

WARREN STREET

Bus Service Improvements

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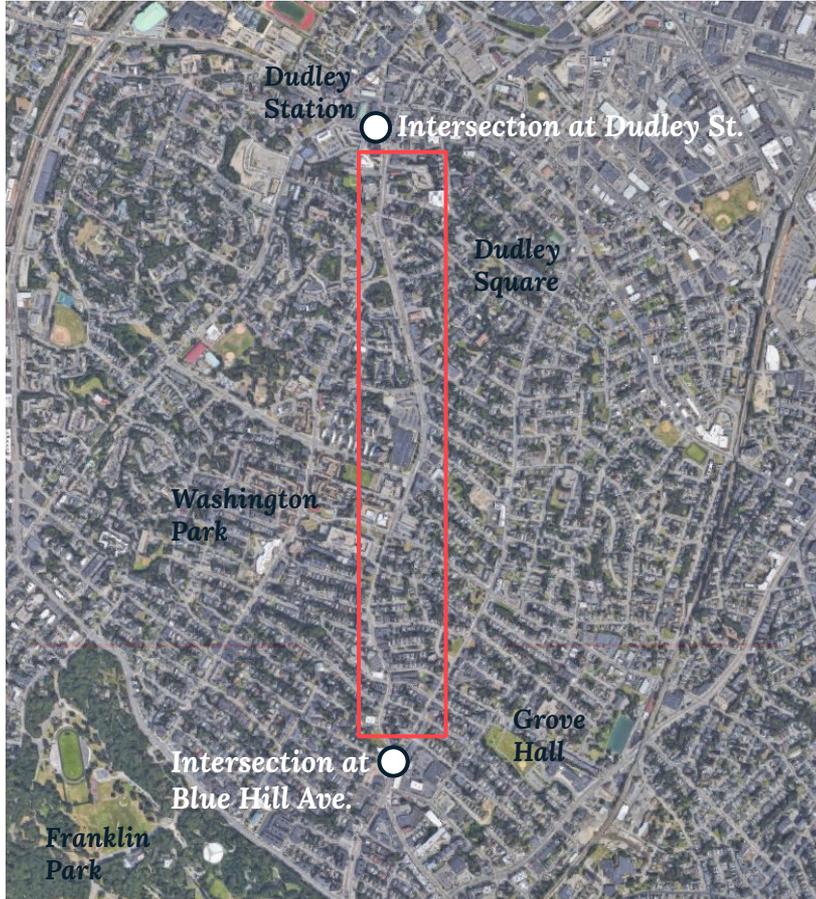




AN INTRODUCTION TO WARREN

Familiarity is Key

ORIENTATION



Extent

- South of Dudley Street and Northwest of Blue Hill Avenue
-

Neighborhood Artery

- Warren Street runs through the heart of Roxbury, connecting the commercial corridor of Blue Hill Ave with the commerce, service, and transit hub of Dudley Square.

