Los Angeles County
Metropolitan Transportation Authority
Califomia

OPERATIONS
MONTHLY RAIL
PERFORMANCE
REPORT


0
Metro
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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 2017 | FY 2018 | FY 2019 | $\begin{gathered} \text { FY } 2020 \\ \text { Target } \\ \hline \end{gathered}$ | $\begin{gathered} \text { FY } 2020 \\ \text { YTD } \\ \hline \end{gathered}$ | FYTD <br> Status | Aug Month | Sep Month | Oct Month |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Systemwide |  |  |  |  |  |  |  |  |  |
| On-Time Pullouts | 99.61\% | 99.68\% | 99.72\% | 99.80\% | 99.65\% | $\bigcirc$ | 99.72\% | 99.79\% | 99.54\% |
| Mean Miles Between Chargeable Mechanical Failures 3 | 29,711 | 31,146 | 39,034 | 44,540 | 39,940 | $\bigcirc$ | 39,287 | 44,583 | 40,179 |
| In-Service On-time Performance | 98.24\% | 98.48\% | 98.81\% | 99.10\% | 98.93\% | $\bigcirc$ | 98.77\% | 99.02\% | 99.04\% |
| Service Delivery Ratio | 99.23\% | 99.22\% | 99.56\% | 99.70\% | 99.71\% | $\bigcirc$ | 99.60\% | 99.73\% | 99.69\% |
| Traffic Accidents Per 100,000 Train Miles | 1.01 | 0.96 | 0.68 | 0.85 | 0.75 | $\bigcirc$ | 0.94 | 0.33 | 1.08 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.36 | 0.54 | 0.29 | 0.37 | 0.47 | $\bigcirc$ | 0.47 | 0.16 | 0.93 |
| Passenger Accidents per 100,000 Boardings | 0.023 | 0.022 | 0.014 | 0.010 | 0.007 | - | 0.000 | 0.000 | 0.000 |
| Complaints per 100,000 Boardings | 1.98 | 1.81 | 1.83 | 1.10 | 1.56 | $\bigcirc$ | 1.32 | 1.86 | 1.44 |
| New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours ${ }^{1,2}$ | 12.27 | 11.17 | 11.43 | 10.05 | 13.26 | $\bigcirc$ | 18.43 | 11.56 | 17.95 |
| Lost Work Days per 200,000 Exposure Hours ${ }^{\text {1,2 }}$ | 733 | 886 | 800 | 821.44 | 886 | $\bigcirc$ | 839 | 988 |  |
| OSHA Injuries per 200,000 Exposure Hours ${ }^{1,2}$ | 8.53 | 7.61 | 7.23 | 6.43 | 8.48 | $\bigcirc$ | 10.14 | 10.60 |  |
|  |  |  |  |  |  |  |  |  |  |
| Wayside Maintenance \& Engineering |  |  |  |  |  |  |  |  |  |
| Past-Due Preventive Maintenance - Aging of Outstanding Work Orders | 1 | 3 | 42 | N/A | 134 | N/A | 18 | 31 | 55 |
| New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours | 5.35 | 5.02 | 5.31 | 5.40 | 7.76 | $\bigcirc$ | 16.99 | 10.75 | 0.00 |
| Lost Work Days per 200,000 Exposure Hours ${ }^{1}$ | 194 | 312 | 218 | 296 | 92 | $\bigcirc$ | 102 | 61 | 0 |
| OSHA Injuries per 200,000 Exposure Hours ${ }^{1}$ | 4.01 | 4.01 | 3.84 | 4.13 | 7.02 | $\bigcirc$ | 10.19 | 7.17 | 0 |


| Blue Line |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| On-Time Pullouts | 99.60\% | 99.39\% | 99.46\% | 99.50\% | 99.58\% | $\bigcirc$ | 100.00\% | 99.44\% | 100.00\% |
| Mean Miles Between Chargeable Mechanical Failures 3 | 15,405 | 13,772 | 22,391 | 22,391 | 83,327 | $\bigcirc$ | 173,761 | 30,401 | 81,831 |
| In-Service On-time Performance | 96.44\% | 97.11\% | 98.13\% | 98.80\% | 99.63\% | $\bigcirc$ | 99.35\% | 99.88\% | 99.60\% |
| Service Delivery Ratio | 98.54\% | 98.42\% | 99.31\% | 99.40\% | 99.78\% | $\bigcirc$ | 99.52\% | 99.92\% | 99.88\% |
| Traffic Accidents Per 100,000 Train Miles | 2.18 | 1.63 | 1.05 | 1.84 | 2.11 | $\bigcirc$ | 1.67 | 0.00 | 3.33 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.71 | 1.03 | 0.38 | 0.40 | 1.69 | $\bigcirc$ | 1.67 | 0.00 | 3.33 |
| Passenger Accidents per 100,000 Boardings | 0.046 | 0.033 | 0.013 | 0.010 | 0.000 | $\bigcirc$ | 0.000 | 0.000 | 0.000 |
| Complaints per 100,000 Boardings | 1.67 | 2.22 | 1.73 | 1.40 | 2.43 | $\bigcirc$ | 1.17 | 3.89 | 1.73 |
| New Workers' Compensation Indemnity Claims per | 16.74 | 13.95 | 14.22 | 11.90 | 15.29 | , | 18.42 | 6.29 | 17.70 |
| Lost Work Days per 200,000 Exposure Hours ${ }^{1}$ | 836 | 1,016 | 695 | 953 | 1,061 | $\bigcirc$ | 1,476 | 954 |  |
| OSHA Injuries per 200,000 Exposure Hours ${ }^{1}$ | 10.40 | 8.10 | 5.96 | 5.93 | 6.19 | $\bigcirc$ | 12.28 | 0.00 |  |

[^0]| Measurement | FY 2017 | FY 2018 | FY 2019 | FY 2020 <br> Target | $\begin{gathered} \text { FY } 2020 \\ \text { YTD } \end{gathered}$ | FYTD <br> Status | Aug <br> Month | Sep Month | Oct <br> Month |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Red Line |  |  |  |  |  |  |  |  |  |
| On-Time Pullouts | 99.95\% | 99.88\% | 99.85\% | 100.00\% | 99.90\% | O | 100.00\% | 100.00\% | 100.00\% |
| Mean Miles Between Chargeable Mechanical Failures 3 | 104,637 | 68,407 | 58,255 | 94,165 | 52,257 | $\bigcirc$ | 50,065 | 72,273 | 54,195 |
| In-Service On-time Performance | 99.39\% | 99.33\% | 99.41\% | 99.70\% | 99.56\% | $\bigcirc$ | 99.47\% | 99.64\% | 99.67\% |
| Service Delivery Ratio | 99.72\% | 99.65\% | 99.73\% | 100.00\% | 99.77\% | O | 99.79\% | 99.79\% | 99.79\% |
| Traffic Accidents Per 100,000 Train Miles | 0.57 | 0.64 | 0.57 | 0.57 | 0.21 | O | 0.00 | 0.86 | 0.00 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.14 | 0.21 | 0.28 | 0.21 | 0.00 | $\bigcirc$ | 0.00 | 0.00 | 0.00 |
| Passenger Accidents per 100,000 Boardings | 0.004 | 0.000 | 0.002 | 0.000 | 0.007 | $\bigcirc$ | 0.000 | 0.000 | 0.000 |
| Complaints per 100,000 Boardings | 1.19 | 1.16 | 1.35 | 0.55 | 0.72 | $\bigcirc$ | 0.70 | 0.76 | 0.75 |
| New Workers' Compensation Indemnity Claims per | 12.68 | 11.80 | 14.74 | 10.80 | 8.64 | O | 5.65 | 6.03 | 17.01 |
| *Lost Work Days per 200,000 Exposure Hours | 992 | 827 | 755 | 809 | 675 | $\bigcirc$ | 694 | 623 |  |
| *OSHA Injuries per 200,000 Exposure Hours | 7.52 | 4.99 | 9.67 | 3.89 | 5.79 | $\bigcirc$ | 0.00 | 12.06 |  |


