
| —— Nippon Sharyo 865 - DC | -5.2\% | 13.2\% | -29.8\% | -7.6\% | 38.8\% | 25.1\% | 10.7\% | 5.2\% | -40.3\% | -5.8\% | 0.7\% | -7.1\% | 38.3\% |

[^1]Rail Mean Vehicle Miles Between Major Failure by Vehicle Type
Metro
Light Rail - Siemens


There was no FY16 target established by car type.
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 2016 | FY 2017 <br> Goal | FY 2017 <br> YTD |
| :--- | ---: | ---: | ---: |
| AnsaldoBreda2550Base - AC | 42,292 | 44,517 | 53,332 |
| Breda 650 Base - DC | 50,526 | 53,185 | 72,935 |
| Breda 650 Option - AC | 120,372 | 126,708 | 136,891 |
| Kinkisharyo P3010 | 19,068 | 20,072 | 30,867 |
| Nippon Sharyo 2020 - DC | 29,653 | 31,214 | 19,618 |
| Nippon Sharyo 865 - DC | 24,759 | 26,062 | 24,967 |
| Siemens 2000 Base - AC | 19,739 | 20,778 | 16,232 |
| Siemens 2000 GE/ATP - AC | 10,981 | 11,559 | 7,664 |

## Rail Fleet Distribution - APRIL 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 |  | 74 |  |  |  |
| KinkiSharyo P3010 |  |  |  | 15 | 50 |
| Nippon Sharyo 2020 - DC | 12 |  |  |  | 3 |
| Nippon Sharyo 865 - DC | 40 |  |  |  | 14 |
| Siemens 2000 Base - AC |  |  | 29 |  |  |
| Siemens 2000 GE/ATP - AC | 19 |  |  |  | 4 |
| TOTALS | $\mathbf{7 1}$ | $\mathbf{1 0 4}$ | $\mathbf{2 9}$ | $\mathbf{6 5}$ | $\mathbf{7 1}$ |


| Blue |  |  |  |
| :---: | :---: | :---: | :---: |
| Day Type | Vehicles <br> Required | Average Available | Average \% Available |
| Weekday | 57 | 58 | 101\% |
| Weekend | 26 | 42 | 163\% |
| Red/ Purple |  |  |  |
| Day Type | Vehicles <br> Required | Average Available | Average \% Available |
| Weekday | 64 | 75 | 117\% |
| Weekend | 40 | 61 | 154\% |
| Green |  |  |  |
| Day Type | Vehicles <br> Required | Average Available | Average \% Available |
| Weekday | 22 | 22 | 101\% |
| Weekend | 14 | 16 | 113\% |
| Gold |  |  |  |
| Day Type | Vehicles Required | Average Available | Average \% Available |
| Weekday | 48 | 52 | 108\% |
| Weekend | 28 | 38 | 136\% |
| Expo |  |  |  |
| Day Type | Vehicles <br> Required | Average Available | Average \% Available |
| Weekday | 47 | 50 | 107\% |
| Weekend | 30 | 41 | 135\% |



## 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 - 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


Expo Line Service began in March 2016.

## Workers Comp Claims by Line



On-Time Pullouts Ratio by Line


Expo Line Service began in March 2016.

## 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



Expo Line Service began in March 2016.

Worker's Comp. Claims
Feb 2017 - Apr 2017
3 Month Comparison


## Lost Work Days and OSHA Injuries

Jan 2017 - Mar 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 19,381 hours operated, there were approximately 418 total hours of service delays.

|  | Revenue |  |
| :--- | ---: | ---: |
| April 2017 Service Hours * | Hours | Percent |
| Revenue Hours without Delays | 18,963 | $97.8 \%$ |
| Cancelled + Delayed Hours | 418 | $2.2 \%$ |
| Total Revenue Hours | $\mathbf{1 9 , 3 8 1}$ | $\mathbf{1 0 0 . 0 \%}$ |


| Summary of the major contributors: | Count | Hours | Percent |
| :--- | ---: | ---: | ---: |
| Operations | 8 | 31.3 | $7.5 \%$ |
| Accidents | 2 | 26.8 | $6.4 \%$ |
| Vehicle Maintenance | 47 | 114.8 | $27.5 \%$ |
| Wayside | 6 | 207.9 | $49.8 \%$ |
| Police \& Health | 12 | 32.3 | $7.7 \%$ |
| Other | 5 | 4.5 | $1.1 \%$ |
| Total | $\mathbf{8 0}$ | $\mathbf{4 1 7 . 8}$ | $\mathbf{1 0 0 . 0 \%}$ |

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



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

## Operations Incidents:

4/8/2017 10:00:00 AM - Incident\# 2853886 (3 lost trips, 507 lost minutes)
Northbound trains are turning back from Grand and Washington Station due to emergency maintenance work.
Train\#107
T\#238
Cars\#130,124,100
Track\#1,Grand Station,Northbound
4/10/2017 3:45:00 PM - Incident\# 2854535 (2 lost trips, 335 lost minutes)
Train 119 reporting Propulsion faults
Train 119
M-175
LRVS 140-158 ( 165 )
Metro Center Tail Track 2

4/14/2017 9:01:00 AM - Incident\# 2856009 (1 lost trip, 166 lost minutes)
Southbound trip, for Train\#117 was cancelled at 7th\&Metro,Train\#101,cars $(115,104,160)$ belong to Expo and the line was bumped.
4/14/2017 1:10:00 PM - Incident\# 2856101 (1 lost trip, 166 lost minutes)
Train 111 is delayed due to Expo trains being crossed over at 7th\&Metro.
Train\#111
T\#34
140,100,130
Track\#2,Southbound,Imperial Station

4/14/2017 4:57:00 PM - Incident\# 2856159 (0 lost trips, 17 lost minutes)
Canine on the ROW at Greenleaf in between Tracks $1 \& 2$.
Train\#124
T\#34
124,151,165
Track 2,Southbound,Greenleaf
4/18/2017 7:00:00 PM - Incident\# 2857301 (1 lost trip, 168 lost minutes)
Trip cancelled from Tranist Mall to Willow on Train 101 due to previous delays due to unscheduled single tracking.

4/27/2017 6:43:00 AM - Incident\# 2860176 (3 lost trips, 503 lost minutes)
7th Metro Ctr. departures on Expo trains were cancelled
4/29/2017 8:00:00 AM - Incident\# 2861082 (0 lost trips, 17 lost minutes)
Traction Power doing OCS repairs on Track 2 between Washington and Florence Interlockings. Single Tracking on track 1 per Pink Letter M-384

Accidents:
4/2/2017 8:55:00 PM - Incident\# 2851710 (1 lost trip, 116 lost minutes)
10-73
Train 104
T-413
Consist 136b-157
Long Beach Blvd \& 19th Street, northbound

T-348
Cars (239A)-235-244
Southbound Track \#2
119th Grade Crossing
Train vs. Auto at Intersection at 119th Grade Crossing Track \#2 Southbound.

