

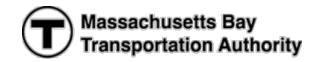
# MBTA State of the Service:

**Red Line Heavy Rail** 

January 25, 2015



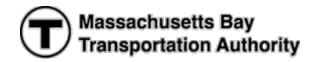
# **Key Facts: Red Line**





- Over 280,000 trips each weekday—the MBTA's busiest line, and about 22% of all MBTA ridership
- Asset value: \$2.2b
- Overall SGR rating: 2.27
- SGR Backlog: \$1.5b
- 22 stations
- Right of Way
  - 54 track miles (yard + revenue)
  - 165 switches, 16 signal bungalows
  - 64 bridges (31 transit, 22 road, 11 pedestrian)
  - 9 miles of tunnel section
- 218 Red Line vehicles
  - 168 for peak service
  - 1.1 million miles per month

# **Key Facts: Red Line**





#### Core frequencies:

Peak: every 4-5 minutes

Off-peak: every 6-8 minutes

#### Staff:

Direct: 447

- Indirect: 813

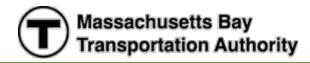
#### Parking

- 10 locations
- 8,600 spaces
- \$14 m annual income

#### Concessions / Leases

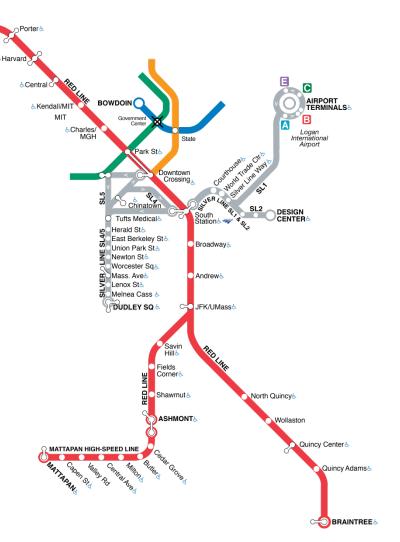
- 35+ active
- \$1.1 m annual income

# **Key Connections: Red Line**



#### Direct connections to:

- •97 bus routes
  - •9 key bus routes
  - •5 Silver Line
- Orange Line
- •Green Line
- Silver line
- South side commuter rail
- Fitchburg Line at Porter Square
- Mattapan Line
- Harvard underground bus way
- Rt. 128 Business Council Shuttles
- Brockton Area Transit
- EZ Ride Cambridge



Financial District

Seaport

Major tourist destinations

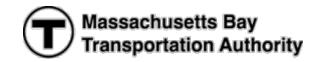
Major universities

Logan Airport

Kendall Square

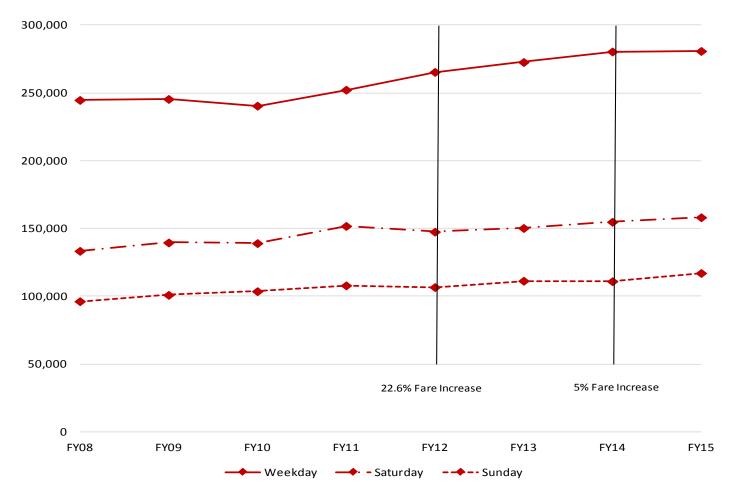
Mass General Hospital

# **Ridership Trends: Red Line**

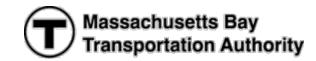


Current trend is overall growth, especially in off-peak times.

