

FMCB Commuter Rail Update

January 14, 2018

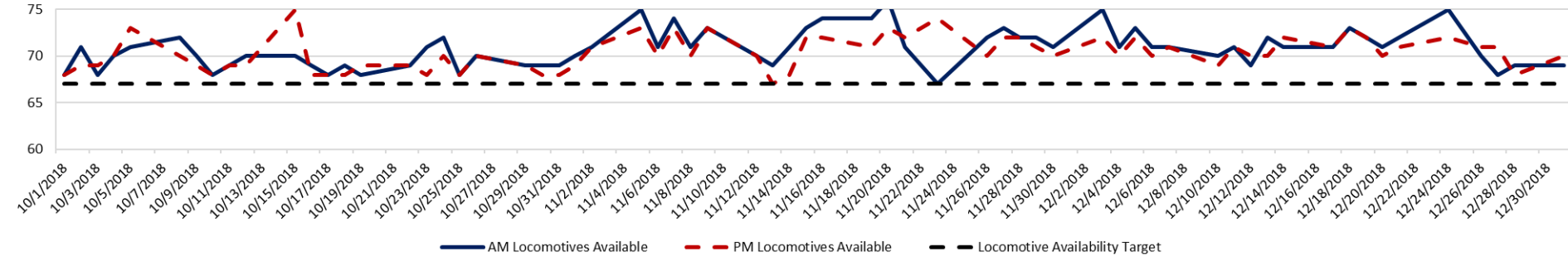


Equipment Availability



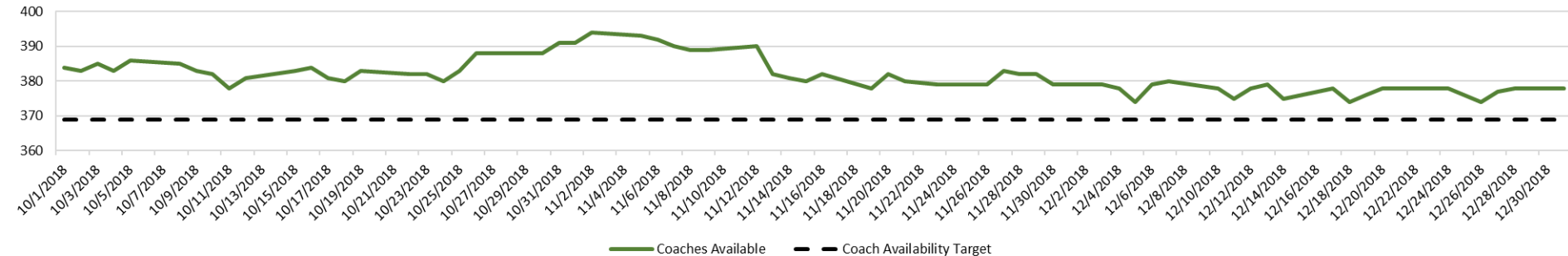
Target: 67 Locomotives Available

Locomotive Availability
(last 12 weeks)



