



# FY 2019 2<sup>nd</sup> Quarter Rail Operations Performance

Board of Directors  
March 7<sup>th</sup>, 2019  
Agenda Item #12 (a)

# Presentation Outline

- **On-Time Performance**
- **Delays**
  - **Major causes**
  - **Significance**
  - **Correlation between mechanical delays and Maintenance of Equipment (M of E)**
- **Fare Enforcement**
- **Ridership**

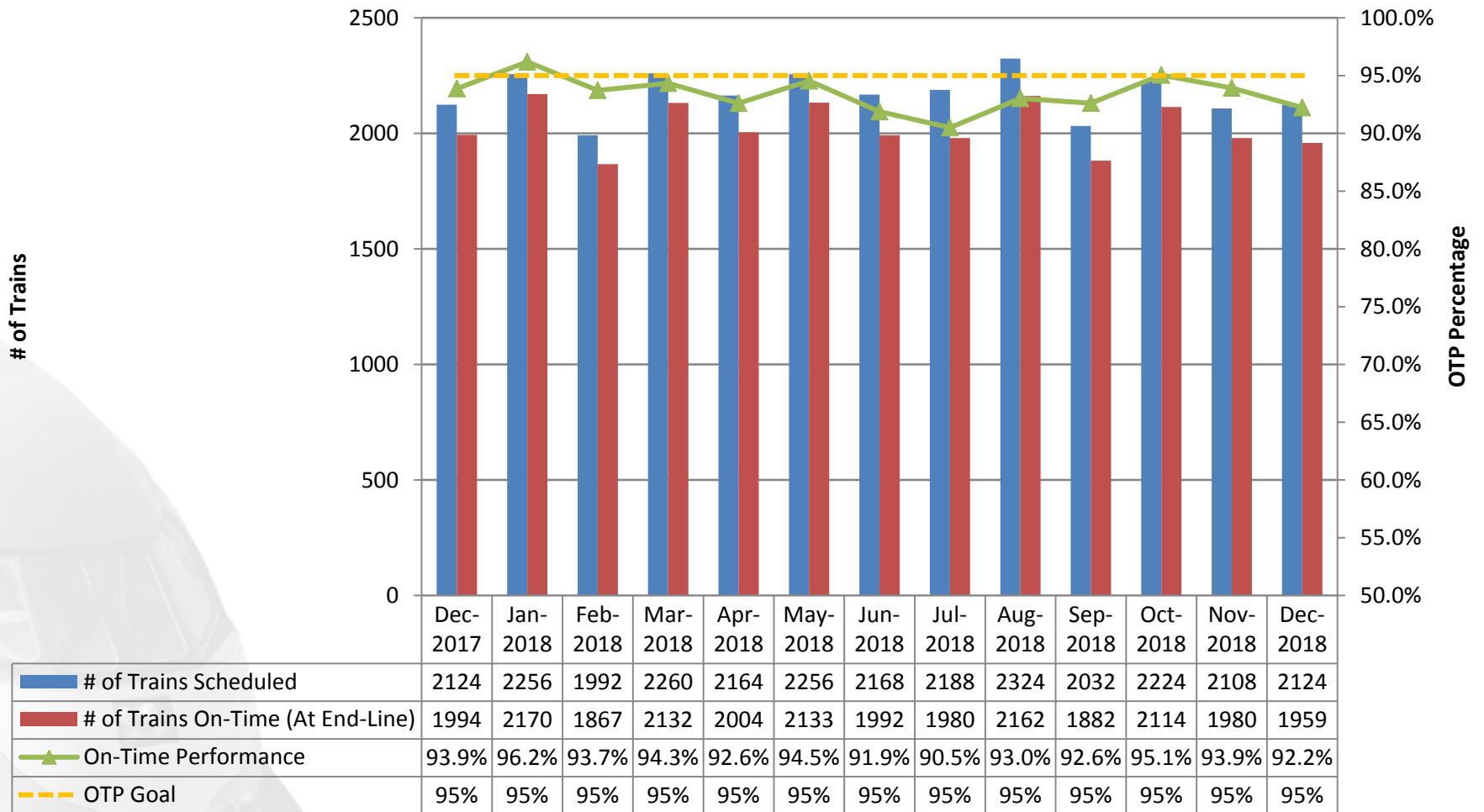
# On-Time Performance (OTP)

- **On-Time = train arrives no later than 5' 59" from the scheduled arrival time at end-line locations (SF, SJ, Tamien, and Gilroy)**
- **Goal: 95% of trains on-time at end-line locations**
- **OTP Tracked daily and monthly**

# On-Time Performance (OTP)

- **Major factors affecting train OTP:**
  - **Major incidents (fatality, vehicle strike/on track, trespassers, wayside fires, etc.)**
  - **Condition of infrastructure (track, civil, systems)**
  - **Condition of equipment (locomotives and coaches)**
  - **Capital projects**
  - **Passengers**

