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TOWN OF DEDHAM
Commonwealth of Massachusetts



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DEDHAM, MA 02026-2935

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DEPARTMENT OF INFRASTRUCTURE ENGINEERING

INITIAL TRAFFIC EVALUATION

TO: Transportation Advisory Committee

FROM: Jason L. Mammone, P.E., Director of Engineering

DATE: December 6, 2021

SUBJECT: Traffic Calming Request #2020-003 – Bonham Road

Purpose

The Transportation Advisory Committee (TAC), at their 09/1421 meeting, reviewed the traffic calming request form (#2021-003) submitted by Jules Nohra of 121 Bonham Road. Based upon the information provided in the form, Mr. Nohra's concerns are the speed at which vehicles travel and pedestrian/bicyclist safety. Based upon the Town's Traffic Calming Policy, TAC determined that this request met the eligibility criteria and warranted an initial evaluation on Bonham Road and requested that the Engineering Department investigate this matter. This report summarizes the findings of the Engineering Department.

Study Area

Bonham Road:

Bonham Road is a north/south thickly settled residential through street with a pavement width of approximately 23 to 25 feet. Bonham Road is approximately 2,800 feet (0.54 miles) in length extending from Louise Road to Greensboro Road. There is a continuous sidewalk on the westerly side of the roadway that extends from Louise Road to Hilldale Road, but a continuous sidewalk does not exist for this side from Hilldale Road to Greensboro Road. There is a continuous sidewalk on the easterly side of Bonham Road that extends from Louise Road to Trenton Road, but a continuous sidewalk does not exist on this side from Trenton Road to Greensboro Road. Many of the residents utilize Bonham Road for on-street parking.

The statutory speed limit on this section of Bonham Road is 25 mph. A statutory speed limit is a default speed limit that applies when no other specific speed limit is posted. According to Massachusetts General Laws (MGL), Chapter 90, Section 17 & Section 17c; unless posted otherwise, your speed would not be reasonable and proper if a motor vehicle is operated in excess of:

- 20 mph in a school zone
- 25 mph in a thickly settled or business district
- 40 mph outside a thickly settled or business district
- 50 mph on a highway outside a thickly settled or business district

Observations (Speed, Volume & Classification)

The Town of Dedham utilized two Jamar radar recorders to log the speed and volume of vehicles during the period beginning October 12, 2021 and ending October 15, 2021. Due to the length of Bonham Road we broke it up into 2 sections. A radar was setup for the first section between Louise Road and Trenton Road (Section 1) at Station 6+59. and the other between Trenton Road and Greensboro Road (Section 2) at Station 17+99. Please refer to the attached Locus Map for the locations of the radar recorder setups.

The combined average speed for Sections 1 and 2 for Bonham Rad in both directions was found to be 25 mph and 20 mph, respectively. The combined 85th percentile speed for Section 1 and 2 in both directions was found to be 30 mph and 28 mph, respectively. The 85th percentile speed is the speed at or below which 85 percent of vehicles travel and is the national standard utilized to determine if the speed on a given roadway is in excess, at or below the speed limit. Based upon the data, the combined 85th percentile speed for Section 1 is 5 mph over the speed limit and Section 2 is 3 mph over the speed limit.

The volume of traffic expressed as average daily traffic (ADT) and the speed data collected for both sections of Bonham Road are shown below in Tables 1 & 2:

Table 1 – Section 1 Traffic Data Station 6+59

<i>Direction of Traffic</i>	<i>ADT</i>	<i>Peak Hour Volume</i>	<i>Peak Volume Time</i>	<i>Speed Limit</i>	<i>85th Percentile Speed</i>	<i>Average Speed</i>
Northbound	238 (51%)	29	5 - 6 pm	25 mph ^a	30 mph	25 mph
Southbound	228 (49%)	28	4 - 5 am	25 mph ^a	29 mph	24 mph
Combined	499	45	6 - 7 pm	25 mph ^a	30 mph	25 mph