Target: 369 Coaches Available

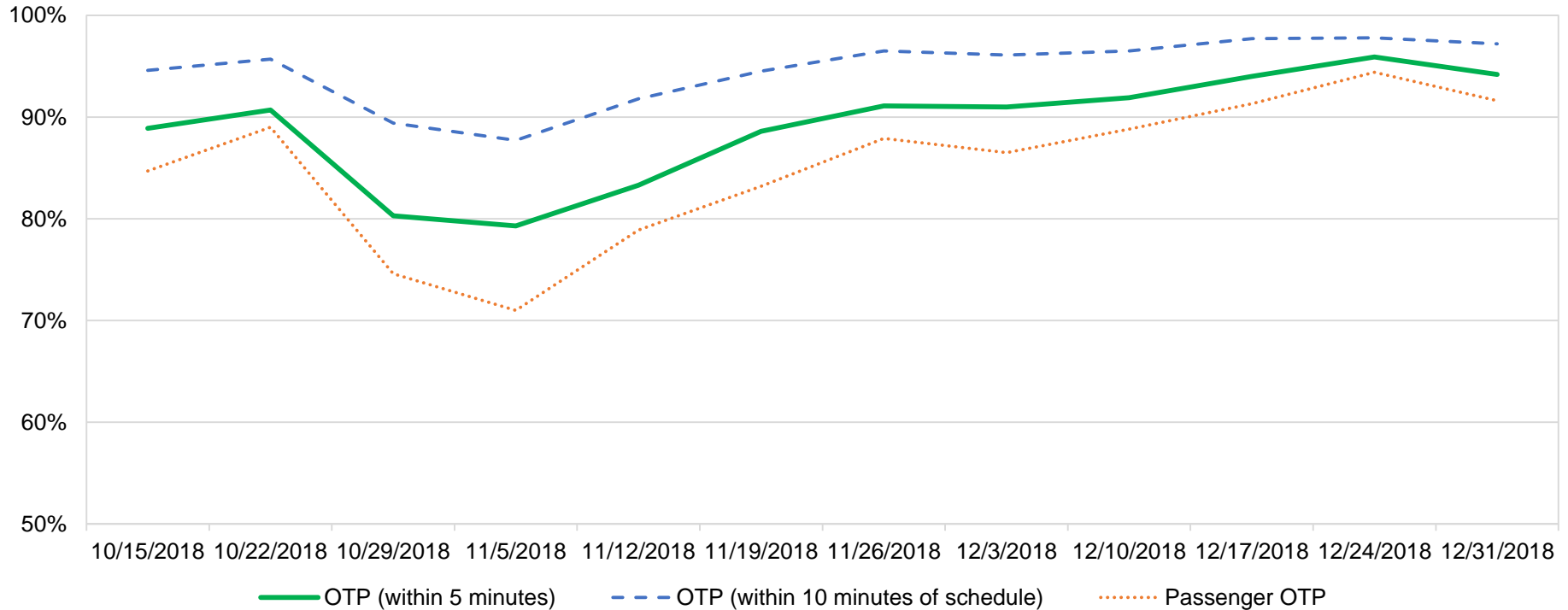
Coach Availability
(last 12 weeks)



On Time Performance



On Time Performance (OTP) by Week





OTP Within 5 Minutes

| | January 2018 | February 2018 | March 2018 | April 2018 | May 2018 | June 2018 | July 2018 | August 2018 | September 2018 | October 2018 | November 2018 | December 2018 | Trailing Year Average |
|--------------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|--------------|---------------|---------------|-----------------------|
| Fairmount | 92.9% | 96.8% | 96.4% | 97.9% | 97.9% | 95.3% | 96.8% | 95.2% | 94.1% | 97.2% | 95.3% | 98.3% | 96.2% |
| Fitchburg | 76.0% | 91.7% | 87.5% | 86.7% | 84.9% | 87.0% | 85.5% | 88.0% | 88.1% | 87.1% | 76.3% | 88.4% | 85.6% |
| Franklin | 82.5% | 91.8% | 88.6% | 89.2% | 82.5% | 84.9% | 77.8% | 80.2% | 84.8% | 82.8% | 79.7% | 90.7% | 84.5% |
| Greenbush | 90.7% | 94.5% | 85.7% | 98.0% | 94.6% | 95.4% | 93.5% | 93.7% | 94.7% | 94.6% | 91.7% | 98.0% | 93.7% |
| Haverhill | 82.7% | 88.9% | 82.4% | 90.6% | 93.9% | 93.0% | 92.3% | 92.6% | 92.5% | 92.5% | 88.6% | 93.1% | 90.3% |
| Kingston/Plymouth | 88.7% | 93.8% | 84.8% | 94.0% | 93.0% | 90.1% | 90.2% | 91.6% | 92.7% | 90.6% | 87.3% | 95.4% | 91.0% |
| Lowell | 80.1% | 91.4% | 84.9% | 90.9% | 89.2% | 92.7% | 91.8% | 93.0% | 90.6% | 89.6% | 85.3% | 95.4% | 89.5% |
| Middleboro | 91.3% | 89.7% | 85.6% | 95.7% | 90.3% | 89.4% | 88.1% | 88.5% | 91.8% | 91.3% | 88.3% | 93.6% | 90.3% |
| Needham | 87.6% | 95.3% | 90.0% | 91.4% | 90.2% | 92.0% | 88.8% | 91.6% | 94.6% | 89.9% | 85.3% | 92.2% | 90.7% |
| Newburyport | 76.1% | 93.1% | 85.8% | 92.2% | 92.7% | 92.7% | 91.9% | 89.8% | 92.6% | 86.8% | 85.3% | 94.6% | 89.4% |
| Providence | 83.0% | 92.2% | 88.1% | 86.5% | 87.8% | 87.1% | 81.4% | 86.6% | 84.0% | 82.5% | 83.0% | 89.1% | 85.9% |
| Rockport | 76.6% | 92.4% | 85.5% | 92.7% | 93.8% | 92.2% | 93.4% | 90.1% | 93.4% | 86.4% | 85.4% | 96.2% | 89.8% |
| Stoughton | 83.0% | 89.7% | 86.5% | 86.9% | 87.1% | 88.7% | 81.1% | 82.7% | 84.3% | 82.4% | 80.1% | 90.7% | 85.2% |
| Worcester | 86.7% | 92.0% | 89.6% | 90.8% | 88.0% | 83.0% | 78.9% | 88.5% | 93.3% | 85.7% | 82.4% | 90.5% | 87.5% |
| Grand Total | 83.9% | 92.4% | 87.5% | 91.4% | 90.3% | 90.0% | 87.8% | 89.4% | 90.8% | 88.3% | 85.2% | 93.2% | 89.1% |