# Monthly OTP Summary



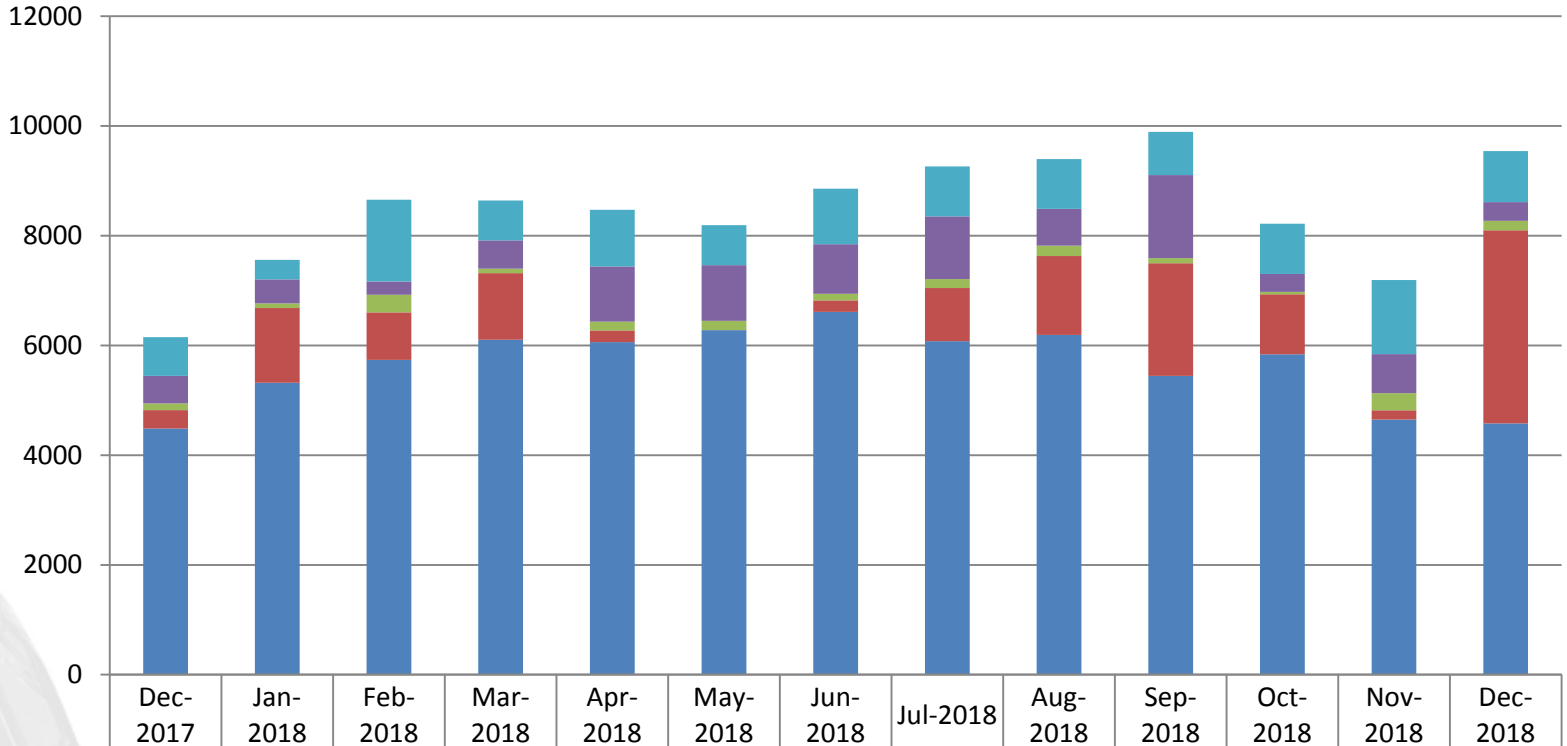
# 5 Main Categories of Delays

- **On-Board/Passenger**
- **Major Incidents**
- **Maintenance of Infrastructure**
- **Maintenance of Equipment (M of E)**
- **Capital Projects**

# 5 Main Categories of Delays

Category/Type	Descriptions
<b>On-Board/Passenger</b>	<ul style="list-style-type: none"> <li>• Bicycles</li> <li>• PNAs</li> <li>• Large crowds, slow loading, and luggage</li> </ul>
<b>Major Incidents</b>	<ul style="list-style-type: none"> <li>• Fatality</li> <li>• Trespasser Strike</li> <li>• Vehicle Strike</li> <li>• Vehicle on Track</li> </ul>
<b>Maintenance of Infrastructure</b>	<ul style="list-style-type: none"> <li>• Crossings and signals (C &amp; S)</li> <li>• Track</li> </ul>
<b>Maintenance of Equipment (M of E)</b>	<ul style="list-style-type: none"> <li>• Door Failure</li> <li>• Engine Failure</li> <li>• UDE</li> <li>• Wheel Chair Lift</li> <li>• Air Issue</li> <li>• HEP</li> </ul>
<b>Capital Projects</b>	<ul style="list-style-type: none"> <li>• Single track</li> <li>• Slow orders</li> </ul>