Vehicle Maintenance Incidents:
4/1/2017 10:48:00 AM - Incident\# 2851423 (0 lost trips, 20 lost minutes)
Prop/ Fault, speed restriction.
Train \#107.
T-233.
LRV- (165B), 149.
Willow Station, Track \#1, Northbound.

4/1/2017 12:39:00 PM - Incident\# 2851438 (1 lost trip, 116 lost minutes)
Self applying Track Brake.
Train \#110.
T-473.
LRV- (239B), 248.
Track \#2, northbound, reverse running, Stockwell.
4/2/2017 5:00:00 PM - Incident\# 2851672 (1 lost trip, 116 lost minutes)
Train operator reports slow propulsion and an isolate/connect problem.
Train 108
T-72
Consist 137a-154

4/4/2017 6:53:00 AM - Incident\# 2852241 (2 lost trips, 335 lost minutes)
Friction Brakes (Smoking brakes)
(137A)-121-140
Train 109
T-115
Compton, Southbound, Track 2
4/5/2017 4:16:00 AM - Incident\# 2852631 (0 lost trips, 23 lost minutes)
No Fault No Movement
Train 103
T-115
(250)-241-302

Trk 2 S/B mpm 17.00
23 minute delay
4/5/2017 6:23:00 AM - Incident\# 2852649 (0 lost trips, 10 lost minutes)
Doors
Train 102
T-355
245-(231)-242
Del Amo S/B trk 2
10 minute delay
4/5/2017 3:25:00 PM - Incident\# 2852914 (1 lost trip, 173 lost minutes)
Train 122 report the he was getting Emergency braking due to a door flickering indication on LRV 164 doors 3/4
Train 122
T-307
LRV'S ( 164A ) 136-155
Del AmoStation, Track 1, Northbound.

4/6/2017 4:35:00 AM - Incident\# 2853090 (0 lost trips, 10 lost minutes)
Doors/Propulsion Fault
Train 104
T-174
245-(231)-242
Trk 1 N/B 103 rd Station
10 minute service delay

```
4/6/2017 4:35:00 PM - Incident# 2853360 (2 lost trips, 333 lost minutes)
Train-126
T-505
Cars (162A)-120-123
Southbound, Track #2
7th/Metro Station.
Other Vehicle System (Blown Motor Fuse)
4/8/2017 1:13:00 AM - Incident# 2853815 (0 lost trips, 20 lost minutes)
Train operator T-183 reports of no movement spin slide.
Train }10
T-183
Cars (250-241-302)
Willowbrook Station, Track 1, Northbound
4/8/2017 5:09:00 AM - Incident# 2853843 (1 lost trip, 161 lost minutes)
Train 101, LRVs (301A), 229, and 245.
4/9/2017 11:23:00 AM - Incident# 2854102 (0 lost trips, 12 lost minutes)
Pantograph chipped on LRV 130A
T-390
Train 107
LRV (130A) 123 111
Pacific Station, Track 1, northbound.
4/9/2017 1:38:00 PM - Incident# 2854125 (0 lost trips, }12\mathrm{ lost minutes)
Propulsion / Dynamic Brakes no movement LRV 301A
T-490
Train }11
LRV (301A) 229 233
Compton Station, Track 2, southbound.
4/10/2017 9:42:00 AM - Incident# 2854477 (0 lost trips, 12 lost minutes)
Propulsion / Dynamic Brakes
(240A)-210-241
Train 108
T-115
Dominguez Flyover, Southbound, Track 2
4/10/2017 11:09:00 AM - Incident# 2854433 (1 lost trip, 168 lost minutes)
Doors ( Will Not Open)
(239)-248-301
Train 109
T-211
Slauson, Southbound, Track 2
4/11/2017 4:11:00 AM - Incident# 2854937 (0 lost trips, 4 lost minutes)
Train }102\mathrm{ reports Propulsion Faults on LRV 156A & B
Train }10
T-293
LRVS (156A ) 143-110
San Pedro, Track 2, Southbound.
4/11/2017 3:15:00 PM - Incident# 2854924 (1 lost trip, 171 lost minutes)
Doors on train 119 due to a bad door switch on LRV 239A .
Train }11
T-348
LRVS ( 239A ) }23
Metro Center, track 2, southbound
4/12/2017 8:21:00 AM - Incident# 2855151 (0 lost trips, 4 lost minutes)
Train }116\mathrm{ reports Propulsion Faults with a speed restriction 35mph. Emergency lighting.
Train }11
T-043
LRVS ( 240A ) 250-233
103rd Street Station, track 1, northbound.
```

4/12/2017 12:47:00 PM - Incident\# 2855305 (13 lost trips, 2,179 lost minutes)
Train 111 reports friction brake problems with no movement.
Train 111
T-415
LRV'S 155-( 137 ) 116
7th \& Metro Portal, track 1, northbound.

4/12/2017 10:11:00 PM - Incident\# 2855486 (0 lost trips, 20 lost minutes)
Operator reports of no movement.
Train 109
T-86
Cars(157B)-141
Slauson Station, Track 2, southbound
4/13/2017 6:03:00 AM - Incident\# 2855576 (1 lost trip, 168 lost minutes)
Propulsion Fault
Train 101
T-187
(132-198-106)
N/B PCH Trk 1
6 minute delay

4/13/2017 12:14:00 PM - Incident\# 2855737 (1 lost trip, 183 lost minutes)
Friction Brakes
(135)-119-155

Train 106
T-102
Pico, Southbound, Track 2
4/13/2017 1:29:00 PM - Incident\# 2855825 (0 lost trips, 5 lost minutes)
Train 104 reports Propulsion Faults on LRV 301, Speed restriction 35mph.
Train 104
T-043
LRVS 301-242-235
Florence Station, Track 1 Northbound.

4/13/2017 2:13:00 PM - Incident\# 2855788 (1 lost trip, 184 lost minutes) Train 105 reporting emergency Braking at Pico Station Operating LRV 239B
Train 105
T-293
LRVS ( 239 ) 237-232
Pico Station, Track 2, Southbound.
4/13/2017 5:06:00 PM - Incident\# 2855839 (1 lost trip, 168 lost minutes) Train 120 reports an air leak on her consist.
Train 120
T-053
LRVS 113A-165-151
Artesia Station, track 1, northbound.
4/14/2017 1:50:00 PM - Incident\# 2856113 (1 lost trip, 166 lost minutes)
Propulsion Track Brake Fault.

Train\#103
T\#357
(239B),237,301
Track 1,Northbound,Anaheim
4/14/2017 2:00:00 PM - Incident\# 2856127 (1 lost trip, 166 lost minutes)
Door problem.
Train\#102
T\#46
(235A), 241,248
Track\#2,Compton Station,Southbound

4/15/2017 5:00:00 AM - Incident\# 2856246 (0 lost trips, 5 lost minutes)
Operator reports of doors not opening on car 248.