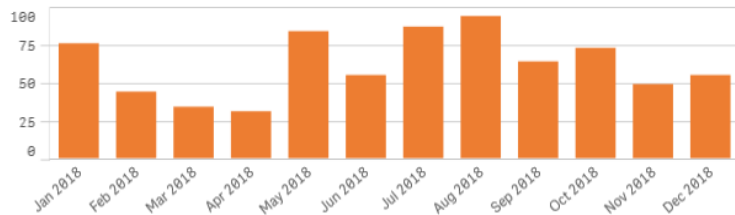
OTP Within 10 Minutes

| | January 2018 | February 2018 | March 2018 | April 2018 | May 2018 | June 2018 | July 2018 | August 2018 | September 2018 | October 2018 | November 2018 | December 2018 | Trailing Year Average |
|--------------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|--------------|---------------|---------------|-----------------------|
| Fairmount | 95.1% | 98.8% | 98.4% | 99.3% | 99.5% | 97.8% | 98.8% | 97.2% | 97.2% | 98.6% | 98.0% | 99.5% | 98.2% |
| Fitchburg | 84.2% | 96.2% | 93.1% | 93.1% | 93.2% | 92.9% | 93.0% | 94.4% | 93.7% | 93.6% | 85.7% | 94.4% | 92.3% |
| Franklin | 89.6% | 96.2% | 94.4% | 95.5% | 91.9% | 93.1% | 87.5% | 89.2% | 92.2% | 91.0% | 90.9% | 96.2% | 92.2% |
| Greenbush | 93.8% | 97.3% | 89.5% | 98.9% | 97.3% | 97.8% | 95.8% | 96.8% | 96.5% | 96.9% | 95.1% | 98.6% | 96.2% |
| Haverhill | 89.1% | 95.3% | 89.8% | 96.2% | 96.5% | 97.0% | 96.5% | 96.0% | 96.5% | 96.9% | 94.1% | 96.9% | 95.1% |
| Kingston/Plymouth | 92.5% | 97.8% | 89.3% | 98.0% | 96.6% | 96.0% | 95.8% | 96.0% | 96.2% | 94.7% | 91.0% | 98.0% | 95.1% |
| Lowell | 90.0% | 97.4% | 92.1% | 96.9% | 96.7% | 97.4% | 97.0% | 97.4% | 96.5% | 95.5% | 94.4% | 98.5% | 95.7% |
| Middleboro | 94.3% | 95.3% | 91.1% | 98.3% | 95.4% | 95.2% | 94.0% | 92.2% | 95.1% | 94.7% | 93.5% | 97.4% | 94.7% |
| Needham | 93.5% | 98.9% | 96.2% | 96.8% | 95.1% | 96.7% | 94.9% | 96.6% | 98.7% | 95.3% | 93.4% | 97.3% | 96.0% |
| Newburyport | 82.6% | 97.3% | 91.2% | 97.1% | 97.2% | 96.2% | 98.2% | 96.1% | 97.6% | 93.5% | 94.1% | 97.8% | 94.9% |
| Providence | 89.4% | 96.9% | 92.9% | 94.0% | 94.1% | 94.3% | 90.8% | 93.9% | 92.5% | 91.9% | 90.8% | 95.5% | 93.0% |
| Rockport | 81.5% | 96.1% | 90.6% | 96.4% | 97.2% | 97.4% | 97.0% | 94.6% | 98.1% | 93.8% | 91.8% | 98.0% | 94.3% |
| Stoughton | 90.9% | 94.9% | 94.0% | 94.7% | 94.4% | 94.2% | 89.9% | 90.3% | 92.8% | 89.8% | 90.6% | 94.8% | 92.6% |
| Worcester | 91.8% | 96.1% | 93.9% | 96.2% | 94.7% | 90.2% | 88.1% | 93.7% | 96.5% | 91.9% | 91.9% | 95.5% | 93.4% |
| Grand Total | 89.8% | 96.8% | 92.8% | 96.4% | 95.7% | 95.3% | 94.0% | 94.6% | 95.7% | 94.1% | 92.6% | 97.0% | 94.5% |