VARIED FUNCTIONS

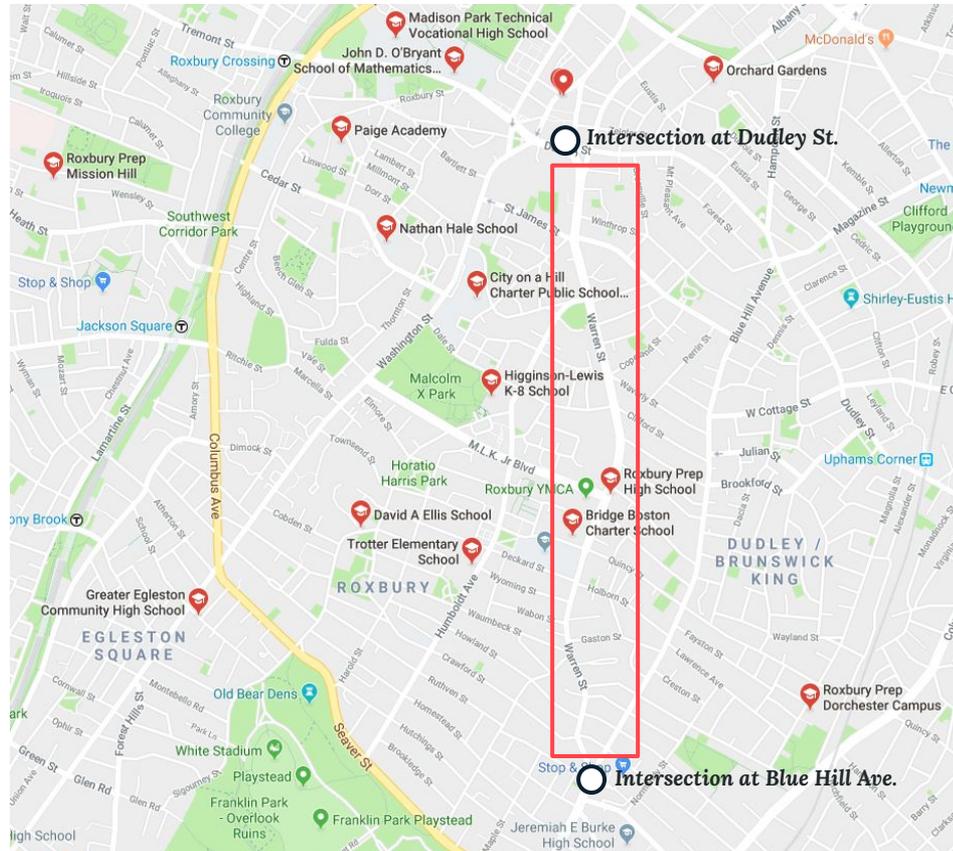


Community

Home

Work + Shop

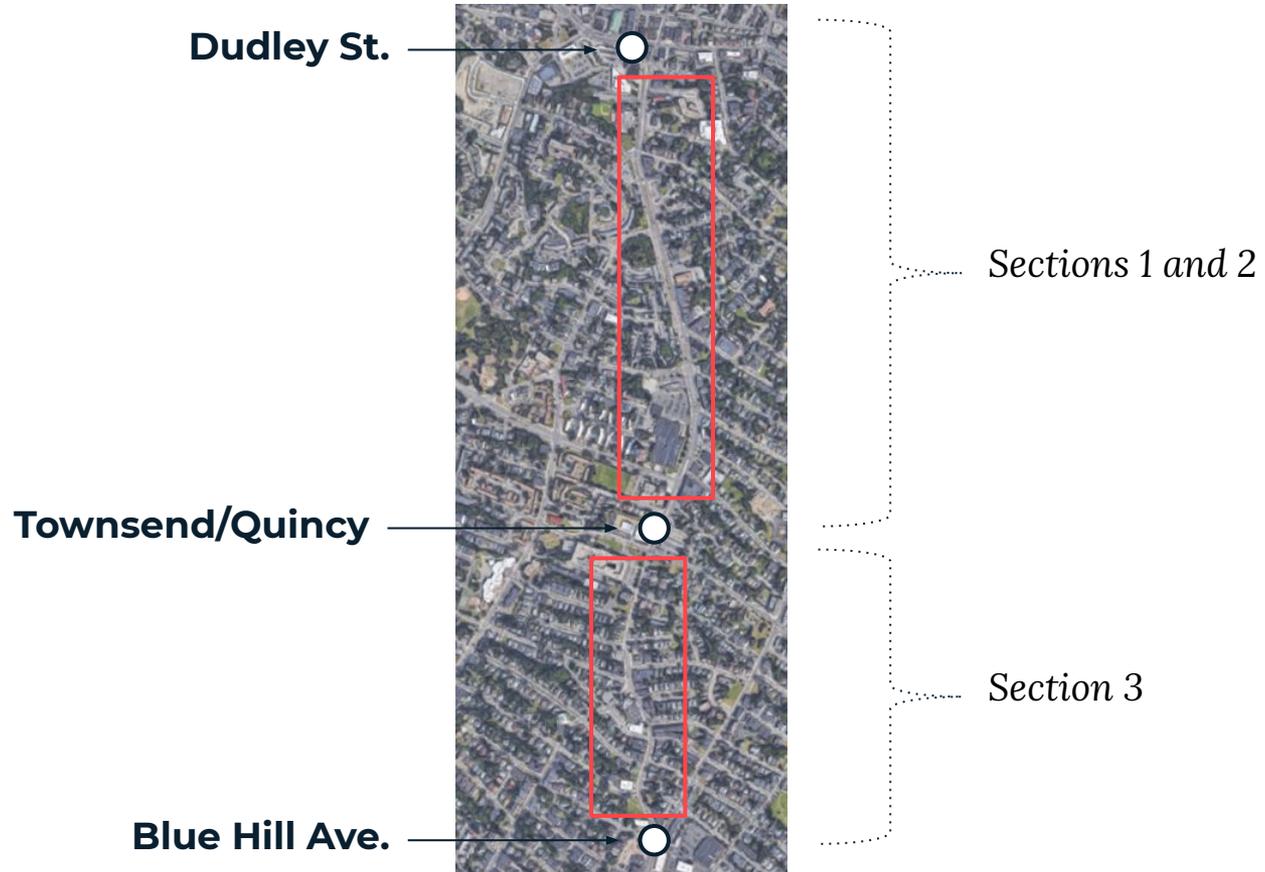
KEY ACADEMIC CORRIDOR



● There are 14 schools within 1 mile of Warren Street

● Any bus-related service improvements that elevate not only MBTA service but also BPS service, will have a sizable impact on **Roxbury students.**

STREET CONFIGURATION



STREET CONFIGURATION | SECTION 1



32
feet

Roadway
width

10
feet

Sidewalk
width

STREET CONFIGURATION | SECTION 2



42
feet

Roadway
width

10
feet

Sidewalk
width

STREET CONFIGURATION | SECTION 3



**24
feet**

Roadway
width

**10
feet**

Sidewalk
width

RESEARCH

Past Explorations of Mobility on Warren



RECENT RESEARCH + KNOWLEDGE SHARING

2012
RDM Transit Needs
Study
MassDOT

2017
Go Boston 2030: Vision
and Action Plan
City of Boston

2019
Better Bus: State
of the System
MBTA

2016
Prioritization of Dedicated
Bus Lanes
CTPS

2018
Better Buses: Getting Boston
On Board
LivableStreets

PAST RESEARCH + KNOWLEDGE SHARING



- Warren Street is **vital** to the effectiveness of the city's transit network

- Bus riders who travel along Warren Street are subject to a **disproportionately** inefficient travel experience



EXISTING CONDITIONS

Mobility on Warren Street Today

EXISTING TRANSIT ROUTES

From Blue Hill Ave. to Dudley St.