^a – Statutory Speed Limit

Table 1 – Section 2 Traffic Data Station 6+59

<i>Direction of Traffic</i>	<i>ADT</i>	<i>Peak Hour Volume</i>	<i>Peak Volume Time</i>	<i>Speed Limit</i>	<i>85th Percentile Speed</i>	<i>Average Speed</i>
Northbound	100 (45%)	11	12 - 1 pm	25 mph ^a	27 mph	19 mph
Southbound	114 (55%)	17	4 - 5 pm	25 mph ^a	28 mph	21 mph
Combined	222	22	4 - 5 pm	25 mph ^a	28 mph	20 mph

^a – Statutory Speed Limit

Bonham Road does not experience a higher than normal volume of vehicles considering its location and the volume of residential properties in the neighborhood.

Crash Data (Traffic Collisions)

The Engineering Department analyzed crash data utilizing the most recent 2018-2021 data available from the Dedham Police Department and MassDOT to determine if the subject area was experiencing a higher than normal rate of accidents.

Table 2 – Crash Data

Road	Total # of Crashes	Crashes Per Year
Bonham Road	1	0.3

The one crash did not involve a pedestrian and/or bicyclist. The incident report also did not have any information on the cause of the accident. Based upon this data, there are no overriding roadway geometric safety issues.

GIS Data (Pedestrian Generators & Residential Density)

The Engineering Department utilized our latest Geographic Information System (GIS) data to collect the types of pedestrian generators and determine the residential density located within a 1,000 foot buffer of the study area.

Pedestrian generators are those facilities that are considered points of interest that pedestrians travel to, such as parks, community centers, Town/neighborhood centers, libraries, public transit stations, churches and public schools. Based upon the available data, there are two pedestrian generators (Playground at Old ECEC and future Trenton Rd Playground) within the 1,000 foot buffer area.

Based upon the available data, the 1,000 foot buffer area has approximately 1 Apartment with 6 to 8 units, 10 Condo Units, 13 Two-Family Dwellings and 519 Single-Family Dwellings.

Scoring

According to the latest version of the Town’s Traffic Calming Policy, for a roadway to qualify for traditional traffic calming measures, the petitioned roadway must score more than 50 points utilizing the scores calculated from the 6 criteria including; Speed, Volume, Pedestrian Route, Traffic Collisions, Pedestrian Generators and Residential Density. The table below summarizes the scoring for each criterion.

Table 3 - Scoring

Criteria	Score (Bonham Road)
Speed – Based upon how many mph the combined 85 th percentile speed is over the speed limit. 2 points awarded for each mph over the speed limit from 1 to 5 mph over the speed limit and 4 points awarded for each mph over the speed limit starting at 6 mph and greater over the speed limit	10
Volume – 1 point awarded for every 100 vehicles of average daily traffic (ADT)	4
Pedestrian Route – 10 points awarded if no continuous sidewalk exist on both sides of the roadway or 5 points awarded if there is only a continuous sidewalk on one side of the roadway	10
Traffic Collisions – 2 points awarded for each preventable collision in a 3 year period that occurred along the subject roadway. 8 points awarded if a collision involved a pedestrian or bicyclist.	0
Pedestrian Generators – 3 points awarded for every park, community center, library, public transit station or church located within 1,000 feet of the subject roadway. 10 points awarded for each public school within 1,000 feet of the subject roadway	6
Residential Density – 1 point awarded for every 50 dwelling units within 1,000 feet of the subject roadway	11
TOTAL SCORE	41

Conclusion

Traditional traffic calming measures are not recommended for Bonham Road since it did not score greater than 50 points based upon the criterion listed in Table 3 above.

Although Bonham Road is not recommended for traditional traffic calming measures, the collected data did show that there is a minor speeding issue present on Bonham Road, particularly between Louise Road and Trenton Road. It is recommended that the Police Department perform sporadic traffic enforcement on Bonham Road to mitigate the speeding that occurs along this roadway. Utilizing the data collected, the best times for enforcement during the work week would be from 7 to 9 AM in the morning and from 5 to 7 PM in the evening.

The Engineering Department would also like to offer the following low-cost traffic calming measures that could be utilized and/or taken on by the concerned residents and neighbors.