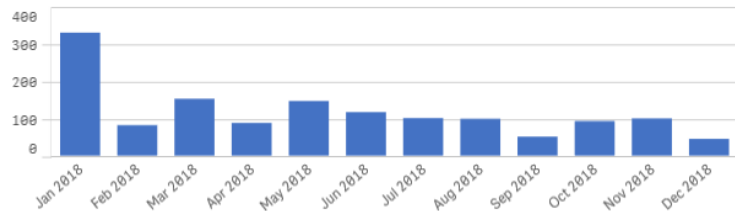


December OTP

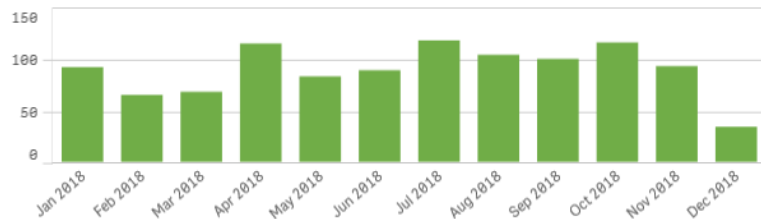
Main Engine & HEP Failures



Signal System Delays



Amtrak Conflicts

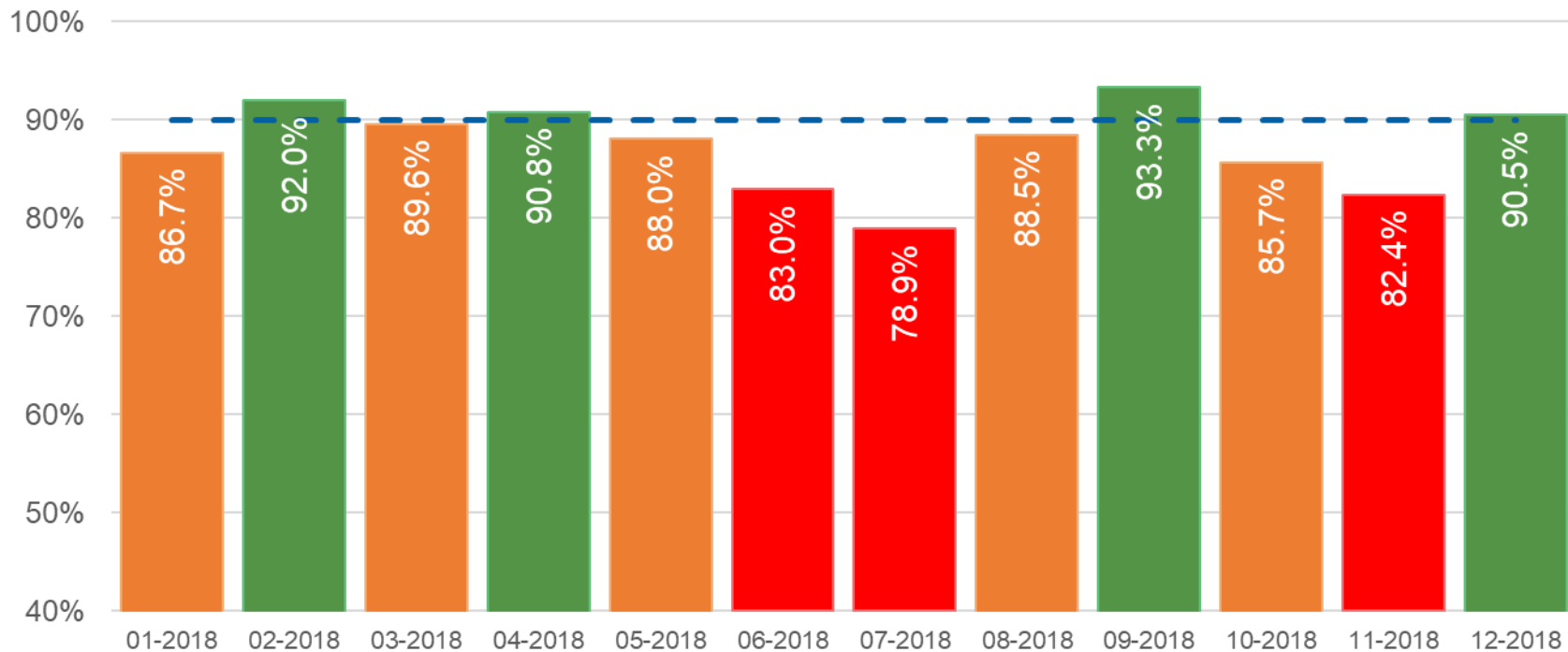


- December OTP at 93.2% is the best performing month since start of Keolis contract, outperforming the previous best months of March 2016 (92.5%) and February 2018 (92.4%)
- Only third month since start of Keolis contract where passenger-weighted OTP exceeded 90%:
 - April 2016 – 90.8% (actual OTP was 92.4%)
 - February 2018 – 90.4% (actual OTP was 92.4%)
 - December 2018 – 90.3% (actual OTP was 93.2%)
- December's strong performance was driven by reduction in main engine and HEP failures, signal system delays, and Amtrak conflicts.
- Since slippery rail season ended, December also saw improvements from the October 29 schedule change



