

FMCB Commuter Rail Update

April 9, 2018

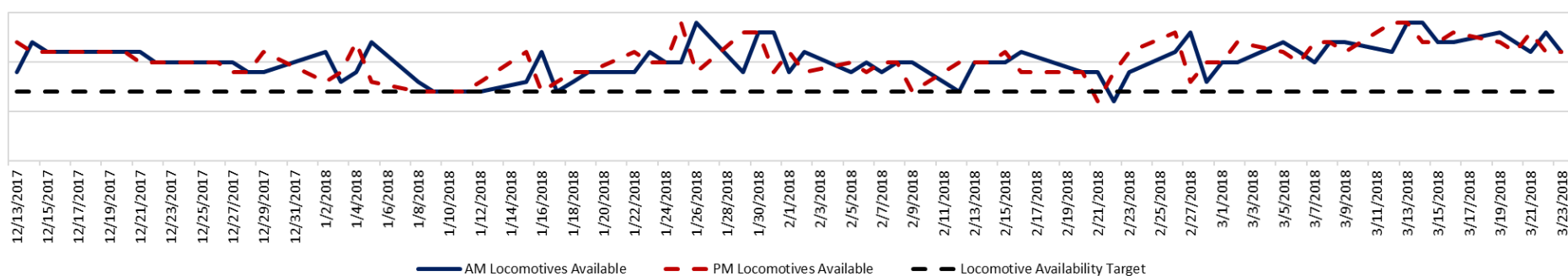


Equipment Availability



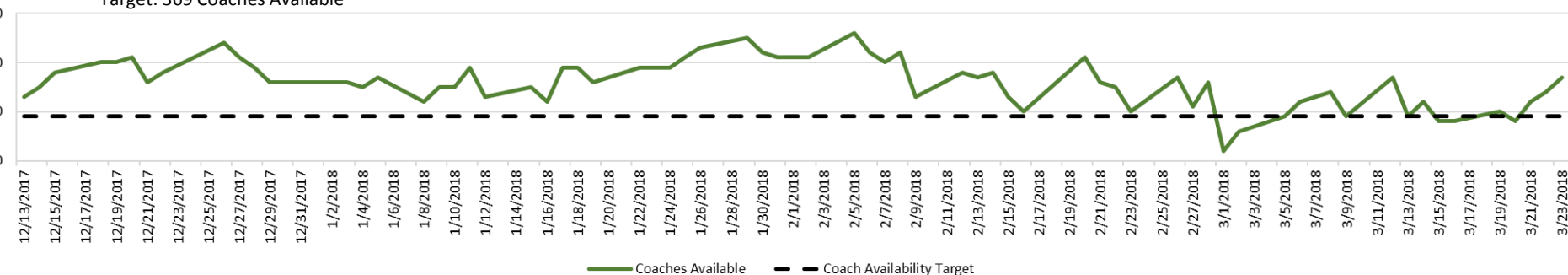
Target: 67 Locomotives Available

Locomotive Availability
(last 12 weeks)