Average growth: Weekdays 2.0% Saturdays 2.5% Sundays 2.8%



# Ridership Volume: Red Line

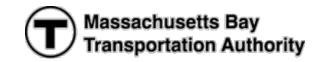


Station	Station Entries (FY15)	Line	
South Station	25,138	Red / Silver	
Park Street	22,951	Red / Green	
Downtown Crossing	21,875	Red / Orange	
Harvard	21,336	Red	
State	16,714	Orange / Blue	
Back Bay	16,663	Orange	
North Station	16,262	Orange / Green	
Kendall	16,202	Red	
Central	15,914	Red	
Forest Hills	14,248	Orange	



6 of top 10 weekday rapid transit stations are along Red Line

# **Ridership Growth: Red Line**

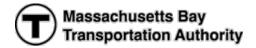


Station	Growth in Station Entries FY08-FY15	% Growth FY08-FY15	Line
State	4,678	39%	Orange / Blue
Ashmont	4,442	93%	Red
Park Street	4,041	21%	Red / Green
Kendall	3,421	27%	Red
South Station	3,276	15%	Red / Silver
Ruggles	2,945	40%	Orange
Haymarket	2,528	24%	Orange / Green
Broadway	2,479	63%	Red
Central	2,347	17%	Red
Assembly	1,864	n/a (new)	Orange