28 | Mattapan to Ruggles

#1 highest ridership route in the system



23 | Ashmont to Ruggles

#4 highest ridership route in the system



19 | Fields Corner to Kenmore

2nd worst on-time performance: 43%



14 | Roslindale to Heath Street

4th worst on-time performance: 49%

ADDITIONAL EXISTING ROUTES

Along Warren St.



44 | Local Route

*Jackson Square Station
to Ruggles Station*



School Buses

*Boston Public Schools
bus services*

Route 44

- *Runs along Warren Street between Dudley Street and Circuit Street*
-

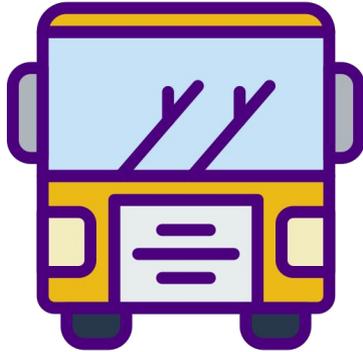
Boston Public School Buses

- *Buses funnel into Warren Street from the side streets of Harrison, Winthrop, Moreland, Walnut, Dale, MLK, Townsend, and Elm Hill serving the 14 schools that sit within a mile of Warren Street.*

EXISTING TRANSIT VEHICLE VOLUMES

Average Weekday

MBTA BUSES



691

*Total Daily
Buses*

104

*AM Peak
Buses*

104

*PM Peak
Buses*

BPS BUSES



335

*Individual
Buses*

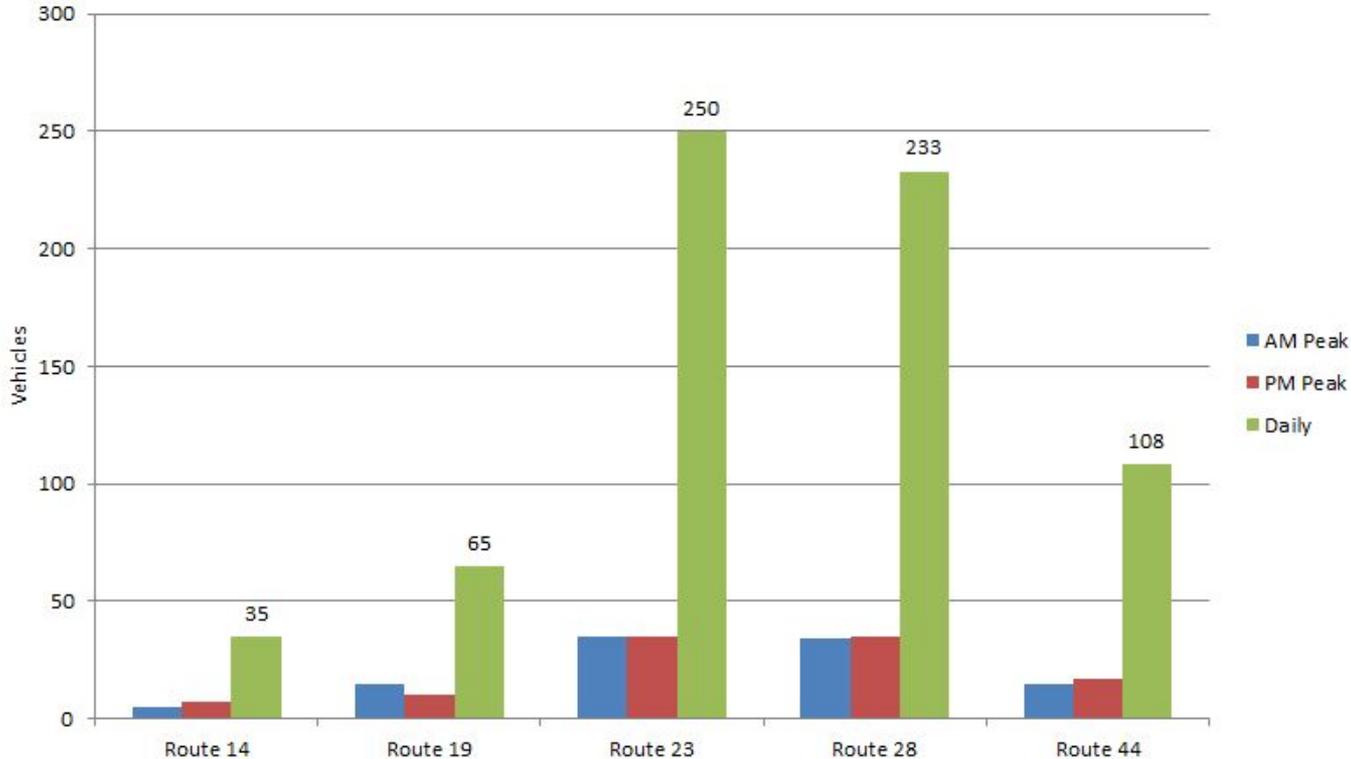
1,025

*Trip
Segments*

EXISTING MBTA VEHICLE VOLUMES

Average Weekday

Weekday MBTA Vehicle Volumes



After Blue Hill Ave. and Washington St. in Roslindale, Warren St. hosts the **highest transit vehicle volumes** in the entire MBTA system

