

## Primrose Hill Road at Lakeview Avenue Intersection Study



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## Introduction

As part of the its Unified Planning Work Program (UPWP), the Northern Middlesex Council of Governments (NMCOG) has performed an intersection analysis at Lakeview Avenue and Primrose Hill Road. This intersection, while not currently listed as a high crash intersection, has been identified as an area of concern for the Town, particularly with regard to pedestrian safety and vehicular controls. Following the Town's work on its Master Plan and subsequent Complete Streets Prioritization Plan, the Town identified a Complete Streets project need on Lakeview Avenue between Primrose Hill Road and Mammoth Road, with an initial estimated cost of $\$ 2$ million. A traffic operations and safety assessment for the intersection has been undertaken by NMCOG. This assessment focuses on identifying probable causes for crashes that have historically occurred at the location and on outlining mitigation strategies to improve overall conditions at the intersection. Map 1 shows the location of the intersection within Dracut.

## Methodology

Information and analysis provided for the study area includes the following:

- An assessment of Existing Conditions (geometry, land use, functional classification, pedestrian amenities, etc.);
- Turning Movement Counts and Data Collection;
- Intersection Capacity Analysis and Level of Service;
- Crash Data Analysis;
- Traffic Signal Warrant Analysis; and
- Improvement Recommendations.

The evaluation process involved inventorying the physical characteristics of

Map 1: Location of Study Intersection within Town of Dracut
 the intersection to obtain data on operational aspects such as roadway widths, lane widths, parking, and lane configurations. Manual turning movement counts were collected during peak travel periods. Capacity analysis calculations, based on the turning movement count data, were performed to determine existing operational levels of service (LOS) during each of the peak travel periods. Crash data was analyzed to identify the types of crashes most prevalent and to evaluate factors, which may have contributed to such crashes. Mitigating strategies were then assessed, in order to formulate the recommendations for consideration by the Town.

## Assessment of Existing Conditions

The intersection of Lakeview Avenue and Primrose Hill Road forms a 3-way, stop-controlled T intersection at the terminus of Primrose Hill Road, as shown in Map 2. A stop sign and a yellow "Caution Trucks Exiting Building" sign are located on a signpost on the western side (right side) of the Primrose Hill Road terminus. Lakeview Avenue has no sign control or turning lanes at the intersection and is free flow.

Map 2: Lakeview Avenue and Primrose Hill Road Intersection Study Area
The intersection is in a mixed-use section of Lakeview Avenue to the east of the Beaver Brook and the commercial center of Dracut's Collinsville neighborhood. A commercial use (Mercier Electric \& Communications) is adjacent to the intersection on the northwest corner. A singlefamily residential use is adjacent to the northeast, and another commercial property, a florist and garden center (Seasons Florist \& Garden), to the
 south. A crosswalk intersects Lakeview Avenue immediately to the west of Primrose Hill Road and connects to the garden center's front parking lot on the southern side of Lakeview Avenue.

The garden center's front parking area has no curb at the crosswalk or at any other point. Instead, the front parking area has approximately 115 feet of open pavement, all directly accessing Lakeview Avenue with no traffic control, in addition to a separate driveway accessing the rear of the lot. A utility pole is located at the edge of the parking


Photo 1: Lakeview Avenue WB looking at Primrose Hill Road lot, adjacent to Lakeview Avenue and directly opposite the terminus of Primrose Hill Road. Despite the lack of curbing for
the garden center's parking lot, the utility poll located opposite Primrose Hill Road impedes eastbound vehicles from right-hand passing of vehicles turning left onto Primrose Hill Road.

Lakeview Avenue, an urban minor arterial, runs in a general northwest/southeast direction between Lowell and Nashua Road in northwest Dracut, and passes Dracut School Complex approximately 8 miles east of the study area. The Dracut School Complex includes Dracut High School, Dracut Middle School, and two elementary schools. The roadway is predominately twolane, including at the study area. Approximately .4 miles east of the study area the roadway expands to include a two-way center turn lane between Goodhue Avenue and Tennis Plaza Road that encompasses the entire length of the School Complex.

Lakeview Avenue is a mix of commercial and residential uses to the east, with most lot sizes ranging from one-tenth of an acre to over an acre within a quarter mile east of the intersection. Light industrial and commercial uses take place in former mill buildings along the Beaver Brook west of the intersection, with Collinsville's mixed-use commercial further to the west.

Primrose Hill Road, a two-lane collector road with no sidewalk or shoulder, runs north/south from the intersection of Lakeview Avenue and then east/west, and connects Lakeview Avenue to New Boston Road. Primrose Hill Road is almost entirely residential its full length from the intersection with Lakeview Avenue to its intersection with New Boston Road, one mile away.


Photo 2: Lakeview Avenue EB looking at the Crosswalk at Primrose Hill Road

Lakeview Avenue is 45 feet wide and has a speed limit of 30 mph at the study area intersection. Traffic volumes in 2019 show an ADT of around 14,500 vehicles per day on Lakeview Avenue. Primrose Hill Road, generally 22 feet in width near the intersection, has an average daily traffic volume of approximately 4,300 vehicles per day just north of the intersection.

A sidewalk is located on the entire southern side of Lakeview Avenue from the study area to the School Complex, and continues west from the study area into the commercial center of the Collinsville neighborhood. The northern side of Lakeview Avenue has no sidewalk immediately to the east of Primrose Hill Road. Instead, there is a painted shoulder in front of the adjacent parcel that connects to the incomplete sidewalk system on the northern side of Lakeview Avenue between the study area and the School Complex. A sidewalk is present on the northern side of Lakeview Avenue immediately to the west of Primrose Hill Road and continues to the commercial center of the Collinsville neighborhood. Primrose Hill Road has no sidewalk or
painted shoulder on either side for its entire length, and bicyclists and pedestrians must share the roadway with vehicles. A sidewalk funded by a MassDOT Safe Routes to School (SRTS) grant is proposed for Lakeview Avenue addressing sidewalk gaps from Primrose Hill Road to beyond the School Complex, with construction anticipated to begin in 2023. The project's construction advertisement date is November 22, 2022 and is currently programmed in FFY 2023 of the Northern Middlesex Transportation Improvement Program (TIP). The proposed project also includes a new striped crosswalk across Primrose Hill Road connecting the proposed sidewalk along the northern side of Lakeview Avenue.


Photo 3: Primrose Hill Road Southbound Approach to Lakeview Avenue

The Lowell Regional Transit Authority (LRTA) provides public transportation services to the area. On weekdays and Saturdays, the \#10 Dracut / Tyngsborough bus route runs between Lowell's Gallagher Station along Lakeview Avenue to and from the New Hampshire State Line via Frost Road in Tyngsborough. A sign for a designated bus stop is located on the eastbound side of Lakeview Avenue approximately 100 feet west of the intersection crosswalk.

## Turning Movement Counts and Data Collection

Manual turning movement counts (TMC) were collected during peak periods of the day on Tuesday, November 17, 2020 (6:45-9:00 AM) and on Wednesday, November 18, 2020 (4:006:00 PM). In the AM peak hour (7:45-8:45), 1,178 vehicles entered the intersection. A total of 1,653 vehicles entered the intersection during the evening peak hour (4:30-5:30 PM). Figure 1 summarizes all turning movement counts associated with the intersection during the AM peak hour and PM peak hour.

Pedestrians and bicycles were counted as well. It was noted that 1 bicycle and 16 pedestrians travelled through this intersection during the AM peak period and one bicycle and 13 pedestrians crossed the intersection during the PM peak period.

## Traffic Operations and Level of

 ServiceTraffic operations at the intersection were conducted using accepted traffic analysis techniques using Synchro 11. The level of service (LOS) was calculated for the morning and evening peak travel

Figure 1: Manual Turning Movement Counts for Lakeview Avenue at Primrose Hill Road in Dracut, AM Peak Hour (PM Peak Hour)
 periods. Level of Service (LOS), as defined within in the Institute of Traffic Engineer's Highway Capacity Manual, is used to qualitatively describe general operating conditions based on performance measures such as control delay, speed and travel time, freedom to maneuver, traffic interruptions, and comfort and convenience. While LOS does not tell the full picture of roadway performance, it is often the standard measure for which operational conditions are reported. There are six levels of service ranging from A (free flow conditions) to F (highly delayed conditions). LOS takes into account factors such as traffic volume, roadway capacity, speed, roadway grade, traffic control devices, geometry, and delay. LOS A through D is considered acceptable in an urbanized area such as Dracut, while LOS E and F indicate delay and congestion warranting mitigation.

Level of Service (LOS) for a stop-controlled intersection such as Lakeview Avenue and Primrose Hill road is determined by the computed or measured control delay. Control delay is a measure of driver discomfort, frustration, fuel consumption and increased travel time. As control delay increases, LOS worsens. Control delay at an unsignalized intersection is the result of vehicle delay associated with a traffic control device. Control delay includes initial deceleration delay, stopped delay, queue move up time, and final acceleration delay.

LOS is determined for each minor street movement, as well as for major street left turns, using criteria described in Table 1. LOS is not defined for the major street approaches or for the overall intersection for three primary reasons: (1) major street through vehicles are assumed to experience zero delay; (2) the disproportionate number of major street through vehicles at a typical two-way stop-controlled intersection skews the weighted average of all movements, resulting in a very low overall average delay for all vehicles; and (3) the resulting low delay can mask important LOS deficiencies for minor movements.