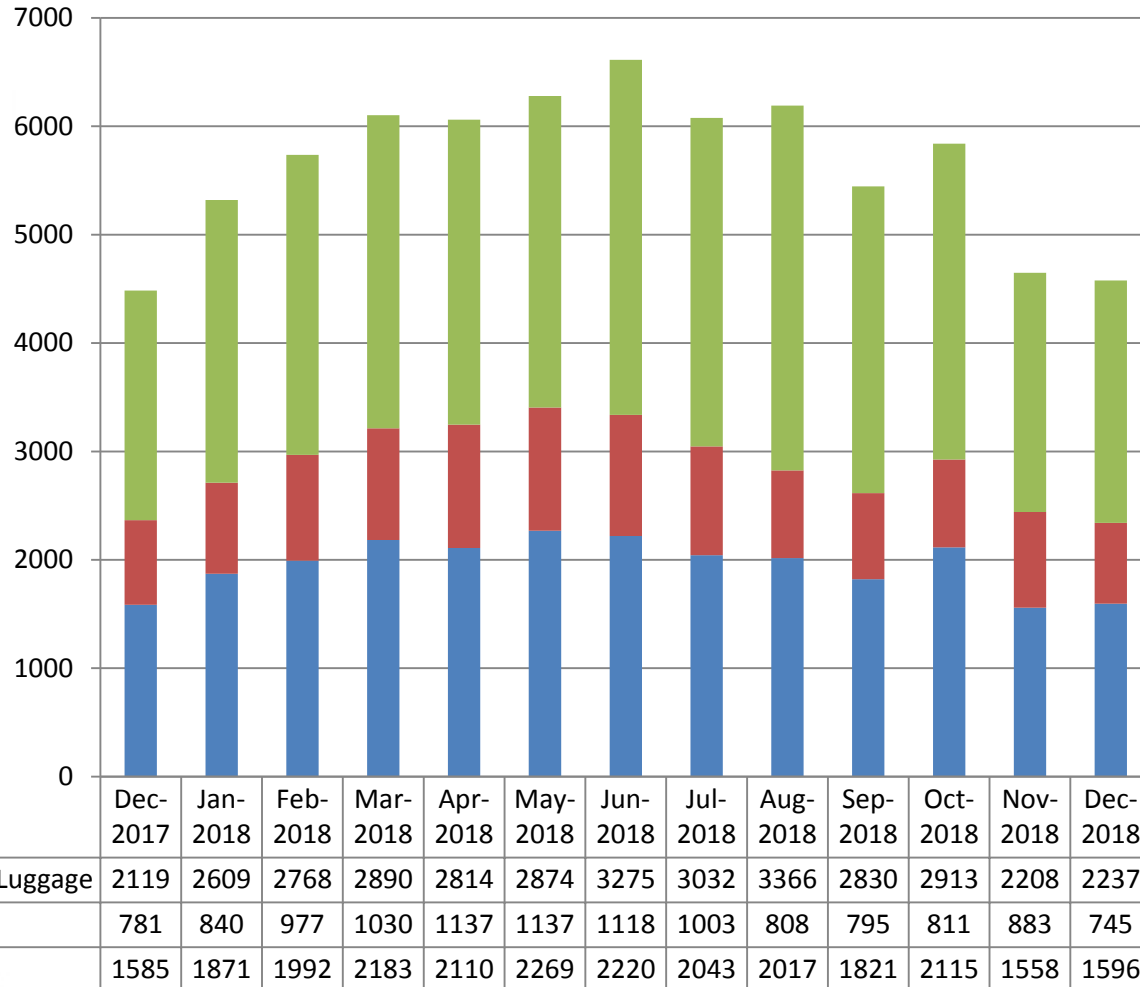
# Delay Minutes – Monthly



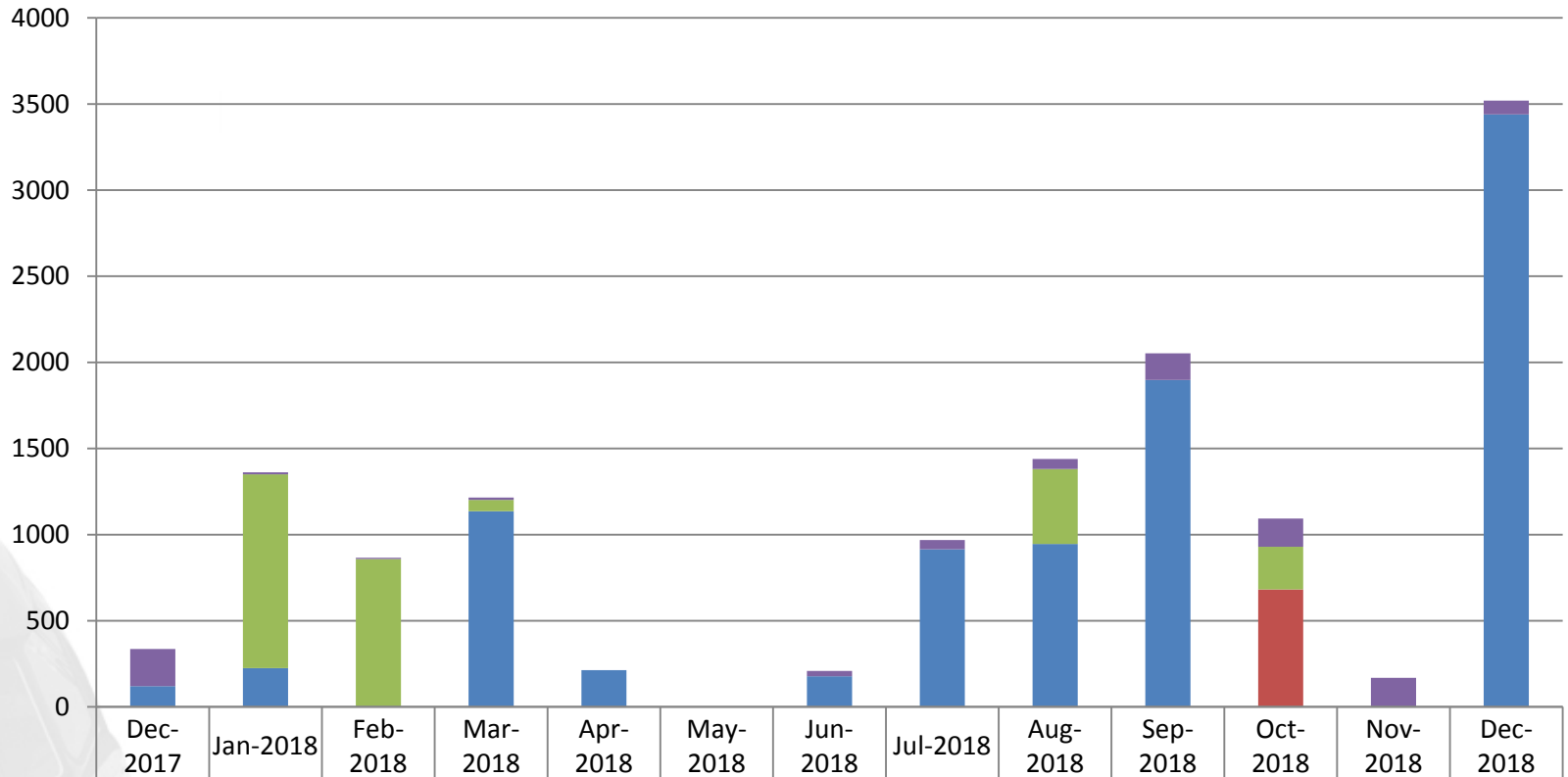
Capital Project	707	357	1491	726	1030	729	1010	908	909	788	914	1349	929
M of E	499	439	240	515	1007	1014	905	1144	669	1514	329	711	343
Infrastructure	124	83	322	81	160	170	119	163	190	92	43	313	172
Major Incidents	336	1362	866	1215	213	0	209	969	1439	2053	1093	169	3520
On-Board/Passenger	4485	5320	5737	6103	6061	6280	6613	6078	6191	5446	5839	4649	4578