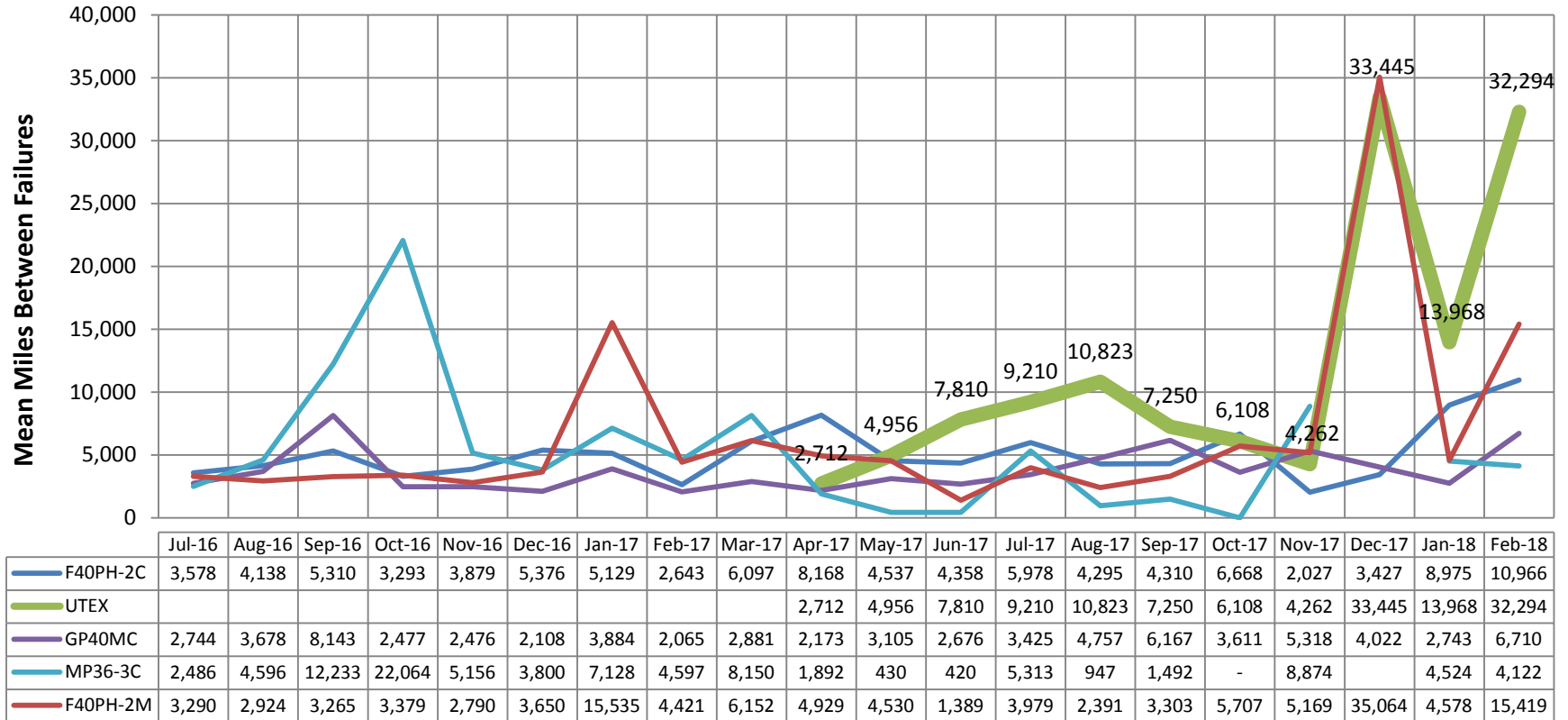
Target: 369 Coaches Available

Coach Availability
(last 12 weeks)



