



“What are we rushing to get done?”

# Chestnut Hill Ave Traffic Data Analysis

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Data-driven decision-making

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653 Chestnut Hill Av residents since 1989

April/May 2025

# Data-driven Decision Making



## Goal

Use data collected by Brookline Police Department over the last five (5) years to understand the nature of traffic issues along Chestnut Hill Ave



## Process

Receive data for Moving Violations  
Receive data for Crash Incidents



## Analysis

Determine what has actually been recorded as issues along Chestnut Hill Ave between 2020 and 2024  
Use these results to inform decision-making about next steps for improvement of the Avenue

# Town of Brookline Traffic Crashes

(Source: Brookline Police Annual Crime Report, p, 32, 2023)

- Reported traffic crashes: 1,293
  - Majority of crashes are property damage only, no personal injury
- Breakdown – **Entire Town of Brookline**

Type	Count
Bike/Motor Vehicle	32
Bike/Pedestrian	5
Bike/Bike	1
Pedestrian/Motor Vehicle	38
Pedestrian/Moped	2
Pedestrian/Motorcycle	1
Other/Motor Vehicle	16

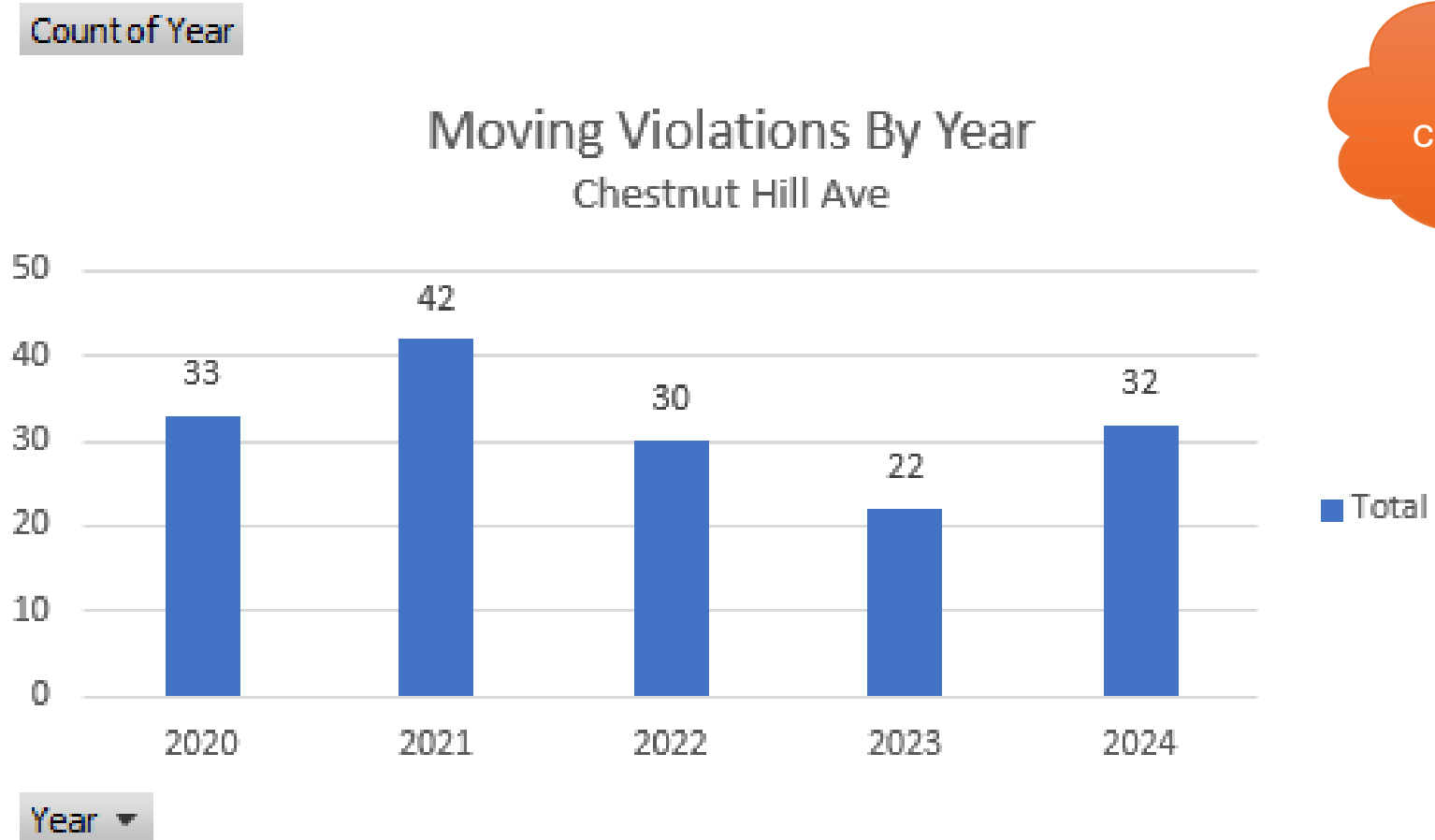
# Moving Violations/Citations – Data Summary