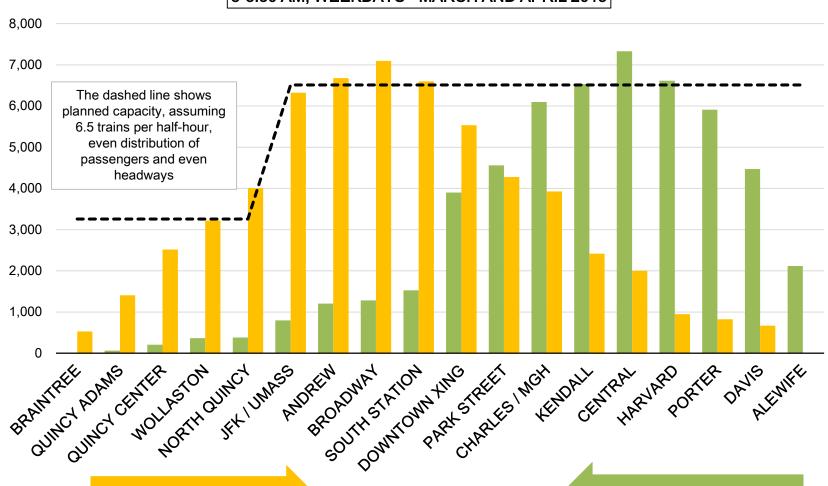


6 of top 10 highest growth weekday rapid transit stations are along Red Line

# **Usage vs. Planned Capacity**



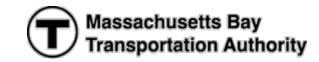


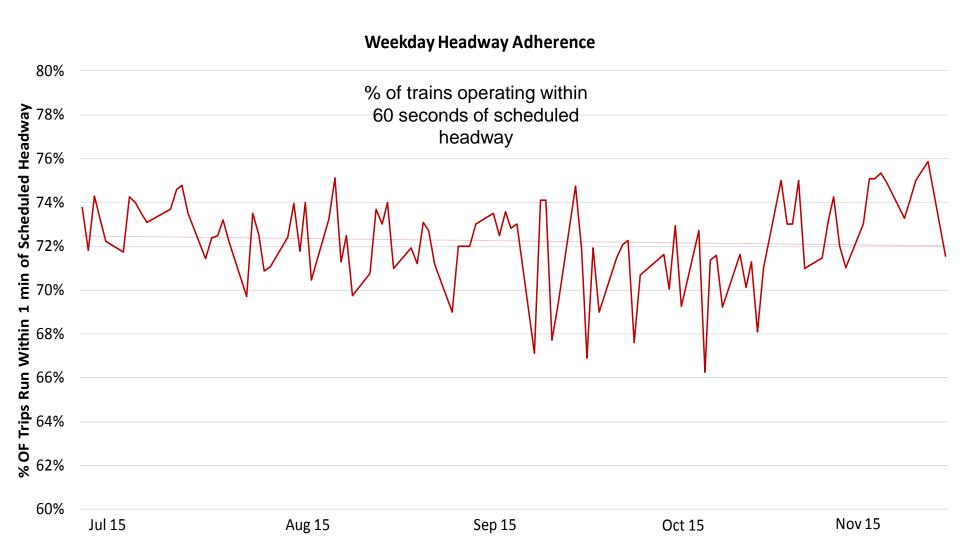


NORTHBOUND PASSENGER VOLUME

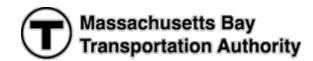
SOUTHBOUND PASSENGER VOLUME

## **Performance: Red Line**

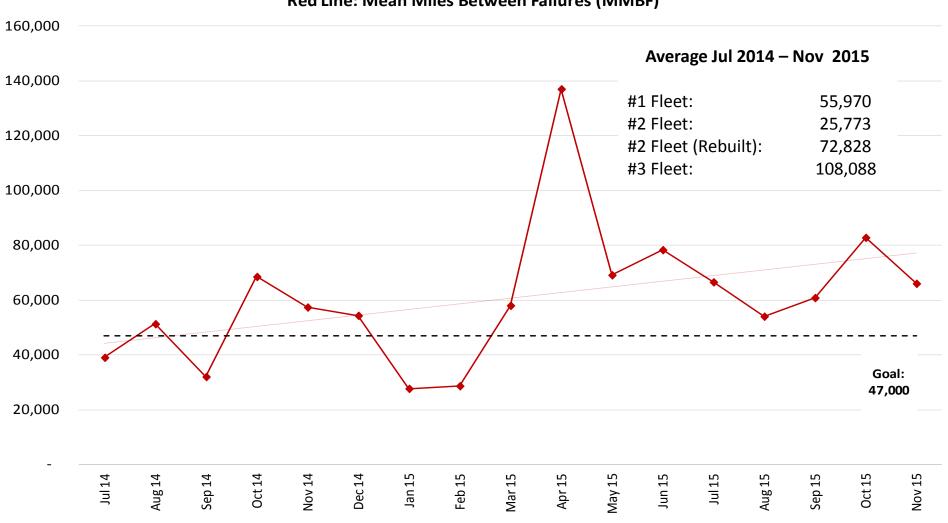




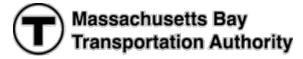
### Fleet Performance: Red Line

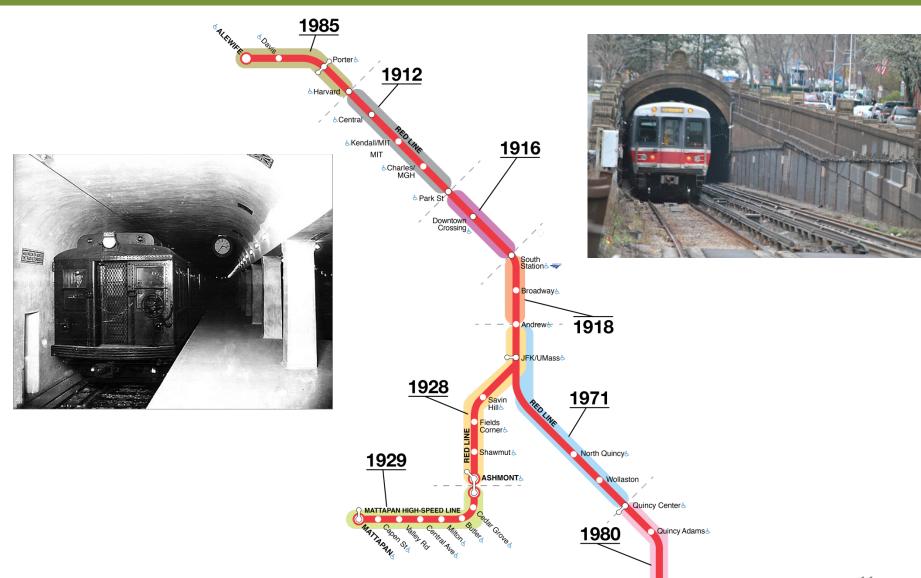






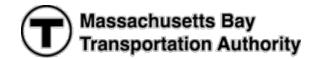