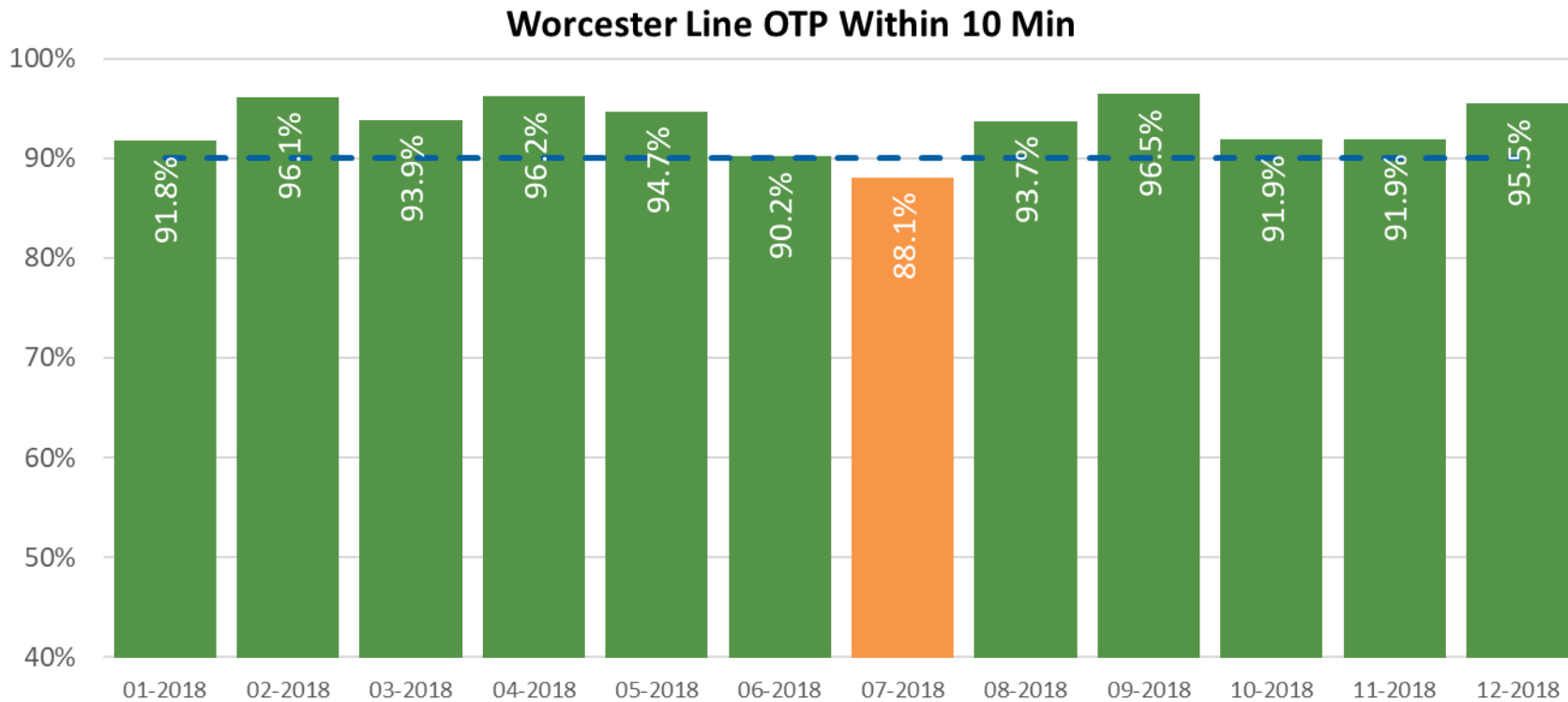
Worcester Line Plan

Worcester Line OTP Within 5 Min





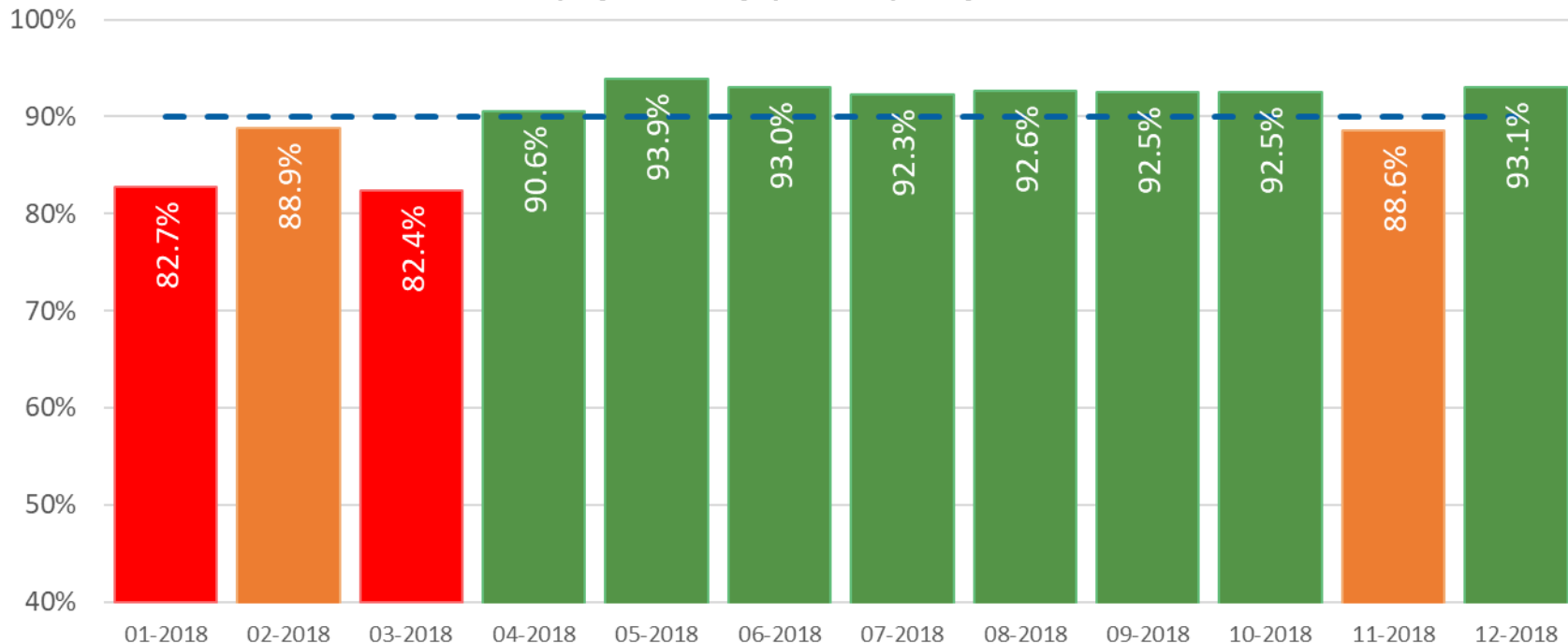