## Chestnut Hill Ave

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- Source: BPD – Jan 2020 – Dec 2024
- Records: 159
- Locations along the avenue: 13
- Citations/year range from **22 to 42**
- Highest locations include (top five represent 92%):
  - Boylston @ CHA – (95) 60% (vehicles turning onto CHA from Route 9)
  - Dean @ CHA – (19) 12%
  - CHA – (17) 11%
  - Beacon @ CHA – (8) 5% (not in Brookline but Boston)
  - Ackers @ CHA – (6) 4%

# Moving Citations - Graphical Representation



# Moving Citations - Tabular Data

Row Labels	2020	2021	2022	2023	2024	Grand Total	Percent
ACKERS/CHESTNUT HILL AV	1	4	1			6	4%
BEACON/CHESTNUT HILL AV	2	2	2	2		8	5%
BOYLSTON/CHESTNUT HILL AV	24	20	20	10	21	95	60%
BUCKMINSTER/CHESTNUT HILL AV				1		1	1%
CHANNING/CHESTNUT HILL AV		1	1	1		3	2%
CHESTNUT HILL AV	4	3	4	3	3	17	11%
CHESTNUT HILL AV/DEAN	1					1	1%
CLINTON/CHESTNUT HILL AV	1	2				3	2%
DEAN/CHESTNUT HILL AV		8	2	3	6	19	12%
ELIOT/CHESTNUT HILL AV				1		1	1%
HYSLOP/CHESTNUT HILL AV		2		1		3	2%
RESERVOIR/CHESTNUT HILL AV					1	1	1%
WILLARD/CHESTNUT HILL AV					1	1	1%
<b>Grand Total</b>	<b>33</b>	<b>42</b>	<b>30</b>	<b>22</b>	<b>32</b>	<b>159</b>	<b>100%</b>

# Moving Violation Data Observations

- An average of 30 moving violations/year from 2020-2024 for a heavily-trafficked (morning and evening rush hour) street in Brookline
- The majority of violations are located at the corner of Boylston (Route 9) and Chestnut Hill Ave
  - **Right on red violation** for vehicles traveling west on Route 9 making right onto Chestnut Hill Ave
  - **Left on red violation** for vehicles traveling east on Route 9 making left onto Chestnut Hill Ave
- Five “Fail to slow” citations in FIVE years
- Three “Speeding in violations-special regulation”
- Comment:
  - Low citation numbers should prompt a “pause to reflect” on the push to make dramatic changes along a safe roadway
  - Distribute our constrained financial resources more wisely by making the most urgent changes that then enable more improvements to be made across Brookline