Table 1: Level of Service Criteria for Unsignalized Intersections

| LOS | Control Delay per Vehicle (s/veh) |
| :---: | :---: |
| A | $\leq 10$ |
| B | $>10-15$ |
| C | $>15-25$ |
| D | $>25-35$ |
| E | $>35-50$ |
| F | $>50$ |

*Highway capacity Manual; Transportation Research Board; Washington DC; 2010; Chapter 19.

The results of the traffic operations analysis for Lakeview Avenue and Primrose Hill Road are provided in Table 2 below. The average control delay for each vehicle, as well as the critical movement level of service for each intersection, is shown for the peak travel period during a typical weekday.

Table 2: Existing Peak Hour Level of Service

| Intersection | Minor Street Movement ${ }^{1}$ | AM <br> Type of <br> Control | Control <br> Delay <br> $(\mathrm{sec} / \mathrm{veh})$ | AM <br> Peak <br> LOS | PM <br> Control <br> Delay <br> $(\mathrm{sec} / \mathrm{veh})$ | PM <br> Peak <br> LOS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Primrose Hill Road <br> Srimrose Hill Road | Stop | 26.5 | D | 72.4 | F |
|  | Lakeview Avenue Eastbound <br> Left Turns | Yield | 8.8 | A | 10.5 | B |

The analysis shows that the minor street movement controlled by the stop sign experiences long delays, leading to poor levels of service during the PM peak hour. This is likely due to lack of gaps in the flow of traffic along Lakeview Avenue in the evening.

## Crash Data Analysis

This intersection, while not currently listed as a regional high crash intersection, has been identified as an area of concern for the Town, particularly with regard to pedestrian safety and vehicular controls. Crash data was compiled from the MassDOT traffic safety database. The data included vehicular crashes that occurred at or near the intersection, based on the most recent five years of data available, from 2014 to 2018. A crash summary is provided in Table 3, detailing the type of crash, severity, time of day, and surface conditions.

|  | Year |  |  |  |  |  | Crash Rate |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Location | 2014 | 2015 | 2016 | 2017 | 2018 | Total | MassDOT Average | Calculated | Significant? |
| Lakeview <br> Avenue <br> at <br> Primrose <br> Hill Road | 5 | 4 | 1 | 0 | 3 | 13 | 0.57 | 0.43 | No |
|  | Type |  |  |  |  |  | Time of Day |  |  |
|  | Angle | Rear End | Head On | Single <br> Vehicle <br> Crash | SS, Same Direction |  | AM Peak | PM Peak | Off Peak |
|  | 3 | 6 | 1 | 2 |  |  | 1 | 4 | 8 |
|  | Pavement Conditions |  |  |  |  |  | Severity |  |  |
|  | Dry | Wet | Snow/Ice | Other |  |  | PDO | Injury | Fatal |
|  | 12 | 0 | 1 | 0 |  |  | 8 | 5 | 0 |

There were thirteen (13) reported crashes at the intersection during the five-year study period. The majority of these crashes (46\%) were rear end type incidents. Thirty-eight percent (5 crashes) involved injuries, while none were reported fatal. Most crashes occurred during daylight hours (62\%) under clear or cloudy conditions with surface conditions mainly dry (92\%). All crashes at this intersection involved one or more passenger cars, with one incident involving a bicycle but no pedestrian crashes reported.

Crash rates were determined using MassDOT standard procedures. A copy of the crash rate analysis and a description of the calculation procedure is provided in Appendix D of this report. The MassDOT District 4 average crash rate for an unsignalized intersection is 0.57 crashes per million entering vehicles. The crash rate determined for the intersection of Lakeview Avenue and Primrose Hill Road was 0.43 crashes per million entering vehicles, below the MassDOT District 4 average for this type of intersection.

## Sight Distance

Sight distance is determined as the length of roadway ahead that is visible to the driver. Sufficient sight distances at intersections greatly reduce the potential for vehicular conflicts on the roadway. With adequate sight distance, a driver has the ability to judge a conflict and react to the situation. Stopping sight distance, measured on the major street is the measurement of the amount of visible roadway needed for a driver to react to a conflict and come to a stop. Intersection sight distance is the amount of roadway that a stopped vehicle at an intersection
can view in either direction. Adequate sight distance allows a motorist to make a decision as when to enter the intersection roadway or cross it. Both stopping sight distance and Intersection sight distance were measured for the Primrose Hill Road


Photo 4: Primrose Hill Road intersection looking West on Lakeview Avenue approach (Table 4). Sight distance on Lakeview Avenue was not measured as it is free flow through the intersection.

As Primrose Hill Road approaches the intersection, a building on the northwest corner clearly hinders sight distance for travelers looking right or to the west. At the stop line, which is set back from the intersection, sight distance was measured to be 153 feet. This is under the required minimums of 290-335 feet. Most drivers will move forward past the stop sign to the edge of Lakeview Avenue to be able to see to the right. This was measured to be 469 feet, above the minimum standard. However this can be detrimental to overall safety in the intersection as cars will be inching out into the intersection before making a decision to maneuver on to Lakeview Avenue.

Table 4: Sight Distance Results for Primrose Hill Road Approach to Lakeview Avenue

| Intersection/Sight Distance Type | Required Minimum Standard (ft)* | Measured Distance (ft) |
| :---: | :---: | :---: |
| Stopping Sight Distance |  |  |
| Primrose Hill Southbound | 250 | >1000 |
| Intersection Sight Distance |  |  |
| Primrose Hill Rd SB looking east | 335 if turning left | >500 |
|  | 290 if turning right or going straight into Garden Center |  |
| Primrose Hill Rd SB looking west from stop line | 335 if turning left | 153 |
|  | 290 if turning right or going straight into Garden Center |  |
| Primrose Hill Rd SB looking west from edge of Lakeview Ave | 335 if turning left | 469 |
|  | 290 if turning right or going straight into Garden Center |  |

*Minimum standards provided by A Policy on Geometric Design of Highways and Streets by American Association of State Highway and Transportation Officials (AASHTO) for a 30 mph design speed.

## Congestion Mitigation Options and Traffic Signal Warrant Analysis

Existing conditions analysis show that the intersection experiences unacceptable delays during the PM peak period of the day. In order to mitigate this congestion, two possible improvement scenarios were analyzed: (1) the installation of an all-way stop control, and (2) the installation of a fully actuated traffic signal.

## All Way Stop Control Guidelines

While there are no standards that must be met to consider an all way stop control intersection, the Manual of Uniform Traffic Control Devices (MUTCD) does have guidance pertaining to the installation decision.
"Multi-way stop control can be useful as a safety measure at intersections if certain traffic conditions exist. Safety concerns associated with multi-way stops include pedestrians, bicyclists, and all road users expecting other road users to stop. Multi-way stop control is used where the volume of traffic on the intersecting roads is approximately equal.

## Guidance:

The decision to install multi-way stop control should be based on an engineering study.

The following criteria should be considered in the engineering study for a multi-way STOP sign installation:
A. Where traffic control signals are justified, the multi-way stop is an interim measure that can be installed quickly to control traffic while arrangements are being made for the installation of the traffic control signal.
B. Five or more reported crashes in a 12-month period that are susceptible to correction by a multi-way stop installation. Such crashes include right-turn and left-turn collisions as well as right-angle collisions.
C. Minimum volumes:

1. The vehicular volume entering the intersection from the major street approaches (total of both approaches) averages at least 300 vehicles per hour for any 8 hours of an average day; and
2. The combined vehicular, pedestrian, and bicycle volume entering the intersection from the minor street approaches (total of both approaches) averages at least 200 units per hour for the same 8 hours, with an average delay to minor-street vehicular traffic of at least 30 seconds per vehicle during the highest hour; but
3. If the 85th-percentile approach speed of the major-street traffic exceeds 40 mph , the minimum vehicular volume warrants are 70 percent of the values provided in Items 1 and 2.
D. Where no single criterion is satisfied, but where Criteria B, C.1, and C. 2 are all satisfied to 80 percent of the minimum values. Criterion C. 3 is excluded from this condition.

Option:
Other criteria that may be considered in an engineering study include:
A. The need to control left-turn conflicts;
B. The need to control vehicle/pedestrian conflicts near locations that generate high pedestrian volumes;
C. Locations where a road user, after stopping, cannot see conflicting traffic and is not able to negotiate the intersection unless conflicting cross traffic is also required to stop; and
D. An intersection of two residential neighborhood collector (through) streets of similar design and operating characteristics where multi-way stop control would improve traffic operational characteristics of the intersection."

## Results of All Way Stop Warrant Analysis

Because these guidelines are not standards that must be met, the all-way stop control scenario can be considered as part of an engineering study.

## Guidelines for Installation of a Traffic Control Signal

To consider a traffic control signal installation, traffic signal warrants are required. Outlined in the MUTCD, these warrants justify the need for a traffic control signal at a particular location. Traffic volumes and safety information were used to analyze whether the intersection of Main Street and Boston Road could consider a traffic signal. This section outlines guidelines and presents a summary of results for each applicable warrant analysis.

The 2009 edition of the Manual of Uniform Traffic Control Devices (MUTCD) states,
"The investigation of the need for a traffic control signal shall include an analysis of factors related to existing operation and safety at the study location and the potential to improve these conditions, and the applicable factors contained in the following traffic signal warrants:

```
Warrant 1: Eight-Hour Vehicular Volume
Warrant 2: Four-Hour Vehicular Volume
Warrant 3: Peak Hour
Warrant 4: Pedestrian Volume
Warrant 5: School Crossing
Warrant 6: Coordinated Signal System
Warrant 7: Crash Experience
Warrant 8: Roadway Network
Warrant 9: Intersection near a Railroad Grade Crossing
```

In this study, Warrants 1, 2, 3 and 7 were analyzed in the justification for installation of a traffic signal at the intersection of Lakeview Avenue and Primrose Hill Road.