EXISTING MBTA RIDERSHIP

Average Weekday

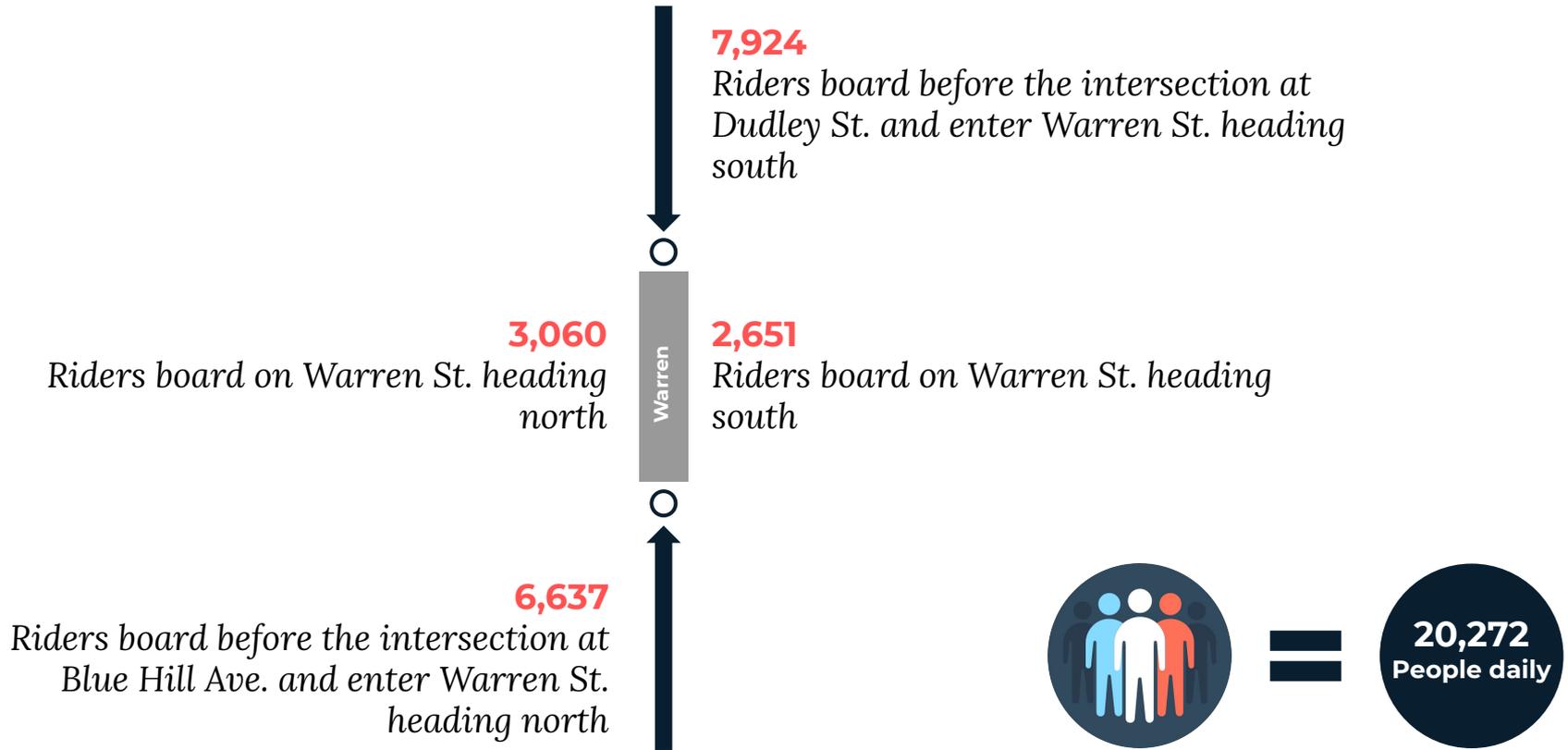


20,272
People daily

*MBTA Riders who travel
along Warren on a weekday*

EXISTING MBTA RIDERSHIP

Average Weekday



EXISTING MBTA RIDERSHIP BY STOP | INBOUND

Daily Weekday Activity by Stop

5228 people board or alight inbound on Warren Street

		Ons	Offs	Both
@ Kearsarge		68	303	371
@ Moreland		96	104	200
@ Whiting		87	131	218
@ Waverly		301	169	470
@ Woodbine		318	146	464
@ Maywood		479	399	878
@ Quincy		658	400	1,058
@ Gaston		279	161	440
@ Intervale		228	126	354
@ Sunderland		547	230	777