Worcester Line Plan



Haverhill Line Plan



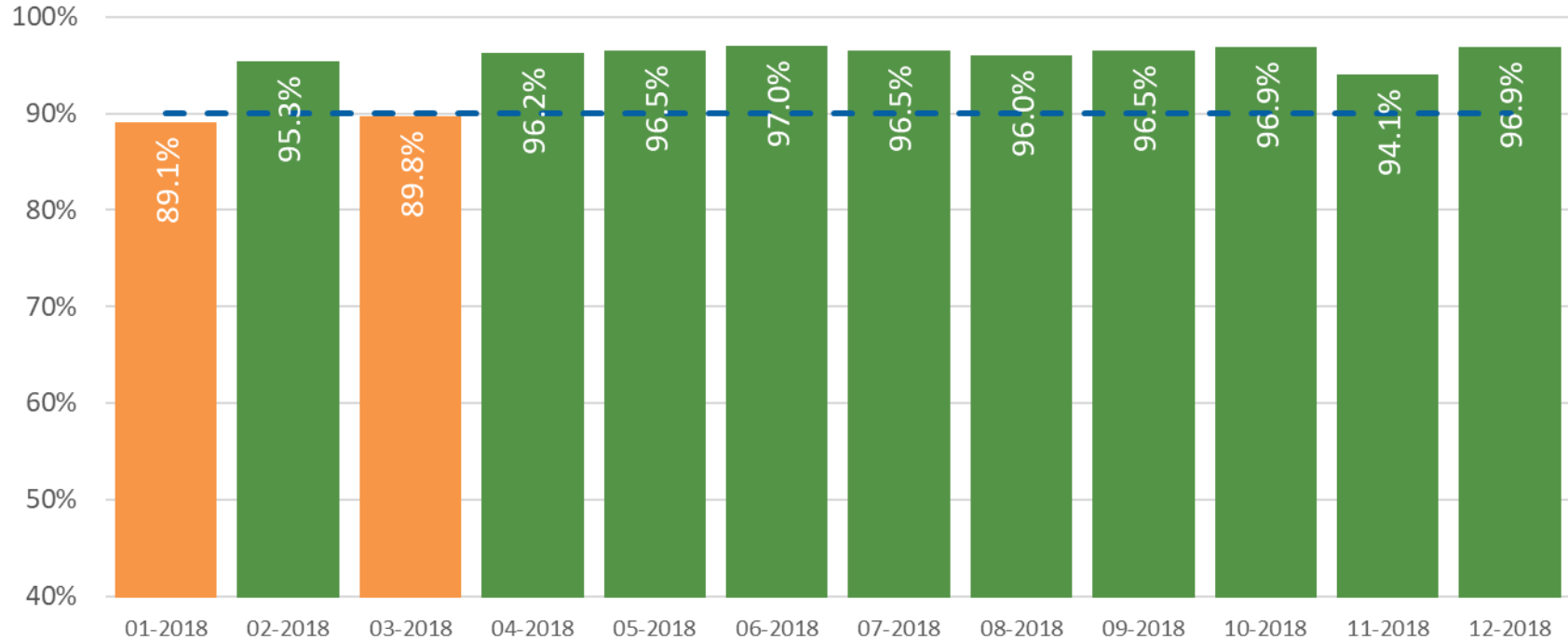
Haverhill Line OTP Within 5 Min