| Green Line |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| On-Time Pullouts | 99.69\% | 99.59\% | 99.85\% | 99.70\% | 99.37\% | $\bigcirc$ | 99.76\% | 100.00\% | 98.73\% |
| Mean Miles Between Chargeable Mechanical Failures 3 | 16,375 | 21,614 | 22,144 | 22,651 | 22,423 | $\bigcirc$ | 20,446 | 19,532 | 25,914 |
| In-Service On-time Performance | 98.69\% | 98.72\% | 98.76\% | 99.00\% | 98.51\% | $\bigcirc$ | 98.80\% | 98.54\% | 98.69\% |
| Service Delivery Ratio | 99.61\% | 99.38\% | 99.70\% | 100.00\% | 99.81\% | $\bigcirc$ | 99.75\% | 99.80\% | 99.81\% |
| Traffic Accidents Per 100,000 Train Miles | 0.48 | 0.34 | 0.25 | 0.35 | 0.19 | $\bigcirc$ | 0.78 | 0.00 | 0.00 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.07 | 0.00 | 0.06 | 0.40 | 0.00 | $\bigcirc$ | 0.00 | 0.00 | 0.00 |
| Passenger Accidents per 100,000 Boardings | 0.048 | 0.010 | 0.021 | 0.010 | 0.000 | $\bigcirc$ | 0.000 | 0.000 | 0.000 |
| Complaints per 100,000 Boardings | 2.08 | 1.69 | 2.08 | 1.20 | 2.37 | $\bigcirc$ | 2.68 | 1.98 | 2.20 |
| New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours | 9.14 | 12.87 | 6.82 | 11.52 | 13.31 | $\bigcirc$ | 26.43 | 17.98 | 8.58 |
| *Lost Work Days per 200,000 Exposure Hours | 712 | 984 | 1,321 | 930 | 1,005 | $\bigcirc$ | 916 | 997 |  |
| *OSHA Injuries per 200,000 Exposure Hours | 6.65 | 9.84 | 5.31 | 8.70 | 8.98 |  | 17.62 | 8.99 |  |


| Gold Line |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| On-Time Pullouts | 99.82\% | 99.84\% | 99.58\% | 100.00\% | 99.76\% | $\bigcirc$ | 99.46\% | 99.70\% | 100.00\% |
| Mean Miles Between Chargeable Mechanical Failures 3 | 38,427 | 43,588 | 40,584 | 49,281 | 36,052 | $\bigcirc$ | 38,533 | 74,537 | 32,936 |
| In-Service On-time Performance | 97.61\% | 98.19\% | 98.50\% | 98.80\% | 97.47\% | $\bigcirc$ | 96.78\% | 97.27\% | 98.41\% |
| Service Delivery Ratio | 98.88\% | 99.07\% | 99.39\% | 99.50\% | 99.53\% | $\bigcirc$ | 99.22\% | 99.47\% | 99.58\% |
| Traffic Accidents Per 100,000 Train Miles | 0.61 | 0.55 | 0.55 | 0.51 | 0.70 | $\bigcirc$ | 0.91 | 0.00 | 0.92 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.25 | 0.26 | 0.25 | 0.40 | 0.35 | $\bigcirc$ | 0.46 | 0.00 | 0.46 |
| Passenger Accidents per 100,000 Boardings | 0.030 | 0.086 | 0.044 | 0.010 | 0.021 | $\bigcirc$ | 0.000 | 0.000 | 0.000 |
| Complaints per 100,000 Boardings | 2.77 | 2.65 | 2.71 | 1.80 | 2.73 | $\bigcirc$ | 2.01 | 3.34 | 2.35 |
| New Workers' Compensation Indemnity Claims per 200,000 Exposure Hours | 14.31 | 14.24 | 14.15 | 11.67 | 24.37 | $\bigcirc$ | 25.75 | 21.34 | 48.90 |
| *Lost Work Days per 200,000 Exposure Hours | 1,055 | 1,146 | 1,391 | 993 | 2,153 | $\bigcirc$ | 1,578 | 3,009 |  |
| *OSHA Injuries per 200,000 Exposure Hours | 9.69 | 11.87 | 10.61 | 8.94 | 15.65 | $\bigcirc$ | 15.45 | 26.67 |  |


| Expo Line |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| On-Time Pullouts | 98.76\% | 99.71\% | 99.87\% | 99.70\% | 99.54\% | O | 99.69\% | 99.69\% | 99.17\% |
| Mean Miles Between Chargeable Mechanical Failures 3 | 33,402 | 57,013 | 93,728 | 93,278 | 43,481 | $\bigcirc$ | 32,641 | 37,125 | 44,227 |
| In-Service On-time Performance | 98.48\% | 98.72\% | 98.93\% | 98.90\% | 99.09\% | $\bigcirc$ | 99.02\% | 99.34\% | 98.47\% |
| Service Delivery Ratio | 99.46\% | 99.54\% | 99.67\% | 99.80\% | 99.76\% | O | 99.76\% | 99.82\% | 99.53\% |
| Traffic Accidents Per 100,000 Train Miles | 1.26 | 1.78 | 1.19 | 1.26 | 1.36 | ) | 1.79 | 0.95 | 2.70 |
| CPUC Reportable Accidents per 100,000 Train Miles | 0.63 | 1.30 | 0.56 | 0.40 | 1.14 | $\bigcirc$ | 0.89 | 0.95 | 2.70 |
| Passenger Accidents per 100,000 Boardings | 0.018 | 0.010 | 0.010 | 0.010 | 0.000 | $\bigcirc$ | 0.000 | 0.000 | 0.000 |
| Complaints per 100,000 Boardings | 3.68 | 2.20 | 2.11 | 1.40 | 1.95 | O | 1.51 | 2.74 | 1.90 |
| New Workers' Compensation Indemnity Claims per | 19.26 | 12.57 | 16.21 | 11.84 | 12.52 | O | 20.93 | 7.38 | 20.96 |
| *Lost Work Days per 200,000 Exposure Hours | 887 | 1,470 | 980 | 1,343 | 725 | O | 749 | 577 |  |
| *OSHA Injuries per 200,000 Exposure Hours | 16.60 | 9.92 | 9.73 | 9.92 | 7.21 | $\bigcirc$ | 6.98 | 7.38 |  |

* There is One Month lag in reporting this data
${ }^{3}$ MMBMF for each line is based on Actual Vehicle Revenue Miles since hub miles are not available by the line operated.
Vehicles from Division 11 may operate on the Expo or Blue Line.
O 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


## Vehicle Availability

Oct 2019

| Day Type | \% of Adjusted Scheduled Cars to Actual Rollout Cars | \% of Adjusted Scheduled Trains to Actual Rollout Trains |
| :---: | :---: | :---: |
| Blue |  |  |
| Weekday | 92.37\% | 92.37\% |
| Weekend | 100.00\% | 100.00\% |
| Total | 94.05\% | 94.58\% |
| Red/Purple |  |  |
| Weekday | 99.10\% | 99.31\% |
| Weekend | 98.95\% | 98.75\% |
| Total | 99.08\% | 99.23\% |
| Green |  |  |
| Weekday | 99.31\% | 99.31\% |
| Weekend | 85.71\% | 85.71\% |
| Total | 98.12\% | 98.12\% |
| Gold |  |  |
| Weekday | 98.15\% | 98.21\% |
| Weekend | 100.00\% | 100.00\% |
| Total | 98.37\% | 98.48\% |
| Expo |  |  |
| Weekday | 98.07\% | 98.25\% |
| Weekend | 100.00\% | 100.00\% |
| Total | 98.35\% | 98.49\% |
| Systemwide | 98.34\% | 98.32\% |



## METRO RAIL PERFORMANCE - OCTOBER 2019

## Rail Performance by Vehicle 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.


## Percentage Change in Rail MMBMF by Vehicle Type

Metro

## Light Rail - Breda




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


[^1]

** The Siemens 2000 GE/ATP AC cars did not operate starting in Feburary 2019 and resumed in May 2019.
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures.
(1)

Metro
Percentage Change in Rail MMBMF by Vehicle Type

** The Siemens 2000 GE/ATP AC cars did not operate starting in Feburary 2019.
MMBMF : Total Vehicle Miles/ NTD defined Revenue Vehicle Major System Failures. \%Change is from previous month.