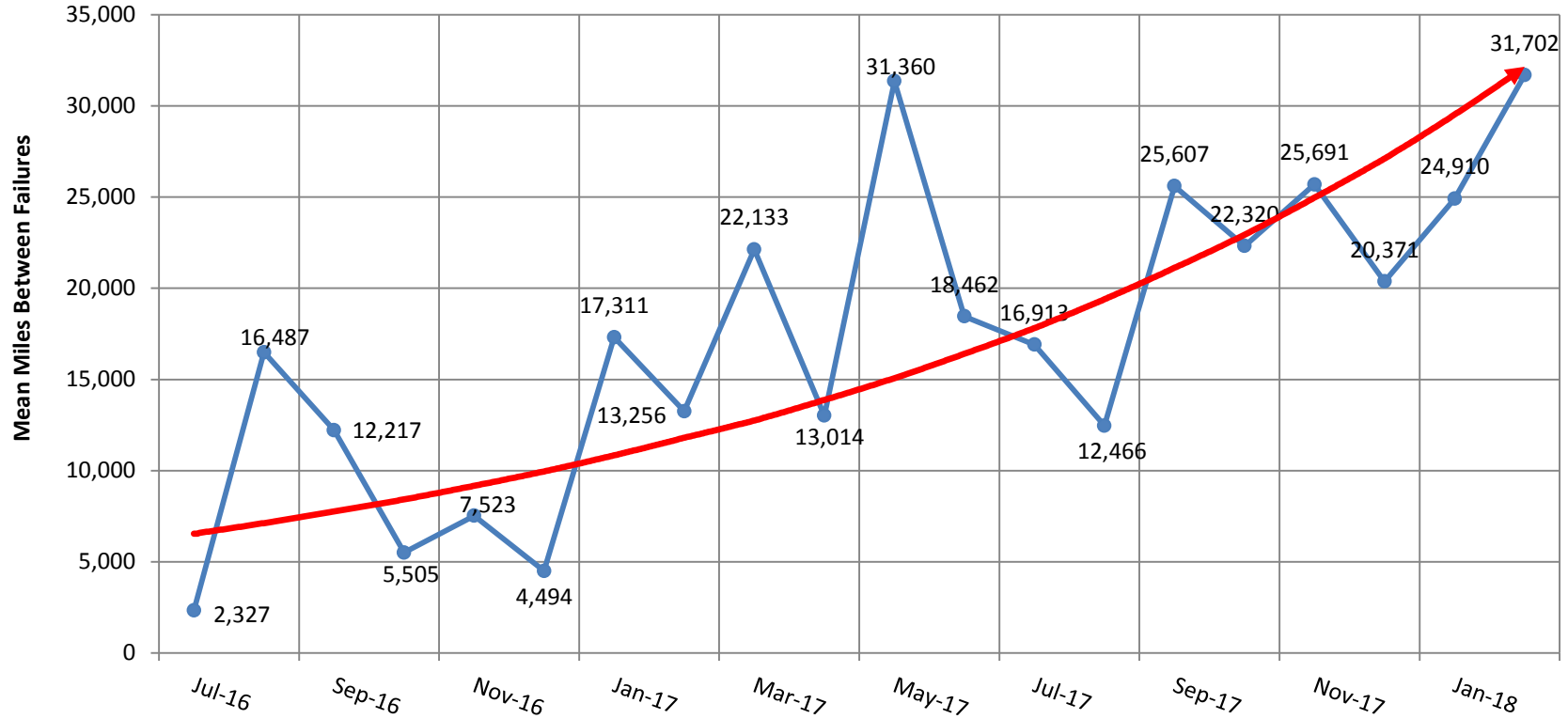


Legacy Locomotive Fleet Performance





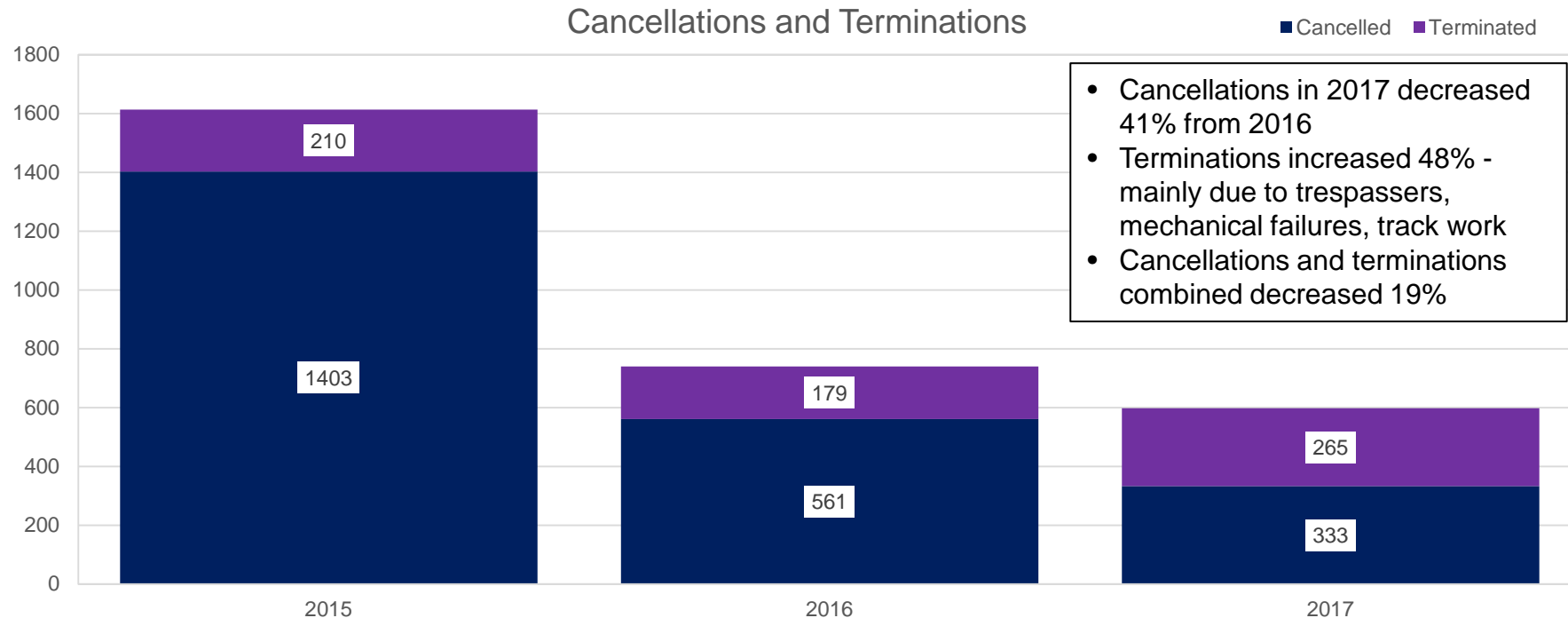
HSP-46 (MPI) Locomotive Fleet Performance