Haverhill Line Plan

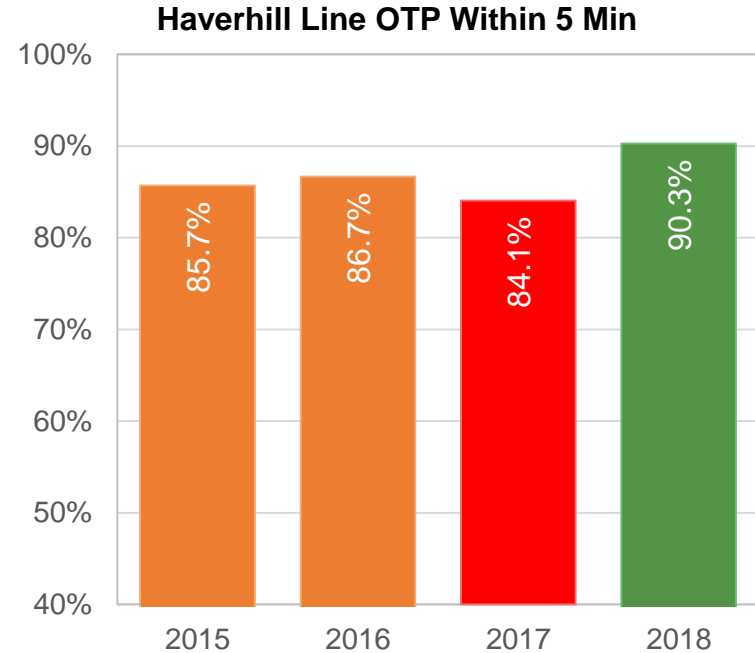
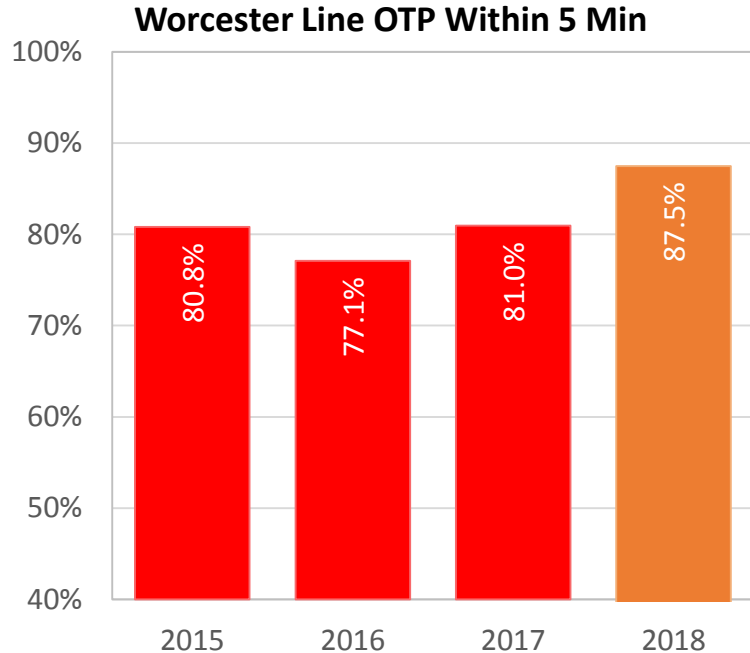