- Purchasing a Step2 Kid Alert Visual Warning System – These can be purchased at Toys R’ Us, Wal-Mart, Amazon.com and other similar retail and online stores for about \$25 to \$35. The Step2 Kid should be placed at the end of your driveway so it is visible to motorists. This should only be placed out during times when kids are actually outside playing in the yard. By having it out all the time, it will reduce its effectiveness. Studies have shown that when used properly, it usually aids in the reduction of vehicle speeds.



Photo of Step 2 Kid Alert

- Continue to work with your neighbors to park your cars on either side of the street in a staggered fashion as to reduce the openness of the roadway while still allowing for the safe passage of emergency response vehicles (i.e. Police, Ambulance, Fire Engine). This measure physically narrows the roadway making the motorist slow down to negotiate by the parked vehicles.
- The neighborhood could also reach out to the Police Department to see if they can place their mobile “Your Speed Is” indicator sign on Bonham Road Avenue a couple of times throughout the year.

Cc: Select Board

Attachments: Bonham Road Locus Map
Bonham Road Neighborhood Buffer Map
Combined Speed Statistics Report (STA 6+59)
Traffic Volume Report (STA 6+59)
Combined Speed Statistics Report (STA 17+99)
Traffic Volume Report (STA 17+99)



**BONHAM ROAD
REQUEST #2021-003
LOCUS MAP**



TOWN OF DEDHAM, MASSACHUSETTS



**BUFFER MAP
BONHAM ROAD NEIGHBORHOOD
NOVEMBER 2021**





Town of Dedham Engineering Department

55 River Street
Dedham, MA 02026
781-751-9350

Site Code: 0000010
Station ID: STA 6+59
Location 1: On Utility Pole In Front
Location 2: Of #69 Bonham Road
Location 3:
Location 4:
Direction: Combined

Comment 1:
Comment 2:
Comment 3:
Comment 4:
Latitude: 0.000000
Longitude: 0.000000

10/12/2021	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	0	0	1	1	0	0	0	0	0	0	0	0	2
11:00	2	5	7	8	4	0	0	0	0	0	0	0	26
12:00 PM	0	1	6	12	3	0	0	0	0	0	0	0	22
1:00	4	5	9	20	4	0	0	0	0	0	0	0	42
2:00	0	2	10	18	4	2	0	0	0	0	0	0	36
3:00	0	4	11	5	1	0	0	0	0	0	0	0	21
4:00	2	1	15	13	3	1	0	0	0	0	0	0	35
5:00	4	3	14	12	8	0	1	0	0	0	0	0	42
6:00	1	4	15	16	2	2	0	0	0	0	0	0	40
7:00	1	6	4	9	2	0	0	0	0	0	0	0	22
8:00	0	1	2	3	0	0	0	0	0	0	0	0	6
9:00	0	1	4	5	0	0	0	0	0	0	0	0	10
10:00	0	1	2	0	0	0	0	0	0	0	0	0	3
11:00	0	1	2	0	0	0	0	0	0	0	0	0	3
Total	14	35	102	122	31	5	1	0	0	0	0	0	310



Town of Dedham Engineering Department

55 River Street
Dedham, MA 02026
781-751-9350

Site Code: 0000010
Station ID: STA 6+59
Location 1: On Utility Pole In Front
Location 2: Of #69 Bonham Road
Location 3:
Location 4:
Direction: Combined

Comment 1:
Comment 2:
Comment 3:
Comment 4:
Latitude: 0.000000
Longitude: 0.000000