EXISTING MBTA RIDERSHIP BY STOP | OUTBOUND

Ons	Offs	Both	
281	103	384	← Dudley Station
139	152	291	←
119	141	260	←
197	264	461	←
240	408	648	←
446	372	818	←
558	534	1,092	←
185	280	465	←
157	239	396	←
328	519	847	← Blue Hill Ave

opp Kearsarge

@ Dabney

@ Walnut

opp Waverly

opp Woodbine

@ MLK

@ Townsend

@ Waumbeck

@ Brunswick

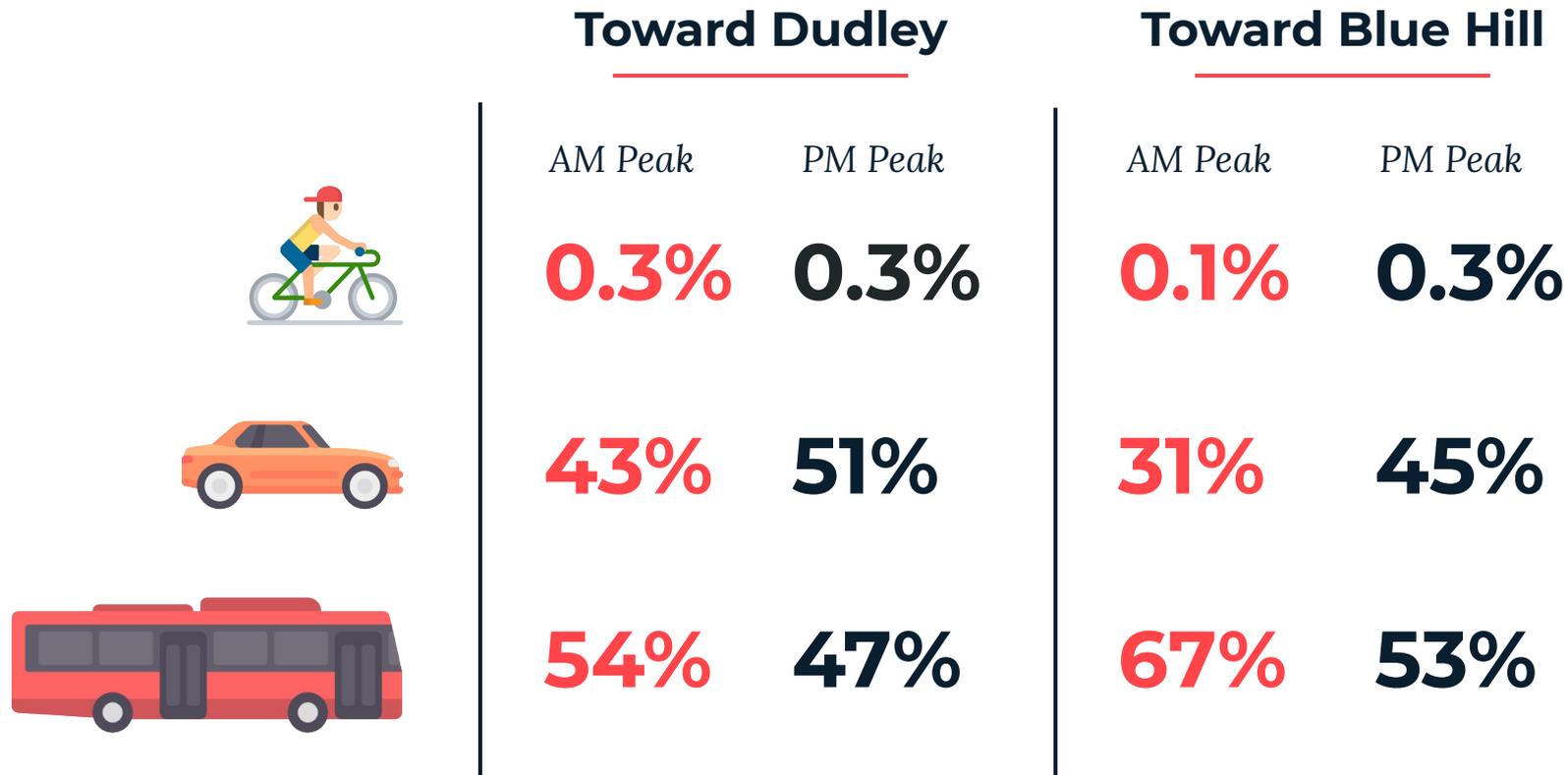
@ Crawford

Daily Weekday Activity by Stop

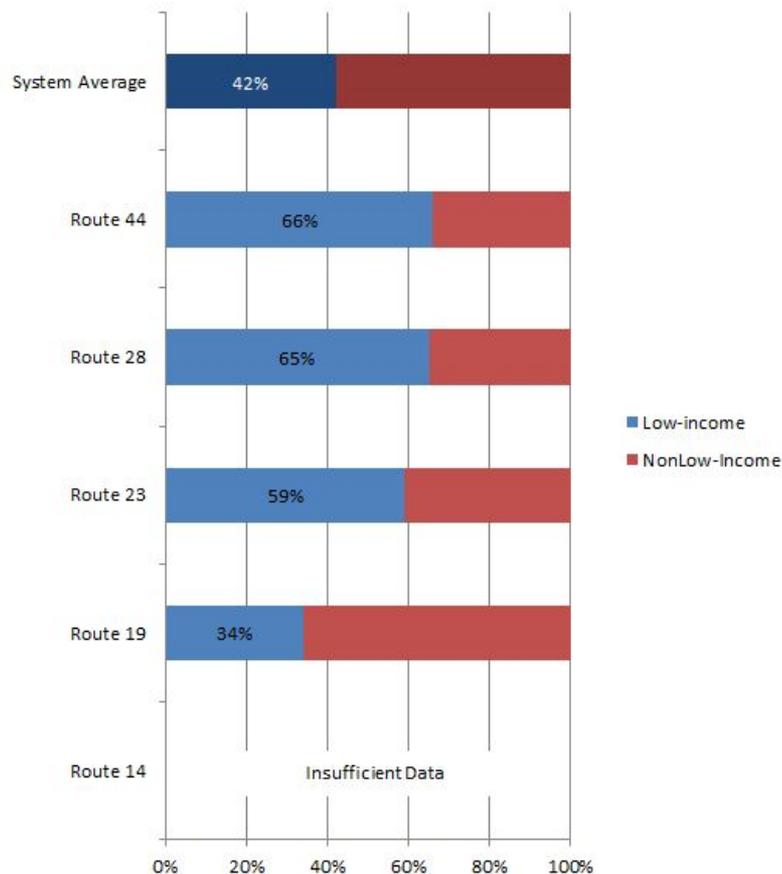