Cancellations and Terminations

2017 had 142 fewer cancellations and terminations than 2016, a 19% reduction



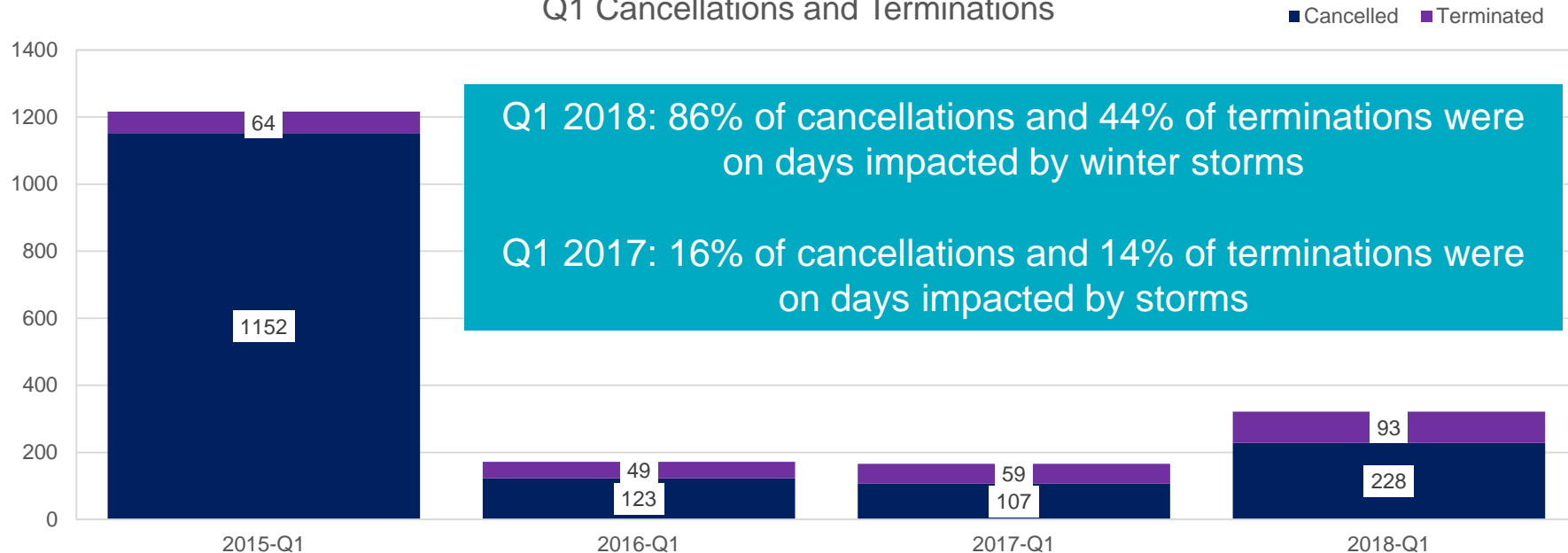
***cancellation** = train never started its trip; **termination** = train started but did not complete its trip



Cancellations and Terminations

Severe winter weather was the primary driver of terminations and cancellations in Q1 2018