T-335
Train\#101
Cars241-(248)-233
Southbound
Trk \#2

4/15/2017 9:50:00 AM - Incident\# 2856291 (0 lost trips, 16 lost minutes)
Friction brake fault at Pacific Station.Conducted a 90 second shutdown and 10-37 @ 1000 hrs.
Train\#102
T\#355
(135B),128,167
Northbound,Pacific Station
4/17/2017 7:16:00 AM - Incident\# 2856640 (1 lost trip, 174 lost minutes)
Train has reoccurring propulsion with a speed restriction.
Train 117, T-231
232-(302)-(301)
Track 1, Pico, North

4/17/2017 11:43:00 AM - Incident\# 2856766 (1 lost trip, 183 lost minutes)
Auto Train Protection (Speed Limit) (Blown Motor Fuse)
116-(109)-127
Train 111
T-82
Ananheim, Northbound, Track 1
4/17/2017 3:01:00 PM - Incident\# 2856874 (1 lost trip, 168 lost minutes)
Friction Brakes
(239)-237-229

Train 122
T-495
Yard Interlocking, Northbound, Track 1
4/17/2017 4:37:00 PM - Incident\# 2856906 (0 lost trips, 9 lost minutes)
No fault/No movement
Train 110 Track \#1 NB
Anaheim Street
T-495
(229)-237

4/19/2017 6:44:00 AM - Incident\# 2857425 (0 lost trips, 12 lost minutes)
Heating / Air Conditioning (Noise coming from articulated section relating to HVAC)
(106A)-107-120
Train 109
T-115
Firestone, Southbound, Track 2
4/19/2017 1:01:00 PM - Incident\# 2857607 (1 lost trip, 183 lost minutes)
LVPS fault (Battery Charger)
(232A)-231-301
Train 111
T-34
Washington and Central, Southbound, Track 2

4/20/2017 5:26:00 AM - Incident\# 2857799 (0 lost trips, 6 lost minutes)
Reports of misaligned operator cab door
Train \#
T-110
(155B)-139-136
Transit Mall, Track 1, NB

4/20/2017 11:30:00 AM - Incident\# 2858001 (0 lost trips, 9 lost minutes)
Auto Train Protection (Speed Limit) (No Speed Code)
(1054)-1039-1062

Train 605
T-349
Metro Center, Southbound, Track 2

4/20/2017 12:27:00 PM - Incident\# 2858011 (0 lost trips, 6 lost minutes)
Doors (Slow to open)
(302A Doors $1 / 2 \& 3 / 4-$-)-232
Train 105
T-164
Slauson, Track 2, Southbound
4/20/2017 5:50:00 PM - Incident\# 2858122 (1 lost trip, 181 lost minutes)
Train operator T-72 reports no movement.
Train 109
T-72
Cars (135B)-122-141
Imperial Pocket, Track 2, southbound
4/24/2017 2:51:00 PM - Incident\# 2859232 (0 lost trips, 6 lost minutes)
Train 103 is reporting propulsion faults with a speed restriction on LRV 153B

Train 103
T-110
LRVS (153B) 148-126
Grand Station, track 2, southbound.
4/24/2017 6:53:00 PM - Incident\# 2859304 (1 lost trip, 168 lost minutes)
Propulsion fault with a speed restriction.
Reports recurring propulsion dynamic brake fault.
Train \# 126
T-307
(232B)-237-231
SB, Firestone Station, Track \#2

4/25/2017 4:10:00 PM - Incident\# 2859626 (1 lost trip, 172 lost minutes)
Car 145 has a E-2 code (Prop Fault with a speed restriction)
T-363
Train-104
Consist 124-117(145)
7th \& Metro, Track \#1, Southbound

4/26/2017 4:23:00 PM - Incident\# 2860026 (1 lost trip, 174 lost minutes)
Train 120 reports no movement with Propulsion faults.
Train 120
T-321
LRVS 117-137-129
Wardlow Station, track 2, southbound.
4/27/2017 2:54:00 PM - Incident\# 2860394 (1 lost trip, 168 lost minutes)
Train-119
T-487
Cars (232A)-302-230
Northbound, Track \#1
Washington Station
Car Body (Interior/Exterior) reports of the rightside skirt on car 232A damaged.

4/28/2017 4:29:00 PM - Incident\# 2860892 (1 lost trip, 166 lost minutes)
Train-103
T-258
Cars (165)-100-138
Northbound, Track \#1
Compton Station
Propulsion / Dynamic Brakes at Compton Station Re occurring.
4/30/2017 1:55:00 AM - Incident\# 2861235 (0 lost trips, 20 lost minutes)
Train operator reports propultion fault with no movement.
Train 107, T-81
115-(120B)
Track 2, Slauson, South.

4/30/2017 11:38:00 AM - Incident\# 2861318 (1 lost trip, 128 lost minutes)
No movement at 9th and Pacific.
Train\#107
T\#293
(232A), 234
Northbound,9th and Pacific

## Wayside Incidents:

4/3/2017 4:14:00 PM - Incident\# 2852064 (0 lost trips, 10 lost minutes)
Breakers BO2 and BO3 at PIco TPSS open by it self. Power was lost between Pico Station an Metro Center tracks 1 and 2 .
4/5/2017 3:03:00 PM - Incident\# 2852893 (0 lost trips, 15 lost minutes)
Control was not able to Stop Signal 2 S Mainyard Interlocking.

4/9/2017 10:49:00 AM - Incident\# 2854098 (0 lost trips, 15 lost minutes)
Washington and Vernon TPSS breakers opened. Vernon North ETS activated unable to reset.
4/26/2017 5:20:00 AM - Incident\# 2859767 ( $\mathbf{7 4}$ lost trips, 12,420 lost minutes)
PD\&G FOR DAMAGED TRAIN AND OCS INSPECTION.

4/26/2017 3:50:00 PM - Incident\# 2860032 (0 lost trips, 10 lost minutes)
False Occupancy on track circuits 131 and 132, tracks 1 and 2 from Compton PED to Greenleaf Crossing.
4/30/2017 8:40:00 AM - Incident\# 2861297 (0 lost trips, 6 lost minutes)
OCS inspection from 1N Artesia to 1 S Mainyard Interlocking.

## Police \& Health Incidents:

4/8/2017 5:10:00 PM - Incident\# 2853981 (0 lost trips, 5 lost minutes)
Train 108 report a lady passed out and vomiting on board LRV 158A.
Train 108
T-081
LRV;S (158A) 140-127
Willowbrook Station, track 1, Northbound.
4/10/2017 8:23:00 PM - Incident\# 2854612 (0 lost trips, 10 lost minutes)
Car 111 assualt, Male Patron bleeding. Assaulted by 2 other males.
T-75
Train 101
Cars 107-(111)-123
Willowbrook Station, Track 2, southbound.
4/12/2017 4:46:00 AM - Incident\# 2855068 (0 lost trips, 20 lost minutes)
Blockade/Pedestrian Injured/Metro Not involved
Train 105
T-87
141-167-127
Willowbrook GC N/B
Between tracks 1 \& 2

4/16/2017 5:23:00 AM - Incident\# 2856437 (4 lost trips, 490 lost minutes)
CCTV R-458 Reports a White Male with a knife at Washington Station.