## **Chestnut Hill Avenue Crash History– Data Summary**

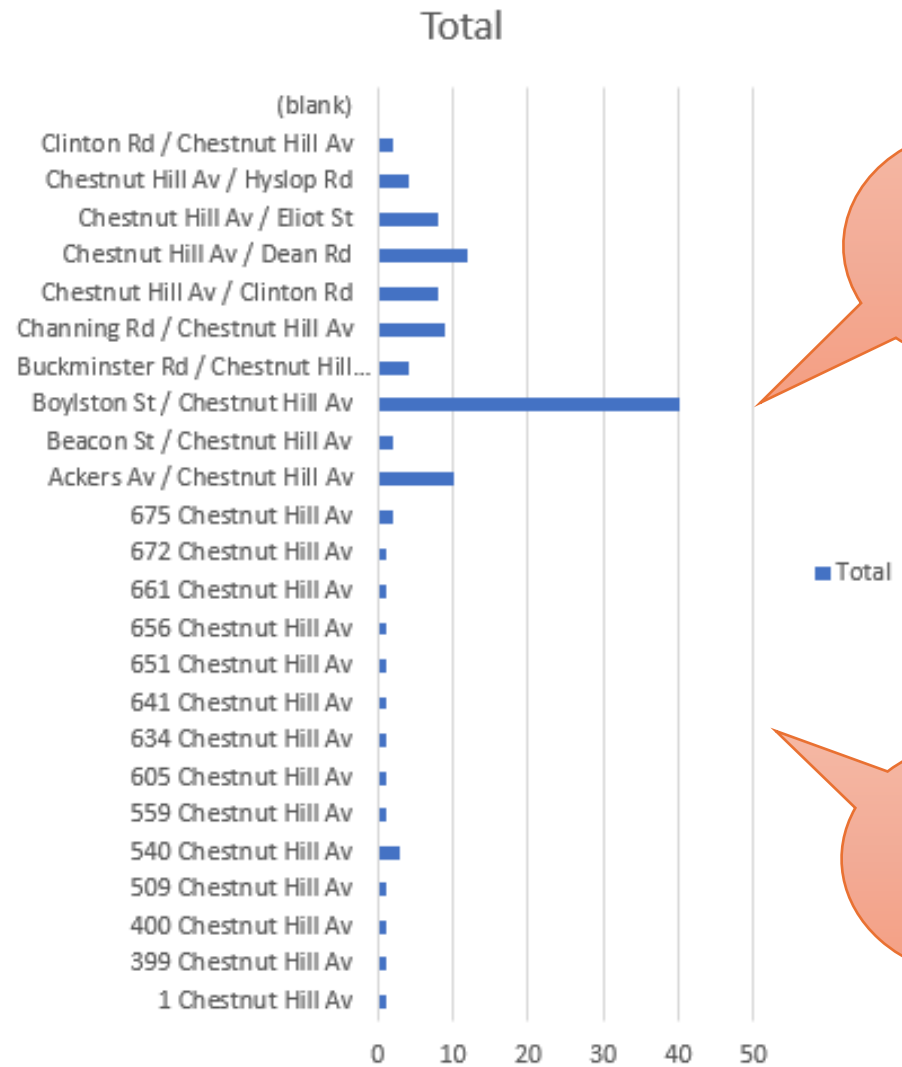
- Source: BPD – Jan 2020 - Feb 2025 (>five years)
- Records: 116
- Locations along the avenue: 24
- Crashes/year range from **~25-30**
- Highest locations include (top three include 92%):
  - Boylston @ CHA – (95) 60%
  - Dean @ CHA – (19) 12%
  - CHA – (17) 11%
  - Beacon @ CHA – (8) 5%
  - Ackers @ CHA – (6) 4%