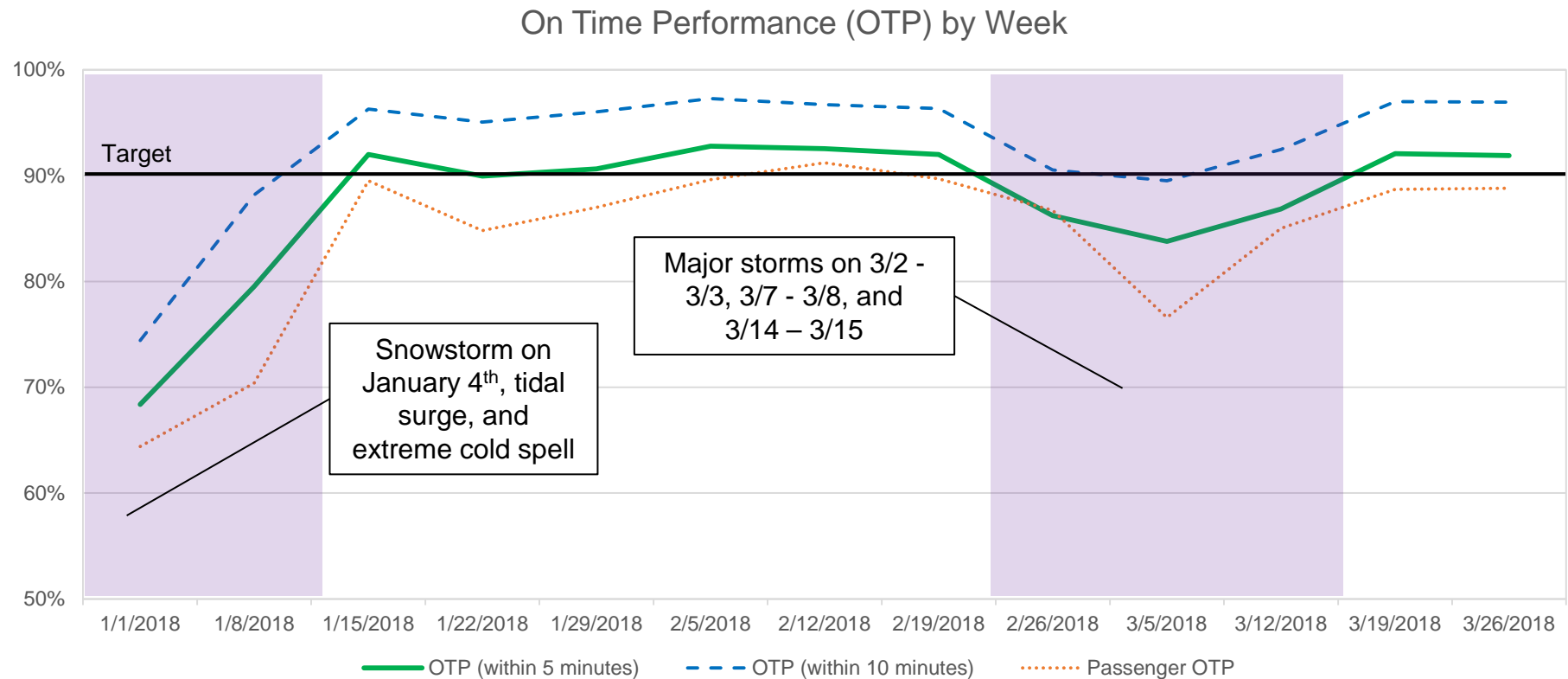
Q1 Cancellations and Terminations



***cancellation** = train never started its trip; **termination** = train started but did not complete its trip



On Time Performance





OTP Within 5 Minutes

	April 2017	May 2017	June 2017	July 2017	August 2017	September 2017	October 2017	November 2017	December 2017	January 2018	February 2018	March 2018	Trailing Year Average
Fairmount	97.6%	95.8%	97.3%	98.3%	97.3%	97.5%	98.0%	96.6%	97.9%	92.9%	96.8%	96.4%	96.8%
Fitchburg	88.1%	91.1%	85.7%	88.9%	89.7%	91.3%	79.8%	70.8%	84.6%	75.9%	91.7%	87.5%	85.4%
Franklin	88.7%	91.0%	88.7%	88.2%	86.6%	88.6%	82.5%	85.4%	87.3%	82.5%	91.8%	88.6%	87.4%
Greenbush	93.9%	94.6%	95.0%	97.4%	95.3%	95.6%	85.3%	95.2%	95.3%	90.7%	94.5%	85.7%	93.2%
Haverhill	91.9%	90.4%	80.6%	79.0%	88.8%	81.3%	74.7%	78.3%	87.0%	82.7%	88.9%	82.4%	83.9%
Kingston/Plymouth	95.0%	94.0%	92.4%	94.7%	95.1%	95.3%	84.2%	91.8%	95.0%	88.7%	93.8%	84.8%	92.0%
Lowell	94.6%	96.8%	94.8%	95.2%	94.5%	89.1%	88.2%	85.7%	89.9%	80.1%	91.4%	84.9%	90.4%
Middleboro	90.2%	93.0%	88.7%	92.4%	91.2%	90.8%	83.2%	88.9%	91.9%	91.3%	89.7%	85.6%	89.7%
Needham	92.7%	94.7%	91.6%	94.1%	92.3%	92.0%	90.0%	91.0%	91.4%	87.6%	95.3%	90.2%	91.9%
Newburyport	90.5%	94.1%	87.1%	92.5%	87.5%	89.1%	88.5%	89.3%	88.8%	76.1%	93.1%	85.8%	88.5%
Providence	92.2%	89.6%	86.4%	89.0%	89.3%	89.2%	86.6%	87.7%	88.9%	83.0%	92.2%	88.1%	88.4%
Rockport	91.4%	94.1%	89.1%	92.6%	89.1%	83.6%	86.6%	88.5%	87.5%	76.6%	92.4%	85.5%	88.0%
Stoughton	87.6%	87.8%	87.1%	91.0%	89.1%	89.8%	84.8%	85.9%	86.9%	83.0%	89.7%	86.5%	87.4%
Worcester	74.5%	79.3%	69.1%	80.2%	82.5%	74.5%	79.4%	89.5%	93.9%	86.7%	92.0%	89.6%	82.5%
Grand Total	90.3%	91.5%	87.4%	90.3%	90.2%	88.4%	85.1%	87.2%	90.4%	83.9%	92.4%	87.5%	88.7%