## Mean Miles Beween Major Failures

|  | FY 2019 | FY2020 <br> Goal | FY2020 <br> YTD |
| :--- | ---: | ---: | ---: |
| AnsaldoBreda2550Base - AC | 37,825 | 52,000 | 29,941 |
| Breda 650 Base - DC | 27,616 | 43,000 | 45,133 |
| Breda 650 Option - AC | 85,062 | 124,000 | 57,402 |
| Kinkisharyo P3010 | 70,566 | 41,000 | 74,326 |
| Nippon Sharyo 2020 - DC | 21,405 | 37,000 | 6,167 |
| Nippon Sharyo 865 - DC |  |  | $0 * *$ |
| Siemens 2000 Base - AC | 17,841 | 21,000 | 12,768 |
| Siemens 2000 GE/ATP - AC | 6,920 | 9,000 | 6,309 |

Rail Fleet Distribution - September 2019

| Number of Rail Vehicle Type by <br> Division | Blue | Red / <br> Purple | Green | Gold | Expo | Total |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| AnsaldoBreda 2550 Base - AC |  |  |  | 50 |  | 50 |
| Breda 650 Base - DC |  | 28 |  |  |  | 28 |
| Breda 650 Option - AC |  | 66 |  |  |  | 66 |
| KinkiSharyo P3010 | 54 |  | 25 | 47 | 56 | 182 |
| Nippon Sharyo 2020 - DC | 15 |  |  |  |  | 15 |
| 0 |  |  |  |  |  | 0 |
| Siemens 2000 Base - AC | 7 |  |  |  | 15 | 22 |
| Siemens 2000 GE/ATP - AC |  |  | 13 |  |  | 13 |
| TOTALS | 76 | 94 | 38 | 97 | 71 | 376 |

## Cleanliness by Vehicle Type Oct 2019

Metro
Rail Cleanliness by General Vehicle Type


P2020 has only one cleanliness inspection since Jan 2019 due to Blue Line Construction

RAIL DELAYS BY CATEGORY - SYSTEMWIDE
Revenue Hours Lost Related to - ACCIDENTS Oct 2019


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


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
Blue, Red/Purple, Green, Gold \& Expo Line 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 Oct 2019



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


Mean Miles Between Mechanical Failures by Line


Workers Comp Claims by Line


On-Time Pullouts Ratio by Line


Due to Blue Line Construction, Blue pulled out of EXPO for Feb, Mar, Apr and May 2019.

## Rail Safety Performance

 CPUC REPORTABLE INCIDENTS PER 100,000 TRAIN MILES Oct 2019Blue, Red/Purple, Green, Gold \& Expo Line CPUC Accident Ratio


TRAFFIC ACCIDENTS PER 100,000 TRAIN MILES



## Systemwide Vertical Transportation Availability by Line Oct 2019



Note: No Escalators at Blue and Expo Lines


## Administrative Key Performance Indicators Worker's Compensation, Lost Work Days, OSHA Oct 2019






Facilities Maintenance goals to be established.



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



Facilities Maintenance goals to be established.
Note: There is a one month lag in Lost Work Days and OSHA data.


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Facilities Maintenance goals to be established.
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## Worker's Comp. Claims

Aug 2019 - Oct 2019
3 Month Comparison
Worker's Comp Definition: Number of new reported Workers Compensation Indemnity and Medical claims filed per 200,000 exposure hours. This indicator measures safety.
Calculation: New reported Workers' Compensation Indemnity and Medical claims filed per 200,000 Exposure Hours = New Claims/(Exposure Hours/200,000)


## Lost Work Days and OSHA Injuries

## Jul 2019 - Sep 2019

3 Month Comparison
LWD Definition: Number of paid working days lost due to employees workers' compensation injuries each month per 200,000 exposure hours. This indicator measures use of Transitional Duty Program.
Calculation: : (Total Temporary Disability Benefit Payments / Estimated TD Benefit Rate) x (5/7) / (Number Exposure Hours / 200,000)"


OSHA Definition: Work-related injuries and illnesses that result in: death, loss of consciousness, days away from work, restricted work activity or job transfer, or medical treatment beyond first aid which are filed per 200,000 exposure hours.
Calculation: New OSHA Injuries filed per 200,000 Exposure Hours = New Injuries /(Exposure Hours/200,000)


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

## BLUE LINE

Out of a total of 10,188 hours operated, there were approximately 12 total hours of service delays.

|  | Revenue |  |
| :--- | ---: | ---: |
| October 2019 Service Hours * | Hours | Percent |
| Revenue Hours without Delays | 10,176 | $99.9 \%$ |
| Cancelled + Delayed Hours | 12 | $0.1 \%$ |
| Total Revenue Hours | $\mathbf{1 0 , 1 8 8}$ | $\mathbf{1 0 0 . 0 \%}$ |

Summary of the incidents:

| Operations | Count | Hours | Percent |
| :--- | ---: | ---: | ---: |
| Accidents | 0 | 0.0 | $0.0 \%$ |
| Vehicle Maintenance | 2 | 4.8 | $40.3 \%$ |
| Wayside | 3 | 3.2 | $26.9 \%$ |
| Police \& Health | 2 | 0.3 | $2.5 \%$ |
| Other | 6 | 3.5 | $29.5 \%$ |
| Total | 1 | 0.1 | $0.8 \%$ |

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

The number of incidents on the following page may differ from the summary
count due to some incidents not properly designated as Cancelled or Delayed


October 2019 Blue Line incidents causing delay were as follows:

## Accidents:

10/12/2019 7:04:00 PM - Incident\# 3212938 (1 lost trip, 116 lost minutes)
Operator T-59 had a 10-72 just north of Wardlow station by the 405 freeway.
T-59
Cars (1121)-1076
North of Wardlow, track 2 southbound

10/30/2019 5:58:00 PM - Incident\# 3220429 (1 lost trip, 174 lost minutes)
Train 101
T-216
(1105B)-1091-1080
Broadway \& Long Beach Blvd, Track 1, Southbound
T-216 reported vehicle vs. train at Broadway and Long Beach Blvd. Operating out of LRV 1105 B.

## Vehicle Maintenance Incidents:

10/7/2019 6:01:00 AM - Incident\# 3210027 (1 lost trip, 185 lost minutes) CHARGEABLE
Prop/Fault, and no indications.
Train \#102.
T-321.
LRV- (1112B), 1099, 1137.
Pacific Station, Track \#1, Northbound

10/9/2019 3:07:00 PM - Incident\# 3211774 (0 lost trips, 5 lost minutes) CHARGEABLE
No fault, no movement 1121,1093(1118B).
Compton Station
Train \#101, T-75, track \#2, southbound.

10/25/2019 2:18:00 PM - Incident\# 3218384 (O lost trips, 4 lost minutes)
Auto Train Protection (Speed Limit), cars \#(1135B)-1099-1092
Train \#104
T-494
Del Amo Station, track 1, Northbound

## Wayside Incidents:

10/12/2019 9:02:00 AM - Incident\# 3212792 (0 lost trips, 12 lost minutes)
TP-63 requested a mainline access form to enter the mainline to repair a damaged section insulator within Main Yard Interlocking.
TP-63 (EIC)
TP-000 (WATCHPERSON)

10/13/2019 10:29:00 AM - Incident\# 3213070 (0 lost trips, 6 lost minutes)
TP162 requested breakers be opened at Main Yard TPSS, Del Amo TPSS, and Wardlow TPSS.

## Police \& Health Incidents:

10/2/2019 12:28:00 PM - Incident\# 3208116 (1 lost trip, 174 lost minutes)
Male patron assaulted on board train \#104, 5th Street Station.
Cars \# 1106-(1100)-1083.