## Warrant 1: Eight-Hour Vehicular Volume

The eight-hour vehicular volume warrant considers the traffic volumes throughout the day. Table 5 provides the minimum standards for an intersection in justifying the need for a traffic signal. Condition A satisfies the minimum volume condition, while Condition A is intended for an interrupted flow condition.

The Minimum Vehicular Volume, Condition A, is intended for application at locations where a large volume of intersecting traffic is the principal reason to consider installing a traffic control signal.

The Interruption of Continuous Traffic, Condition B, is intended for application at locations where Condition A is not satisfied and where the traffic volume on a major street is so heavy that traffic on a minor intersecting street suffers excessive delay or conflict in entering or crossing the major street.

It is intended that Warrant 1 be treated as a single warrant. If Condition $A$ is satisfied, then Warrant 1 is satisfied and analyses of Condition B and the combination of Conditions A and B are not needed. Similarly, if Condition $B$ is satisfied, then Warrant 1 is satisfied and an analysis of the combination of Conditions $A$ and $B$ is not needed.

The need for a traffic control signal shall be considered if an engineering study finds that one of the following conditions exist for each of any 8 hours of an average day:
A. The vehicles per hour given in both of the 100 percent columns of Condition A in Table 5 exist on the major-street and the higher-volume minor-street approaches, respectively, to the intersection; or
B. The vehicles per hour given in both of the 100 percent columns of Condition B in Table 5 exist on the major-street and the higher-volume minor-street approaches, respectively, to the intersection.

In applying each condition the major-street and minor-street volumes shall be for the same 8 hours. On the minor street, the higher volume shall not be required to be on the same approach during each of these 8 hours.

|  | Major <br> Volume <br> (Both <br> Apr.) | Minor <br> Volume <br> (One <br> Apr.) | Condition <br> A Major <br> Volume | Condition <br> A Minor <br> Volume | Warrant <br> Condition <br> A Met? | Condition <br> B Major <br> Volume | Condition <br> B Minor <br> Volume | Warrant <br> Condition <br> B Met? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time | E-W | SB |  |  |  |  |  |  |
| 00:01-01:00 | 105 | 14 | 500 | 150 | NO | 750 | 75 | NO |
| 01:00-02:00 | 64 | 5 | 500 | 150 | NO | 750 | 75 | NO |
| 02:00-03:00 | 33 | 3 | 500 | 150 | NO | 750 | 75 | NO |
| 03:00-04:00 | 18 | 3 | 500 | 150 | NO | 750 | 75 | NO |
| 04:00-05:00 | 35 | 1 | 500 | 150 | NO | 750 | 75 | NO |
| 05:00-06:00 | 108 | 15 | 500 | 150 | NO | 750 | 75 | NO |
| $06: 00-07: 00$ | 266 | 43 | 500 | 150 | NO | 750 | 75 | NO |
| 07:00-08:00 | 462 | 104 | 500 | 150 | NO | 750 | 75 | NO |
| $08: 00-09: 00$ | 684 | 135 | 500 | 150 | NO | 750 | 75 | NO |
| 09:00-10:00 | 847 | 127 | 500 | 150 | NO | 750 | 75 | YES |
| 10:00-11:00 | 898 | 98 | 500 | 150 | NO | 750 | 75 | YES |
| 11:00-12:00 | 1008 | 118 | 500 | 150 | NO | 750 | 75 | YES |
| 12:00-13:00 | 1114 | 122 | 500 | 150 | NO | 750 | 75 | YES |
| 13:00-14:00 | 1141 | 131 | 500 | 150 | NO | 750 | 75 | YES |
| 14:00-15:00 | 1089 | 145 | 500 | 150 | NO | 750 | 75 | YES |
| 15:00-16:00 | 1222 | 136 | 500 | 150 | NO | 750 | 75 | YES |
| 16:00-17:00 | 1248 | 194 | 500 | 150 | YES | 750 | 75 | YES |
| 17:00-18:00 | 1274 | 207 | 500 | 150 | YES | 750 | 75 | YES |
| $18: 00-19: 00$ | 1224 | 169 | 500 | 150 | YES | 750 | 75 | YES |
| 19:00-20:00 | 906 | 114 | 500 | 150 | NO | 750 | 75 | YES |
| $20: 00-21: 00$ | 669 | 90 | 500 | 150 | NO | 750 | 75 | NO |
| $21: 00-22: 00$ | 460 | 78 | 500 | 150 | NO | 750 | 75 | NO |
| $22: 00-23: 00$ | 331 | 41 | 500 | 150 | NO | 750 | 75 | NO |
| $23: 00-00: 00$ | 200 | 37 | 500 | 150 | NO | 750 | 75 | NO |
|  |  |  |  |  |  |  |  |  |

Results: Warrant 1, Condition B is satisfied in that for eleven hours of a typical weekday, major street approaches are greater than 750 vehicles per day and the minor street approach totals over 75 vehicles per day.

## Warrant 2: Four-Hour Vehicular Volume

The Four-Hour Vehicular Volume signal warrant conditions are intended to be applied where the volume of intersecting traffic is the principal reason to consider installing a traffic control signal.

The need for a traffic control signal shall be considered if an engineering study finds that, for each of any 4 hours of an average day, the plotted points representing the vehicles per hour on the minor street (total of both approaches) and the corresponding vehicles per hour on the higher-volume minor-street approach (one direction only) all fall above the applicable curve in

Figure 2 for the existing combination of approach lanes. On the minor street, the higher volume shall not be required to be on the same approach during each of these 4 hours."

Figure 2: 4-Hour Traffic Signal Warrant Analysis


Results: Warrant 2 is satisfied with eight hours of a typical weekday experiencing volumes above the warrant thresholds outlined in Figure 2.

## Warrant 3: Peak Hour

The Peak Hour signal warrant is intended for use at a location where traffic conditions are such that for a minimum of 1 hour of an average day, the minor-street traffic suffers undue delay when entering or crossing the major street.

This signal warrant shall be applied only in unusual cases, such as office complexes, manufacturing plants, industrial complexes, or high-occupancy vehicle facilities that attract or discharge large numbers of vehicles over a short time.

The need for a traffic control signal shall be considered if an engineering study finds that the criteria in either of the following two categories are met:
A. If all three of the following conditions exist for the same 1 hour (any four consecutive 15-minute periods) of an average day:
a. The total stopped time delay experienced by the traffic on one minor-street approach (one direction only) controlled by a STOP sign equals or exceeds: 4
vehicle-hours for a one-lane approach or 5 vehicle-hours for a two-lane approach; and
b. The volume on the same minor-street approach (one direction only) equals or exceeds 100 vehicles per hour for one moving lane of traffic or 150 vehicles per hour for two moving lanes; and
c. The total entering volume serviced during the hour equals or exceeds 650 vehicles per hour for intersections with three approaches or 800 vehicles per hour for intersections with four or more approaches.
B. The plotted point representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher-volume minorstreet approach (one direction only) for 1 hour (any four consecutive 15-minute periods) of an average day falls above the applicable curve in Figure 3 for the existing combination of approach lanes.

If this warrant is the only warrant met and a traffic control signal is justified by an engineering study, the traffic control signal may be operated in the flashing mode during the hours that the volume criteria of this warrant are not met.

Figure 3: Traffic Signal Warrant 3B Peak Hour Volume Analysis


Results: Warrant 3B is met because for 3 hours, volumes at the intersection of Lakeview Avenue and Primrose Hill Road are higher than minimum thresholds stated in the warrant. However, this should not justify a signal due to the standard stating that this warrant is reserved for unusual cases where large numbers of vehicles are discharged over a short time.

## Warrant 7: Crash Experience

The crash experience signal warrant is used where frequency and severity of crashes are the principal reasons for installing a traffic signal. An excerpt from the MUTCD explaining the crash experience standard is listed below:

The need for a traffic control signal shall be considered if an engineering study finds that all of the following criteria are met:
A. Adequate trial of alternatives with satisfactory observance and enforcement has failed to reduce the crash frequency; and
B. Five or more reported crashes, of types susceptible to correction by a traffic control signal, have occurred within a 12 month period, each crash involving personal injury or property damage apparently exceeding the applicable requirements for a reportable crash; and
C. For each on any 8 hours of an average day, the vehicles per hour (vph) given in both of the 80 percent columns of Condition A in Table 5 exists on the major street and the higher-volume minor-street approach, respectively, to the intersection. These majorstreet and minor-street volumes shall be for the same eight hours. On the minor street, the higher volume shall not be required to be on the same approach during each of the 8 hours."

Results: Warrant 7 is not met because the number of reported crashes at the intersection of Lakeview Avenue and Primrose Hill Road is lower than the five crash minimum standard stated in the warrant.

## Traffic Operations Results at Lakeview Avenue and Primrose Hill Road with Mitigating

## Scenarios

Table 6 provides the results of the Traffic Operations analysis based on the two traffic control scenarios explored in this section. The All-Way Stop option would benefit those drivers approaching the intersection on Primrose Hill Road during both peak periods. However, it adversely affects the eastbound and westbound approaches on Lakeview Avenue to the point where there are noted unacceptable delays. This option would not involve taking of right of way in that pavement markings and signage would be the only additions to the intersection. The traffic signal scenario mitigates the congested conditions currently seen at the intersection with overall operations at LOS A in the AM and LOS B during the PM peak. Due to the high volumes on Lakeview Avenue, the traffic signal option includes the addition of a left turn lane for eastbound traffic.