10/13/2021	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	0	3	1	1	0	0	0	0	0	0	0	5
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	1	0	0	0	0	0	0	0	0	1
3:00	0	0	0	1	0	0	0	0	0	0	0	0	1
4:00	0	0	3	2	0	0	0	0	0	0	0	0	5
5:00	0	0	1	2	0	0	0	0	0	0	0	0	3
6:00	0	2	9	11	4	1	1	0	0	0	0	0	28
7:00	1	2	6	9	7	0	0	0	0	0	0	0	25
8:00	0	1	4	6	2	0	0	0	0	0	0	0	13
9:00	0	2	4	4	4	0	0	0	0	0	0	0	14
10:00	2	9	19	3	0	0	0	0	0	0	0	0	33
11:00	1	3	12	8	1	0	0	0	0	0	0	0	25
12:00 PM	6	11	11	4	1	0	0	0	0	0	0	0	33
1:00	6	11	15	2	0	0	0	0	0	0	0	0	34
2:00	2	0	20	12	3	1	0	0	0	0	0	0	38
3:00	0	14	8	18	2	0	0	0	0	0	0	0	42
4:00	5	0	14	21	5	1	0	0	0	0	0	0	46
5:00	3	3	12	13	1	0	0	0	0	0	0	0	32
6:00	0	0	17	20	6	2	0	0	0	0	0	0	45
7:00	1	0	6	11	3	2	0	0	0	0	0	0	23
8:00	1	1	5	9	1	0	0	0	0	0	0	0	17
9:00	0	1	2	3	0	0	0	0	0	0	0	0	6
10:00	1	1	2	1	0	0	0	0	0	0	0	0	5
11:00	0	0	1	0	0	0	0	0	0	0	0	0	1
Total	29	61	174	162	41	7	1	0	0	0	0	0	475



Town of Dedham Engineering Department

55 River Street
Dedham, MA 02026
781-751-9350

Site Code: 00000010
 Station ID: STA 6+59
 Location 1: On Utility Pole In Front
 Location 2: Of #69 Bonham Road
 Location 3:
 Location 4:
 Direction: Combined

Comment 1:
 Comment 2:
 Comment 3:
 Comment 4:
 Latitude: 0.000000
 Longitude: 0.000000

10/14/2021	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	1	0	0	0	0	0	0	0	0	1
2:00	0	0	0	0	1	0	0	0	0	0	0	0	1
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	1	1	1	0	0	0	0	0	0	0	3
5:00	0	0	5	1	0	0	0	0	0	0	0	0	6
6:00	1	3	8	15	1	0	2	0	0	0	0	0	30
7:00	0	2	8	14	5	1	0	0	0	0	0	0	30
8:00	2	3	7	8	9	0	3	0	0	0	0	0	32
9:00	0	5	14	10	2	0	0	0	0	0	0	0	31
10:00	3	6	9	7	1	1	0	0	0	0	0	0	27
11:00	2	4	7	8	0	2	0	0	0	0	0	0	23
12:00 PM	1	4	12	11	5	0	0	0	0	0	0	0	33
1:00	2	4	4	7	3	0	0	0	0	0	0	0	20
2:00	2	3	12	20	6	0	0	0	0	0	0	0	43
3:00	0	13	19	13	2	1	2	0	0	0	0	0	50
4:00	2	3	19	17	2	0	1	0	0	0	0	0	44
5:00	3	7	17	12	5	2	0	0	0	0	0	0	46
6:00	2	9	17	17	3	1	0	0	0	0	0	0	49
7:00	1	0	10	6	3	0	0	0	0	0	0	0	20
8:00	0	1	5	5	0	0	0	0	0	0	0	0	11
9:00	0	0	8	6	1	0	0	0	0	0	0	0	15
10:00	0	0	2	0	2	1	0	0	0	0	0	0	5
11:00	0	1	1	1	2	0	0	0	0	0	0	0	5
Total	21	68	185	180	54	9	8	0	0	0	0	0	525



Town of Dedham Engineering Department

55 River Street
Dedham, MA 02026
781-751-9350

Site Code: 0000010
 Station ID: STA 6+59
 Location 1: On Utility Pole In Front
 Location 2: Of #69 Bonham Road
 Location 3:
 Location 4:
 Direction: Combined

Comment 1:
 Comment 2:
 Comment 3:
 Comment 4:
 Latitude: 0.000000
 Longitude: 0.000000