10/16/2019 11:26:00 AM - Incident\# 3214439 (O lost trips, 10 lost minutes)
Blockade due to traffic accident.

10/22/2019 6:35:00 PM - Incident\# 3217016 (0 lost trips, 6 lost minutes)
Transient holding up train
Train 104 T-149
5th St Southbound
1098-1106-1086

10/22/2019 7:17:00 PM - Incident\# 3217026 (0 lost trips, 4 lost minutes)
Blockade/ Vehicle on ROW
Train 104 Tk 1
Northbound T-149
Alondra 1094-1103-1139

10/27/2019 12:13:00 PM - Incident\# 3218906 (0 lost trips, 10 lost minutes)
Reported MTA not involved accident at Aneheim Station.

10/29/2019 8:45:00 AM - Incident\# 3219625 (0 lost trips, 7 lost minutes)
Train 616 Hold at Pico Station Platform number 1 for LAPD.

## Other Incidents:

## Reset:

10/13/2019 4:44:00 AM - Incident\# 3212994 (0 lost trips, 6 lost minutes)
T-182 reported that the HVAC in car (1130B) is too cold. The air comfort control breaker was reset, but the
HVAC was still too cold.
T-182
Train 106
(1130)-1140

Northbound, Track 1
Willow Station

## MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS COMPLIANCE WITH SCHEDULED VEHICLE HOURS Oct 2019



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 27,158 hours operated, there were approximately 56 total hours of service delays.

|  | Revenue |  |
| :--- | ---: | ---: |
| October 2019 Service Hours * | Hours | Percent |
| Revenue Hours without Delays | 27,102 | $99.8 \%$ |
| Cancelled + Delayed Hours | 56 | $0.2 \%$ |
| Total Revenue Hours | $\mathbf{2 7 , 1 5 8}$ | $\mathbf{1 0 0 . 0 \%}$ |

Summary of the incidents:

| Count | Hours | Percent |  |
| :--- | :--- | ---: | ---: |
| Operations | 0 | 0.0 | $0.0 \%$ |
| Accidents | 0 | 0.0 | $0.0 \%$ |
| Vehicle Maintenance | 12 | 20.7 | $37.0 \%$ |
| Wayside | 0 | 0.0 | $0.0 \%$ |
| Police \& Health | 2 | 10.0 | $17.9 \%$ |
| Other | 4 | 25.2 | $45.1 \%$ |
| Total | $\mathbf{1 8}$ | $\mathbf{5 5 . 9}$ | $\mathbf{1 0 0 . 0 \%}$ |

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

The number of incidents on the following page may differ from the summary
count due to some incidents not properly designated as Cancelled or Delayed


## October 2019 Red Line incidents causing delay were as follows:

## Vehicle Maintenance Incidents:

10/1/2019 8:20:00 AM - Incident\# 3207522 (O lost trips, 15 lost minutes) CHARGEABLE T-007 reporting hearing an explosion underneath the train.

10/2/2019 1:59:00 PM - Incident\# 3208137 (1 lost trip, 149 lost minutes) CHARGEABLE
T-7 operating operating Train \# 213 reports emergency brakes applying in car \# 527 and unable to open all doors.

10/3/2019 8:51:00 AM - Incident\# 3208490 (O lost trips, 10 lost minutes) CHARGEABLE
Train 210 smoke emitted @ North Hollywood AR platform
501-(502)/523-528/507-510
T-169

10/11/2019 6:11:00 PM - Incident\# 3212676 (5 lost trips, 756 lost minutes) CHARGEABLE No Fault - No Movement
Train 214
T-012
591-592-575-576-545-546
AR, Hollywood/Highland station Westbound.

10/13/2019 10:50:00 PM - Incident\# 3213189 (0 lost trips, 10 lost minutes) CHARGEABLE Operator reports flashing cab signal \& emergency brake application on car 590.
Train 206
T-420
Cars 571572601602589 (590).
Universal AL east.

10/14/2019 8:22:00 AM - Incident\# 3213325 (0 lost trips, 4 lost minutes)
Propulsion failure (502)
Train 202
T-295
501-502/507-510
WIlshire Normandie, AL Eastbound

10/17/2019 7:15:00 PM - Incident\# 3215159 (O lost trips, 12 lost minutes) CHARGEABLE Doors fail close. \#5 \& 7.
Train \#217
T-199
Cars \#583-584-561-(562)-603-604.
E/Bound Hollywood Highland Station A/L Track.

10/21/2019 7:02:00 AM - Incident\# 3216180 (O lost trips, 5 lost minutes) CHARGEABLE

Propulsion failure and service brake failure trainline.
Train 201
T-364
533-34/(541-42)/581-82
7/Metro, AL, east

10/24/2019 4:29:00 PM - Incident\# 3218006 (1 lost trip, 149 lost minutes) CHARGEABLE
T-169 reports Flashing Cab signals and Emergency Brakes that Will Not clear with EMO. Car \# 567 WM AR W.

10/25/2019 10:52:00 AM - Incident\# 3218300 (0 lost trips, 8 lost minutes) CHARGEABLE
Train \#210 593-594-601-(602) North Hollywood AL Eastbound with Propulsion failure and flashing cab signal trough North Hollywood interlocking.

10/26/2019 9:25:00 AM - Incident\# 3218632 (1 lost trip, 116 lost minutes) CHARGEABLE
LVPS Failure
Train 203
T-365
Cars (527)-522-517-518
Universal City AR West

10/30/2019 6:25:00 PM - Incident\# 3220446 (0 lost trips, 10 lost minutes)
Due to lack of equipment Train \#218, replaced at North Hollywood with a four car consist.

## Police \& Health Incidents:

10/11/2019 6:30:00 AM - Incident\# 3212381 (4 lost trips, 599 lost minutes)

10/13/2019 6:41:00 AM - Incident\# 3213021 (0 lost trips, 6 lost minutes)
LAPD removed male from train 205 (589)
T-147
571-572/601-602/589-590
Union station AL

## Other Incidents:

10/9/2019 2:36:00 PM - Incident\# 3211782 (8 lost trips, 1,194 lost minutes)
Trespasser activated deluge system at Wilshire Western Station at 1436 hours. FCP Fire Detect Summary Alarm activated.

10/13/2019 12:04:00 PM - Incident\# 3213084 (O lost trips, 10 lost minutes) CHARGEABLE Smoke coming out of train.
Train 201
T-378
577-578-603-604-535-(536)
Pershing Square AL West

## Unable To Duplicate:

10/3/2019 5:48:00 AM - Incident\# 3208367 (0 lost trips, 10 lost minutes)
Prop fault: No movement
Train 205
T-350
503-504/515-516/514-51
North Hollywood, AR, Eastbound

## Reset:

10/24/2019 5:37:00 AM - Incident\# 3217637 (2 lost trips, 298 lost minutes)
Train \# 206 out late from the yard due to loss of power on cars (529/520).
Train \# 206
T-271
Yard Limits, YR.
529520501502

## MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS COMPLIANCE WITH SCHEDULED VEHICLE HOURS Oct 2019



COMPLIANCE WITH SCHEDULED TRAIN MILES


## ON-TIME PULL OUTS



## IN-SERVICE ON-TIME PERFORMANCE



LOST TRIPS


## LOST HOURS



## VERTICAL TRANSPORTATION AVAILABILITY




## GREEN LINE

Out of a total of 9,814 hours operated, there were approximately 19 total hours of service delays.

|  | Revenue <br> October 2019 Service Hours * <br> Hours |  |
| :--- | ---: | ---: |
| Percent |  |  |
| Revenue Hours without Delays | 9,795 | $99.8 \%$ |
| Cancelled + Delayed Hours | 19 | $0.2 \%$ |
| Total Revenue Hours | $\mathbf{9 , 8 1 4}$ | $\mathbf{1 0 0 . 0 \%}$ |

Summary of the incidents:

| Count | Hours | Percent |  |
| :--- | :--- | ---: | ---: |
| Operations | 1 | 0.1 | $0.6 \%$ |
| Accidents | 0 | 0.0 | $0.0 \%$ |
| Vehicle Maintenance | 12 | 7.9 | $42.7 \%$ |
| Wayside | 7 | 0.8 | $4.3 \%$ |
| Police \& Health | 4 | 0.8 | $4.3 \%$ |
| Other | 14 | 8.9 | $48.1 \%$ |
| Total | $\mathbf{3 8}$ | $\mathbf{1 8 . 5}$ | $\mathbf{1 0 0 . 0 \%}$ |

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

The number of incidents on the following page may differ from the summary
count due to some incidents not properly designated as Cancelled or Delayed


## October 2019 Green Line incidents causing delay were as follows:

Operations Incidents:
10/29/2019 6:30:00 PM - Incident\# 3219933 (0 lost trips, 7 lost minutes)
Train 356
Track \#2 Eastbound
Norwalk
T-141
At Norwalk Signal \#2 the route was set for platform \#2 while currently occupied by a consist.