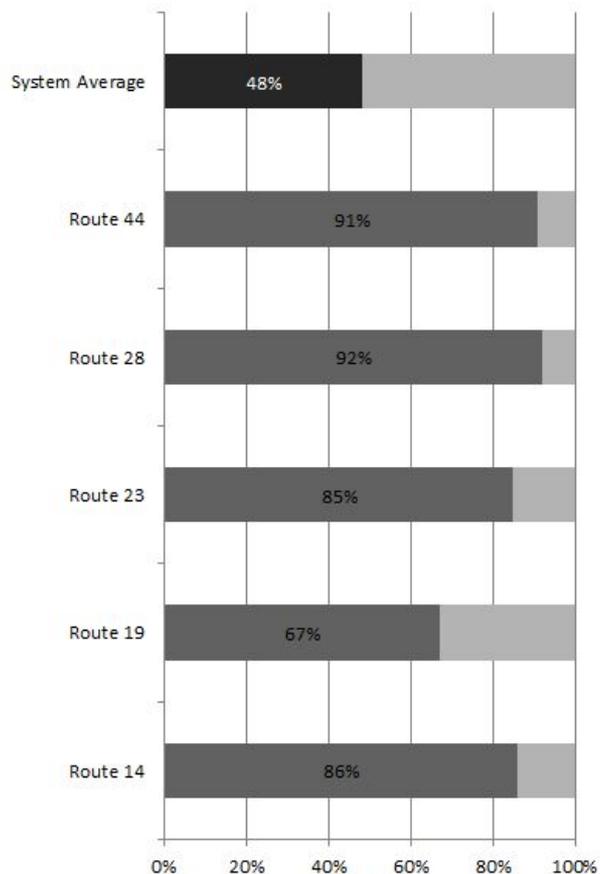
5662 people board or alight outbound on Warren Street

EXISTING ROADWAY USAGE BY MODE | PERSON THROUGHPUT

Average Weekday



EXISTING MBTA RIDERSHIP | DEMOGRAPHICS



EXISTING TRAVEL TIME SUMMARY | DELAYS



- The average Route 14, 19, 23, or 28 rider is spending between **20 and 30 minutes longer** than necessary on Warren Street each day.

This amounts to 100 to 150 minutes, or **1.7 to 2.5 hours**, per work week.