# On-Board Passenger Delay Minutes

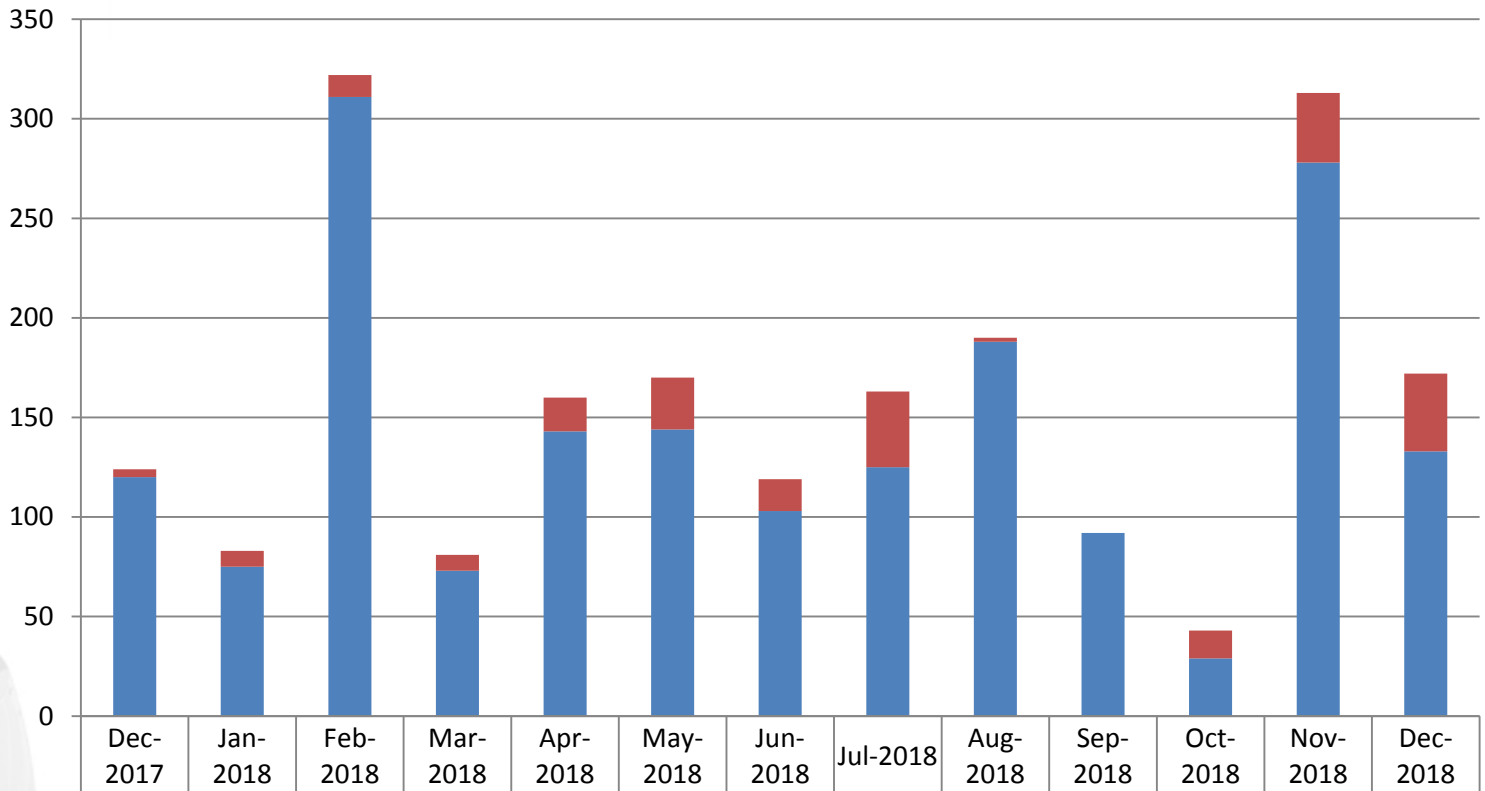


# Major Incident Delay Minutes



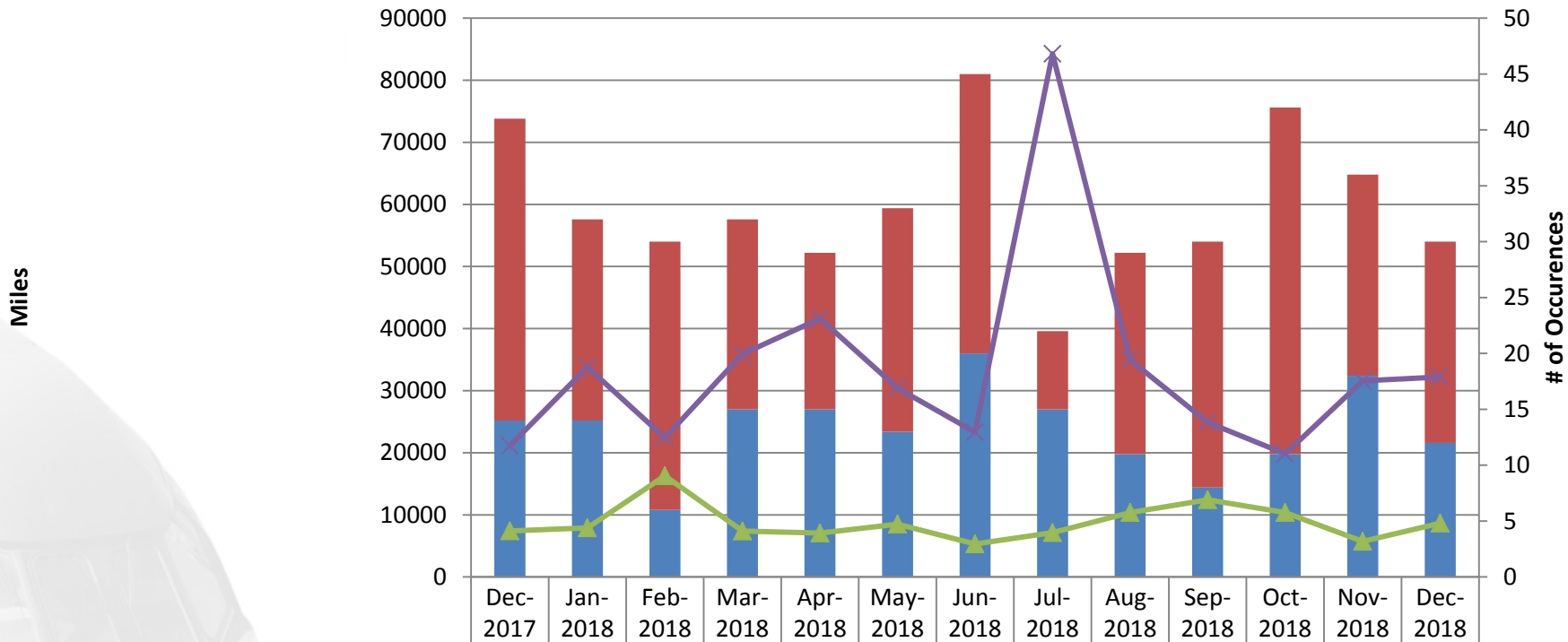
	Dec-2017	Jan-2018	Feb-2018	Mar-2018	Apr-2018	May-2018	Jun-2018	Jul-2018	Aug-2018	Sep-2018	Oct-2018	Nov-2018	Dec-2018
■ Vehicle on Track	215	12	7	13	0	0	31	54	58	155	163	167	80
■ Vehicle Strike	0	1125	859	66	0	0	0	0	435	0	248	0	0
■ Trespasser Strike	0	0	0	0	0	0	0	0	0	0	682	2	0
■ Fatality	121	225	0	1136	213	0	178	915	946	1898	0	0	3440