# Crash Incidents by Address Along Chestnut Hill Avenue

2020-Feb 2025

Count of Address

Address ▾



Making turn from Route 9 onto CHA

Fender bender while in traffic queue

%-Distribution of Crashes **over 5 years** along locations on Chestnut Hill Ave

Row Labels	Count of Address	Percent
1 Chestnut Hill Av	1	1%
399 Chestnut Hill Av	1	1%
400 Chestnut Hill Av	1	1%
509 Chestnut Hill Av	1	1%
540 Chestnut Hill Av	3	3%
559 Chestnut Hill Av	1	1%
605 Chestnut Hill Av	1	1%
634 Chestnut Hill Av	1	1%
641 Chestnut Hill Av	1	1%
651 Chestnut Hill Av	1	1%
656 Chestnut Hill Av	1	1%
661 Chestnut Hill Av	1	1%
672 Chestnut Hill Av	1	1%
675 Chestnut Hill Av	2	2%
Ackers Av / Chestnut Hill Av	10	9%
Beacon St / Chestnut Hill Av	2	2%
Boylston St / Chestnut Hill Av	40	34%
Buckminster Rd / Chestnut Hill Av	4	3%
Channing Rd / Chestnut Hill Av	9	8%
Chestnut Hill Av / Clinton Rd	8	7%
Chestnut Hill Av / Dean Rd	12	10%
Chestnut Hill Av / Eliot St	8	7%
Chestnut Hill Av / Hyslop Rd	4	3%
Clinton Rd / Chestnut Hill Av	2	2%
(blank)		
<b>Grand Total</b>	<b>116</b>	<b>100%</b>

# Single Bike Accident (Biker-At Fault) at Eliot/CHA Intersection (2023) Citation Issued

Count of Type	Column Labels		
Row Labels	N	Y (blank)	Grand Total
+ 1 Chestnut Hill Av		1	1
+ 399 Chestnut Hill Av		1	1
+ 400 Chestnut Hill Av		1	1
+ 509 Chestnut Hill Av		1	1
+ 540 Chestnut Hill Av	2	1	3
+ 559 Chestnut Hill Av		1	1
+ 605 Chestnut Hill Av		1	1
+ 634 Chestnut Hill Av		1	1
+ 641 Chestnut Hill Av		1	1
+ 651 Chestnut Hill Av		1	1
+ 656 Chestnut Hill Av		1	1
+ 661 Chestnut Hill Av		1	1
+ 672 Chestnut Hill Av		1	1
+ 675 Chestnut Hill Av	1	1	2
+ Ackers Av / Chestnut Hill Av	7	3	10
+ Beacon St / Chestnut Hill Av	2		2
+ <b>Boylston St / Chestnut Hill Av</b>	33	7	40
+ Buckminster Rd / Chestnut Hill Av	3	1	4
+ Channing Rd / Chestnut Hill Av	9		9
+ Chestnut Hill Av / Clinton Rd	4	4	8
+ Chestnut Hill Av / Dean Rd	11	1	12
+ Chestnut Hill Av / Eliot St	7	1	8
Bike failed to yield right of way		1	1
Failure to Yield to Oncoming Traffic		1	1
Following too closely, Unsafe Lane Change		1	1
MV1 attempted to pass MV2		1	1
(blank)		4	4



# Highest Crash Rate Location

(Note: zero crashes noted as due to high-speed)

Count of Type	Column Labels		Grand Total
Row Labels	N	Y (blank)	Grand Total
+ 1 Chestnut Hill Av		1	1
+ 399 Chestnut Hill Av		1	1
+ 400 Chestnut Hill Av		1	1
+ 509 Chestnut Hill Av		1	1
+ 540 Chestnut Hill Av	2	1	3
+ 559 Chestnut Hill Av		1	1
+ 605 Chestnut Hill Av		1	1
+ 634 Chestnut Hill Av		1	1
+ 641 Chestnut Hill Av		1	1
+ 651 Chestnut Hill Av		1	1
+ 656 Chestnut Hill Av		1	1
+ 661 Chestnut Hill Av		1	1
+ 672 Chestnut Hill Av		1	1
+ 675 Chestnut Hill Av	1	1	2
+ Ackers Av / Chestnut Hill Av	7	3	10
+ Beacon St / Chestnut Hill Av	2		2
+ <b>Boylston St / Chestnut Hill Av</b>	<b>33</b>	<b>7</b>	<b>40</b>
Failure to Stop at Red Light		2	2
Following Too Closely	2	1	3
MV hit median		1	1
MV1 made contact with MV2 when turning		1	1
MV1 pulled around and clipped MV2		1	1
Pressed gas instead of break, Following too Closely		1	1
Red Light Violation		1	1
Unsafe lane change	2	1	3
(blank)	26	1	27