Table 6: Traffic Operations with Traffic Control Options

| Traffic Control Option | Minor Street Movement ${ }^{1}$ | Type of Control | AM Control Delay (sec/veh) | $\begin{aligned} & \text { AM } \\ & \text { LOS } \end{aligned}$ | PM Control Delay (sec/veh) | PM Peak |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All Way Stop Control | EB Approach | Stop | 64.7 | F | 12.1 | B |
|  | WB Approach | Stop | 21.1 | C | 18.6 | C |
|  | SB Approach | Stop | 12.0 | B | 23.2 | C |
| Fully Actuated Traffic Signal | EB Approach (with added left turn lane and protected phase) | Traffic Signal | 5.2 | A | 8.9 | A |
|  | WB Approach | Traffic Signal | 11.9 | B | 25.2 | C |
|  | SB Approach | Traffic Signal | 16.5 | B | 36.7 | D |
|  | Complete Intersection | Traffic Signal | 8.9 | A | 19.9 | B |

## Improvement Recommendations

As mentioned, the Dracut Master Plan identifies Lakeview Avenue between Primrose Hill Road and Mammoth Road as a future Complete Streets project, with an estimated cost of $\$ 2$ million. In addition, a sidewalk funded by a Safe Routes to School grant is proposed for Lakeview Avenue addressing sidewalk gaps from Primrose Hill to beyond the School Complex, and construction is anticipated to begin in 2023. As noted above, the construction advertisement date is November 22, 2022 and is programmed in FFY 2023 of the Northern Middlesex Transportation Improvement Program (TIP). The project includes adding a striped crosswalk across Primrose Hill Road at the intersection with Lakeview Avenue. In addition to the projects already underway, the following recommendations should be considered.

1. Consider Installation of a fully actuated traffic signal at the intersection. With this, add an exclusive left turn lane for eastbound Lakeview Avenue vehicles accessing Primrose Hill Road. Lakeview Avenue is 45 feet wide at the intersection and can accommodate three 11foot wide lanes with six feet on either side for shoulders and/or bike lanes.
2. With addition of a traffic signal, crosswalks and pedestrian facilities should be installed throughout the intersection, including sidewalks connecting to the SRTS and Complete Streets projects. Potential increases in pedestrian activity following sidewalk improvements to the School Complex are likely to result in increased usage at the intersection.
3. Work with the garden center to manage access to parking at their business. The uncontrolled entrance way leads to additional conflict points around the intersection. Consider adding a controlled entrance across from Primrose Hill Road to tie in with a potential traffic signal.
4. There is significant solar glare for eastbound Lakeview Avenue traffic in the morning, which creates a substantial danger for pedestrians using the crosswalk. Install a sign west of the intersection warning drivers to expect morning solar glare. If a signal is not installed, consider installing rapid flashing beacons at the crosswalk.
5. Consider working with MassDOT and NMCOG to initiate a Transportation Improvement Program (TIP) project at this location. This project would be eligible for federal


Photo 5: Example of a Rectangular Rapid Reflecting Beacon at a Crosswalk construction funding, with the Town responsible for design of the project. This project could be developed in coordination with the Lakeview Avenue Complete Streets project listed in the Town's Complete Streets Prioritization Plan.

## Appendix A: Automatic Traffic Recorder Counts and Manual Turning Movement Counts

Northern Middlesex Council of Governments
40 Church St, Suite 200
Lowell, Ma 01852

Location 1: Lakeview Ave East of Primrose Hill Rd Location 2: Dracut, Ma Serial Number: 34575

| $\begin{array}{r} 11 / 9 / 2020 \\ \text { Time } \end{array}$ | Motor Cycles |  <br> Trailers | 2 Axle Long | Buses | $2 \text { Axle } 6$ <br> Tire | 3 Axle Single | 4 Axle Single | <5 AxI Double | 5 Axle Double | $\begin{aligned} & >6 \mathrm{AxI} \\ & \text { Double } \end{aligned}$ | $\begin{gathered} \text { <6 AxI } \\ \text { Multi } \end{gathered}$ | 6 Axle Multi | $\begin{gathered} >6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 1:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 2:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 3:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 4:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 5:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 6:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 7:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 8:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 9:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 11:00 | 4 | 278 | 103 | 4 | 29 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 9 | 430 | 36 |
| 12:00 PM | 8 | 311 | 93 | 4 | 30 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 457 | 36 |
| 1:00 | 5 | 350 | 83 | 3 | 37 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 9 | 490 | 43 |
| 2:00 | 4 | 346 | 82 | 4 | 42 | 1 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 8 | 493 | 53 |
| 3:00 | 7 | 363 | 109 | 16 | 31 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 15 | 544 | 50 |
| 4:00 | 14 | 371 | 93 | 15 | 46 | 2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 25 | 572 | 69 |
| 5:00 | 12 | 416 | 89 | 5 | 49 | 1 | 0 | 5 | 0 | 1 | 0 | 0 | 0 | 14 | 592 | 61 |
| 6:00 | 4 | 410 | 99 | 3 | 32 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 9 | 558 | 36 |
| 7:00 | 1 | 299 | 70 | 0 | 32 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 411 | 34 |
| 8:00 | 1 | 250 | 53 | 0 | 17 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 327 | 19 |
| 9:00 | 4 | 180 | 26 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 224 | 14 |
| 10:00 | 1 | 111 | 24 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 142 | 6 |
| 11:00 | 1 | 63 | 10 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 76 | 2 |
| Total | 66 | 3748 | 934 | 54 | 367 | 10 | 0 | 23 | 4 | 1 | 0 | 0 | 0 | 109 | 5316 | 459 |
| Percent | 1.2\% | 70.5\% | 17.6\% | 1.0\% | 6.9\% | 0.2\% | 0.0\% | 0.4\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% |  | 8.6\% |
| AM Peak | 11:00 | 11:00 | 11:00 | 11:00 | 11:00 | 11:00 |  |  | 11:00 |  |  |  |  | 11:00 | 11:00 | 11:00 |
|  | 4 | 278 | 103 | 4 | 29 | 1 | * | * | 2 | * | * | * | * | 9 | 430 | 36 |
| PM Peak | 4:00 | 5:00 | 3:00 | 3:00 | 5:00 | 12:00 PM |  | 4:00 | 1:00 | 5:00 |  |  |  | 4:00 | 5:00 | 4:00 |
|  | 14 | 416 | 109 | 16 | 49 | 2 | * | 6 | 1 | 1 | * | * | * | 25 | 592 | 69 |

Location 1: Lakeview Ave East of Primrose Hill Rd Location 2: Dracut, Ma Serial Number: 34575

| $\begin{array}{r} \hline 11 / 10 / 2020 \\ \text { Time } \end{array}$ | Motor Cycles |  <br> Trailers | 2 Axle Long | Buses | $2 \text { Axle } 6$ Tire | 3 Axle Single | 4 Axle Single | $<5 \mathrm{AxI}$ Double | 5 Axle Double | $\begin{aligned} & >6 \mathrm{AxI} \\ & \text { Double } \end{aligned}$ | $\begin{gathered} \text { <6 AxI } \\ \text { Multi } \end{gathered}$ | 6 Axle Multi | $\begin{gathered} >6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | 0 | 40 | 6 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 2 |
| 1:00 | 0 | 17 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 |
| 2:00 | 0 | 15 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 |
| 3:00 | 0 | 8 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 1 |
| 4:00 | 0 | 17 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 2 |
| 5:00 | 0 | 54 | 14 | 0 | 6 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 75 | 7 |
| 6:00 | 2 | 117 | 51 | 1 | 10 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 184 | 14 |
| 7:00 | 5 | 246 | 87 | 4 | 42 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 390 | 50 |
| 8:00 | 2 | 371 | 93 | 3 | 49 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 8 | 530 | 56 |
| 9:00 | 4 | 292 | 118 | 6 | 50 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 9 | 484 | 61 |
| 10:00 | 5 | 267 | 88 | 1 | 24 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 7 | 397 | 30 |
| 11:00 | 3 | 290 | 82 | 1 | 37 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 4 | 421 | 42 |
| 12:00 PM | 7 | 300 | 92 | 6 | 27 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 15 | 452 | 38 |
| 1:00 | 3 | 302 | 93 | 8 | 49 | 5 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 6 | 469 | 65 |
| 2:00 | 4 | 341 | 96 | 3 | 34 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 9 | 489 | 39 |
| 3:00 | 5 | 360 | 117 | 7 | 33 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 16 | 542 | 44 |
| 4:00 | 11 | 395 | 87 | 9 | 48 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 19 | 577 | 65 |
| 5:00 | 11 | 410 | 95 | 6 | 29 | 2 | 0 | 5 | 0 | 0 | 1 | 0 | 0 | 26 | 585 | 43 |
| 6:00 | 5 | 428 | 88 | 6 | 40 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 12 | 580 | 47 |
| 7:00 | 7 | 335 | 79 | 1 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 462 | 32 |
| 8:00 | 4 | 259 | 56 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 347 | 26 |
| 9:00 | 2 | 168 | 25 | 1 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 211 | 13 |
| 10:00 | 1 | 134 | 23 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 166 | 6 |
| 11:00 | 0 | 92 | 10 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 103 | 1 |
| Total | 81 | 5258 | 1413 | 64 | 558 | 19 | 3 | 36 | 3 | 0 | 1 | 0 | 0 | 149 | 7585 | 684 |
| Percent | 1.1\% | 69.3\% | 18.6\% | 0.8\% | 7.4\% | 0.3\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% |  | 9.0\% |
| AM Peak | 7:00 | 8:00 | 9:00 | 9:00 | 9:00 | 8:00 | 9:00 | 7:00 | 5:00 |  |  |  |  | 9:00 | 8:00 | 9:00 |
|  | 5 | 371 | 118 | 6 | 50 | 2 | 1 | 3 | 1 | * | * | * | * | 9 | 530 | 61 |
| PM Peak | 4:00 | 6:00 | 3:00 | 4:00 | 1:00 | 1:00 | 12:00 PM | 4:00 | 12:00 PM |  | 5:00 |  |  | 5:00 | 5:00 | 1:00 |
|  | 11 | 428 | 117 | 9 | 49 | 5 | 1 | 7 | 1 | * | 1 | * | * | 26 | 585 | 65 |