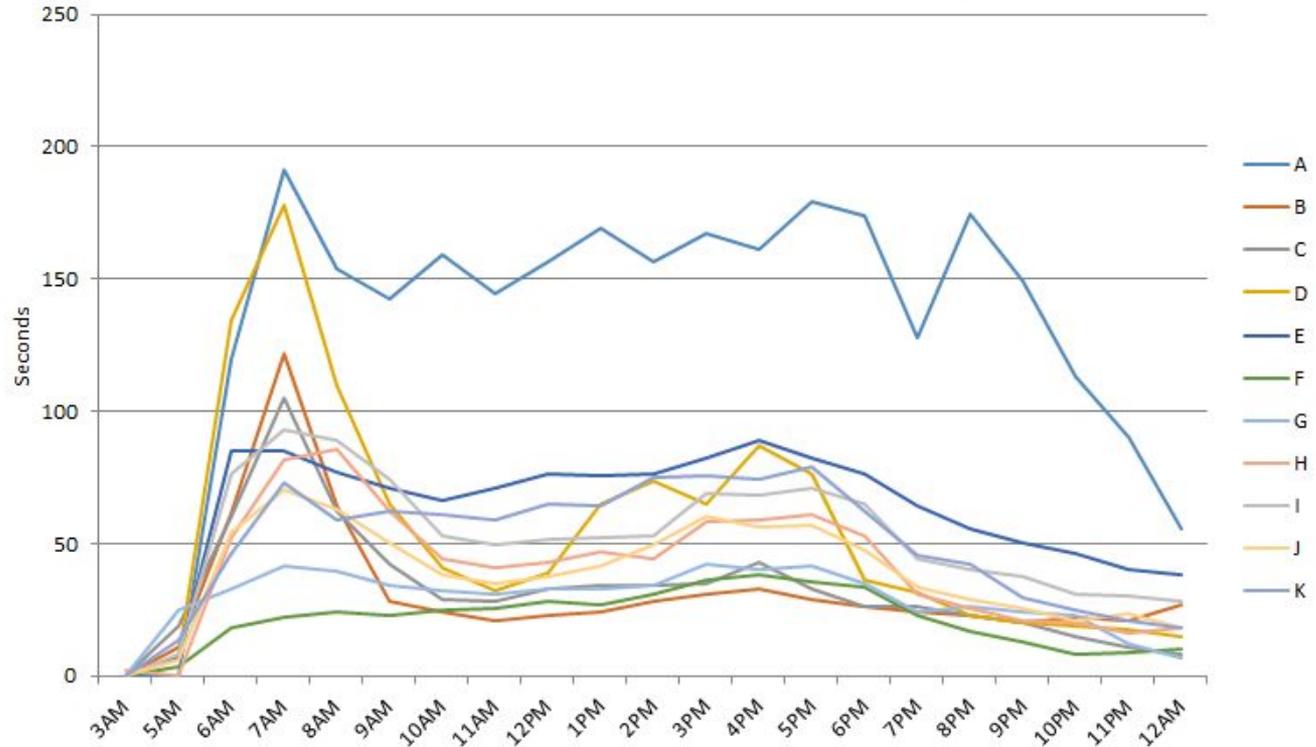


- Warren Street is a prime contributor to **racial inequity** with respect to quality of trip: on average, black riders each spend 64 hours a year longer on MBTA buses than their white counterparts.*

EXISTING DELAYS | AT THEIR WORST



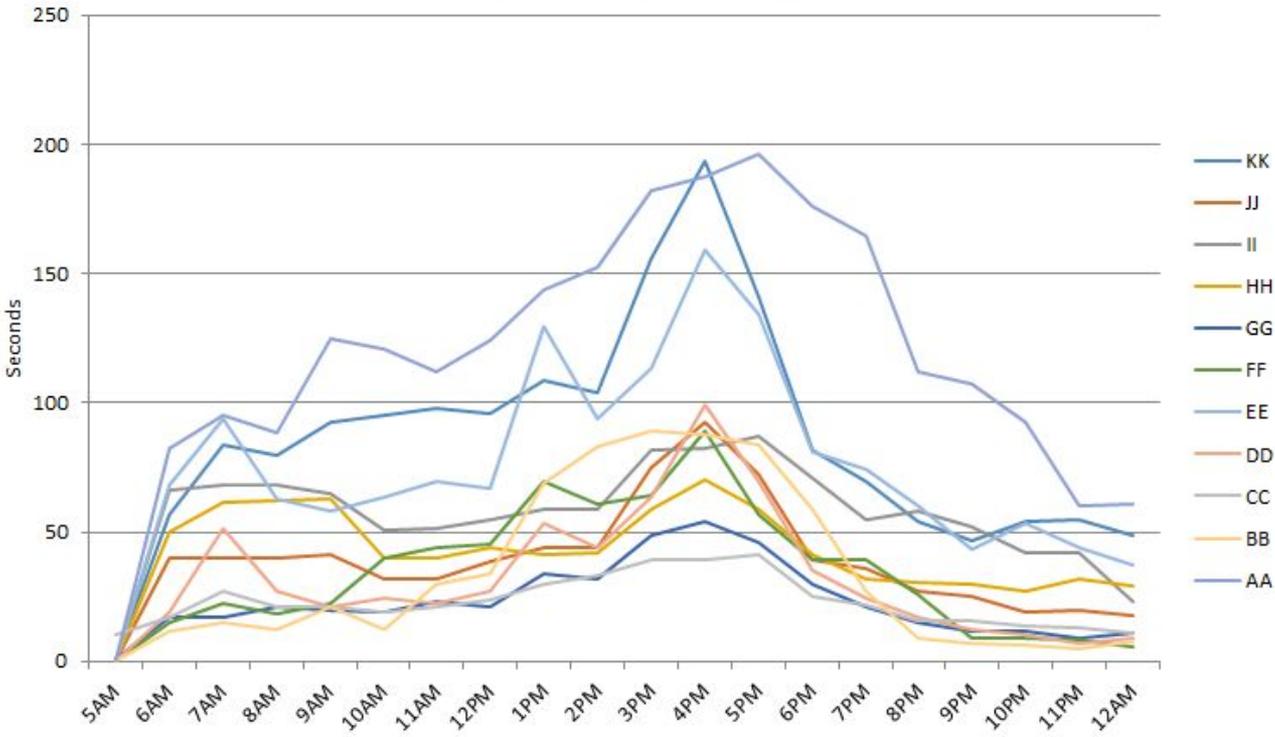
Inbound 90th Percentile Delay by Segment by Time of Day



