

FMCB Commuter Rail Update

January 14, 2018

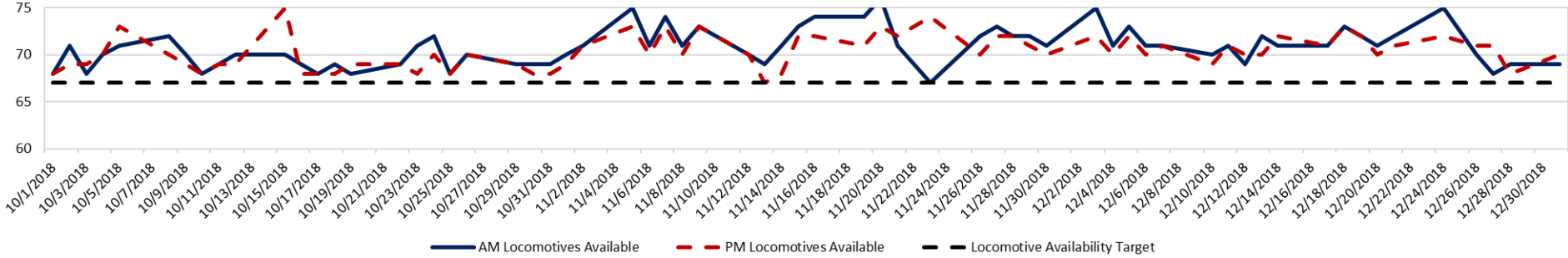




Equipment Availability

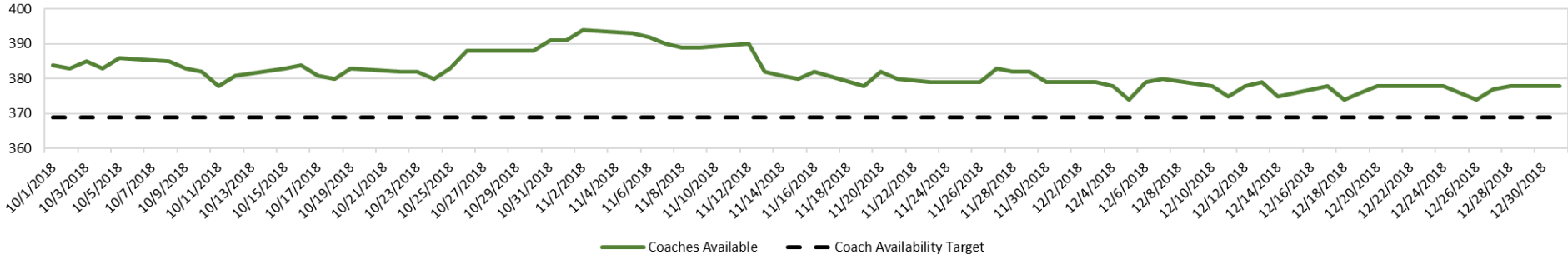
Target: 67 Locomotives Available

Locomotive Availability (last 12 weeks)