Location 1: Lakeview Ave East of Primrose Hill Rd Location 2: Dracut, Ma Serial Number: 34575

Lowell, Ma 01852


| $\begin{array}{r} 11 / 11 / 2020 \\ \text { Time } \\ \hline \end{array}$ | Motor Cycles |  <br> Trailers | 2 Axle Long | Buses | $\begin{gathered} 2 \text { Axle } 6 \\ \text { Tire } \\ \hline \end{gathered}$ | 3 Axle Single | 4 Axle Single | $<5$ AxI Double | 5 Axle Double | >6 AxI Double | $\begin{gathered} <6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | 6 Axle Multi | $\begin{gathered} >6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | 0 | 47 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 | 0 |
| 1:00 | 0 | 21 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 0 |
| 2:00 | 0 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 |
| 3:00 | 0 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 |
| 4:00 | 0 | 14 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 3 |
| 5:00 | 0 | 37 | 12 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 53 | 4 |
| 6:00 | 0 | 95 | 43 | 0 | 14 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 153 | 15 |
| 7:00 | 2 | 158 | 62 | 0 | 26 | 2 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 2 | 256 | 32 |
| 8:00 | 4 | 237 | 74 | 5 | 39 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 8 | 373 | 50 |
| 9:00 | 3 | 297 | 109 | 5 | 41 | 4 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 7 | 471 | 55 |
| 10:00 | 9 | 309 | 102 | 6 | 47 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 489 | 54 |
| 11:00 | 3 | 332 | 89 | 2 | 48 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 5 | 482 | 53 |
| 12:00 PM | 3 | 372 | 88 | 8 | 48 | 2 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 12 | 539 | 64 |
| 1:00 | 2 | 413 | 84 | 3 | 39 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 17 | 566 | 50 |
| 2:00 | 3 | 387 | 88 | 4 | 32 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 520 | 38 |
| 3:00 | 5 | 400 | 101 | 5 | 44 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 12 | 570 | 52 |
| 4:00 | 8 | 399 | 103 | 6 | 38 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 9 | 569 | 50 |
| 5:00 | 8 | 419 | 101 | 8 | 45 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 14 | 597 | 55 |
| 6:00 | 0 | 423 | 103 | 7 | 31 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 13 | 580 | 41 |
| 7:00 | 0 | 304 | 61 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 399 | 27 |
| 8:00 | 1 | 238 | 40 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 299 | 15 |
| 9:00 | 0 | 175 | 47 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 242 | 20 |
| 10:00 | 0 | 121 | 17 | 1 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 151 | 12 |
| 11:00 | 0 | 84 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 90 | 1 |
| Total | 51 | 5302 | 1343 | 61 | 571 | 17 | 0 | 36 | 6 | 0 | 0 | 0 | 0 | 132 | 7519 | 691 |
| Percent | 0.7\% | 70.5\% | 17.9\% | 0.8\% | 7.6\% | 0.2\% | 0.0\% | 0.5\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% |  | 9.2\% |
| AM Peak | 10:00 | 11:00 | 9:00 | 10:00 | 11:00 | 9:00 |  | 8:00 | 5:00 |  |  |  |  | 10:00 | 10:00 | 9:00 |
|  | 9 | 332 | 109 | 6 | 48 | 4 | * | 4 | 1 | * | * | * | * | 15 | 489 | 55 |
| PM Peak | 4:00 | 6:00 | 4:00 | 12:00 PM | 12:00 PM | 4:00 |  | 1:00 | 12:00 PM |  |  |  |  | 1:00 | 5:00 | 12:00 PM |
|  | 8 | 423 | 103 | 8 | 48 | 3 | * | 7 | 1 | * | * | * | * | 17 | 597 | 64 |


| 4 |  |  |  | orth | nern | Midd | ese | Co | Uncil | of | ove | nme | nts |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | 40 | hure | ch St | Sui | te 20 |  |  |  |  |  |  |
| Location 1: Lak | eview Ave | East of Prim | mrose H |  |  |  |  |  |  |  |  |  |  |  | art Date | 11/9/2020 |
| Location 2: Dr Serial Number | cut, Ma 34575 |  |  |  |  |  | owe | II, M | 018 | 852 |  |  |  |  | d Date: | 1/12/2020 |
| Direction: East | Lane 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11/12/2020 | Motor | Cars \& | 2 Axle |  | 2 Axle 6 | 3 Axle | 4 Axle | <5 AxI | 5 Axle | $>6$ Axl | <6 AxI | 6 Axle | >6 AxI |  |  | Truck |
| Time | Cycles | Trailers | Long | Buses | Tire | Single | Single | Double | Double | Double | Multi | Multi | Multi | No Class | Total | Total |
| 12:00 AM | 0 | 50 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57 | 1 |
| 1:00 | 0 | 24 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 1 |
| 2:00 | 0 | 10 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 |
| 3:00 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 |
| 4:00 | 0 | 14 | 7 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 24 | 3 |
| 5:00 | 0 | 39 | 23 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 74 | 11 |
| 6:00 | 1 | 119 | 54 | 0 | 20 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 199 | 21 |
| 7:00 | 0 | 270 | 101 | 3 | 46 | 5 | 1 | 6 | 1 | 0 | 0 | 0 | 0 | 6 | 439 | 62 |
| 8:00 | 1 | 321 | 104 | 9 | 46 | 5 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 8 | 498 | 64 |
| 9:00 | 2 | 82 | 17 | 3 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 119 | 16 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 12:00 PM | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 1:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 2:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 3:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 4:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 5:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 6:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 7:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 8:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 9:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| Total | 4 | 943 | 321 | 15 | 139 | 12 | 1 | 10 | 2 | 0 | 0 | 0 | 0 | 21 | 1468 | 179 |
| Percent | 0.3\% | 64.2\% | 21.9\% | 1.0\% | 9.5\% | 0.8\% | 0.1\% | 0.7\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% |  | 12.2\% |
| AM Peak | 9:00 | 8:00 | 8:00 | 8:00 | 7:00 | 7:00 | 7:00 | 7:00 | 4:00 |  |  |  |  | 8:00 | 8:00 | 8:00 |
|  | 2 | 321 | 104 | 9 | 46 | 5 | 1 | 6 | 1 | * | * | * | * | 8 | 498 | 64 |
| PM Peak | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Grand Total | 202 | 15251 | 4011 | 194 | 1635 | 58 | 4 | 105 | 15 | 1 | 1 | 0 | 0 | 411 | 21888 | 2013 |
| Percent | 0.9\% | 69.7\% | 18.3\% | 0.9\% | 7.5\% | 0.3\% | 0.0\% | 0.5\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% |  | 9.2\% |



Location 1: Lakeview Ave East of Primrose Hill Rd Location 2: Dracut, Ma Serial Number: 34575

| $\begin{array}{r} 11 / 10 / 2020 \\ \text { Time } \\ \hline \end{array}$ | Motor Cycles | Cars \& Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | $<5$ Axl Double | 5 Axle Double | $>6$ Axl Double | $\begin{aligned} & <6 \mathrm{AxI} \\ & \text { Multi } \end{aligned}$ | 6 Axle Multi | $\begin{gathered} >6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | 0 | 50 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57 | 0 |
| 1:00 | 0 | 22 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 0 |
| 2:00 | 0 | 16 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 1 |
| 3:00 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 |
| 4:00 | 0 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 |
| 5:00 | 1 | 29 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 0 |
| 6:00 | 3 | 69 | 24 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 97 | 1 |
| 7:00 | 1 | 134 | 40 | 2 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 187 | 10 |
| 8:00 | 0 | 243 | 59 | 3 | 13 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 323 | 19 |
| 9:00 | 4 | 240 | 52 | 5 | 8 | 6 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 12 | 329 | 21 |
| 10:00 | 2 | 294 | 52 | 1 | 6 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 364 | 12 |
| 11:00 | 4 | 296 | 60 | 1 | 2 | 4 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 6 | 377 | 11 |
| 12:00 PM | 7 | 324 | 70 | 3 | 13 | 7 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 7 | 436 | 28 |
| 1:00 | 6 | 362 | 50 | 4 | 16 | 4 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 11 | 456 | 27 |
| 2:00 | 4 | 347 | 61 | 2 | 19 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 9 | 447 | 26 |
| 3:00 | 6 | 440 | 79 | 4 | 16 | 5 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 16 | 568 | 27 |
| 4:00 | 15 | 552 | 88 | 6 | 16 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 21 | 706 | 30 |
| 5:00 | 9 | 515 | 88 | 3 | 5 | 2 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 18 | 644 | 14 |
| 6:00 | 5 | 480 | 65 | 11 | 11 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 19 | 593 | 24 |
| 7:00 | 4 | 347 | 42 | 2 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 413 | 12 |
| 8:00 | 3 | 260 | 38 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 310 | 6 |
| 9:00 | 2 | 205 | 21 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 233 | 4 |
| 10:00 | 0 | 161 | 20 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 184 | 2 |
| 11:00 | 1 | 88 | 9 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 2 |
| Total | 77 | 5486 | 942 | 49 | 150 | 50 | 1 | 20 | 3 | 1 | 1 | 1 | 1 | 140 | 6922 | 277 |
| Percent | 1.1\% | 79.3\% | 13.6\% | 0.7\% | 2.2\% | 0.7\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% |  | 4.0\% |
| AM Peak | 9:00 | 11:00 | 11:00 | 9:00 | 8:00 | 9:00 | 11:00 | 9:00 |  |  |  | 11:00 |  | 9:00 | 11:00 | 9:00 |
|  | 4 | 296 | 60 | 5 | 13 | 6 | 1 | 2 | * | * | * | 1 | * | 12 | 377 | 21 |
| PM Peak | 4:00 | 4:00 | 4:00 | 6:00 | 2:00 | 12:00 PM |  | 12:00 PM | 12:00 PM | 3:00 | 5:00 |  | 4:00 | 4:00 | 4:00 | 4:00 |
|  | 15 | 552 | 88 | 11 | 19 | 7 | * | 4 | 1 | 1 | 1 | * | 1 | 21 | 706 | 30 |