## Vehicle Maintenance Incidents:

10/10/2019 1:03:00 PM - Incident\# 3212194 (1 lost trip, 66 lost minutes)
Propulsion fault no movement.
Train 334
T-348
(1173)-1144

Track 1
Westbound
Long Beach station

10/11/2019 3:57:00 PM - Incident\# 3212643 (2 lost trips, 130 lost minutes) CHARGEABLE
Cab Signal Loss
Train 332
T-296
1149-(1177)
Track 2
Eastbound
Marine

10/13/2019 11:00:00 PM - Incident\# 3213190 (O lost trips, 10 lost minutes) CHARGEABLE Other Vehicle System

10/14/2019 5:07:00 AM - Incident\# 3213241 (1 lost trip, 74 lost minutes) CHARGEABLE Train-331 T-409 cars 202/216 without cab signals on car 202B.

10/14/2019 5:04:00 PM - Incident\# 3213607 (0 lost trips, 10 lost minutes) CHARGEABLE Train 332
T-257
Operator reports propulsion failure unable to clear in car 1174.
Lakewood Track 1 west
(1174), 1149

10/15/2019 6:25:00 AM - Incident\# 3213779 (1 lost trip, 73 lost minutes) CHARGEABLE Propulsion fault with speed restriction on car (220B).
Train 334
T-277
(220B)-216
Lakewood Station, Track 1, Westbound.

10/17/2019 5:50:00 AM - Incident\# 3214813 (O lost trips, 4 lost minutes)
Propulsion / Dynamic Brakes, car \#(217)-243
Train \#344
T-113
Marine Station, track\#2, Eastbound.

10/21/2019 6:30:00 AM - Incident\# 3216163 (0 lost trips, 4 lost minutes)
Propulsion / Dynamic Brakes, car \#(1155A)-1156
Train \#343
T-055
Aviaition Station, track \#1, Westbound.

10/22/2019 1:50:00 PM - Incident\# 3216891 (0 lost trips, 12 lost minutes) CHARGEABLE Train 336 reports of Friction Brake Fault and Prop Fault.
T-71
Train 336
Cars: 205-(208)
WB Tk-1 Aviation Station

10/23/2019 6:53:00 AM - Incident\# 3217153 (0 lost trips, 10 lost minutes) CHARGEABLE Loss of Cab signals
Train \#333 T-136, Car \#1184B-1149
westbound at Harbor station.

10/25/2019 12:30:00 PM - Incident\# 3218336 (1 lost trip, 68 lost minutes) CHARGEABLE Train 335 reporting propulsion faults with a speed restriction.
train 335
T-057
LRV'S ( 208a)-206
Avalon Station track 2 eastbound.

10/31/2019 4:11:00 PM - Incident\# 3220860 (O lost trips, 15 lost minutes) CHARGEABLE Train 337
T-96
LRV Cars(227A)-202
EB Departing Marine Station TK 2
Operator reported of intermittent loss of cab signals departing the station.

## Wayside Incidents:

10/1/2019 10:05:00 AM - Incident\# 3207563 (0 lost trips, 10 lost minutes)
OCS Repairs from Wilmington West Interlocking to Vermont West Interlocking, Track

10/3/2019 6:01:00 AM - Incident\# 3208381 (0 lost trips, 11 lost minutes)
Norwalk Interlocking Track 1. False Occupancy Track Circuit 1085.

10/6/2019 5:31:00 PM - Incident\# 3209591 (O lost trips, 3 lost minutes)
False occupancy, Norwalk west interlocking
Train 334
T-292
220-202
Track 1
Westbound

10/25/2019 11:22:00 AM - Incident\# 3218310 (O lost trips, 9 lost minutes)
False Occupancy Signal 6 Norwalk.

10/25/2019 1:21:00 PM - Incident\# 3218366 (0 lost trips, lost minutes)
Green Line Yard loss power due to open breakers, A06, B01 and B14 at the Yard TPSS.
0 los minutes.
10/27/2019 10:45:00 AM - Incident\# 3218899 (0 lost trips, 6 lost minutes)
Aviation East IL

10/29/2019 3:44:00 PM - Incident\# 3219908 (0 lost trips, 9 lost minutes)
Marine Interlocking displayed a Code Failure

## Police \& Health Incidents:

10/5/2019 7:50:00 PM - Incident\# 3209401 (0 lost trips, 10 lost minutes)
Animal Other/ Canine on the ROW

10/10/2019 2:20:00 PM - Incident\# 3212201 (0 lost trips, 10 lost minutes)
Trespasser reported east of Hawthorne station.

10/10/2019 5:23:00 PM - Incident\# 3212255 (0 lost trips, 15 lost minutes)
Trespasser reported on the west end of Avalon station.

10/28/2019 12:02:00 AM - Incident\# 3219027 (0 lost trips, 13 lost minutes)
Sick Individual.

## Other Incidents:

10/28/2019 10:15:00 AM - Incident\# 3219279 (1 lost trip, 66 lost minutes)
MTA/TSB advises second hand report of medical emergency on-board car 1141B (Train-336 T-105 cars 11411155).

10/6/2019 2:00:00 AM - Incident\# 3209444 (0 lost trips, 10 lost minutes)
Patron requesting medical / Chest Pains
Train \# 335, Car \# 1171
T-450, Wilmington Station, EB

10/10/2019 8:05:00 AM - Incident\# 3211994 (1 lost trip, 66 lost minutes)
Train 341 / Operator T-113 / Consist (1168)-1169
T-113 reports feces in car 1168.
Operator instructed to recover the consist to the yard from Norwalk Station out of service.

10/10/2019 12:49:00 PM - Incident\# 3212148 (O lost trips, lost minutes)
Possible seizure on train 332 , 0 lost minutes.
T-096
1143-(1170)
Track 2
Marine station
Eastbound

10/12/2019 3:20:00 PM - Incident\# 3212892 (O lost trips, 12 lost minutes)
Seizure on train 331

10/18/2019 5:40:00 AM - Incident\# 3215258 (0 lost trips, 6 lost minutes)
Sick Car.
Train \#342.
T-078.
LRV- (1151A), 1144.
Norwalk Station, Track \#1, Westbound.

10/21/2019 8:23:00 AM - Incident\# 3216236 (0 lost trips, 6 lost minutes)
Emergency: Patron Sick, cars \#(243A)-209
Train \#341
T-113
Vermont Station, track \#1, Westbound.

10/27/2019 9:04:00 PM - Incident\# 3219016 (O lost trips, 18 lost minutes)
Sick Individual.

## Unable To Duplicate:

10/24/2019 4:19:00 AM - Incident\# 3217617 (2 lost trips, 147 lost minutes)
Re-occuring ATP fail
Train 333
T-79
1187-(1183)
Aviation, tk 2, Eastbound

## Reset:

10/3/2019 10:38:00 AM - Incident\# 3208544 (1 lost trip, 66 lost minutes)
Train 335 / Operator T-057 / Consist (208),202
Loss of cab signal. No movement track 2 at El Segundo Station.