Target: 369 Coaches Available

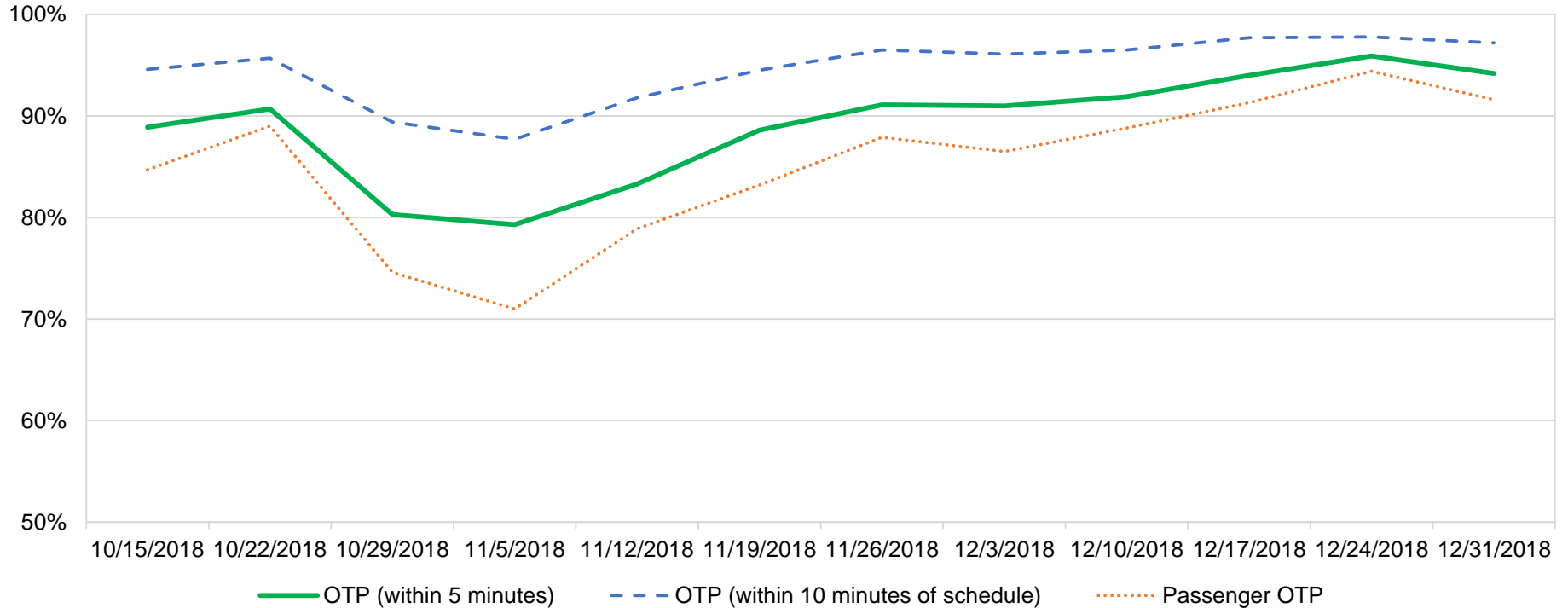
Coach Availability (last 12 weeks)





On Time Performance

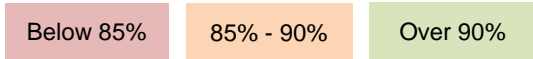
On Time Performance (OTP) by Week





OTP Within 5 Minutes

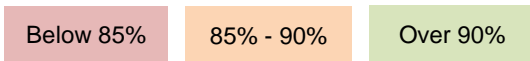
	January 2018	February 2018	March 2018	April 2018	May 2018	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	Trailing Year Average
Fairmount	92.9%	96.8%	96.4%	97.9%	97.9%	95.3%	96.8%	95.2%	94.1%	97.2%	95.3%	98.3%	96.2%
Fitchburg	76.0%	91.7%	87.5%	86.7%	84.9%	87.0%	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

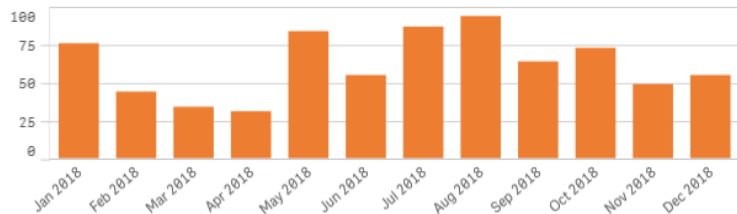
	January 2018	February 2018	March 2018	April 2018	May 2018	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	Trailing Year Average
Fairmount	95.1%	98.8%	98.4%	99.3%	99.5%	97.8%	98.8%	97.2%	97.2%	98.6%	98.0%	99.5%	98.2%
Fitchburg	84.2%	96.2%	93.1%	93.1%	93.2%	92.9%	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%