4/16/2017 11:05:00 AM - Incident\# 2856463 (0 lost trips, 12 lost minutes)
LASD reports that there is a person with a Knife arguing with another patron onboard train 102, LRV 230
4/16/2017 9:41:00 PM - Incident\# 2856535 (0 lost trips, 10 lost minutes)
Sick Passenger

4/22/2017 8:48:00 AM - Incident\# 2858608 (0 lost trips, 13 lost minutes)
African American female unconscious.
Train\#107
T\#256
145,162,(151A)
Track\#1,Northbound,Imperial Station

4/23/2017 1:29:00 AM - Incident\# 2858768 (0 lost trips, 8 lost minutes)
Operator reports of a male patron unresponsive in the trailing car at 7th/Metro Station.

4/24/2017 6:23:00 PM - Incident\# 2859293 (1 lost trip, 168 lost minutes)
Altercations aboard trains/ Blood
Train \# 101
T-183
244-301-242
SB, Imperial Station, Track \#2
4/26/2017 6:33:00 PM - Incident\# 2860090 (7 lost trips, 1,184 lost minutes)
Deputy Roggee reports of a motor home blocking the ROW at Florence grade crossing.

4/30/2017 5:15:00 PM - Incident\# 2861390 (0 lost trips, 10 lost minutes)
Patron spraying excessive amounts of Lysol on the train and patrons are complaining.
Train\#112
T\#390
(116A),143
Track\#2,Imperial Station,Northbound

4/30/2017 8:58:00 PM - Incident\# 2861416 (0 lost trips, 10 lost minutes)
Trespasser on right of way
Train 102
Track \#2 SB Slauson
T-500

## Other Incidents:

4/1/2017 10:54:00 PM - Incident\# 2851533 (2 lost trips, 247 lost minutes)
Train 109
T-81
Cars (230)-247
Vernon station N/B
4/3/2017 7:35:00 AM - Incident\# 2851810 (0 lost trips, 6 lost minutes)
Door Problem. Emergency Release Pulled.
Train \#116.
T-043.
LRV- (112B), 130, 140.
Vernon Station, Track \#2, Southbound.
4/5/2017 5:51:00 AM - Incident\# 2852656 (0 lost trips, 7 lost minutes)
Outlate
Train 114
T-43
Blue line yard
(123-151)
7 minute late on pull out.

4/23/2017 2:55:00 PM - Incident\# 2858867 (0 lost trips, 4 lost minutes)
Male in refuge area.

4/30/2017 4:15:00 AM - Incident\# 2861242 (0 lost trips, 6 lost minutes) Late Pull out Train 102.

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 26,801 hours operated, there were approximately 83 total hours of service delays.

| Revenue |  |  |
| :--- | ---: | ---: |
| April 2017 Service Hours * | Hours | Percent |
| Revenue Hours without Delays | 26,718 | $99.7 \%$ |
| Cancelled + Delayed Hours | 83 | $0.3 \%$ |
| Total Revenue Hours | $\mathbf{2 6 , 8 0 1}$ | $\mathbf{1 0 0 . 0 \%}$ |


| Summary of the major contributors: | Count | Hours | Percent |
| :---: | :---: | :---: | :---: |
| Operations | 1 | 7.7 | 9.3\% |
| Accidents | 0 | 0.0 | 0.0\% |
| Vehicle Maintenance | 12 | 24.6 | 29.7\% |
| Wayside | 2 | 21.0 | 25.3\% |
| Police \& Health | 8 | 23.4 | 28.1\% |
| Other | 7 | 6.3 | 7.6\% |
| Total | 30 | 83.0 | 100.0\% |

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



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

## Operations Incidents:

4/1/2017 1:20:00 AM - Incident\# 2851350 (4 lost trips, 464 lost minutes)
Train 214 was holding at 7th/Metro AL due to LASD activity. Once LASD cleared the train for eastbound movement the operator reported no movement.

## Vehicle Maintenance Incidents:

4/3/2017 10:18:00 AM - Incident\# 2851927 (0 lost trips, 8 lost minutes)
T-364 reports that as she was proceeding through the interlocking on train $201(575,576,541,542)$ on the AL, she heard a loud noise in one of the trucks and as she arrived at the platform, a propulsion fault showed in car 575.

4/6/2017 10:47:00 AM - Incident\# 2853197 (0 lost trips, 5 lost minutes)
Train $208(569,570,553,554)$ T-333, North Hollywood Station, AR reports he is unable to close the train doors.

4/8/2017 8:37:00 AM - Incident\# 2853873 (2 lost trips, 307 lost minutes)
Train 202 reports no movement due to loss of power on the consist at Vermont Santa Monica AR west.
Train 202
T-175
Cars 585586535538587588 .

4/10/2017 6:20:00 PM - Incident\# 2854588 (1 lost trip, 148 lost minutes)
No Movement: Friction Brakes Not Releasing
Train 217, T-217
Cars: (572), 571, 586, 585, 582, 581

4/12/2017 12:37:00 PM - Incident\# 2855273 (0 lost trips, 10 lost minutes)
Train $203(515,516,521,530)$ T-101, departing Civic Ctr. Station, AL reports flashing cab signals. Problem had occured earlier in the morning departing 7th \& Metro, AL only.

4/13/2017 2:40:00 PM - Incident\# 2855786 (0 lost trips, 10 lost minutes)
Train $213(531,532,561,562,559,560)$ reports dynamic, service brake, propulsion failure fault train line indication with emergency brake application, operating out of car 560 .

4/15/2017 1:57:00 PM - Incident\# 2856338 (1 lost trip, 186 lost minutes)
Emergency brake not releasing in car 559. Service brake and electric brake failure indication.
T-49
Train 205
Cars (559),560,537,538,545,546
Universal City Interlocking AR WB

4/17/2017 1:54:00 PM - Incident\# 2856830 (1 lost trip, 148 lost minutes)
Train $203(517,518,513,514)$ T-179 reports propulsion and service brake fault, train line indication in car 517.
4/19/2017 9:52:00 PM - Incident\# 2857745 (1 lost trip, 148 lost minutes)
CB-1 trip with no movement.
Train \# 217
T-049
Cars \# 519-526-509-508-527-(522).
E/Bound Universal City Station A/L Track.
4/21/2017 8:35:00 AM - Incident\# 2858290 (1 lost trip, 159 lost minutes)
Operator reports door problem, no movement.
Cars: 535536561 (562) 593594
Vermont Santa Monica, AL track, E/bound
Train 210.
T-009.

4/30/2017 10:30:00 AM - Incident\# 2861311 (1 lost trip, 174 lost minutes)
Numerous Emergency brake applications
Train 201
T-254
Cars 535-536-563-564-583-(584)
BR between Wilshire Western and Normandie

4/30/2017 4:04:00 PM - Incident\# 2861376 (1 lost trip, 174 lost minutes)
Train 205: Air Leak
Cars 603, 604, 589, 590, (539), 540
T-049
Wishire Western BL

## Wayside Incidents:

4/11/2017 11:36:00 PM - Incident\# 2855032 (6 lost trips, 910 lost minutes)
TRACS indicates ETS trip AL west ETS 054 at 23:36 hrs also ETS 053 AR East at 23:39 hrs.
4/30/2017 2:19:00 PM - Incident\# 2861348 (2 lost trips, 348 lost minutes)
Union Station West Interlocking AL Track False Occupancy

## Police \& Health Incidents:

4/5/2017 1:53:00 PM - Incident\# 2852846 (1 lost trip, 154 lost minutes)
Train $203(517,518,509,508)$ T-384, approaching Wilshire Vermont Station, AL reports PIC activation.
4/13/2017 6:05:00 AM - Incident\# 2855588 (6 lost trips, 890 lost minutes)
Train 211 reports trespasser.
Universal City Interlocking.
T-367.
Cars: 547548597598571572.