10/14/2019 6:07:00 AM - Incident\# 3213257 (0 lost trips, 5 lost minutes)
Train-341 T-68 cars 208/209 with propulsion faults.

10/20/2019 10:35:00 PM - Incident\# 3216088 (1 lost trip, 65 lost minutes)
Propulsion fault with a speed restriction.
Train \#333, T-294
Car \#202
WB, Long Beach Station, Track \#1

10/23/2019 1:49:00 PM - Incident\# 3217414 (0 lost trips, 5 lost minutes) CHARGEABLE Train 334

T-348
LRV Cars (223)-206
EB Mariposa Track 2
Operator reporting a prop fault with a speed restriction. Operator cleared the fault but reoccured at 10mph+

10/28/2019 4:40:00 PM - Incident\# 3219403 (1 lost trip, 66 lost minutes)
No cab signal car 1147A-1174
Train 352
T-294
Track 1
Westbound
Lakewood station.

## MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS COMPLIANCE WITH SCHEDULED VEHICLE HOURS Oct 2019



COMPLIANCE WITH SCHEDULED TRAIN MILES


ON-TIME PULL OUTS


Due to the Crenshaw line link construction in Feb and March 2018, Green Line trains did not pull in or pull out, trains stayed on the tracks.

IN-SERVICE ON-TIME PERFORMANCE


LOST TRIPS


## LOST HOURS



## VERTICAL TRANSPORTATION AVAILABILITY




## GOLD LINE

Out of a total of 24,833 hours operated, there were approximately 111 total hours of service delays.

| Revenue  <br> October 2019 Service Hours *  <br> Revenue Hours without Delays $\quad 24,722$ | $99.6 \%$ |  |
| :--- | ---: | ---: |
| Cancelled + Delayed Hours | 111 | $0.4 \%$ |
| Total Revenue Hours | $\mathbf{2 4 , 8 3 3}$ | $\mathbf{1 0 0 . 0 \%}$ |

Summary of the incidents:

| Count | Hours | Percent |  |
| :--- | ---: | ---: | ---: |
| Operations | 5 | 7.6 | $6.8 \%$ |
| Accidents | 1 | 0.2 | $0.1 \%$ |
| Vehicle Maintenance | 20 | 63.3 | $56.8 \%$ |
| Wayside | 1 | 0.3 | $0.2 \%$ |
| Police \& Health | 4 | 0.9 | $0.8 \%$ |
| Other | 16 | 39.2 | $35.2 \%$ |
| Total | $\mathbf{4 7}$ | $\mathbf{1 1 1 . 4}$ | $\mathbf{1 0 0 . 0 \%}$ |

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

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count due to some incidents not properly designated as Cancelled or Delayed


## October 2019 Gold Line incidents causing delay were as follows:

## Operations Incidents:

10/14/2019 7:07:00 AM - Incident\# 3213279 (0 lost trips, 11 lost minutes)
Train delay, due to a 10-100 at Atlantic Station, without contacting ROC.
Train\#409
T\#178
1110,1124,1158
Track\#1,Northbound,Atlantic Station.

10/14/2019 10:00:00 AM - Incident\# 3213424 (0 lost trips, 15 lost minutes)
Emergency 10-100 at Union Station.
Train\#408
T\#103
1163,1191,1181
Track\#2,Reverse Running,Soto Station,Northbound.

10/16/2019 6:21:00 AM - Incident\# 3214219 (0 lost trips, 5 lost minutes)
Operator for Alpha "Queen" at APU did not sign on at Division 24 for departure on train \# 452.
Train \# 452
T-452
APU, terminal, track \#2.
749742744

10/24/2019 11:06:00 PM - Incident\# 3218108 (2 lost trips, 420 lost minutes)
T-63 states 10-55 at Allen Station unable to proceeded in service northbound

10/27/2019 9:17:00 AM - Incident\# 3218896 (0 lost trips, 9 lost minutes)
Train \#412 T-340 car\#723-730 departed Azusa Citrus 5 minutes late southbound,

## Accidents:

10/18/2019 3:04:00 AM - Incident\# 3215229 (0 lost trips, 10 lost minutes)
Train 408, T-441 reports a 10-72 at Allen station, operating car 1009
Vehicle Maintenance Incidents:
10/3/2019 4:45:00 PM - Incident\# 3208707 (0 lost trips, 4 lost minutes)
IDU on will not go on.
Train 403
T-448
(1185)-1156-1192

Northbound, Track 2 Atlantic station.

10/3/2019 6:10:00 PM - Incident\# 3208736 (2 lost trips, 421 lost minutes) CHARGEABLE
Doors bank breaker
Train 421
T-451
(1161A)-1157-1179
Southbound, Track 2 Little Tokyo station.
10/4/2019 5:57:00 PM - Incident\# 3209158 (1 lost trip, 208 lost minutes) CHARGEABLE Car 735 brake faults/smoking.
T-347
Train 406
Cars 704-733-(735)
Pico Aliso Station, Track 1, northbound.

10/4/2019 8:00:00 PM - Incident\# 3209175 (1 lost trip, 208 lost minutes)
Major propulsion fault all 3 cars, car 745 has a broken ADA seat
(747 745 737)
Train 454
T-323
Indiana track 1 NB

10/10/2019 7:47:00 AM - Incident\# 3211991 (0 lost trips, 10 lost minutes) CHARGEABLE
Train-403 T-189 cars 1166/1172/1182 with air tank cylinder issues causing intermittent loss of cab signals and PA failutr on car 1182.

10/10/2019 8:00:00 PM - Incident\# 3212277 (1 lost trip, 211 lost minutes) CHARGEABLE
Car 748 is lower than platform when berthed
(748) 737743

Train 453
T-203
Memorial Park Track 2 SB

10/11/2019 8:04:00 PM - Incident\# 3212702 (1 lost trip, 216 lost minutes) CHARGEABLE
No movement car 1009
Train 424
T-480
1157-1012-(1009)
Sierra Madre Tk 1 N/B

10/14/2019 5:45:00 AM - Incident\# 3213245 (1 lost trip, 204 lost minutes) CHARGEABLE
Burning brakes and strong smell reported.
Train\#408
T\#441
(714,728,703)
Track\#2,Duarte Station, Southbound.

10/15/2019 7:30:00 AM - Incident\# 3213802 (1 lost trip, 209 lost minutes) CHARGEABLE Doors did not open automatically.
Train\#416
T\#77
(713B,731,708)
Track\#1,Maravilla Station,Northbound.

10/15/2019 9:29:00 AM - Incident\# 3213865 (6 lost trips, 1,207 lost minutes) CHARGEABLE
No movement,multiple faults and restrictions.
Train\#452
T\#52
(740A),750,746
Track\#2,Mile Post 12.5,Southbound.
10/15/2019 12:22:00 PM - Incident\# 3213927 (0 lost trips, 20 lost minutes)
Operator could not get out Car wash wash mode.
Train 405
T-122
(1166)-1010-1172

Northbound, TK 1 Atlantic station.

10/16/2019 9:20:00 PM - Incident\# 3214721 (0 lost trips, 10 lost minutes)
Debri stuck underneath car 707A between the track brake and wheel
(707) 704

Train 412
T-124
Track 1 NB Maravilla

10/18/2019 5:03:00 PM - Incident\# 3215570 (0 lost trips, 8 lost minutes) CHARGEABLE ATP/TWC failure (No cab signals car 721).
Train 412
T-245
741-722-(721)
Downtown Azusa Tk 2 S/B
10/21/2019 3:49:00 PM - Incident\# 3216518 (0 lost trips, 7 lost minutes) CHARGEABLE Bad coupler on car 1161B. Unable to couple to train 407
Train 407
T411
cars 1057-1008
Track 1
APU station

10/21/2019 4:23:00 PM - Incident\# 3216511 (1 lost trip, 198 lost minutes) CHARGEABLE

Friction brake fault car 731B
Train 424
(731B)-730-713
T-63
Track 1
Atlantic station
Northbound

10/21/2019 6:28:00 PM - Incident\# 3216548 (1 lost trip, 198 lost minutes) CHARGEABLE Reports of friction brake fault.
Train 402
T-092
1010B-1160-1009
Track 1
Civic Center

10/23/2019 5:47:00 AM - Incident\# 3217145 ( 0 lost trips, 5 lost minutes) CHARGEABLE Friction Brakes not releasing, unknown car.
Train \# 406
T-129
Lake, Track \#2, southbound
(714 728 733)

10/24/2019 2:44:00 PM - Incident\# 3217960 (1 lost trip, 216 lost minutes) CHARGEABLE
Train 401
T-063
LRV Cars (714)-701-725
SB Tk2 At SMV

Operator reports of a major HSCB fault on LRV Car 714 with a speed restriction of 35 MPH .