# Maintenance of Infrastructure Delay Minutes



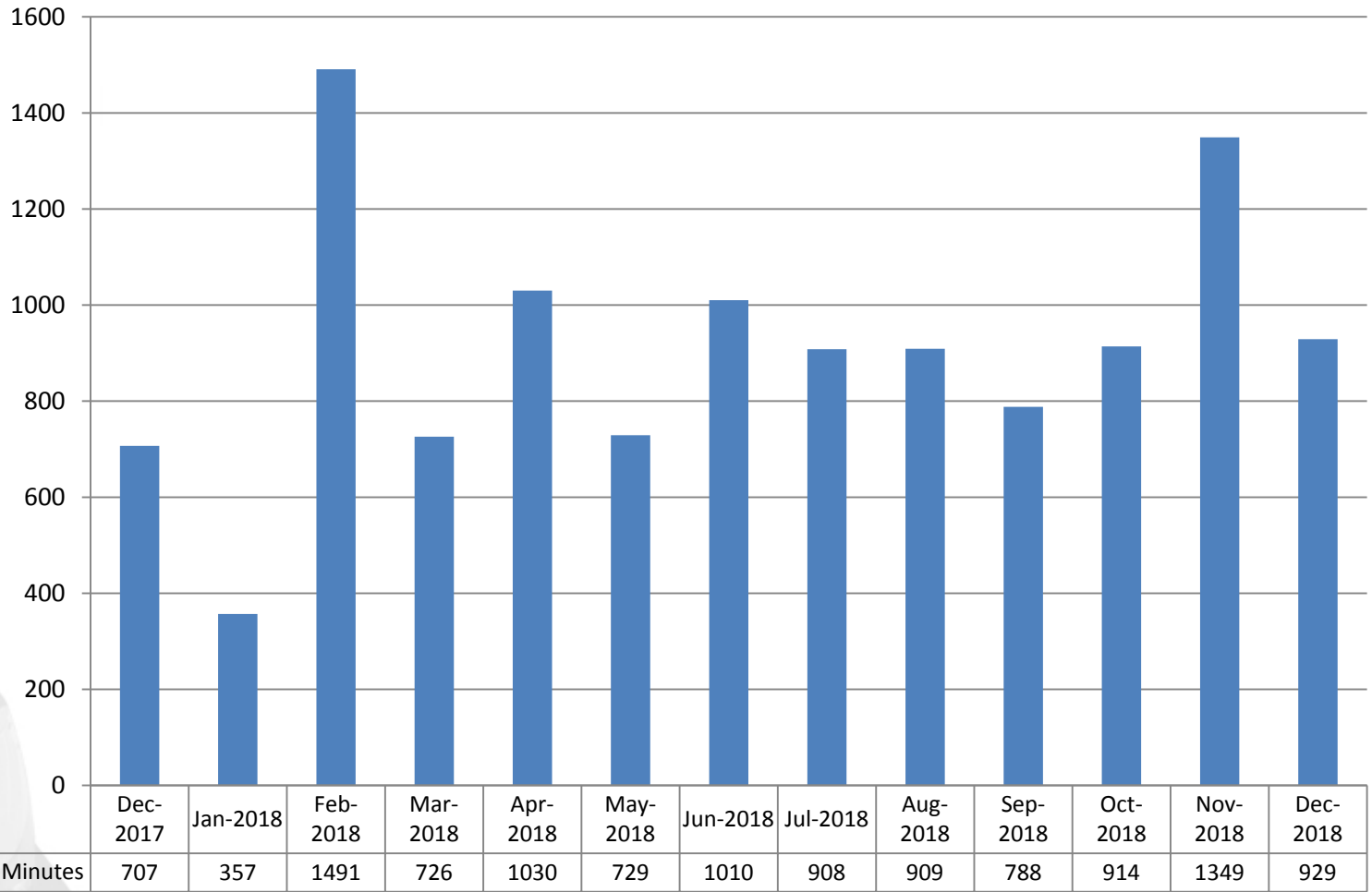
■ Track	4	8	11	8	17	26	16	38	2	0	14	35	39
■ Crossings & Signals (C&S)	120	75	311	73	143	144	103	125	188	92	29	278	133