Northern Middlesex Council of Governments
40 Church St, Suite 200
Lowell, Ma 01852
Location 1: Lakeview Ave East of Primrose Hill Rd Location 2: Dracut, Ma Serial Number: 34575
Serial Number: 34575


Location 1: Lakeview Ave East of Primrose Hill Rd Location 2: Dracut, Ma
Serial Number: 34575 Serial Number: 34575

| $\begin{array}{r} \hline 11 / 10 / 2020 \\ \text { Time } \\ \hline \end{array}$ | Motor Cycles |  <br> Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | $<5$ Axl Double | 5 Axle Double | $>6$ Axl Double | $\begin{aligned} & \hline<6 \mathrm{AxI} \\ & \text { Multi } \end{aligned}$ | 6 Axle Multi | $\begin{gathered} \hline>6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | 0 | 90 | 13 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 105 | 2 |
| 1:00 | 0 | 39 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 | 0 |
| 2:00 | 0 | 31 | 8 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 1 |
| 3:00 | 0 | 13 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 1 |
| 4:00 | 0 | 24 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 2 |
| 5:00 | 1 | 83 | 20 | 0 | 6 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 111 | 7 |
| 6:00 | 5 | 186 | 75 | 1 | 11 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 281 | 15 |
| 7:00 | 6 | 380 | 127 | 6 | 48 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 4 | 577 | 60 |
| 8:00 | 2 | 614 | 152 | 6 | 62 | 4 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 10 | 853 | 75 |
| 9:00 | 8 | 532 | 170 | 11 | 58 | 7 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 21 | 813 | 82 |
| 10:00 | 7 | 561 | 140 | 2 | 30 | 6 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 11 | 761 | 42 |
| 11:00 | 7 | 586 | 142 | 2 | 39 | 5 | 1 | 5 | 0 | 0 | 0 | 1 | 0 | 10 | 798 | 53 |
| 12:00 PM | 14 | 624 | 162 | 9 | 40 | 8 | 1 | 6 | 2 | 0 | 0 | 0 | 0 | 22 | 888 | 66 |
| 1:00 | 9 | 664 | 143 | 12 | 65 | 9 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 17 | 925 | 92 |
| 2:00 | 8 | 688 | 157 | 5 | 53 | 4 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 18 | 936 | 65 |
| 3:00 | 11 | 800 | 196 | 11 | 49 | 6 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | 32 | 1110 | 71 |
| 4:00 | 26 | 947 | 175 | 15 | 64 | 6 | 0 | 8 | 1 | 0 | 0 | 0 | 1 | 40 | 1283 | 95 |
| 5:00 | 20 | 925 | 183 | 9 | 34 | 4 | 0 | 7 | 1 | 0 | 2 | 0 | 0 | 44 | 1229 | 57 |
| 6:00 | 10 | 908 | 153 | 17 | 51 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 31 | 1173 | 71 |
| 7:00 | 11 | 682 | 121 | 3 | 39 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 875 | 44 |
| 8:00 | 7 | 519 | 94 | 2 | 29 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 657 | 32 |
| 9:00 | 4 | 373 | 46 | 1 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 444 | 17 |
| 10:00 | 1 | 295 | 43 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 350 | 8 |
| 11:00 | 1 | 180 | 19 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 203 | 3 |
| Total | 158 | 10744 | 2355 | 113 | 708 | 69 | 4 | 56 | 6 | 1 | 2 | 1 | 1 | 289 | 14507 | 961 |
| Percent | 1.1\% | 74.1\% | 16.2\% | 0.8\% | 4.9\% | 0.5\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% |  | 6.6\% |
| AM Peak | 9:00 | 8:00 | 9:00 | 9:00 | 8:00 | 9:00 | 9:00 | 9:00 | 5:00 |  |  | 11:00 |  | 9:00 | 8:00 | 9:00 |
|  | 8 | 614 | 170 | 11 | 62 | 7 | 1 | 5 | 1 | * | * | 1 | * | 21 | 853 | 82 |
| PM Peak | 4:00 | 4:00 | 3:00 | 6:00 | 1:00 | 1:00 | 12:00 PM | 4:00 | 12:00 PM | 3:00 | 5:00 |  | 4:00 | 5:00 | 4:00 | 4:00 |
|  | 26 | 947 | 196 | 17 | 65 | 9 | 1 | 8 | 2 | 1 | 2 | * | 1 | 44 | 1283 | 95 |

Location 1: Lakeview Ave East of Primrose Hill Rd Location 2: Dracut, Ma Serial Number: 34575

| $\begin{array}{r} \hline 11 / 11 / 2020 \\ \text { Time } \\ \hline \end{array}$ | Motor Cycles |  <br> Trailers | 2 Axle Long | Buses | $2 \text { Axle } 6$ Tire | 3 Axle Single | 4 Axle Single | $<5$ Ax\| Double | 5 Axle Double | $\begin{aligned} & >6 \mathrm{AxI} \\ & \text { Double } \end{aligned}$ | $\begin{gathered} <6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | 6 Axle Multi | $\begin{gathered} \hline>6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | 0 | 94 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 103 | 0 |
| 1:00 | 0 | 50 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 0 |
| 2:00 | 0 | 26 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 1 |
| 3:00 | 0 | 15 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 1 |
| 4:00 | 0 | 21 | 6 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 3 |
| 5:00 | 0 | 67 | 19 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 90 | 4 |
| 6:00 | 2 | 169 | 56 | 0 | 15 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 245 | 18 |
| 7:00 | 3 | 259 | 98 | 3 | 28 | 8 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 3 | 408 | 45 |
| 8:00 | 4 | 416 | 126 | 6 | 44 | 4 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 8 | 614 | 60 |
| 9:00 | 6 | 544 | 167 | 7 | 50 | 8 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 10 | 798 | 71 |
| 10:00 | 11 | 607 | 158 | 16 | 57 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 22 | 876 | 78 |
| 11:00 | 5 | 725 | 161 | 4 | 58 | 6 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 15 | 980 | 74 |
| 12:00 PM | 8 | 777 | 147 | 12 | 59 | 5 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 19 | 1033 | 82 |
| 1:00 | 10 | 827 | 156 | 8 | 44 | 5 | 1 | 8 | 0 | 0 | 0 | 0 | 0 | 23 | 1082 | 66 |
| 2:00 | 6 | 790 | 142 | 13 | 36 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 15 | 1007 | 54 |
| 3:00 | 10 | 850 | 170 | 13 | 54 | 6 | 0 | 4 | 0 | 0 | 2 | 0 | 0 | 26 | 1135 | 79 |
| 4:00 | 10 | 853 | 188 | 12 | 47 | 5 | 1 | 5 | 1 | 0 | 0 | 0 | 0 | 24 | 1146 | 71 |
| 5:00 | 14 | 877 | 180 | 13 | 55 | 4 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 30 | 1178 | 77 |
| 6:00 | 1 | 885 | 175 | 13 | 44 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 21 | 1143 | 61 |
| 7:00 | 1 | 667 | 126 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 836 | 33 |
| 8:00 | 1 | 510 | 83 | 1 | 21 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 7 | 626 | 25 |
| 9:00 | 0 | 328 | 70 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 420 | 22 |
| 10:00 | 1 | 266 | 32 | 1 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 312 | 12 |
| 11:00 | 0 | 164 | 11 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 178 | 1 |
| Total | 93 | 10787 | 2294 | 123 | 685 | 61 | 10 | 50 | 7 | 0 | 2 | 0 | 0 | 235 | 14347 | 938 |
| Percent | 0.6\% | 75.2\% | 16.0\% | 0.9\% | 4.8\% | 0.4\% | 0.1\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% |  | 6.5\% |
| AM Peak | 10:00 | 11:00 | 9:00 | 10:00 | 11:00 | 7:00 | 7:00 | 8:00 | 5:00 |  |  |  |  | 10:00 | 11:00 | 10:00 |
|  | 11 | 725 | 167 | 16 | 58 | 8 | 2 | 5 | 1 | * | * | * | * | 22 | 980 | 78 |
| PM Peak | 5:00 | 6:00 | 4:00 | 2:00 | 12:00 PM | 3:00 | 1:00 | 1:00 | 12:00 PM |  | 3:00 |  |  | 5:00 | 5:00 | 12:00 PM |
|  | 14 | 885 | 188 | 13 | 59 | 6 | 1 | 8 | 1 | * | 2 | * | * | 30 | 1178 | 82 |