OTP Within 10 Minutes

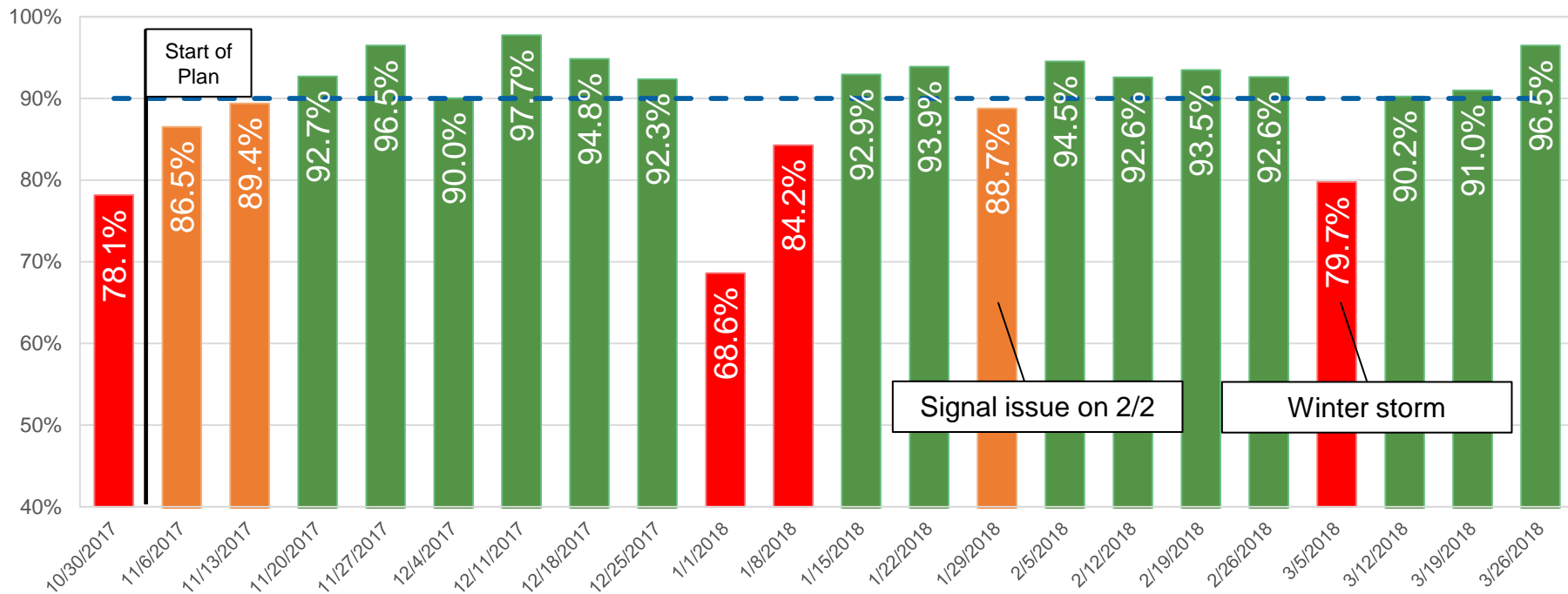
	April 2017	May 2017	June 2017	July 2017	August 2017	September 2017	October 2017	November 2017	December 2017	January 2018	February 2018	March 2018	Trailing Year Average
Fairmount	98.5%	98.2%	98.6%	98.9%	98.2%	99.0%	98.8%	98.6%	99.3%	95.1%	98.8%	98.4%	98.3%
Fitchburg	94.3%	96.9%	93.2%	94.3%	94.3%	96.4%	90.6%	85.7%	91.9%	84.1%	96.2%	93.1%	92.6%
Franklin	92.9%	96.2%	96.2%	93.9%	94.0%	95.5%	91.4%	92.4%	94.8%	89.6%	96.2%	94.4%	93.9%
Greenbush	97.2%	97.5%	97.1%	98.9%	97.6%	98.1%	95.4%	97.5%	97.6%	93.8%	97.3%	89.5%	96.4%
Haverhill	95.8%	96.0%	90.4%	90.4%	95.7%	90.0%	87.1%	88.4%	92.7%	89.1%	95.3%	89.8%	91.8%
Kingston/Plymouth	97.2%	97.6%	96.2%	97.4%	97.9%	98.8%	95.4%	96.5%	98.8%	92.5%	97.8%	89.3%	96.3%
Lowell	97.6%	99.0%	97.4%	98.7%	98.7%	97.5%	95.3%	95.4%	95.4%	90.0%	97.4%	92.1%	96.2%
Middleboro	94.4%	96.9%	95.0%	97.6%	96.8%	95.0%	96.3%	96.0%	95.4%	94.3%	95.3%	91.1%	95.3%
Needham	97.9%	98.2%	95.9%	97.2%	95.9%	96.6%	96.4%	94.6%	96.8%	93.5%	98.9%	96.2%	96.5%
Newburyport	95.1%	98.2%	93.6%	96.5%	95.5%	95.0%	95.0%	96.3%	96.2%	82.5%	97.3%	91.2%	94.3%
Providence	95.1%	94.0%	92.6%	94.0%	93.8%	95.1%	93.4%	94.5%	93.7%	89.4%	96.9%	92.9%	93.7%
Rockport	96.0%	97.2%	94.6%	96.6%	95.7%	92.4%	92.6%	94.4%	94.3%	81.5%	96.1%	90.7%	93.4%
Stoughton	95.2%	94.8%	94.4%	96.0%	95.8%	95.3%	92.9%	95.9%	94.3%	90.9%	94.9%	94.0%	94.5%
Worcester	89.2%	88.1%	84.4%	90.4%	91.3%	87.7%	90.7%	95.3%	97.3%	91.8%	96.1%	93.9%	91.3%
Grand Total	95.3%	96.1%	93.9%	95.4%	95.6%	94.9%	93.5%	94.3%	95.5%	89.8%	96.8%	92.8%	94.4%



Worcester Line Plan

Line performance is showing sustainable results

Worcester Line OTP (within 5 minutes)