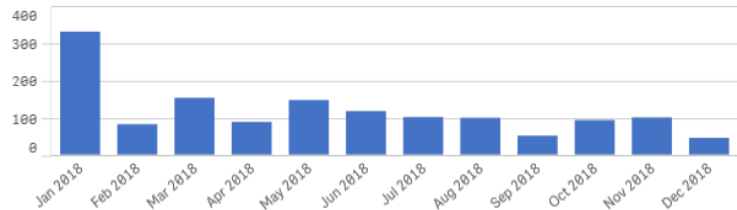


December OTP

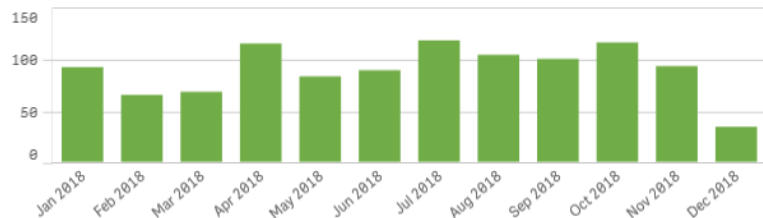
Main Engine & HEP Failures



Signal System Delays



Amtrak Conflicts

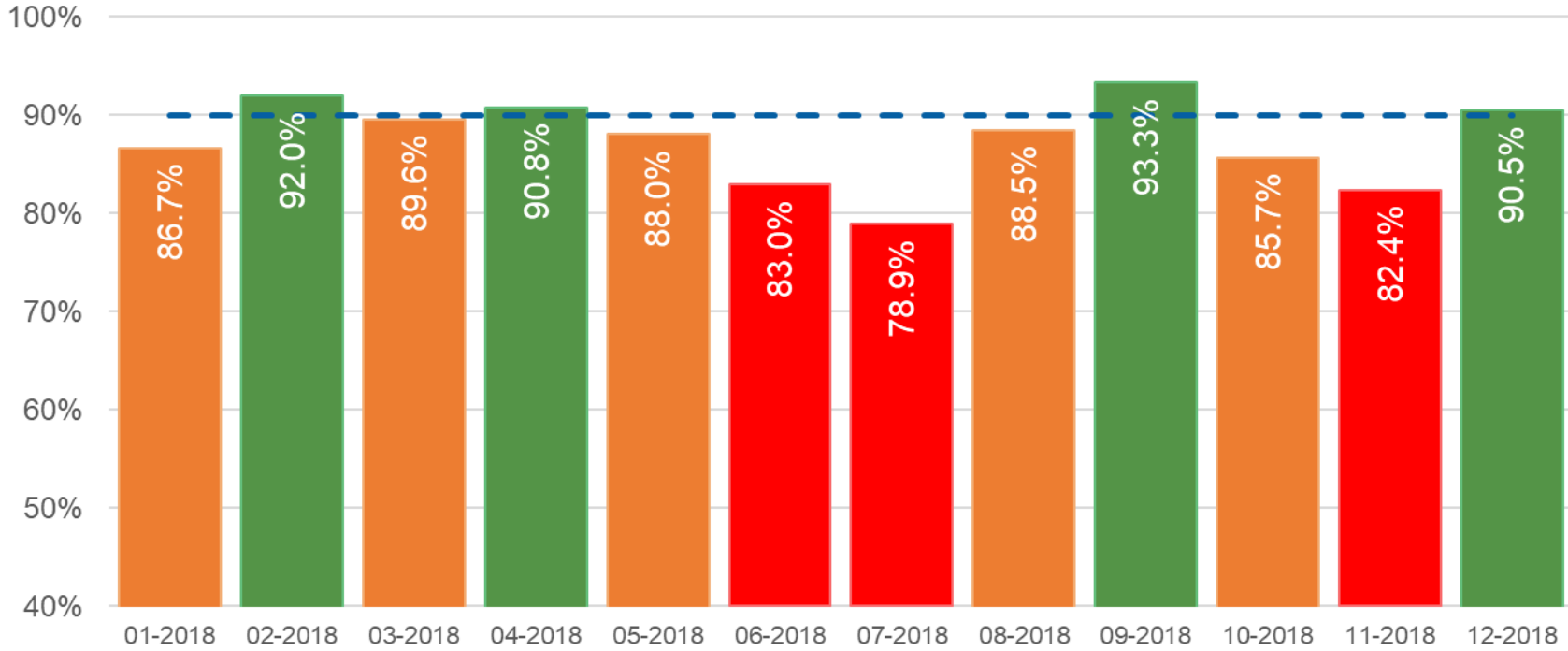


- December OTP at 93.2% is the best performing month since start of Keolis contract, outperforming the previous best months of March 2016 (92.5%) and February 2018 (92.4%)
- Only third month since start of Keolis contract where passenger-weighted OTP exceeded 90%:
 - April 2016 – 90.8% (actual OTP was 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