| Location 1: Lak Location 2: Dra Serial Number | view Ave ut, Ma 34575 | ast of Pri | rose Hill |  |  |  | OME | 1. | 01 | 852 |  |  |  |  | tart Date nd Date: | $\begin{aligned} & 1 / 9 / 2020 \\ & / 12 / 2020 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Direction: Com | ned |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{array}{r} \hline 11 / 12 / 2020 \\ \text { Time } \end{array}$ | Motor Cycles |  <br> Trailers | 2 Axle Long | Buses | $2 \text { Axle } 6$ Tire | 3 Axle Single | 4 Axle Single | $<5 \mathrm{AxI}$ Double | 5 Axle Double | $>6 \mathrm{AxI}$ <br> Double | $\begin{aligned} & \hline<6 \mathrm{AxI} \\ & \text { Multi } \end{aligned}$ | 6 Axle Multi | $\begin{gathered} \hline>6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck Total |
| 12:00 AM | 0 | 95 | 14 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 111 | 2 |
| 1:00 | 0 | 47 | 8 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 | 1 |
| 2:00 | 0 | 20 | 5 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 2 |
| 3:00 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 |
| 4:00 | 0 | 22 | 8 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 34 | 4 |
| 5:00 | 0 | 61 | 30 | 0 | 12 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 106 | 14 |
| 6:00 | 2 | 200 | 74 | 0 | 20 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 302 | 21 |
| 7:00 | 0 | 386 | 143 | 3 | 50 | 6 | 1 | 6 | 2 | 0 | 0 | 0 | 0 | 7 | 604 | 68 |
| 8:00 | 1 | 584 | 167 | 12 | 62 | 12 | 0 | 6 | 0 | 1 | 1 | 0 | 0 | 15 | 861 | 94 |
| 9:00 | 2 | 135 | 26 | 4 | 14 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 187 | 22 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 12:00 PM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 1:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 2:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 3:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 4:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 5:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 6:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 7:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 8:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 9:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| Total | 5 | 1569 | 475 | 19 | 166 | 23 | 2 | 13 | 3 | 1 | 1 | 0 | 0 | 30 | 2307 | 228 |
| Percent | 0.2\% | 68.0\% | 20.6\% | 0.8\% | 7.2\% | 1.0\% | 0.1\% | 0.6\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% |  | 9.9\% |
| AM Peak | 6:00 | 8:00 | 8:00 | 8:00 | 8:00 | 8:00 | 5:00 | 7:00 | 7:00 | 8:00 | 8:00 |  |  | 8:00 | 8:00 | 8:00 |
|  | 2 | 584 | 167 | 12 | 62 | 12 | 1 | 6 | 2 | 1 | 1 | * | * | 15 | 861 | 94 |
| PM Peak | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Grand Total | 359 | 31229 | 6825 | 347 | 2047 | 209 | 17 | 153 | 25 | 3 | 6 | 1 | 1 | 766 | 41988 | 2809 |
| Percent | 0.9\% | 74.4\% | 16.3\% | 0.8\% | 4.9\% | 0.5\% | 0.0\% | 0.4\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% |  | 6.7\% |

Northern Middlesex Council of Governments
40 Church St, Suite 200
Lowell, Ma 01852

| $\begin{array}{r} 11 / 9 / 2020 \\ \text { Time } \end{array}$ | Motor Cycles | Cars \& Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | $<5$ AxI Double | 5 Axle Double | $>6$ AxI Double | $\begin{aligned} & \hline<6 \mathrm{AxI} \\ & \text { Multi } \end{aligned}$ | 6 Axle Multi | $\begin{gathered} \hline>6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 1:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 2:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 3:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 4:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 5:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 6:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 7:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 8:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 9:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 11:00 | 2 | 228 | 59 | 1 | 7 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 6 | 307 | 12 |
| 12:00 PM | 6 | 400 | 93 | 6 | 21 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 13 | 542 | 30 |
| 1:00 | 9 | 416 | 99 | 4 | 15 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 10 | 556 | 22 |
| 2:00 | 7 | 445 | 103 | 9 | 22 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 6 | 594 | 33 |
| 3:00 | 5 | 438 | 107 | 8 | 35 | 3 | 1 | 8 | 0 | 0 | 0 | 0 | 0 | 19 | 624 | 55 |
| 4:00 | 9 | 436 | 122 | 11 | 38 | 4 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 28 | 655 | 60 |
| 5:00 | 12 | 502 | 113 | 8 | 27 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 28 | 694 | 39 |
| 6:00 | 7 | 476 | 93 | 4 | 21 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 20 | 626 | 30 |
| 7:00 | 2 | 382 | 75 | 4 | 13 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 8 | 486 | 19 |
| 8:00 | 2 | 303 | 60 | 1 | 11 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 382 | 14 |
| 9:00 | 2 | 217 | 31 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 258 | 8 |
| 10:00 | 1 | 144 | 22 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 172 | 5 |
| 11:00 | 0 | 78 | 11 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 92 | 3 |
| Total | 64 | 4465 | 988 | 56 | 226 | 13 | 1 | 27 | 5 | 1 | 1 | 0 | 0 | 141 | 5988 | 330 |
| Percent | 1.1\% | 74.6\% | 16.5\% | 0.9\% | 3.8\% | 0.2\% | 0.0\% | 0.5\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% |  | 5.5\% |
| AM Peak | 11:00 | 11:00 | 11:00 | 11:00 | 11:00 | 11:00 |  |  | 11:00 |  |  |  |  | 11:00 | 11:00 | 11:00 |
|  | 2 | 228 | 59 | 1 | 7 | 1 | * | * | 3 | * | * | * | * | 6 | 307 | 12 |
| PM Peak | 5:00 | 5:00 | 4:00 | 4:00 | 4:00 | 4:00 | 3:00 | 3:00 | 12:00 PM | 5:00 | 7:00 |  |  | 4:00 | 5:00 | 4:00 |
|  | 12 | 502 | 122 | 11 | 38 | 4 | 1 | 8 | 1 | 1 | 1 | * | * | 28 | 694 | 60 |

Location 1: Lakeview Ave West of Primrose Hill Rd
Location 2: Dracut, Ma

| $\begin{array}{r} \hline 11 / 10 / 2020 \\ \text { Time } \\ \hline \end{array}$ | Motor Cycles |  <br> Trailers | 2 Axle Long | Buses | $\begin{gathered} 2 \text { Axle } 6 \\ \text { Tire } \end{gathered}$ | 3 Axle Single | 4 Axle Single | $<5 \mathrm{Axl}$ Double | 5 Axle Double | $\begin{aligned} & >6 \mathrm{Axl} \\ & \text { Double } \end{aligned}$ | $\begin{gathered} <6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | 6 Axle Multi | $\begin{gathered} \hline>6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | 0 | 45 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 | 1 |
| 1:00 | 0 | 21 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 |
| 2:00 | 0 | 15 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 1 |
| 3:00 | 0 | 11 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 1 |
| 4:00 | 0 | 19 | 4 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 3 |
| 5:00 | 0 | 64 | 20 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 88 | 4 |
| 6:00 | 2 | 138 | 58 | 2 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 206 | 6 |
| 7:00 | 0 | 310 | 106 | 4 | 30 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 12 | 464 | 36 |
| 8:00 | 0 | 432 | 97 | 4 | 30 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 8 | 575 | 38 |
| 9:00 | 4 | 358 | 123 | 4 | 32 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 12 | 538 | 41 |
| 10:00 | 5 | 324 | 102 | 2 | 25 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 467 | 29 |
| 11:00 | 3 | 340 | 92 | 5 | 27 | 2 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 2 | 477 | 40 |
| 12:00 PM | 5 | 373 | 92 | 3 | 22 | 2 | 0 | 4 | 1 | 0 | 0 | 1 | 0 | 14 | 517 | 33 |
| 1:00 | 2 | 388 | 112 | 4 | 34 | 3 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 10 | 557 | 45 |
| 2:00 | 3 | 412 | 88 | 5 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 556 | 36 |
| 3:00 | 7 | 465 | 120 | 10 | 27 | 4 | 0 | 5 | 0 | 0 | 1 | 0 | 0 | 26 | 665 | 47 |
| 4:00 | 11 | 497 | 102 | 11 | 28 | 2 | 0 | 7 | 0 | 0 | 0 | 0 | 1 | 54 | 713 | 49 |
| 5:00 | 15 | 497 | 98 | 12 | 25 | 3 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 33 | 689 | 46 |
| 6:00 | 8 | 513 | 105 | 3 | 30 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 15 | 676 | 35 |
| 7:00 | 6 | 419 | 88 | 1 | 15 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 13 | 543 | 17 |
| 8:00 | 5 | 303 | 66 | 1 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 395 | 20 |
| 9:00 | 2 | 209 | 40 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 256 | 4 |
| 10:00 | 1 | 172 | 22 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 198 | 2 |
| 11:00 | 0 | 110 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 125 | 0 |
| Total | 79 | 6435 | 1565 | 72 | 391 | 23 | 2 | 40 | 3 | 0 | 1 | 1 | 1 | 228 | 8841 | 534 |
| Percent | 0.9\% | 72.8\% | 17.7\% | 0.8\% | 4.4\% | 0.3\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.6\% |  | 6.0\% |
| AM Peak | 10:00 | 8:00 | 9:00 | 11:00 | 9:00 | 8:00 | 11:00 | 11:00 | 5:00 |  |  |  |  | 7:00 | 8:00 | 9:00 |
|  | 5 | 432 | 123 | 5 | 32 | 2 | 1 | 5 | 1 | * | * | * | * | 12 | 575 | 41 |
| PM Peak | 5:00 | 6:00 | 3:00 | 5:00 | 1:00 | 3:00 | 1:00 | 4:00 | 12:00 PM |  | 3:00 | 12:00 PM | 4:00 | 4:00 | 4:00 | 4:00 |
|  | 15 | 513 | 120 | 12 | 34 | 4 | 1 | 7 | 1 | * | 1 | 1 | 1 | 54 | 713 | 49 |