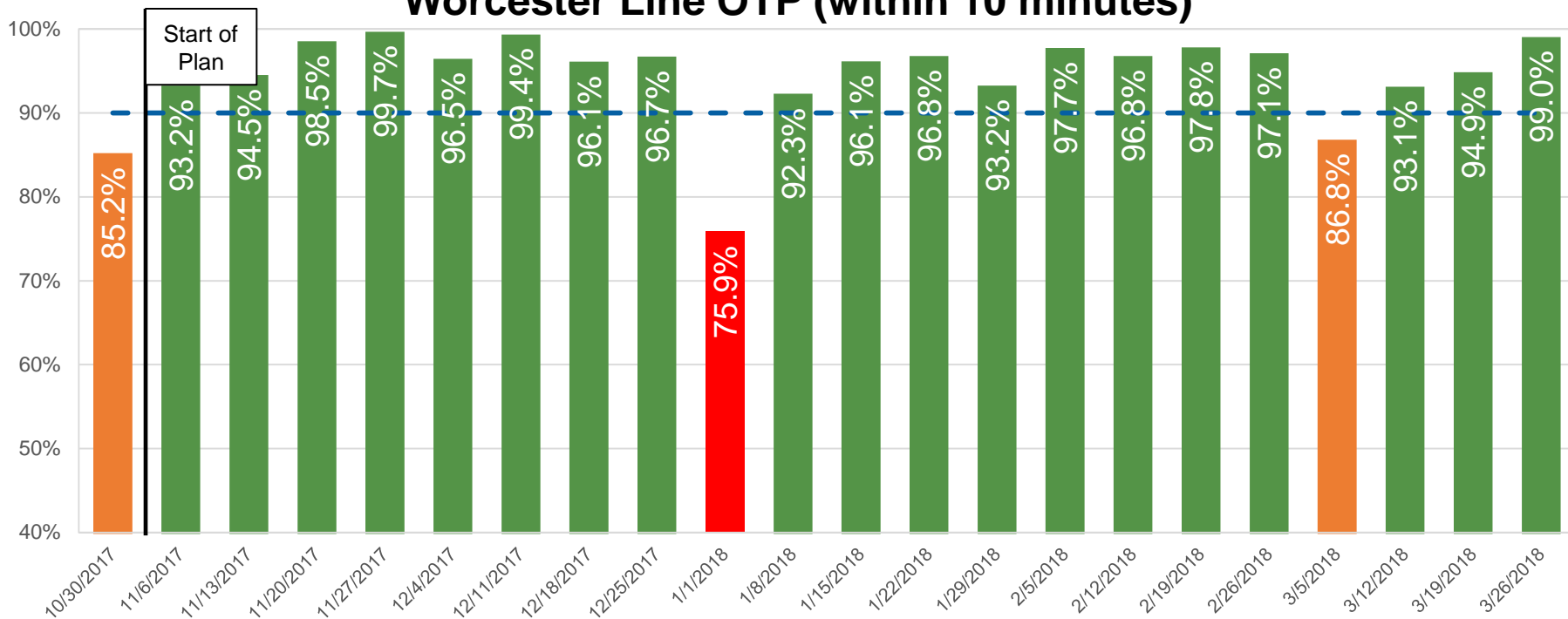




Worcester Line Plan

Line performance is showing sustainable results

Worcester Line OTP (within 10 minutes)





Worcester Line: Results

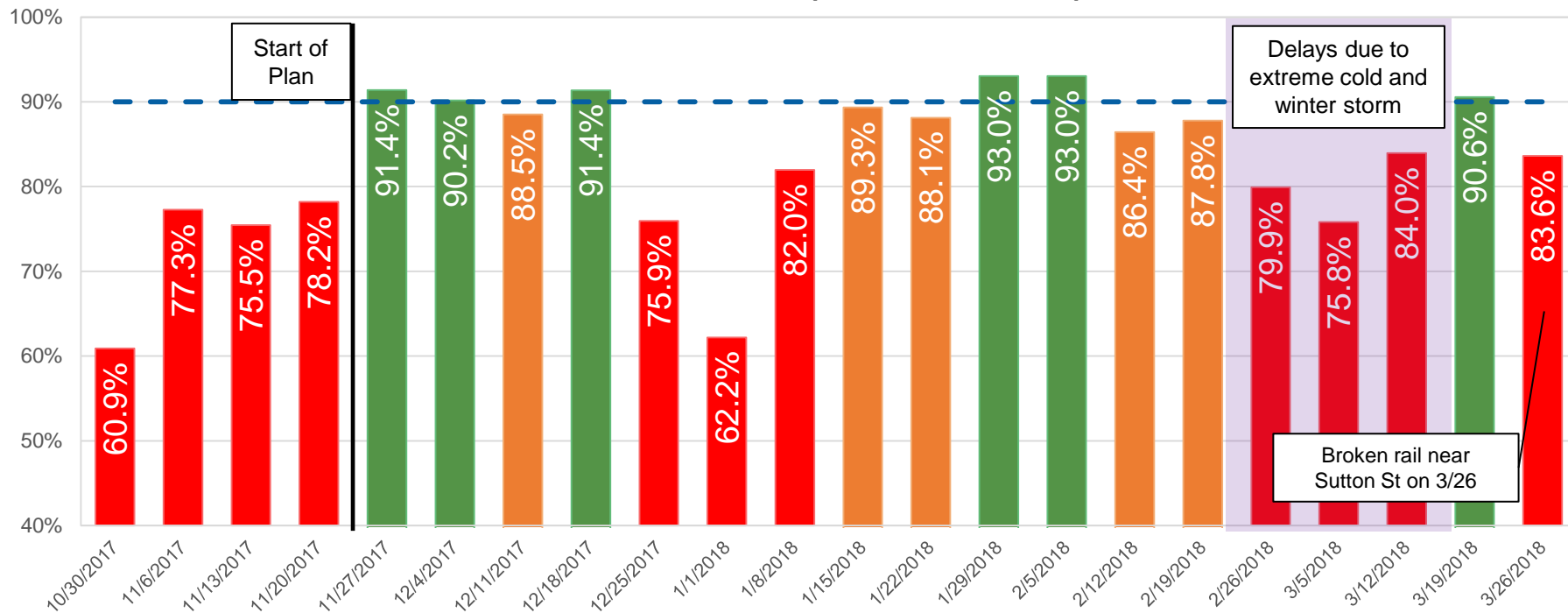
December 2017, at 94% OTP, was best month since December 2014