10/15/2021	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH MPH MPH MPH MPH MPH MPH MPH MPH MPH MPH MPH													
12:00 AM	0	0	0	1	1	0	0	1	0	0	0	0	3
1:00	0	0	0	0	1	0	0	0	0	0	0	0	1
2:00	0	0	0	0	1	0	0	0	0	0	0	0	1
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	1	0	0	0	0	0	0	0	0	1
5:00	0	0	1	3	2	0	0	0	0	0	0	0	6
6:00	0	2	11	6	4	4	1	0	0	0	0	0	28
7:00	2	1	8	11	5	0	0	0	0	0	0	0	27
8:00	1	0	11	19	3	2	0	0	0	0	0	0	36
9:00	2	1	13	6	1	0	0	0	0	0	0	0	23
10:00	0	2	7	11	4	0	0	0	0	0	0	0	24
11:00	3	3	4	14	2	1	0	0	0	0	0	0	27
12:00 PM	1	2	7	9	2	0	0	0	0	0	0	0	21
1:00	3	2	5	11	2	0	0	0	0	0	0	0	23
2:00	1	0	14	19	2	1	0	0	0	0	0	0	37
3:00	2	1	2	1	2	0	0	0	0	0	0	0	8
4:00	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	0
Total	15	14	83	112	32	8	1	1	0	0	0	0	266
Grand Total	79	178	544	576	158	29	11	1	0	0	0	0	1576
Stats		Percentile	15th	50th	85th	95th							
		Speed	19.9	24.9	29.9	32.9							
	Mean Speed (Average)		24.5										
	10 MPH Pace Speed		20-29										
	Number in Pace		1112										
	Percent in Pace		70.6%										
	Number > 25 MPH		775										
	Percent > 25 MPH		49.2%										



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55 River Street
Dedham, MA 02026
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Site Code: 0000010
Station ID: STA 6+59
Location 1: On Utility Pole In Front
Location 2: Of #69 Bonham Road
Location 3:
Location 4:

Comment 1:
Comment 2:
Comment 3:
Comment 4:
Latitude: 0.000000
Longitude: 0.000000

10/11/2021 Time	Monday		Tuesday		Wednesday		Thursday		Friday		Weekday Average		Saturday		Sunday	
	South, 1	North, 2	South, 1	North, 2	South, 1	North, 2	South, 1	North, 2	South, 1	North, 2	South, 1	North, 2	South, 1	North, 2	South, 1	North, 2
12:00 AM	*	*	*	*	4	1	0	0	1	2	2	1	*	*	*	*
1:00	*	*	*	*	0	0	0	1	1	0	0	0	*	*	*	*
2:00	*	*	*	*	0	1	0	1	0	1	0	1	*	*	*	*
3:00	*	*	*	*	0	1	0	0	0	0	0	0	*	*	*	*
4:00	*	*	*	*	2	3	1	2	0	1	1	2	*	*	*	*
5:00	*	*	*	*	1	2	3	3	0	6	1	4	*	*	*	*
6:00	*	*	*	*	10	18	11	19	10	18	10	18	*	*	*	*
7:00	*	*	*	*	12	13	11	19	12	15	12	16	*	*	*	*
8:00	*	*	*	*	5	8	12	20	18	18	12	15	*	*	*	*
9:00	*	*	*	*	3	11	12	19	11	12	9	14	*	*	*	*
10:00	*	*	1	1	13	20	12	15	11	13	9	12	*	*	*	*
11:00	*	*	16	10	12	13	11	12	17	10	14	11	*	*	*	*
12:00 PM	*	*	9	13	13	20	18	15	11	10	13	14	*	*	*	*
1:00	*	*	16	26	16	18	11	9	13	10	14	16	*	*	*	*
2:00	*	*	23	13	21	17	27	16	15	22	22	17	*	*	*	*
3:00	*	*	12	9	19	23	26	24	6	2	16	14	*	*	*	*
4:00	*	*	19	16	23	23	28	16	*	*	23	18	*	*	*	*
5:00	*	*	20	22	12	20	17	29	*	*	16	24	*	*	*	*
6:00	*	*	19	21	27	18	25	24	*	*	24	21	*	*	*	*
7:00	*	*	15	7	12	11	12	8	*	*	13	9	*	*	*	*
8:00	*	*	4	2	5	12	7	4	*	*	5	6	*	*	*	*
9:00	*	*	8	2	3	3	10	5	*	*	7	3	*	*	*	*
10:00	*	*	2	1	3	2	4	1	*	*	3	1	*	*	*	*
11:00	*	*	3	0	1	0	2	3	*	*	2	1	*	*	*	*
Total	0	0	167	143	217	258	260	265	126	140	228	238	0	0	0	0
Day	0		310		475		525		266		466		0		0	
AM Peak			11:00	11:00	10:00	10:00	8:00	8:00	8:00	6:00	11:00	6:00				
Volume			16	10	13	20	12	20	18	18	14	18				
PM Peak			2:00	1:00	6:00	3:00	4:00	5:00	2:00	2:00	6:00	5:00				
Volume			23	26	27	23	28	29	15	22	24	24				
Comb Total	0		310		475		525		266		466		0		0	
ADT		ADT: 499		AADT: 499												