10/24/2019 6:14:00 PM - Incident\# 3218038 (O lost trips, 20 lost minutes) CHARGEABLE Major propulsion fault.
Train 453
T-448
738-737-747
Irwindale Tk 2 S/B

10/30/2019 8:05:00 AM - Incident\# 3220157 (1 lost trip, 222 lost minutes) CHARGEABLE train 407

T-122
LRV Cars (1189A)-1010-1111

Operator reporting of ATP Failure with no movement North from Maravilla Station.

## Wayside Incidents:

10/14/2019 9:39:00 AM - Incident\# 3213371 (0 lost trips, 15 lost minutes)
B15 @ Soto TPSS tripped and deenergized,Track\#2 also ETS at Center TPSS has been activated.

## Police \& Health Incidents:

10/5/2019 9:14:00 PM - Incident\# 3209434 (O lost trips, 6 lost minutes)
Femle Smoking an Illegal Substance at Atlantic Station Platform 1
Train 413
T-540
1006-(1059A)-1008
Atlantic Station, Platform 1, Northbound

10/18/2019 6:32:00 PM - Incident\# 3215583 (0 lost trips, 12 lost minutes)
3rd. and Mednick Traffic Accident MTA not invilved.

10/21/2019 10:52:00 AM - Incident\# 3216289 (0 lost trips, 16 lost minutes)

Female hispanic requesting medical assistance, complaints of a heache and reports a prior condition: Diabetic Train 405
T-340
Del Mar Station track 2 Southbound
Consist 1005-1125-1104

10/22/2019 9:53:00 PM - Incident\# 3217065 (O lost trips, 20 lost minutes)
Police activity at 1st and Gless due to shooting.

## Other Incidents:

10/3/2019 7:41:00 AM - Incident\# 3208415 (0 lost trips, 5 lost minutes)
High Speed Circuit Break on car (720B), no movement from APU.
Train \# 414
T-338
APU, track \#2, southbound
733731 (720)

10/31/2019 5:38:00 PM - Incident\# 3220877 (1 lost trip, 198 lost minutes)
Train 425 reports of Prop Fault with a speed restriction.
T-221
Train 425
Cars: (735)-716-728
SB Tk-2 Monrovia Station.

10/2/2019 6:09:00 PM - Incident\# 3208251 (O lost trips, 9 lost minutes)
Train 427 reports of a possible 10-390.

10/3/2019 11:06:00 PM - Incident\# 3208798 (0 lost trips, 20 lost minutes)
T-323 reports train 409 (701-725), Atlantic Station, track 1 reports consist had a strong fowl odor. However, she checked and there was no longer anyone smoking on board. "What do you want me to do"

10/15/2019 12:18:00 PM - Incident\# 3213937 (0 lost trips, 8 lost minutes)
Dirty Car (1165B)
Train 403
T-93
(1165B)-1104
Northbound, Track 1 Sierra Madre station.
10/17/2019 3:21:00 PM - Incident\# 3215089 (6 lost trips, 1,194 lost minutes)
Slip/Fall
Train 451
T-131
744-(742B)
Southbound, Track 2 Sierra Madre station.

## Unable To Duplicate:

10/4/2019 1:35:00 PM - Incident\# 3209077 (2 lost trips, 417 lost minutes) CHARGEABLE
Car 1124 doors do not open .
T-92
Train 403
Cars 1010-(1124)-1057
Lake Station, Track 2, southbound.

10/9/2019 11:47:00 AM - Incident\# 3211651 (0 lost trips, 12 lost minutes)
Train 451 reporting Major Prop Fault with No Movement.
T-248
Train 451
Cars: 747-(750)-739
SB TK-2 Downtown Azusa

10/9/2019 3:33:00 PM - Incident\# 3211779 (0 lost trips, 12 lost minutes)
Train 415 experienced No indications, No movement.

10/9/2019 4:54:00 PM - Incident\# 3211819 (0 lost trips, 10 lost minutes)
Train 420 reported no movement, with no indications.
T-106
Train 420
Cars:(1178)-1006-1059
NB Tk-1 Eastern

10/9/2019 10:58:00 PM - Incident\# 3211899 (0 lost trips, 20 lost minutes)
Doors do not open on all 3 cars, operating car 1192B
11911008 (1192)
Train 418
T-445
APU Track 1 SB

10/19/2019 2:09:00 AM - Incident\# 3215649 ( 0 lost trips, 8 lost minutes)
Train 424 is reporting sluggish propulsion, yellow flag SLC fault and a HSCB trip
Train 424
T-002
(1059A)-1079
South Pasadena Station, Track 1, Northbound

10/23/2019 8:03:00 PM - Incident\# 3217539 ( 0 lost trips, 8 lost minutes)
SLT and SLC Fault with a Speed Restriction
Train 401
T-091
(1179A)-1185
Milepost 15.4, Track 2, Southbound

## Reset:

10/4/2019 1:35:00 PM - Incident\# 3209077 (2 lost trips, 417 lost minutes) CHARGEABLE Car 1124 doors do not open .
T-92
Train 403
Cars 1010-(1124)-1057
Lake Station, Track 2, southbound.

10/3/2019 7:41:00 AM - Incident\# 3208415 (O lost trips, 5 lost minutes)
High Speed Circuit Break on car (720B), no movement from APU.
Train \# 414
T-338
APU, track \#2, southbound
733731 (720)

10/10/2019 5:01:00 AM - Incident\# 3211942 (0 lost trips, 8 lost minutes)
Train-406 T-103 cars 1010/1179/1181 with HSCB trip pn car 1181.

## MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS COMPLIANCE WITH SCHEDULED VEHICLE HOURS Oct 2019



COMPLIANCE WITH SCHEDULED TRAIN MILES


## ON-TIME PULL OUTS



## IN-SERVICE ON-TIME PERFORMANCE



LOST TRIPS


## LOST HOURS



## VERTICAL TRANSPORTATION AVAILABILITY




## EXPO LINE

Out of a total of 19,139 hours operated, there were approximately 91 total hours of service delays.

| October 2019 Service Hours * <br> Hours |  |  |
| :--- | ---: | ---: |
| Revenue |  |  |
| Revenue Hours without Delays | 19,048 | $99.5 \%$ |
| Cancelled + Delayed Hours | 91 | $0.5 \%$ |
| Total Revenue Hours | $\mathbf{1 9 , 1 3 9}$ | $\mathbf{1 0 0 . 0 \%}$ |


| Summary of the incidents: | Count | Hours | Percent |
| :---: | :---: | :---: | :---: |
| Operations | 3 | 2.5 | 2.8\% |
| Accidents | 2 | 24.8 | 27.4\% |
| Vehicle Maintenance | 8 | 14.7 | 16.2\% |
| Wayside | 3 | 0.7 | 0.7\% |
| Police \& Health | 4 | 11.7 | 12.9\% |
| Other | 9 | 36.3 | 40.0\% |
| Total | 29 | 90.7 | 100.0\% |

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

The number of incidents on the following page may differ from the summary
count due to some incidents not properly designated as Cancelled or Delayed


## October 2019 Expo Line incidents causing delay were as follows:

## Operations Incidents:

10/3/2019 5:01:00 PM - Incident\# 3208720 (1 lost trip, 133 lost minutes)
Yard states no equipment for last pull out train 622 due out at 1728 hours.