EXISTING DELAYS | AT THEIR WORST



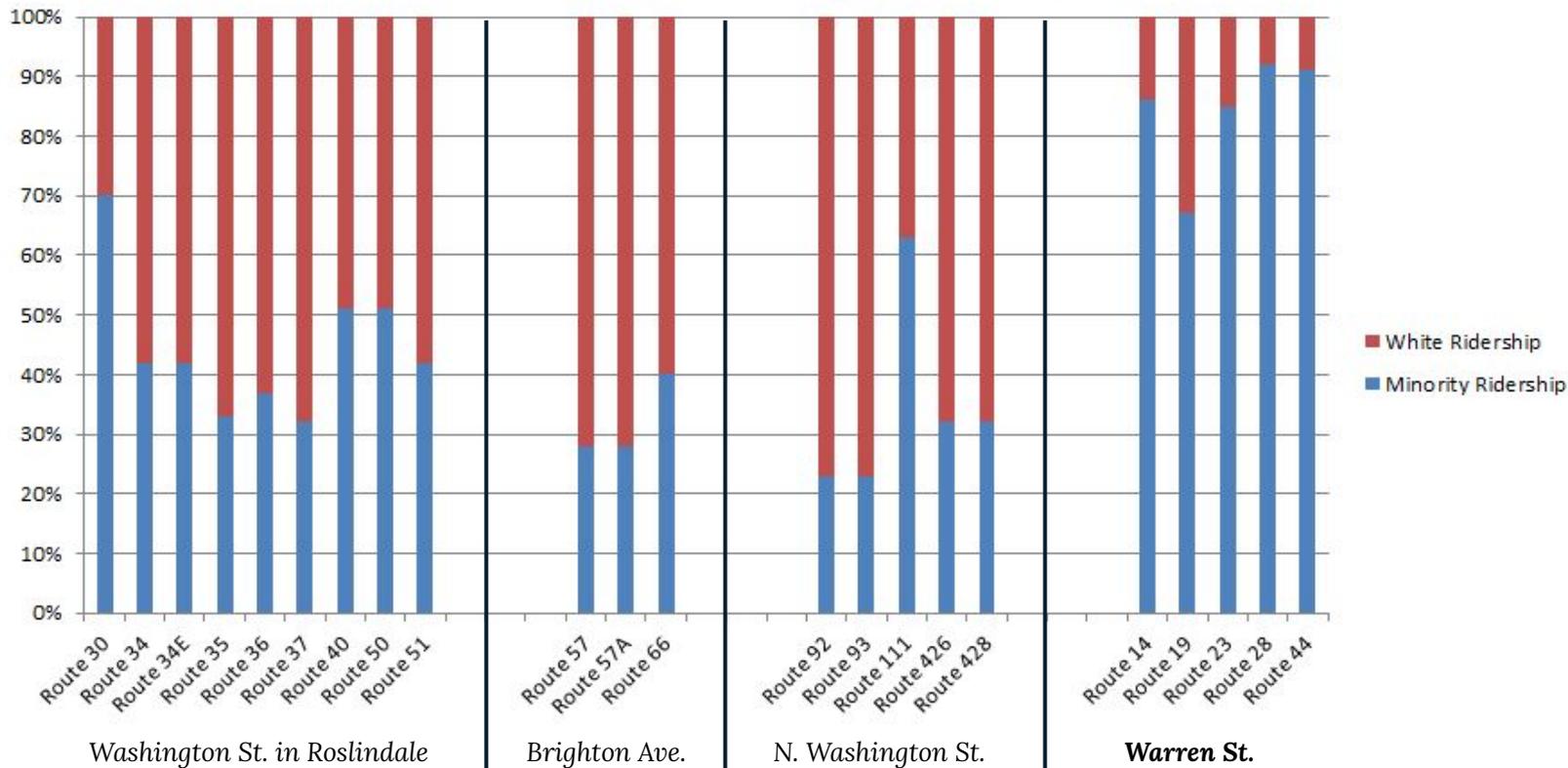
Outbound 90th Percentile Delay by Segment by Time of Day



Data Source: MBTA - 2018

EQUITY LENS | WHO BENEFITS FOR BUS INVESTMENTS

Ridership by Race Along Boston Bus Lanes



CONCLUSION

Key Takeaways



PRESENTATION SYNOPSIS



- **691 MBTA buses and 61 student-carrying BPS buses travel along Warren every weekday.**
- **Bus riders account for 54% of peak period roadway users on Warren.**
- **Warren's 20,272 daily bus riders are experiencing 20 to 30 minute longer than necessary travel times every weekday; 1.7-2.5 hours per work week.**
- **Delays are worst at the intersections of Warren with both Dudley Street and Blue Hill Avenue.**

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