Town of Dedham Engineering Department

55 River Street
Dedham, MA 02026
781-751-9350

Site Code: 0000005
 Station ID: STA 17+99
 Location 1: On Utility Pole In Front
 Location 2: Of #158 Bonham Road
 Location 3:
 Location 4:
 Direction: Combined

Comment 1:
 Comment 2:
 Comment 3:
 Comment 4:
 Latitude: 0.000000
 Longitude: 0.000000

10/12/2021	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	2	4	2	2	0	0	0	0	0	0	0	0	10
12:00 PM	3	5	6	2	1	0	0	0	0	0	0	0	17
1:00	2	4	1	4	2	0	0	0	0	0	0	0	13
2:00	2	1	9	6	0	2	0	0	0	0	0	0	20
3:00	4	4	6	3	1	1	0	0	0	0	0	0	19
4:00	1	5	10	5	2	0	0	0	0	0	0	0	23
5:00	9	5	3	3	0	1	0	0	0	0	0	0	21
6:00	1	2	4	1	1	0	0	0	0	0	0	0	9
7:00	1	0	4	2	0	1	0	0	0	0	0	0	8
8:00	0	0	4	1	0	0	0	0	0	0	0	0	5
9:00	1	0	1	3	0	0	0	0	0	0	0	0	5
10:00	1	0	2	0	2	0	0	0	0	0	0	0	5
11:00	0	0	1	0	0	0	0	0	0	0	0	0	1
Total	27	30	53	32	9	5	0	0	0	0	0	0	156



Town of Dedham Engineering Department

55 River Street
Dedham, MA 02026
781-751-9350

Site Code: 00000005
 Station ID: STA 17+99
 Location 1: On Utility Pole In Front
 Location 2: Of #158 Bonham Road
 Location 3:
 Location 4:
 Direction: Combined

Comment 1:
 Comment 2:
 Comment 3:
 Comment 4:
 Latitude: 0.000000
 Longitude: 0.000000

10/13/2021	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	0	1	0	0	0	0	0	0	0	0	0	1
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	1	1	0	0	0	0	0	0	0	0	0	0	2
5:00	1	0	0	1	0	0	0	0	0	0	0	0	2
6:00	2	1	2	0	0	1	0	0	0	0	0	0	6
7:00	3	1	1	3	2	0	0	0	0	0	0	0	10
8:00	2	3	4	2	0	1	0	0	0	0	0	0	12
9:00	0	2	1	4	0	0	0	0	0	0	0	0	7
10:00	2	5	6	2	0	0	0	0	0	0	0	0	15
11:00	2	2	7	10	0	0	0	0	0	0	0	0	21
12:00 PM	1	1	6	2	2	0	0	0	0	0	0	0	12
1:00	2	3	6	4	0	1	1	0	0	0	0	0	17
2:00	6	6	5	2	2	1	0	0	0	0	0	0	22
3:00	2	3	6	3	1	0	0	0	0	0	0	0	15
4:00	5	2	12	4	0	0	0	0	0	0	0	0	23
5:00	3	3	4	2	1	0	0	0	0	0	0	0	13
6:00	1	5	4	2	0	0	0	0	0	0	0	0	12
7:00	1	0	8	1	0	0	0	0	0	0	0	0	10
8:00	0	1	3	1	0	0	0	0	0	0	0	0	5
9:00	0	0	1	1	0	0	0	0	0	0	0	0	2
10:00	0	1	0	0	0	0	0	0	0	0	0	0	1
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	34	40	77	44	8	4	1	0	0	0	0	0	208