- Three weeks have been above 95% OTP since the start of the plan, including 96.5% week of March 26th and the week of December 11th's 98% OTP—the best weekly performance since the week of January 1, 2015.
- Since the start of the plan, have delivered 12 100% weekdays, and 43 weekdays where 100% of trains arrived within 10 minutes of schedule
- 100% AM Peak OTP was achieved 60 times since the start of the plan—57% of weekdays are achieving a perfect AM Peak service
- 100% PM Peak OTP has been achieved 58 times since the start of the plan
- When excluding the impact of the winter storms, only one week has been below 90% since week starting November 20th



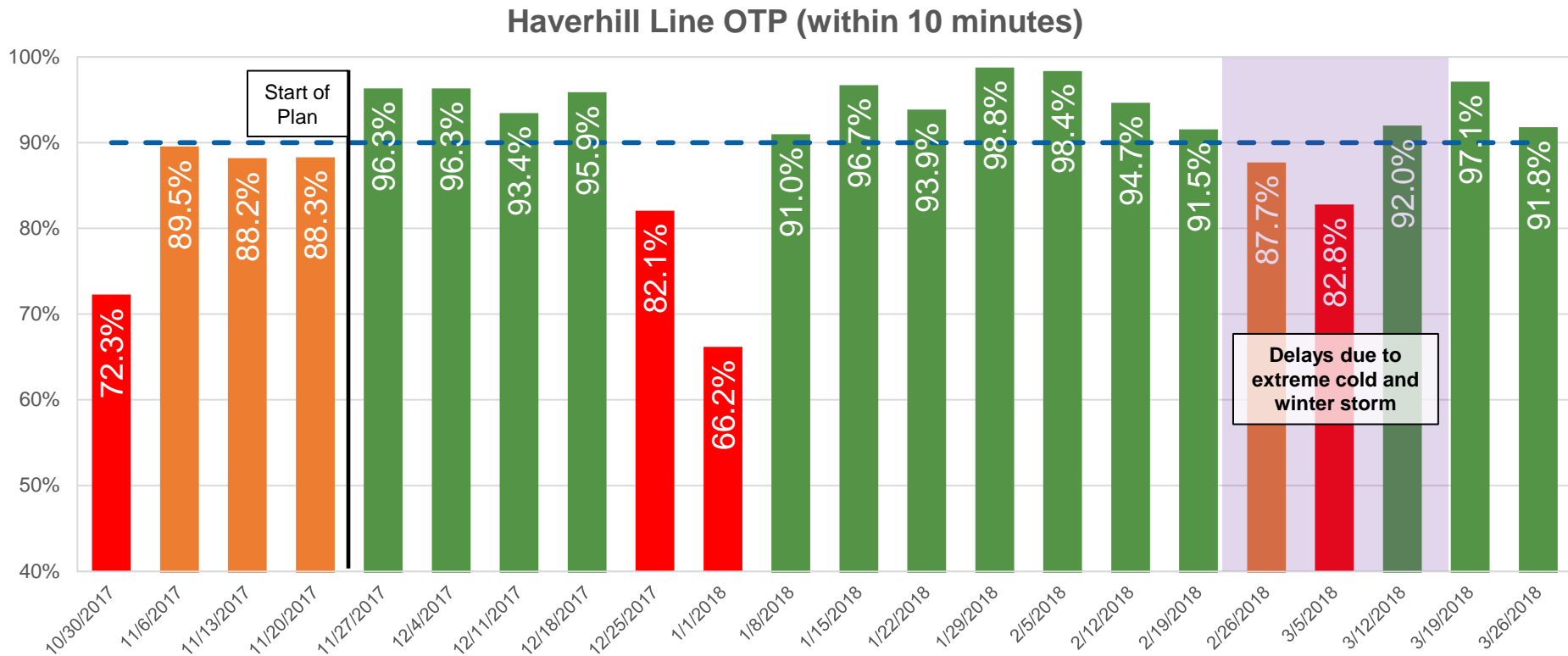
Haverhill Line Plan Initial Results

Haverhill Line OTP (within 5 minutes)





Haverhill Line Plan Initial Results





Haverhill Line: Way Ahead

Additional Improvements to the Haverhill Line are Underway

- ⦿ Finalization of work on Merrimack River Bridge to eliminate single track over bridge
- ⦿ Better markings at Sutton St and Andover St crossings (crossings with the most failures)
- ⦿ Improvement of communication with Pan Am to improve coordination with freight service
- ⦿ Evaluation of schedule for minor tweaks to improve performance
- ⦿ Evaluation of areas that could potentially handle increased speeds