# M of E – Mean Distance Between Failure (MDBF)



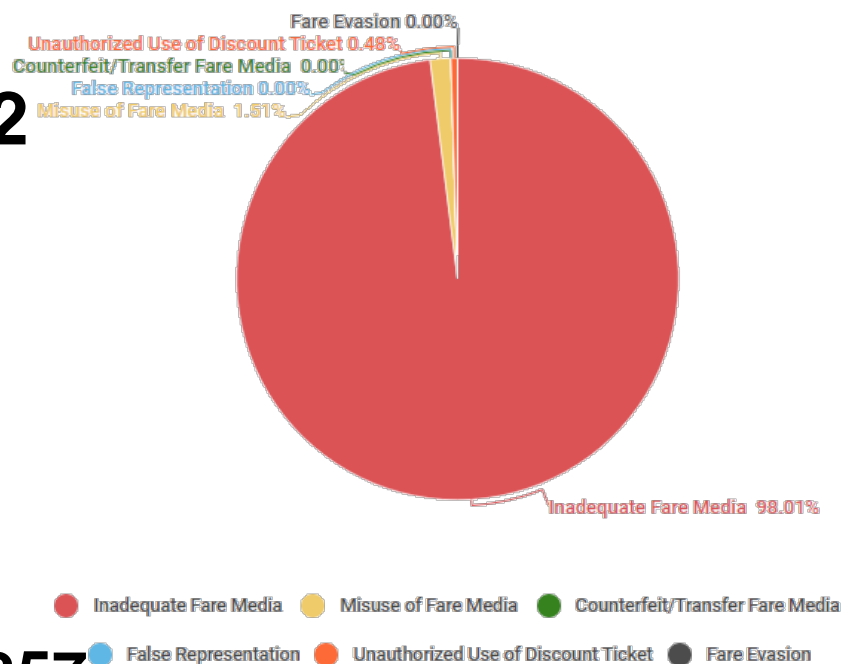
# of Service Failure (Coaches & Cabs)	27	18	24	17	14	20	25	7	18	22	31	18	18
# of Service Failure (Locomotives)	14	14	6	15	15	13	20	15	11	8	11	18	12
MDBF - Locomotives	7427	7903	16288	7392	7070	8508	5319	7138	10375	12420	10373	5740	8667
MDBF - Coaches and Cabs	21131	33792	22412	35908	41610	30403	23325	84261	34953	24913	19829	31578	32199

# Capital Projects Delay Minutes

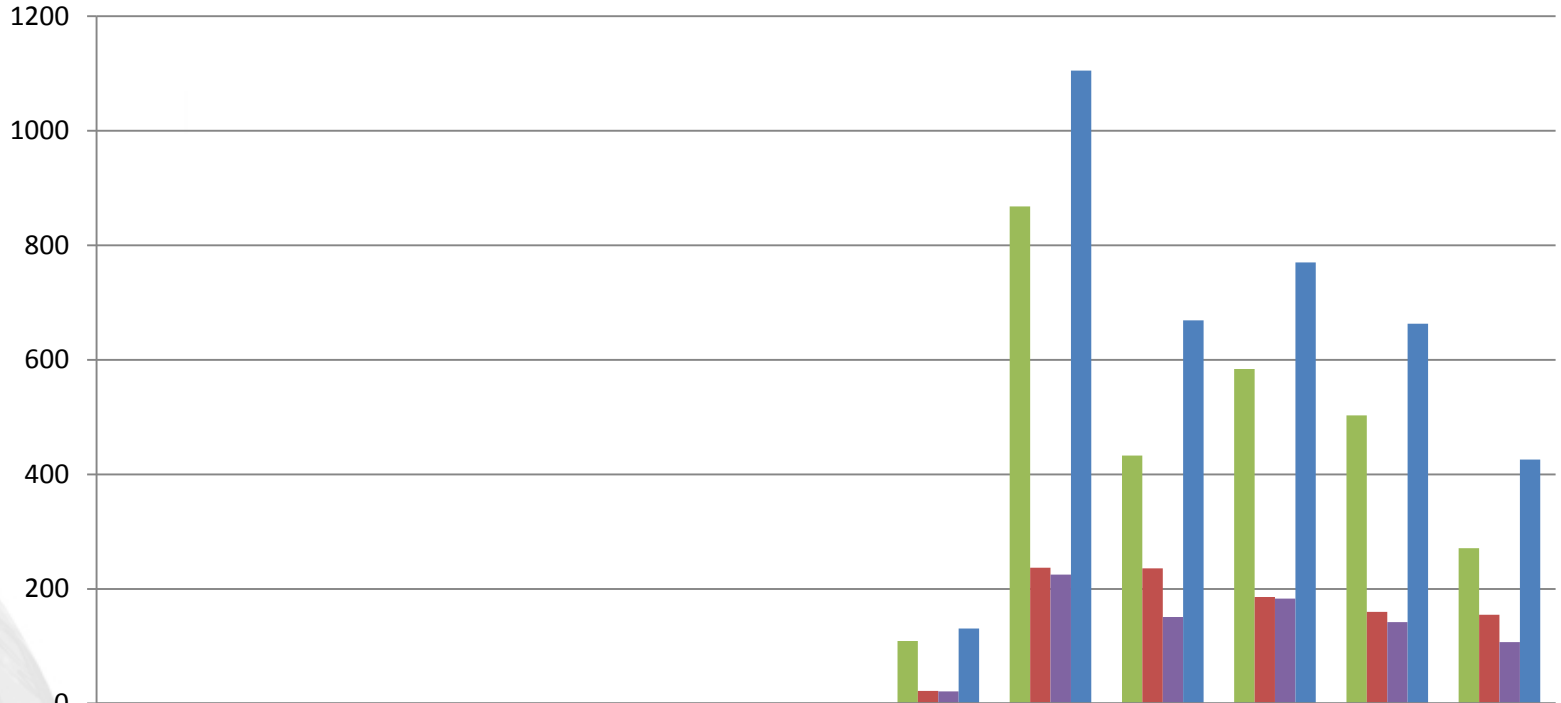


# Fare Enforcement

- **Total Notice of Violations for Fare Evasion Given for Q2 FY18/19: 1859**
  - Closed: 1358
  - Open: 501
  - Delinquent: 432
  - Total Appeals: 599
    - Appeals granted: 357