Haverhill Line OTP Within 10 Min



2018 Target Lines : Worcester & Haverhill Lines

Both target lines have had their best full-year performance since contract start





F40 Locomotive Overhaul – First Completed Unit in Boise, ID

BEFORE



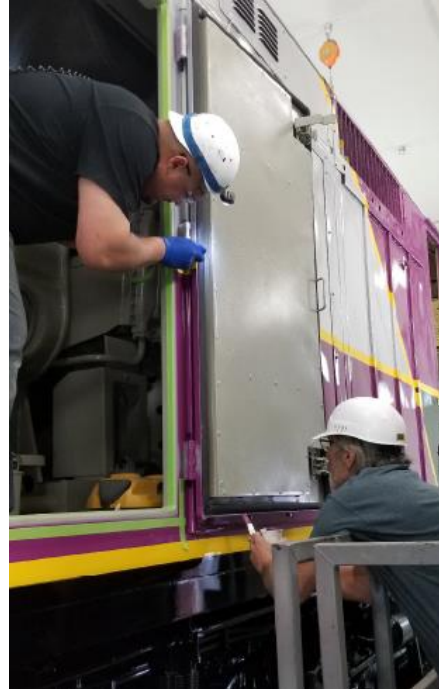
AFTER





F40 Locomotive Overhaul – Production Schedule

| Locomotive | Projected Ship Date |
|-----------------|---------------------|
| Unit 1 - #1054 | Jan. 2019 |
| Unit 2 - #1050 | Mar. 2019 |
| Unit 3 - #1032 | Apr. 2019 |
| Unit 4 - #1061 | May 2019 |
| Unit 5 - #1028 | May 2019 |
| Unit 6 - #1068 | Jun. 2019 |
| Unit 7 - #1063 | Jul. 2019 |
| Unit 8 - #1075 | Jul. 2019 |
| Unit 9 - #1035 | Aug. 2019 |
| Unit 10 - #1031 | Aug. 2019 |





Old Colony Late Service Proposal

- ◉ Proposal is to extend the hours of operation later, but still maintain the same amount of trains operating on each line.
 - Final outbound trains and next-to-last trains would depart later.
 - The corresponding final inbound trains on the Middleboro and Greenbush Lines would depart later.
 - This more evenly distributes evening service across the total service hours instead of creating a large gap in service.
- ◉ Cost Estimates
 - Weekday: An additional 200 minutes of service time (3 1/3 hours)
 - Weekend: An additional 135 minutes of service time (2 1/4 hours)
 - Estimated cost of increased service hours: \$150k-\$200k per year
 - This does not include Keolis' markup, nor does it include the potential need for adding additional crews (8-hour minimum).
- ◉ Strong community support, as indicated in a letter from the MBTA Advisory Board to the FMCB

| Weekday Service | Current Last Train | Proposed Last Train |
|-----------------------|--------------------|---------------------|
| Greenbush | 10:00 PM | 11:20 PM |
| Middleboro | 10:30 PM | 11:30 PM |
| Kingston/ Plymouth | 10:40 PM | 11:40 PM |

| Weekend Service | Current Last Train | Proposed Last Train |
|-----------------------|--------------------|---------------------|
| Greenbush | 10:55 PM | 11:20 PM |
| Middleboro | 10:35 PM | 11:30 PM |
| Kingston/ Plymouth | 10:45 PM | 11:40 PM |