4/17/2017 4:43:00 AM - Incident\# 2856569 (2 lost trips, 297 lost minutes)
Female patron assualted on train 210, car 542 at North Hollywood.

4/19/2017 11:04:00 AM - Incident\# 2857527 (0 lost trips, 5 lost minutes)
Train $201(583,584,581,582)$ T-271 in approach to Hollywood Highland Station reports he received a PIC report of a possible medical cituation on board the train.

4/22/2017 11:50:00 AM - Incident\# 2858646 (0 lost trips, 9 lost minutes)
Train 207 car 599 T-516 reports a Male Hispanic expressing verbal threats to other passengers. Individual was yelling he was going to kill someone with a knife.

4/22/2017 1:40:00 PM - Incident\# 2858626 (0 lost trips, 18 lost minutes)
Westlake AL East a trespasser is on the AL Emergency Walkway.

4/26/2017 12:14:00 PM - Incident\# 2859932 (0 lost trips, 13 lost minutes)
LASD Dixon request we hold westbound train 201 at Hollywood/Western.
Possible man with a gun.
4/27/2017 9:22:00 AM - Incident\# 2860239 (0 lost trips, 15 lost minutes)
Trespasser on the AR at Wilshire Vermont

## Other Incidents:

4/3/2017 2:35:00 PM - Incident\# 2852015 (0 lost trips, 6 lost minutes)
Train \#205. Cars \#591-592-573-574, female patron refused to exit at Union Station A/L.
4/9/2017 11:34:00 AM - Incident\# 2854100 (1 lost trip, 174 lost minutes)
Train 204 car 604 Service Attendant M-763 reports urine all over the train, he is unable to clean biohazard liquid on the Mainline. Biohazards Tiger Team are only in the Yard.

4/9/2017 6:41:00 PM - Incident\# 2854179 (1 lost trip, 174 lost minutes)
Dirty Car \# 505
Union Station AL East
T-179 Train \# 204
Car \# (505)-506-519-526

4/13/2017 7:59:00 AM - Incident\# 2855629 (0 lost trips, 10 lost minutes)
Train $215(525,524,513,514,515,516)$ T-124, North Hollywood Station, AR reports LASD is holding the train.
4/18/2017 9:17:00 AM - Incident\# 2857087 (0 lost trips, 5 lost minutes)
S-021 reports male, black individual, wearing black pants, gray hoodiie, exposing himself on board car 504
4/20/2017 1:35:00 PM - Incident\# 2858028 (0 lost trips, 5 lost minutes)
Male patron requesting medical due to chest pains on board Train 209, car 595 at Union Station.

4/21/2017 7:11:00 AM - Incident\# 2858313 (0 lost trips, 5 lost minutes)
Train Operator observed sparks underneath third rail caused by debris.
Hollywood Western Station, AR, W/bound.
Train 207, cars: 543544589590571572
T-080.

## MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS

COMPLIANCE WITH SCHEDULED VEHICLE HOURS


COMPLIANCE WITH SCHEDULED TRAIN MILES


## ON-TIME PULL OUTS



IN-SERVICE ON-TIME PERFORMANCE


LOST TRIPS


LOST TRIPS


## VERTICAL TRANSPORTATION AVAILABILITY




## GREEN LINE

Out of a total of 8,027 hours operated, there were approximately 24 total hours of service delays.

|  |  | Revenue |  |
| :--- | ---: | ---: | :---: |
| April 2017 Service Hours * | Hours | Percent |  |
| Revenue Hours without Delays | 8,003 | $99.7 \%$ |  |
| Cancelled + Delayed Hours | 24 | $0.3 \%$ |  |
| Total Revenue Hours | $\mathbf{8 , 0 2 7}$ | $\mathbf{1 0 0 . 0 \%}$ |  |


| Summary of the major contributors: | Count | Hours | Percent |
| :---: | :---: | :---: | :---: |
| Operations | 4 | 0.4 | 1.7\% |
| Accidents | 0 | 0.0 | 0.0\% |
| Vehicle Maintenance | 25 | 20.9 | 88.4\% |
| Wayside | 4 | 0.9 | 3.8\% |
| Police \& Health | 8 | 1.4 | 6.1\% |
| Other | 0 | 0.0 | 0.0\% |
| Total | 41 | 23.6 | 100.0\% |

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



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

Operations Incidents:
4/12/2017 3:50:00 PM - Incident\# 2855373 (0 lost trips, 7 lost minutes)
T-235 requested starlight sick due to pain not associated with work. Per Yard Control R-074
Marine Station Track \#2. Eastbound
Train 344
(225)-207T-235
4/19/2017 9:03:00 AM - Incident\# 2857470 (0 lost trips, 5 lost minutes)
10-100, cars (219)-204
Train \#336
T-148
Norwalk Station, Track \#002, Eastbound.
4/22/2017 3:18:00 PM - Incident\# 2858690 (0 lost trips, 5 lost minutes)
Train \#331 Cars \#216-218, service delay of five minutes due to operator 10-100.
4/25/2017 2:59:00 PM - Incident\# 2859600 (0 lost trips, 7 lost minutes)
Operator reports the mirror is extremely loose on Car 210B.
Cars (210), 209
Train 333
T-64
Wilmington TRK1, westbound
Vehicle Maintenance Incidents:
4/1/2017 1:19:00 PM - Incident\# 2851445 (1 lost trip, 60 lost minutes)
Report of propulsion failure with no movement.
T-078
Train-331
217-(222)
Hawthorne track 2 east bound
4/2/2017 7:52:00 AM - Incident\# 2851585 (0 lost trips, 15 lost minutes)perating car 208B coupled to 219
4/2/2017 8:54:00 AM - Incident\# 2851595 (1 lost trip, 62 lost minutes)
Train 332 unclearable propulsion faults at Wilmington station track 2. Operator T-112 with 210B coupled to 205.
4/3/2017 4:34:00 AM - Incident\# 2851757 (1 lost trip, 66 lost minutes)
Train 337 having propulsion faults and Door problems at Douglas station. Operator T-210 with cars 223206.
4/4/2017 10:21:00 PM - Incident\# 2852590 (0 lost trips, 9 lost minutes)
ATP Fail light with no movement and unable to uncouple.
Train 345
T-55
Track 2, E/B
Marine Station
(211B)-205ATO and manual modes
4/5/2017 5:54:00 AM - Incident\# 2852648 (2 lost trips, 136 lost minutes)
ATP fail light with no movement. Report of flat wheels on both cars. (224-217)
Train 337
T-20
Track 1, W/B
Douglas Station(224B)-217
4/5/2017 10:40:00 AM - Incident\# 2852756 (0 lost trips, 8 lost minutes)
Doors, cars \#(203A)-218
Train \#334
T-136
Long Beach Station, Track \#002, Eastbound