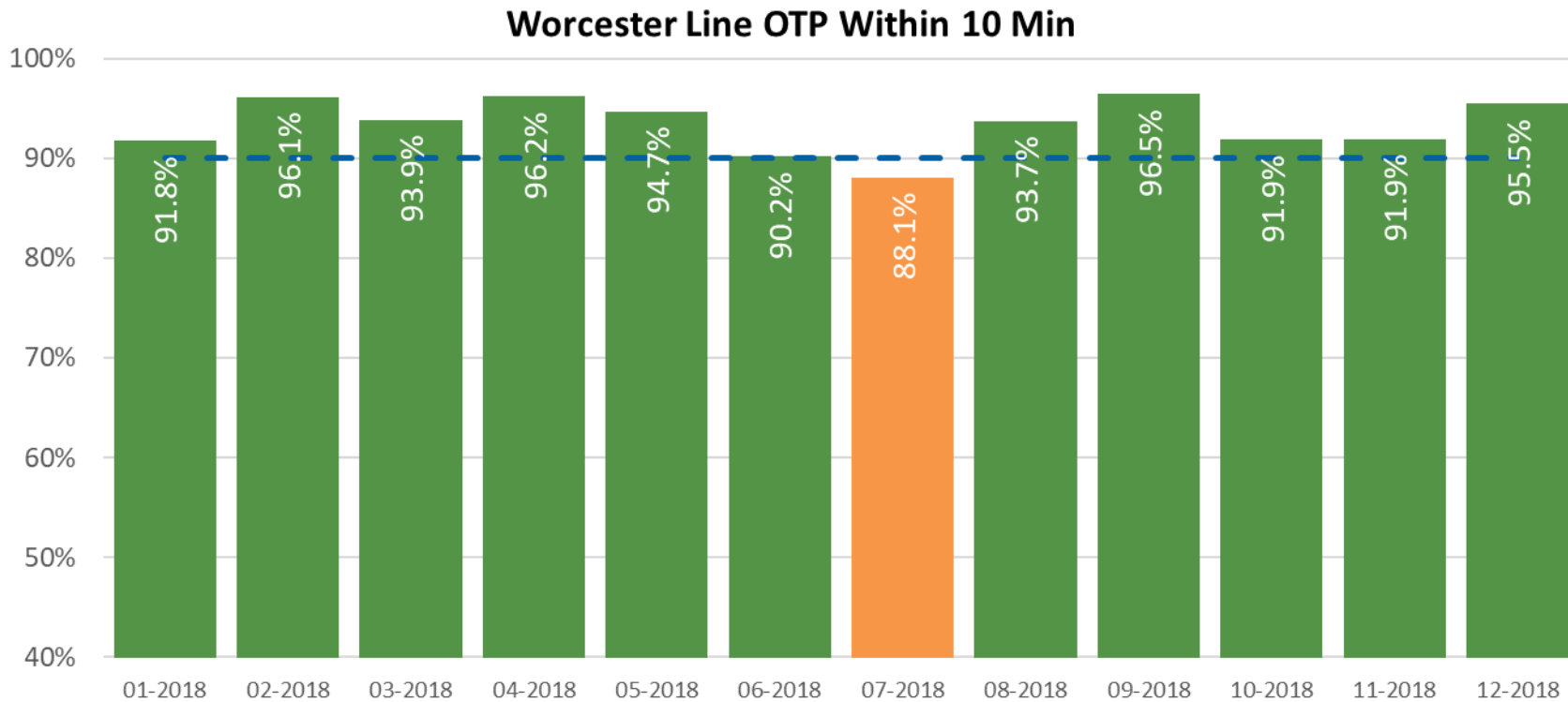
Worcester Line Plan

Worcester Line OTP Within 5 Min





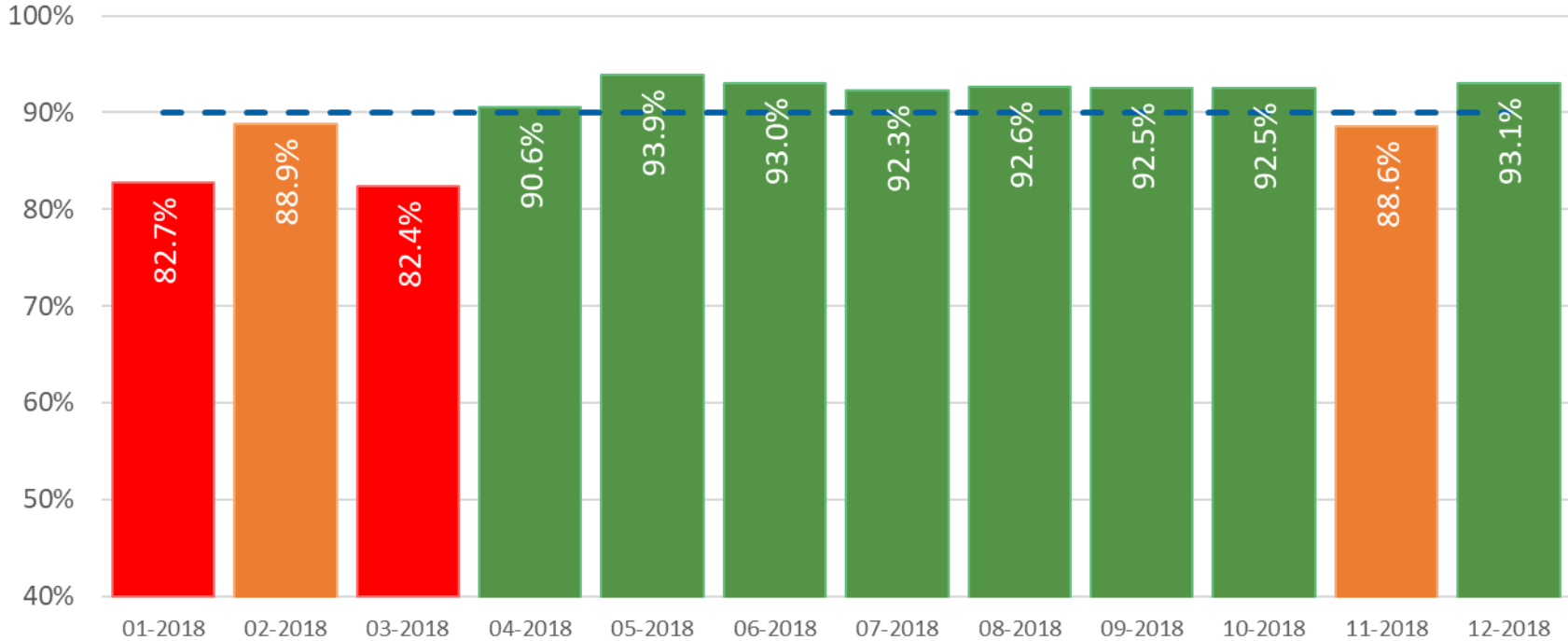