#### **Build Dates: Red Line**

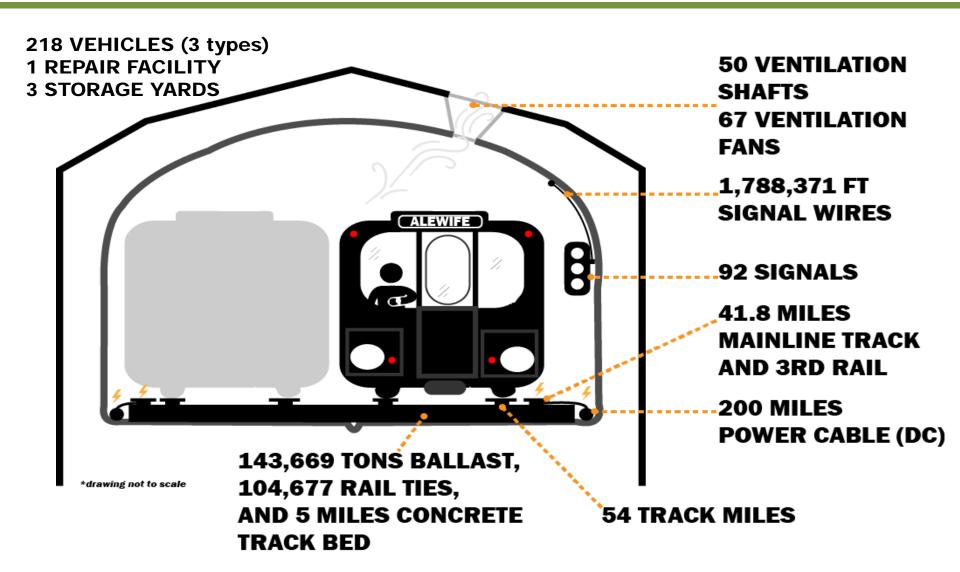




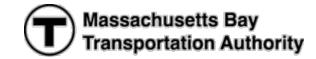
BRAINTREE

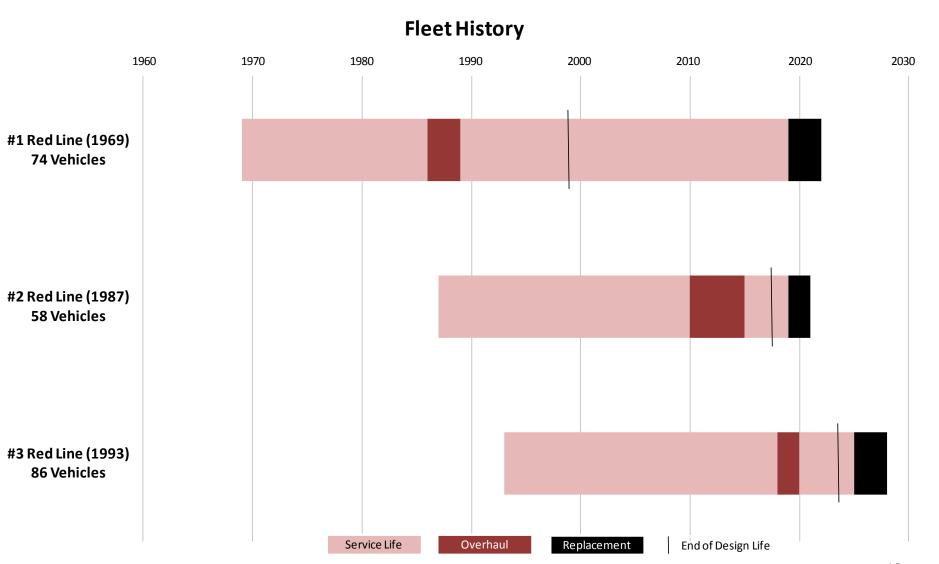
#### **Assets Overview: Red Line**



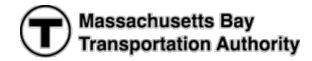


#### Fleet: Red Line





## **Challenges: Red Line**



- SGR Backlog
  - Vehicles
  - Signals, Power, Track
  - Facilities
- Passenger Boarding / Alighting Dwell Time
- System Bottlenecks
  - Alewife
  - Columbia Junction
  - Park Street
- Improvements / Maintenance
  - Track access points
  - Side tracks
  - Equipment Storage