4/5/2017 6:08:00 PM - Incident\# 2852966 (0 lost trips, 7 lost minutes)
Intermittent Friction brake Fault on car 227
Train 342
(227)-243

T-274
Hawthorne Station Track \#1. Westbound

4/6/2017 5:06:00 PM - Incident\# 2853372 (1 lost trip, 75 lost minutes)
Propulsion / Dynamic Brakes, (219A)-207
Train \#346
T-044
Long Beach Station, Track \#002, Eastbound.
4/8/2017 5:07:00 AM - Incident\# 2853823 (1 lost trip, 60 lost minutes)
Train 332 reports no cab signal just west of Norwalk west IL on track 1. Operator T-279 unable to troubleshoot.
Operating car 218A with 212.

4/10/2017 6:12:00 AM - Incident\# 2854294 (3 lost trips, 197 lost minutes)
Train 332 reports propulsion faults with no movement at Hawthore station plt 1. Operator T-343 with car 223 coupled to 226 .

4/10/2017 6:34:00 AM - Incident\# 2854318 (0 lost trips, 6 lost minutes)
Train 337 with T-279 reports propulsion faults at Long Beach station EB. cars 228 and 227. Vehicle tech M-176 and Operator unable to troubleshoot.

4/11/2017 7:20:00 AM - Incident\# 2854723 (0 lost trips, 5 lost minutes)
ATP Fail indicator. No movement.
Train 337
Track 2, E/B
Marine Station
T-261
ATO and MTO modes
(211B)-209
4/11/2017 2:19:00 PM - Incident\# 2854886 (0 lost trips, 7 lost minutes)
Operator reports a door problem and is unable to proceed.
Cars 210, 212
Train 342
T-261
marine TRK 2. eastbound

4/13/2017 6:05:00 AM - Incident\# 2855570 (0 lost trips, 24 lost minutes)
Auto Train Protection (Speed Limit)
T-148
Train 334
LRV 202-223
YDI 6, Track 1, westbound.
4/14/2017 10:11:00 PM - Incident\# 2856211 (0 lost trips, 15 lost minutes)
Single car 204 lost of air pressure.
T-450
car 204
Track 2
Eastbound
just east of Aviation west inter locking

4/21/2017 4:22:00 AM - Incident\# 2858204 (1 lost trip, 64 lost minutes)
No cab signal. Train departed in stop and proceed mode from marine Station to Douglas Station. Train did mot pick up cab signal.

4/21/2017 8:08:00 AM - Incident\# 2858280 (0 lost trips, 7 lost minutes)
Propulsion / Dynamic Brakes
(213A)-205
Train 336
T-370
Aviation, Westbound, Track 1

## 4/21/2017 12:54:00 PM - Incident\# 2858429 (0 lost trips, 11 lost minutes)

Friction Brakes
(202)-206

Train 334
T-136
Aviation East, Westbound, Track 1

4/21/2017 1:10:00 PM - Incident\# 2858435 (0 lost trips, 10 lost minutes)
Propulsion / Dynamic Brakes
(227A)-204
Train 335
T-255
Wilmington, Westbound, Track 1
4/26/2017 5:06:00 PM - Incident\# 2860051 (2 lost trips, 132 lost minutes)
Pulled-T
Car 212
Train 335
T-105
Lakewood Station
Eastbound
4/27/2017 4:31:00 PM - Incident\# 2860423 (1 lost trip, 66 lost minutes)
Dirty train
Train 242
car 210
Norwalk Station
4/28/2017 9:38:00 AM - Incident\# 2860695 ( 1 lost trip, 64 lost minutes)
Train 331 operated by T-436 cars 227A with 219 reports friction brake faults at Avalon station track 1. No
Movement.
4/30/2017 7:23:00 AM - Incident\# 2861253 (1 lost trip, 74 lost minutes)
Operator reports no cab signals from Car 211A.
Cars (211A), 203
Train 341
T-458
Norwalk TRK1, westbound
4/30/2017 11:32:00 PM - Incident\# 2861432 (1 lost trip, 70 lost minutes)
Operator reports he has lost air and is unable to proceed in Car 213.
Car 213
Train 333
T-260
MPM 1.49, TRK 2 eastbound
Wayside Incidents:
4/13/2017 4:48:00 AM - Incident\# 2855534 (0 lost trips, 18 lost minutes) Marine Interlocking Track Circuit 11, Track Circuit: False Occupancy.

4/19/2017 4:34:00 PM - Incident\# 2857663 (0 lost trips, 10 lost minutes)
OCS: Debris In Catenary
Train \#342
T-255
Paramount Signal \#008, Track \#001, Westbound
4/21/2017 10:31:00 AM - Incident\# 2858326 (0 lost trips, 13 lost minutes)
OCS: Other (Repair)
4/22/2017 6:12:00 PM - Incident\# 2858725 (0 lost trips, 12 lost minutes)
ARINC indicates recurring false occupancy track circuit \#257.

1. MS-137
2. MS-126

Police \& Health Incidents:
4/2/2017 7:22:00 PM - Incident\# 2851700 (0 lost trips, 11 lost minutes)
A Patron requested Medical Assistance on Train 351
213-(209)
T-247
Marine Station Track \#2. Eastbound.
4/3/2017 12:48:00 AM - Incident\# 2851735 (0 lost trips, 20 lost minutes)
Operator reported that a Patron was having trouble breathing on Train 331
T-450
207
Vermont Station Westbound Track \#1.

4/3/2017 8:25:00 PM - Incident\# 2852100 (0 lost trips, 13 lost minutes)
Avalon/Female passenger requesteing medical for her hand.

4/4/2017 11:34:00 AM - Incident\# 2852353 (0 lost trips, 4 lost minutes)
Altercations aboard trains, cars \#(212A)-216
LASD: Arrellano
Train \#333
T-057
Vermont Station, Track \#002, Eastbound

4/15/2017 7:26:00 AM - Incident\# 2856270 (0 lost trips, 9 lost minutes)
Wilmington/LASD reports a non-responsive female passenger

4/20/2017 5:52:00 PM - Incident\# 2858113 (0 lost trips, 10 lost minutes)
LASD held Train 343 at Norwalk Station to check the consist for a Robbery Suspect.
Train 343
(210)-217

Norwalk Station Track \#1. Westbound.
4/23/2017 8:31:00 AM - Incident\# 2858797 (0 lost trips, 12 lost minutes)
Train \# 333 Cars \#221-208,reports a non responsive patron on board.

4/29/2017 5:42:00 PM - Incident\# 2861182 (0 lost trips, 7 lost minutes)
Train \# 333 Operator T-071, reports three juveniles running on the platform with one falling injuring himself. Cars \#222-227-A.