Worcester Line Plan



Haverhill Line Plan



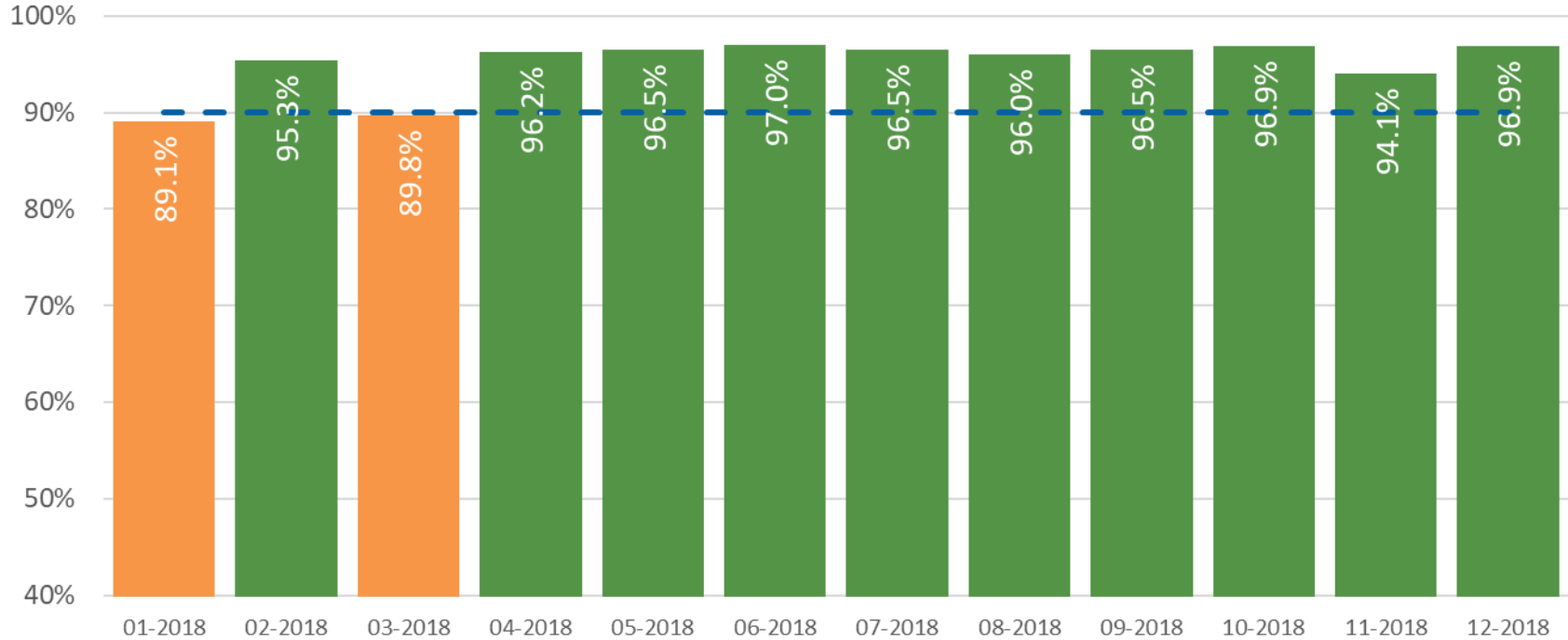
Haverhill Line OTP Within 5 Min



Haverhill Line Plan