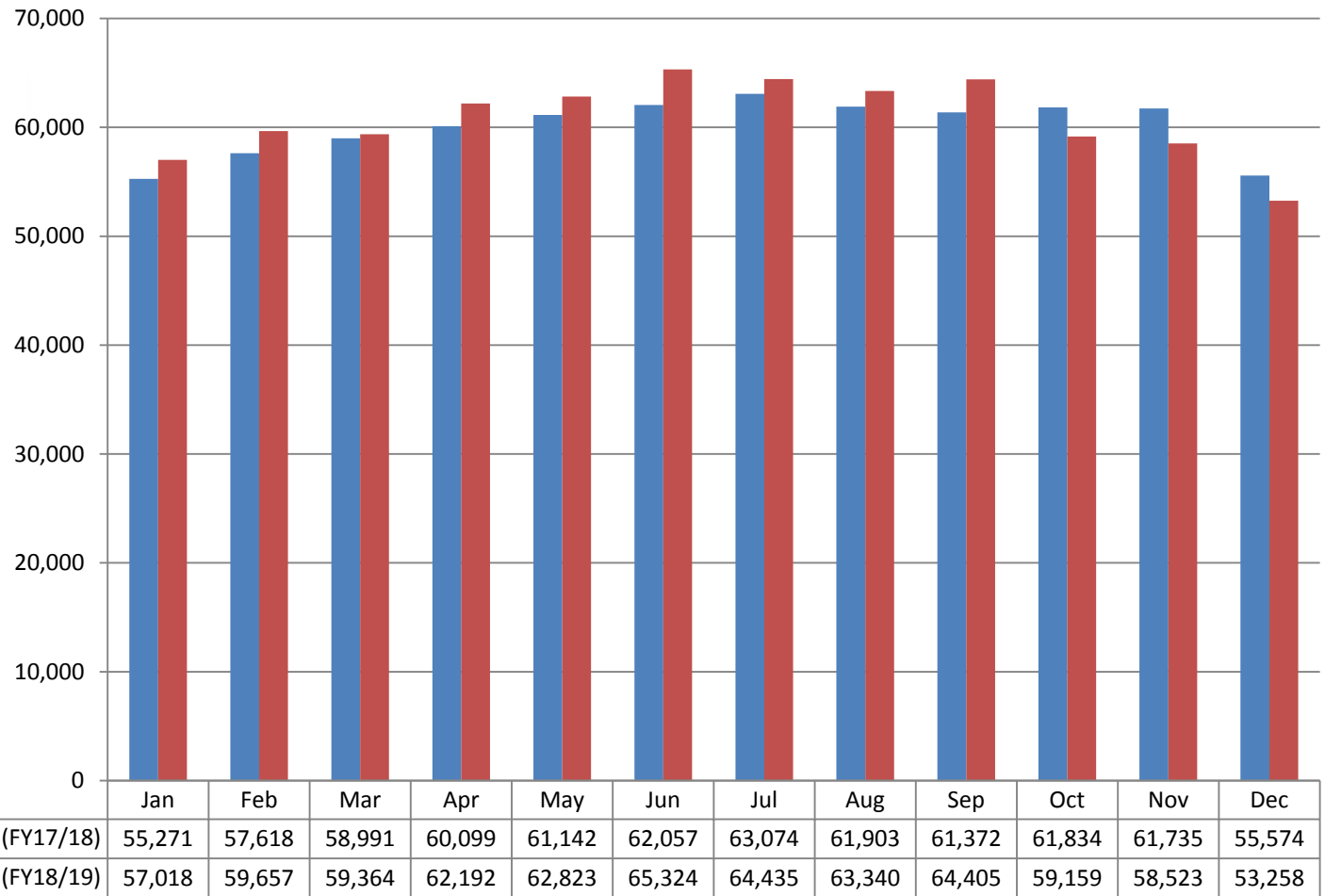


# Fare Enforcement



	Dec-2017	Jan-2018	Feb-2018	Mar-2018	Apr-2018	May-2018	Jun-2018	Jul-2018	Aug-2018	Sep-2018	Oct-2018	Nov-2018	Dec-2018
■ Closed	0	0	0	0	0	0	0	109	868	433	584	503	271
■ Open	0	0	0	0	0	0	0	22	237	236	186	160	155
■ Deliquent	0	0	0	0	0	0	0	21	225	151	183	142	107
■ # of Citations Issued	0	0	0	0	0	0	0	131	1105	669	770	663	426

# Average Weekday Ridership





# Questions