## 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 19,195 hours operated, there were approximately 118 total hours of service delays.

|  | Revenue |  |
| :--- | ---: | ---: |
| April 2017 Service Hours * | Hours | Percent |
| Revenue Hours without Delays | 19,077 | $99.4 \%$ |
| Cancelled + Delayed Hours | 118 | $0.6 \%$ |
| Total Revenue Hours | $\mathbf{1 9 , 1 9 5}$ | $\mathbf{1 0 0 . 0 \%}$ |


| Summary of the major contributors: | Count |  | Hours |
| :--- | ---: | ---: | ---: |
| Percent |  |  |  |
| Operations | 3 | 0.4 | $0.3 \%$ |
| Accidents | 3 | 4.7 | $4.0 \%$ |
| Vehicle Maintenance | 25 | 88.5 | $74.9 \%$ |
| Wayside | 2 | 15.9 | $13.5 \%$ |
| Police \& Health | 6 | 8.7 | $7.3 \%$ |
| Other | 0 | 0.0 | $0.0 \%$ |
| Total | $\mathbf{3 9}$ | $\mathbf{1 1 8 . 2}$ | $\mathbf{1 0 0 . 0 \%}$ |

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



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

Operations Incidents:10-100, cars \#(712A)-70
Train \#453T-039
Azusa/Citrus Station, Track \#002, Southbound
4/11/2017 5:46:00 AM - Incident\# 2854674 (0 lost trips, 6 lost minutes)
T-340 did not follow his summary and this resulted in a 6 minute delay SB from APU.
4/17/2017 8:28:00 AM - Incident\# 2856671 (0 lost trips, 7 lost minutes)
K-9 on the Right of Way Train Delay
Accidents:
4/8/2017 9:15:00 PM - Incident\# 2854010 ( 0 lost trips, 8 lost minutes)
Operator reports that a male white $10-390$ possibly made contact with his train as the train departed from the
platform.
T-406
Consist (740B)736
Train-412Memorial Park, Track \#2, Southbound
4/12/2017 4:20:00 PM - Incident\# 2855409 (0 lost trips, 15 lost minutes)
Patron fell onto the track \#1.
Fillmore StationTrain \#405, T-207, track \#2, southbound.
4/26/2017 6:41:00 PM - Incident\# 2860062 (1 lost trip, 258 lost minutes)
Bicycle made contact with train consist on platform, medical assistance is needed
Little Tokyo Station
Train \#454, T-429, track \#1, northbound.
Consist (705)704.
Vehicle Maintenance Incidents:
4/1/2017 6:09:00 PM - Incident\# 2851500 (0 lost trips, 4 lost minutes)
Car 1058A prop faults with speed restriction
T-382
Train-412
Consist (1058A)1010
Irwindale Station, Track \#2, Southbound
4/2/2017 10:11:00 AM - Incident\# 2851615 (1 lost trip, 230 lost minutes)
Train $405(718,720)$ T-018 reports jerky propulsion, no fault indication.
4/2/2017 10:35:00 AM - Incident\# 2851630 ( 0 lost trips, 15 lost minutes)
Train 407 (1010-1007) T-466, Irwindale Station, track 2, reports propulsion fault with speed restriction,
requests authorization to key down at Duarte Station.
4/2/2017 1:09:00 PM - Incident\# 2851644 ( 1 lost trip, 224 lost minutes)
Train $412(708,711)$ T-11 reports LVPS fault indication in trailing car.
4/4/2017 6:15:00 PM - Incident\# 2852552 (0 lost trips, 12 lost minutes)
Emergency brake fault trainline (717)743.
Monrovia Yard Interface
Train \#406, T-159, track \#2, southbound.
4/5/2017 5:28:00 AM - Incident\# 2852639 (1 lost trip, 250 lost minutes)
Acceleromeer not functioning on car 73
T-122Train 401Tk 1 NB Duarte
733-723

4/6/2017 4:01:00 AM - Incident\# 2853064 (0 lost trips, 15 lost minutes)
Train 403 Friction Break and Propulsion fault 721A
T-128
Train 403
Tk2 SB APU
721-746

4/6/2017 5:37:00 PM - Incident\# 2853379 ( 1 lost trip, 247 lost minutes)

## CB1 trip

Train 421
Track 2 southbound Union
727745 (740)
4/9/2017 9:00:00 PM - Incident\# 2854192 ( 1 lost trip, 224 lost minutes)
Prop fault, reduced speed, car 1010.
Train 403
T-411
Consist 1059-1010
East Portal, Track 1 northbound.
4/10/2017 6:20:00 PM - Incident\# 2854589 (1 lost trip, 247 lost minutes)
Propulsion fault (750)743,732.
Allen Station
Train \#423, T-263, track \#1, southbound.
4/11/2017 6:42:00 AM - Incident\# 2854715 (2 lost trips, 479 lost minutes)
Smoking brakes on car 749
T-461
Train 455
NB tk 1 Monrovia Station
701-749
4/12/2017 2:18:00 PM - Incident\# 2855340 (1 lost trip, 251 lost minutes)
Dirty vehicle (746)741.
Atlantic Station
Train \#434, T-207, track \#1 northbound.
4/13/2017 3:57:00 PM - Incident\# 2855810 (1 lost trip, 239 lost minutes)
Train 401
T-452
LVPS fault/emergency lighting/speed restriction
Monrovia Station track 1
(747) 729

4/14/2017 5:09:00 AM - Incident\# 2855918 (1 lost trip, 238 lost minutes) Operator reports of propulsion faults, door problems with no movement

Train 416
T-250
(743)725-733

Azusa Citrus Station, Trk. 1, southbound
4/14/2017 6:47:00 AM - Incident\# 2855974 (0 lost trips, 13 lost minutes)
Operator reports of doors not opening
Train 419
T-340
(1009B)1013
Filmore Station, Trk. 2, southbound
4/17/2017 2:24:00 PM - Incident\# 2856869 (1 lost trip, 239 lost minutes)
(713)-724

Propulsion Faults
SB Downtown Azusa
Train 403
T482

4/20/2017 2:56:00 PM - Incident\# 2858048 (2 lost trips, 477 lost minutes)
LVPS failure on consist 712(710).
Southwest Museum Station
Train \#403, T-382, track \#1, northbound.

## 4/21/2017 4:53:00 AM - Incident\# 2858185 (1 lost trip, 245 lost minutes)

Operator reports of a propulsion fault with a High Speed Circuit Breaker fault and a speed restriction of 35
MPH

Train 414
T-066
(724)747-728

Irwindale Station, Trk. 2, southbound

4/21/2017 2:40:00 PM - Incident\# 2858452 (1 lost trip, 239 lost minutes)
Propulsion / Dynamic Brakes, (1012-1058)
Train \#453/8407
T-163 and T-189
South West Museum Station, Track \#002, Southbound.
4/21/2017 4:20:00 PM - Incident\# 2858481 (1 lost trip, 238 lost minutes)
Propulsion / Dynamic Brakes, cars \#(728)-747
Train \#407
T-215
Sierra Madre Villa Station, Track \#002, Southbound

4/24/2017 7:02:00 AM - Incident\# 2859033 (1 lost trip, 259 lost minutes)
Prop and Friction brake faults car 716
Train 416
T-120
Track 1 NB Pico Aliso
716-717
4/24/2017 11:20:00 AM - Incident\# 2859165 (1 lost trip, 239 lost minutes) Car 1011 propulsion fault no movement.
T-19
Train 405
Cars 1011, 1010
Atlantic Station Track 2 NB.