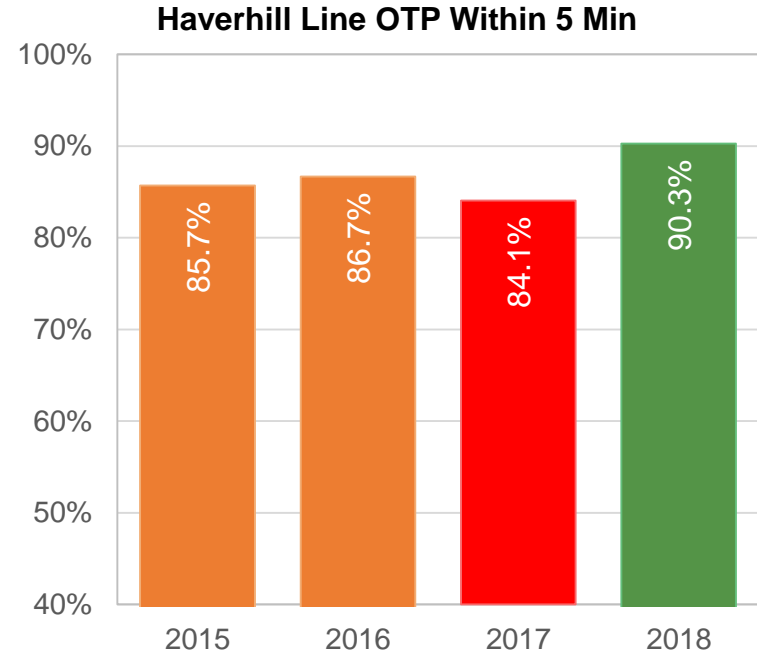
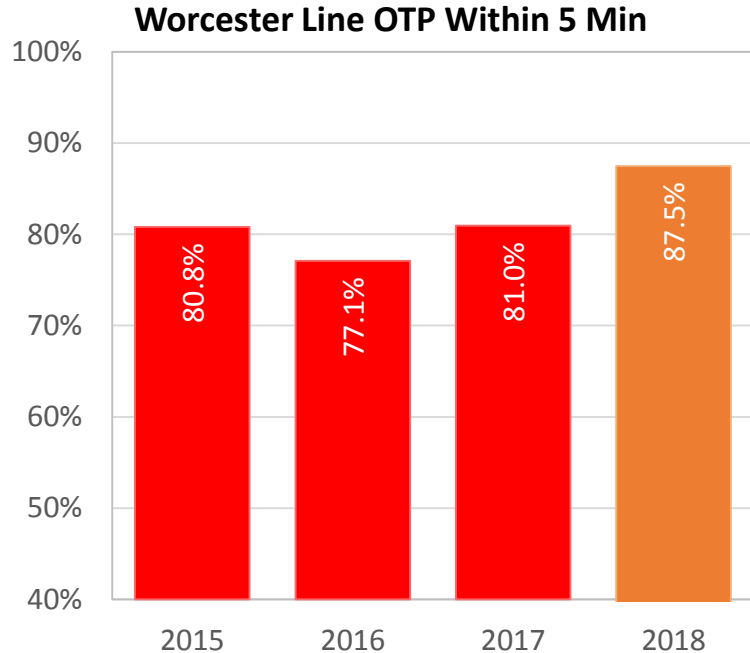


Haverhill Line OTP Within 10 Min



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



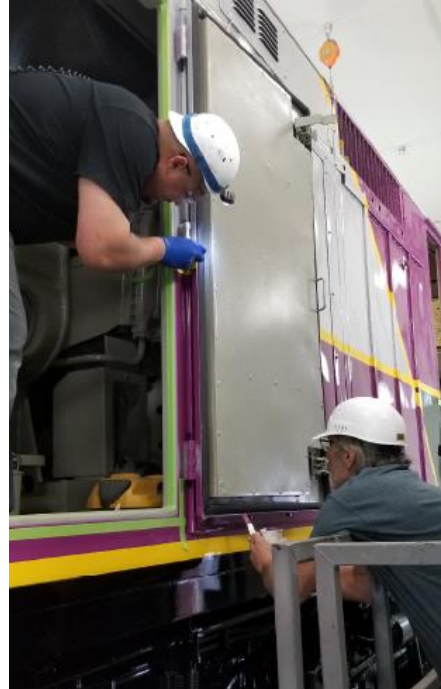
AFTER





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