10/17/2019 4:24:00 AM - Incident\# 3214781 (0 lost trips, 14 lost minutes)
T-285 reported that he had no movement while attmpting to depart 7th/Metro Center Southbound.
T-285
Train 611
(1026A)-1020-1068
Southbound, Track 1
7th/ Metro Center Station

10/28/2019 4:32:00 AM - Incident\# 3219046 (0 lost trips, 5 lost minutes)
Yard Control contacted ROC at 0432 that train 105 was pulling out late due to a replacement in the yard.

## Accidents:

10/2/2019 11:59:00 AM - Incident\# 3208085 (10 lost trips, 1,348 lost minutes)
Operator reported a 10-72 at Pico Station.
T-329
Train 603
Cars (1048B)-1068
Pico Station, track 2, South

10/3/2019 1:45:00 PM - Incident\# 3208632 (1 lost trip, 141 lost minutes)
10-73, Raymond and Expo
Train 610
T-315
(1045A)-1020-1017
Track 4
Southbound

## Vehicle Maintenance Incidents:

10/3/2019 7:50:00 AM - Incident\# 3208462 (1 lost trip, 143 lost minutes) CHARGEABLE
T-362 reported that his doors were not opening at Farmdale Station Track 4.
T-362
Train 609
(1064B)-1043-1065
Southbound, Track 4
Farmdale Station

10/3/2019 11:51:00 AM - Incident\# 3208571 (1 lost trip, 163 lost minutes) CHARGEABLE
Initial call was friction brakes, consist lost air.
Train 609
(240B)-238-241
T-062
Track 4
Southbound
Palms IL (blocking north crossover)

10/8/2019 6:53:00 AM - Incident\# 3211086 (0 lost trips, 6 lost minutes) CHARGEABLE
Train-635 T-362 cars 1043-1030-1049 experienced propulsion faults upon relocating for storage lane to signal-8N
Bundy IL on car 1043. Car 1043 was uncoupled from consist inside Expo Yard. Thus 1) out-late incurred and 2)
10/11/2019 10:13:00 PM - Incident\# 3212722 (0 lost trips, 13 lost minutes) CHARGEABLE
Propulsion fault
Car 1018a
7/Metro
Southbound
Train 622

10/14/2019 6:08:00 AM - Incident\# 3213252 (1 lost trip, 133 lost minutes) CHARGEABLE
Operator T-226
Train 603
Cars 1061,(1064),1051
Track 3 Jefferson station
Reported doors would not open on car 1064.

10/22/2019 2:40:00 PM - Incident\# 3216928 (1 lost trip, 141 lost minutes) CHARGEABLE T-238 reports an EMI fault with no movement.Self test check.
EMI Fault
Self-check test
Train 610
T-238
Cars (239)250-247
20th street track 3.

10/29/2019 7:51:00 AM - Incident\# 3219583 (2 lost trips, 282 lost minutes) CHARGEABLE
Operator T-227 reporting self applying Friction Brakes, emergency braking on LRV 248A
Train 601
T-227
LRV'S ( 248A ) 249-239
Sepulveda Station track 3 northbound.

10/31/2019 2:38:00 PM - Incident\# 3220892 (0 lost trips, 5 lost minutes)

Operator reports no movement
Train-604
T-238
Cars (1065),1025,1039
Downtown Santa Monica, Track 4, NB

## Wayside Incidents:

10/3/2019 4:04:00 AM - Incident\# 3208343 (0 lost trips, 10 lost minutes)
PICO TPSS- Feeder Breaker B03 Open Position.

10/14/2019 12:37:00 PM - Incident\# 3213494 (O lost trips, 20 lost minutes)
ARINC indicates an ETS Trip at Clarington and National TPSS's.

10/19/2019 3:57:00 PM - Incident\# 3215794 (O lost trips, 10 lost minutes)
Traction Power personnel was troubleshooting at Clarrington TPSS that causes deenergized tracks and breakers B12 and B13 to open at Overland TPSS.

## Police \& Health Incidents:

10/1/2019 2:16:00 PM - Incident\# 3207751 (4 lost trips, 539 lost minutes)
Altercations aboard trains.
T-29
Train 608
Cars (1026)-1053-1070
Palms station track 3

10/4/2019 3:23:00 PM - Incident\# 3209117 (1 lost trip, 143 lost minutes)
Operator reported a traffic accident at Exposition and Gramercy. A car went through the gate and on to the Right Of Way.

10/20/2019 6:24:00 PM - Incident\# 3216041 (0 lost trips, 10 lost minutes)
Train 605
T-375
Track \#4 Southbound
Bundy Station
1040-1062-1070
Trespasser on the ROW at Bundy Station.

10/27/2019 12:00:00 PM - Incident\# 3218910 (0 lost trips, 12 lost minutes)
LAPD notified Expo control that there was a dog on the ROW.

## Other Incidents:

10/23/2019 2:19:00 AM - Incident\# 3217087 (0 lost trips, lost minutes)
Train vs auto, 0 lost minutes.

10/4/2019 4:03:00 AM - Incident\# 3208828 (0 lost trips, 14 lost minutes)
B-03 at Pico TPSS was open with control tag placed by FM-182. Train 601 had no movement out of 7th and

10/15/2019 7:20:00 AM - Incident\# 3213798 (0 lost trips, 5 lost minutes)
Feces on car 1060B
Train 603
(1060B)-1050-1038
7th/Metro, track 1, southbound
10/16/2019 6:44:00 AM - Incident\# 3214234 (10 lost trips, 1,338 lost minutes)
Patron laying on floor on car (1023B).
Jefferson Station, Track \#3, Northbound.
Train \#602.
T-089.
LRV- 1047, 1034, (1023B).
10/23/2019 1:05:00 PM - Incident\# 3217370 (0 lost trips, 10 lost minutes)
Slip and Fall
23rd St station
T-473 TK 3 NB
(1024A)-1028-1067

10/27/2019 11:37:00 AM - Incident\# 3218902 (0 lost trips, 12 lost minutes)
Black Male wearing all black pulled emergency handle on car 1043B.
Train 602
T-497
1070-1019-(1043)
Palms IL, Track 3, Northbound

## Unable To Duplicate:

10/15/2019 5:23:00 AM - Incident\# 3213753 (4 lost trips, 532 lost minutes)
Doors will not open (250A)
Train 614
T-47
(250A)-302-239
Bundy station, track 1, Northbound

10/31/2019 4:26:00 PM - Incident\# 3220887 (1 lost trip, 136 lost minutes)
Operator reports a speed restriction.
Train-606
T-368
Cars (1065),1025,1039
La Cienega, Track 4, SB
Reset:

10/3/2019 4:11:00 AM - Incident\# 3208336 (1 lost trip, 133 lost minutes)

T-100 reported a friction brake fault in intermediate car (301).
T-100
Train 613
241-(301)-238
Northbound, Track 3
Bundy Station

## MEASURES OF THE OVERALL SERVICE IMPACT OF RAIL INCIDENTS COMPLIANCE WITH SCHEDULED VEHICLE HOURS Oct 2019



COMPLIANCE WITH SCHEDULED TRAIN MILES


## ON-TIME PULL OUTS



IN-SERVICE ON-TIME PERFORMANCE


LOST TRIPS


## LOST HOURS



VERTICAL TRANSPORTATION AVAILABILITY


Note: An elevator at Culver City Station has been out of service indefinitely.


[^0]:    ${ }^{1}$ There is a One Month lag in reporting this data
    ${ }^{2}$ Includes Operations, RFS and Wayside
    ${ }^{3}$ MMBMF for each line is based on Actual Vehicle Revenue Miles since hub miles are not available by the line operated.
    Vehicles from Division 11 may operate on the Expo or Blue Line.
    Green - High probability of achieving the target (on track). Meets Target at $100 \%$ or better.
    Yellow - Uncertain if the target will be achieved -- slight problems, delays or management issues. Falls below Target $70-99 \%$.
    $\bigcirc$ Red - 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.