4/28/2017 8:44:00 AM - Incident\# 2860673 (1 lost trip, 238 lost minutes)
(1055)-1013

Propulsion Fault
SB Indiana
T-11
Train 405

4/29/2017 4:09:00 AM - Incident\# 2860999 (1 lost trip, 224 lost minutes)
Train 404, LRV's (723) and 717.
APU/ Citrus Station, Track 1 south.
Friction Brakes not releasing.

4/30/2017 3:54:00 PM - Incident\# 2861381 (1 lost trip, 224 lost minutes)
Car 729 with minor/major prop faults and speed restriction.
T-470
Train 408
Train 408
Irwindale Station, Track 2, southbound.

## Wayside Incidents:

4/27/2017 8:58:00 PM - Incident\# 2860494 (2 lost trips, 477 lost minutes)
South Pasadena PD \# 2026 reports Broken gate.
Mission Meridian, TK 2, gate \# 1.
4/27/2017 10:24:00 PM - Incident\# 2860510 (2 lost trips, 477 lost minutes)
Pasadena/Monterey broken gate and making contact with OCS, TK 2.
Police \& Health Incidents:
4/3/2017 4:54:00 PM - Incident\# 2852074 (0 lost trips, 10 lost minutes)
Trespasser on the right of way.
101 freeway over pass.

4/4/2017 6:41:00 PM - Incident\# 2852559 (0 lost trips, 11 lost minutes)
Patron needs medical assistance.
Heritage Square Station
Train \#403, T-195, track \#1, northbound.
1055, 1006.

4/22/2017 7:52:00 PM - Incident\# 2858647 (0 lost trips, 9 lost minutes)
Female passanger claim of internal pain 733-(738)
Train 408
T-304
Northbound
Indiana Station

4/24/2017 8:06:00 AM - Incident\# 2859058 (2 lost trips, 479 lost minutes)
Vehicle blocking Track 2 at Maravilla Station.
4/26/2017 4:31:00 PM - Incident\# 2860033 (0 lost trips, 5 lost minutes)
LASD requests no trains in the area of Ave 57 due to police activity.

4/29/2017 5:55:00 AM - Incident\# 2861016 (0 lost trips, 7 lost minutes)
Train 408 reported car on the ROW

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



COMPLIANCE WITH SCHEDULED TRAIN MILES


## ON-TIME PULL OUTS

Metro Gold Line 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 18,655 hours operated, there were approximately 71 total hours of service delays.

| Revenue |  |  |
| :--- | ---: | ---: |
| April 2017 Service Hours * | Hours | Percent |
| Revenue Hours without Delays | 18,584 | $99.6 \%$ |
| Cancelled + Delayed Hours | $\mathbf{7 1}$ | $0.4 \%$ |
| Total Revenue Hours | $\mathbf{1 8 , 6 5 5}$ | $\mathbf{1 0 0 . 0 \%}$ |


| Summary of the major contributors: | Count | Hours | Percent |
| :--- | ---: | ---: | ---: |
| Operations | 4 | 20.6 | $29.1 \%$ |
| Accidents | 1 | 6.1 | $8.7 \%$ |
| Vehicle Maintenance | 11 | 24.9 | $35.2 \%$ |
| Wayside | 1 | 2.4 | $3.3 \%$ |
| Police \& Health | 3 | 6.8 | $9.6 \%$ |
| Other | 2 | 10.0 | $14.2 \%$ |
| Total | $\mathbf{2 2}$ | $\mathbf{7 0 . 7}$ | $\mathbf{1 0 0 . 0 \%}$ |

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


April 2017 Expo Line major delay contributors were as follows:


Multiple trains,beginning with Train\#605 were turned backed at 23rd Street Station due to OCS damage reported at 7th and Metro.
Train\#605
T\#89
103,104,133
Track\#3,northbound
,23rd Street Station
4/8/2017 12:56:00 AM - Incident\# 2853818 (0 lost trips, 18 lost minutes)
Train operator T-532 reports of no movement.
Train 621
T-532
Cars (1032) 1040, 1034
23rd St Station, Track 3, northbound
4/18/2017 8:45:00 PM - Incident\# 2857323 (0 lost trips, 20 lost minutes)
Propulsion fault
Train 629
Car 238A
Arlington Grade crossing
Northbound
4/24/2017 11:45:00 AM - Incident\# 2859177 ( $\mathbf{1}$ lost trip, 119 lost minutes)
Operator reports of a propulsion fault.
Train 607
T-123
(1026)1017-1028
La Cienega station, Trk. 4, southbound
4/24/2017 3:31:00 PM - Incident\# 2859240 (1 lost trip, 119 lost minutes)
Operator reports no movement from Car 142A.
Cars 102, 146, (142A)
Train 609
T-405
7th and Metro TRK 2 BP
4/25/2017 8:28:00 AM - Incident\# 2859468 (0 lost trips, 6 lost minutes)
Auto Train Protection (Speed Limit) ( No transisition to street run)
(1045)-1039-1054
Train 602
T-349
Western, Northbound, Track 3
4/30/2017 3:50:00 PM - Incident\# 2861392 (0 lost trips, 4 lost minutes)
Car 1053A prop faults
T-373
Train-603
Consist (1053A) 1017-1052
26th Street, Northbound, Track \#3
Wayside Incidents:
4/8/2017 3:53:00 PM - Incident\# 2853960 ( 1 lost trip, 141 lost minutes)
Operator reports something on the something hanging from the OCS at BArrington grade crossing.
Police \& Health Incidents:
4/5/2017 5:17:00 PM - Incident\# 2852946 (3 lost trips, 387 lost minutes)
4th St/Informant called and reports a man with a gun boarded the train.
4/24/2017 3:49:00 PM - Incident\# 2859274 (0 lost trips, 6 lost minutes)
26th St/LASD reports an assulated paton is on Train 607.
4/25/2017 6:53:00 PM - Incident\# 2859678 (0 lost trips, 12 lost minutes)
Trespasser (Male White)
CCTV/R-467
Sepulveda Station South end of the platform track \#004 side.
Other Incidents:
4/7/2017 1:50:00 AM - Incident\# 2853444 (5 lost trips, 594 lost minutes)
Train Fire Mock Drill Commence
Train 517
T-157
1039 -(1019)
Jefferson Expo Tunnel
Trk 4 S/B
4/27/2017 4:46:00 AM - Incident\# 2860137 (0 lost trips, 6 lost minutes)
Out Late from Expo Yard.

## 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
    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 $70-99 \%$.
    ORed - High probability that the target will not be achieved -- significant problems and/or delays. Falls below Target $>70 \%$.
    N/A = Not Available

[^1]:    MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures. \%Change is from previous month.