# Ackers Av @ CHA Crash Reasons (zero incidents assigned to high- speed)

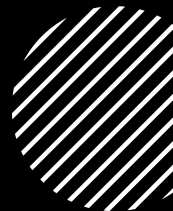
Count of Type	Column Labels		
Row Labels	N	Y	(blank) Grand Total
+ 1 Chestnut Hill Av		1	1
+ 399 Chestnut Hill Av		1	1
+ 400 Chestnut Hill Av		1	1
+ 509 Chestnut Hill Av		1	1
+ 540 Chestnut Hill Av		2	1
+ 559 Chestnut Hill Av		1	1
+ 605 Chestnut Hill Av		1	1
+ 634 Chestnut Hill Av		1	1
+ 641 Chestnut Hill Av		1	1
+ 651 Chestnut Hill Av		1	1
+ 656 Chestnut Hill Av		1	1
+ 661 Chestnut Hill Av		1	1
+ 672 Chestnut Hill Av		1	1
+ 675 Chestnut Hill Av		1	1
- Ackers Av / Chestnut Hill Av	7	3	10
Distracted Driving		1	1
Driver may have fallen asleep		1	1
Failure to Use Care		1	1
Following Too Closely		1	1
Possible medical event		1	1
Struck a low tree limb		1	1
Sun glare caused to hit utility pole; Marked Lanes Violation		1	1
(blank)		3	3

# CHA Crash Reasons (zero incidents assigned to high-speed)

Reason	Count	Percent
Following Too Closely	9	18%
Failure to Yield Right of Way	5	10%
Unsafe lane change	4	8%
Failure to Stop at Red Light	3	6%
Distracted Driving	2	4%
Marked Lanes Violation	2	4%
Bike failed to yield right of way	1	2%
CAD Only	1	2%
Can of air spray lodged under brake pedal	1	2%
Driver may have fallen asleep	1	2%
Failure to Use Care	1	2%
Failure to Yield at a Crosswalk	1	2%
Failure to Yield to Oncoming Traffic	1	2%
Following too closely, Unsafe Lane Change	1	2%
Garbage truck struck a low branch, pulling overhead cable wires that struck another car	1	2%
Improper passing on the right	1	2%
MV hit median	1	2%
MV pulled out of parking lot and hit MV 2	1	2%
MV1 attempted to pass MV2	1	2%
MV1 made contact with MV2 when turning	1	2%
MV1 pulled around and clipped MV2	1	2%
MV1 rolled into MV2	1	2%
MV2 failed to stop when MV1 stopped at Crosswalk, Following too Closely	1	2%
MV2 failed to stop when MV1 stopped at Red Light	1	2%
OUI, Reckless Operation, Marked Lanes Violation	1	2%
Plow hit old concrete traffic light base	1	2%
Possible medical event	1	2%
Pressed gas instead of break, Following too Closely	1	2%
Red Light Violation	1	2%
Struck a low tree limb	1	2%
Sun glare caused to hit utility pole; Marked Lanes Violation	1	2%
Unknown	1	2%
<b>Total</b>	<b>51</b>	<b>100%</b>



# Crash data observations



One bike-related crash with a vehicle over the last 5 years cited as biker-at-fault



No crashes of the 116 reported noted “high-speed”



Majority of crashes involve:

Following too closely

Failure to yield right-of-way

Unsafe lane changes (**Note:** CHA is single lane each way its entire length)



The highest frequency crash location is an intersection with a state highway



**Crash data does not support the assertion that CHA is a speed thoroughfare or a dangerous road to travel**

# Crosswalk Changes - Questions

## Clinton Road

- Big “Block the box” will back up traffic
- Pedestrian Refuge Island will narrow an already narrow roadway

## Buckminster Road

- Pedestrian Refuge Island will block driveway access for abutter
- No MBTA data provided that there are any crosswalkers there at all! What problem are we solving?

## Hyslop Road and Ackers Ave

- Road is not wide enough to require the refuge islands – road users don’t reliably stop anyway