Town of Dedham Engineering Department

55 River Street
Dedham, MA 02026
781-751-9350

Site Code: 00000005
 Station ID: STA 17+99
 Location 1: On Utility Pole In Front
 Location 2: Of #158 Bonham Road
 Location 3:
 Location 4:
 Direction: Combined

Comment 1:
 Comment 2:
 Comment 3:
 Comment 4:
 Latitude: 0.000000
 Longitude: 0.000000

10/14/2021	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	1	0	0	0	0	0	0	0	0	0	0	1
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	1	0	0	0	0	0	0	0	0	0	0	0	1
5:00	4	2	1	0	0	0	0	0	0	0	0	0	7
6:00	3	5	2	2	0	1	0	0	0	0	0	0	13
7:00	3	1	2	3	1	0	0	0	0	0	0	0	10
8:00	6	4	4	4	1	0	0	0	0	0	0	0	19
9:00	0	1	4	2	0	0	0	0	0	0	0	0	7
10:00	3	0	3	7	1	0	0	0	0	0	0	0	14
11:00	4	0	5	7	0	0	0	0	0	0	0	0	16
12:00 PM	2	2	2	3	0	0	0	0	0	0	0	0	9
1:00	1	1	1	4	2	0	0	0	0	0	0	0	9
2:00	6	8	7	2	0	0	0	0	0	0	0	0	23
3:00	5	5	6	2	1	0	0	0	0	0	0	0	19
4:00	5	6	3	5	0	0	0	0	0	0	0	0	19
5:00	4	10	8	0	0	0	0	0	0	0	0	0	22
6:00	3	2	4	3	0	0	0	0	0	0	0	0	12
7:00	3	1	6	1	0	0	0	0	0	0	0	0	11
8:00	2	1	2	3	0	0	0	0	0	0	0	0	8
9:00	1	3	5	2	0	0	0	0	0	0	0	0	11
10:00	0	2	0	0	1	0	0	0	0	0	0	0	3
11:00	0	0	0	0	1	0	0	0	0	0	0	0	1
Total	56	55	65	50	8	1	0	0	0	0	0	0	235



Town of Dedham Engineering Department

55 River Street
Dedham, MA 02026
781-751-9350

Site Code: 00000005
Station ID: STA 17+99
Location 1: On Utility Pole In Front
Location 2: Of #158 Bonham Road
Location 3:
Location 4:
Direction: Combined

Comment 1:
Comment 2:
Comment 3:
Comment 4:
Latitude: 0.000000
Longitude: 0.000000

10/15/2021	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	0	0	0	2	0	0	0	0	0	0	0	2
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	1	0	0	0	0	0	0	0	0	0	0	0	1
5:00	1	0	1	0	0	0	0	0	0	0	0	0	2
6:00	4	1	2	2	1	0	0	0	0	0	0	0	10
7:00	3	0	3	2	0	1	0	0	0	0	0	0	9
8:00	1	5	4	5	1	0	0	0	0	0	0	0	16
9:00	1	2	9	3	0	0	0	0	0	0	0	0	15
10:00	1	2	5	3	1	0	0	0	0	0	0	0	12
11:00	3	6	2	3	1	0	0	0	0	0	0	0	15
12:00 PM	1	3	4	3	1	0	0	0	0	0	0	0	12
1:00	1	2	3	3	1	0	0	0	0	0	0	0	10
2:00	2	6	5	3	0	0	0	0	0	0	0	0	16
3:00	1	2	4	0	0	0	0	0	0	0	0	0	7
4:00	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	0
Total	20	29	42	27	8	1	0	0	0	0	0	0	127
Grand Total	137	154	237	153	33	11	1	0	0	0	0	0	726
Stats		Percentile	15th	50th	85th	95th							
		Speed	13.9	21.9	27.9	30.9							
	Mean Speed (Average)		20.4										
	10 MPH Pace Speed		16-25										
	Number in Pace		391										
	Percent in Pace		53.9%										
	Number > 25 MPH		198										
	Percent > 25 MPH		27.3%										



Town of Dedham Engineering Department

55 River Street
Dedham, MA 02026
781-751-9350

Site Code: 00000005
Station ID: STA 17+99
Location 1: On Utility Pole In Front
Location 2: Of #158 Bonham Road
Location 3:
Location 4:

Comment 1:
Comment 2:
Comment 3:
Comment 4:
Latitude: 0.000000
Longitude: 0.000000

10/11/2021	Monday		Tuesday		Wednesday		Thursday		Friday		Weekday Average		Saturday		Sunday	
Time	North, 1	South, 2	North, 1	South, 2	North, 1	South, 2	North, 1	South, 2	North, 1	South, 2	North, 1	South, 2	North, 1	South, 2	North, 1	South, 2
12:00 AM	*	*	*	*	1	0	0	0	1	1	1	0	*	*	*	*
1:00	*	*	*	*	0	0	0	0	0	0	0	0	*	*	*	*
2:00	*	*	*	*	0	0	1	0	0	0	0	0	*	*	*	*
3:00	*	*	*	*	0	0	0	0	0	0	0	0	*	*	*	*
4:00	*	*	*	*	2	0	1	0	1	0	1	0	*	*	*	*
5:00	*	*	*	*	2	0	5	2	2	0	3	1	*	*	*	*
6:00	*	*	*	*	5	1	10	3	10	0	8	1	*	*	*	*
7:00	*	*	*	*	8	2	7	3	5	4	7	3	*	*	*	*
8:00	*	*	*	*	6	6	8	11	9	7	8	8	*	*	*	*
9:00	*	*	*	*	7	0	4	3	10	5	7	3	*	*	*	*
10:00	*	*	*	*	9	6	9	5	4	8	7	6	*	*	*	*
11:00	*	*	4	6	8	13	9	7	7	8	7	8	*	*	*	*
12:00 PM	*	*	11	6	7	5	4	5	4	8	6	6	*	*	*	*
1:00	*	*	6	7	8	9	4	5	5	5	6	6	*	*	*	*
2:00	*	*	9	11	8	14	9	14	8	8	8	12	*	*	*	*
3:00	*	*	6	13	4	11	4	15	4	3	4	10	*	*	*	*
4:00	*	*	6	17	9	14	8	11	*	*	8	14	*	*	*	*
5:00	*	*	10	11	4	9	7	15	*	*	7	12	*	*	*	*
6:00	*	*	5	4	4	8	5	7	*	*	5	6	*	*	*	*
7:00	*	*	3	5	2	8	3	8	*	*	3	7	*	*	*	*
8:00	*	*	0	5	2	3	2	6	*	*	1	5	*	*	*	*
9:00	*	*	1	4	0	2	4	7	*	*	2	4	*	*	*	*
10:00	*	*	1	4	0	1	1	2	*	*	1	2	*	*	*	*
11:00	*	*	0	1	0	0	1	0	*	*	0	0	*	*	*	*
Total	0	0	62	94	96	112	106	129	70	57	100	114	0	0	0	0
Day	0		156		208		235		127		214		0		0	
AM Peak			11:00	11:00	10:00	11:00	6:00	8:00	6:00	10:00	6:00	8:00				
Volume			4	6	9	13	10	11	10	8	8	8				
PM Peak			12:00 PM	4:00	4:00	2:00	2:00	3:00	2:00	12:00 PM	2:00	4:00				
Volume			11	17	9	14	9	15	8	8	8	14				
Comb Total	0		156		208		235		127		214		0		0	
ADT		ADT: 222		AADT: 222												