| $\begin{array}{r} \hline 11 / 11 / 2020 \\ \text { Time } \\ \hline \end{array}$ | Motor Cycles |  <br> Trailers | 2 Axle Long | Buses | $\begin{gathered} 2 \text { Axle } 6 \\ \text { Tire } \\ \hline \end{gathered}$ | 3 Axle Single | 4 Axle Single | <5 AxI <br> Double | 5 Axle Double | >6 AxI <br> Double | $\begin{gathered} <6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | 6 Axle Multi | $\begin{gathered} >6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | 0 | 51 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54 | 0 |
| 1:00 | 0 | 27 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 |
| 2:00 | 0 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 |
| 3:00 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 |
| 4:00 | 0 | 16 | 7 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 2 |
| 5:00 | 0 | 50 | 17 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 71 | 4 |
| 6:00 | 1 | 113 | 56 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 174 | 4 |
| 7:00 | 0 | 204 | 83 | 1 | 13 | 1 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 4 | 310 | 19 |
| 8:00 | 2 | 297 | 100 | 3 | 29 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 8 | 443 | 36 |
| 9:00 | 4 | 313 | 125 | 3 | 54 | 2 | 0 | 7 | 1 | 0 | 0 | 0 | 0 | 11 | 520 | 67 |
| 10:00 | 4 | 337 | 103 | 5 | 42 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 13 | 511 | 54 |
| 11:00 | 6 | 328 | 104 | 5 | 48 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 16 | 510 | 56 |
| 12:00 PM | 6 | 408 | 107 | 8 | 58 | 5 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 21 | 620 | 78 |
| 1:00 | 3 | 457 | 93 | 7 | 33 | 2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 24 | 625 | 48 |
| 2:00 | 7 | 431 | 103 | 9 | 26 | 3 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 19 | 602 | 42 |
| 3:00 | 6 | 449 | 119 | 7 | 46 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 24 | 657 | 59 |
| 4:00 | 9 | 481 | 113 | 6 | 29 | 2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 25 | 671 | 43 |
| 5:00 | 7 | 475 | 104 | 16 | 48 | 1 | 0 | 7 | 0 | 1 | 0 | 0 | 0 | 34 | 693 | 73 |
| 6:00 | 1 | 488 | 110 | 6 | 34 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | 17 | 661 | 45 |
| 7:00 | 0 | 367 | 74 | 0 | 23 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 469 | 25 |
| 8:00 | 2 | 274 | 46 | 2 | 14 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 342 | 17 |
| 9:00 | 0 | 219 | 49 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 282 | 13 |
| 10:00 | 0 | 144 | 20 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170 | 6 |
| 11:00 | 0 | 104 | 6 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 112 | 2 |
| Total | 58 | 6057 | 1547 | 79 | 525 | 24 | 2 | 54 | 5 | 3 | 1 | 0 | 0 | 223 | 8578 | 693 |
| Percent | 0.7\% | 70.6\% | 18.0\% | 0.9\% | 6.1\% | 0.3\% | 0.0\% | 0.6\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.6\% |  | 8.1\% |
| AM Peak | 11:00 | 10:00 | 9:00 | 10:00 | 9:00 | 10:00 |  | 9:00 | 5:00 |  |  |  |  | 11:00 | 9:00 | 9:00 |
|  | 6 | 337 | 125 | 5 | 54 | 3 | * | 7 | 1 | * | * | * | * | 16 | 520 | 67 |
| PM Peak | 4:00 | 6:00 | 3:00 | 5:00 | 12:00 PM | 12:00 PM | 12:00 PM | 5:00 | 12:00 PM | 5:00 | 2:00 |  |  | 5:00 | 5:00 | 12:00 PM |
|  | 9 | 488 | 119 | 16 | 58 | 5 | 2 | 7 | 1 | 1 | 1 | * | * | 34 | 693 | 78 |



Northern Middlesex Council of Governments
40 Church St, Suite 200
Lowell, Ma 01852

Location 1: Lakeview Ave West of Primrose Hill Rd Location 2: Dracut, Ma Serial Number: 36965

| $\begin{array}{r} \hline 11 / 9 / 2020 \\ \text { Time } \end{array}$ | Motor Cycles |  <br> Trailers | 2 Axle Long | Buses | $\begin{gathered} 2 \text { Axle } 6 \\ \text { Tire } \end{gathered}$ | 3 Axle Single | 4 Axle Single | $<5 \mathrm{AxI}$ <br> Double | 5 Axle Double | $\begin{aligned} & >6 \text { AxI } \\ & \text { Double } \end{aligned}$ | $\begin{aligned} & \hline<6 \mathrm{AxI} \\ & \text { Multi } \end{aligned}$ | 6 Axle Multi | $\begin{gathered} >6 \text { AxI } \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 1:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 2:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 3:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 4:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 5:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 6:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 7:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 8:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 9:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 11:00 | 2 | 178 | 100 | 3 | 38 | 0 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 4 | 331 | 47 |
| 12:00 PM | 3 | 323 | 132 | 4 | 63 | 2 | 0 | 7 | 2 | 0 | 0 | 0 | 0 | 14 | 550 | 78 |
| 1:00 | 2 | 309 | 143 | 5 | 71 | 2 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 11 | 548 | 83 |
| 2:00 | 2 | 309 | 168 | 12 | 68 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 23 | 591 | 89 |
| 3:00 | 12 | 349 | 190 | 12 | 87 | 2 | 0 | 8 | 0 | 0 | 1 | 0 | 0 | 31 | 692 | 110 |
| 4:00 | 7 | 416 | 155 | 21 | 97 | 1 | 0 | 9 | 2 | 0 | 0 | 0 | 0 | 61 | 769 | 130 |
| 5:00 | 5 | 423 | 206 | 10 | 99 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 41 | 788 | 113 |
| 6:00 | 5 | 409 | 141 | 11 | 99 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 35 | 705 | 115 |
| 7:00 | 1 | 280 | 131 | 2 | 57 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 14 | 487 | 61 |
| 8:00 | 1 | 211 | 122 | 2 | 56 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 396 | 59 |
| 9:00 | 1 | 157 | 62 | 0 | 38 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 261 | 39 |
| 10:00 | 1 | 107 | 49 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 177 | 20 |
| 11:00 | 0 | 62 | 38 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 113 | 13 |
| Total | 42 | 3533 | 1637 | 82 | 805 | 10 | 1 | 51 | 6 | 1 | 1 | 0 | 0 | 239 | 6408 | 957 |
| Percent | 0.7\% | 55.1\% | 25.5\% | 1.3\% | 12.6\% | 0.2\% | 0.0\% | 0.8\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.7\% |  | 14.9\% |
| AM Peak | 11:00 | 11:00 | 11:00 | 11:00 | 11:00 |  |  | 11:00 | 11:00 |  |  |  |  | 11:00 | 11:00 | 11:00 |
|  | 2 | 178 | 100 | 3 | 38 | * | * | 5 | 1 | * | * | * | * | 4 | 331 | 47 |
| PM Peak | 3:00 | 5:00 | 5:00 | 4:00 | 5:00 | 12:00 PM | 6:00 | 2:00 | 12:00 PM | 7:00 | 3:00 |  |  | 4:00 | 5:00 | 4:00 |
|  | 12 | 423 | 206 | 21 | 99 | 2 | 1 | 9 | 2 | 1 | 1 | * | * | 61 | 788 | 130 |

Location 1: Lakeview Ave West of Primrose Hill Rd Location 2: Dracut, Ma Serial Number: 36965




Northern Middlesex Council of Governments
40 Church St, Suite 200
Lowell, Ma 01852
Location 1: Lakeview Ave West of Primrose Hill Rd Location 2: Dracut, Ma Serial Number: 36965

Serial Number: 3696

| $\begin{array}{r} 11 / 9 / 2020 \\ \text { Time } \\ \hline \end{array}$ | Motor Cycles |  <br> Trailers | 2 Axle Long | Buses | $\begin{gathered} 2 \text { Axle } 6 \\ \text { Tire } \end{gathered}$ | 3 Axle Single | 4 Axle Single | $<5 \mathrm{Axl}$ Double | 5 Axle Double | $>6 \mathrm{AxI}$ <br> Double | $\begin{gathered} <6 \text { AxI } \\ \text { Multi } \end{gathered}$ | 6 Axle <br> Multi | $\begin{gathered} \hline>6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 1:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 2:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 3:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 4:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 5:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 6:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 7:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 8:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 9:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 11:00 | 4 | 406 | 159 | 4 | 45 | 1 | 0 | 5 | 4 | 0 | 0 | 0 | 0 | 10 | 638 | 59 |
| 12:00 PM | 9 | 723 | 225 | 10 | 84 | 4 | 0 | 7 | 3 | 0 | 0 | 0 | 0 | 27 | 1092 | 108 |
| 1:00 | 11 | 725 | 242 | 9 | 86 | 3 | 0 | 6 | 1 | 0 | 0 | 0 | 0 | 21 | 1104 | 105 |
| 2:00 | 9 | 754 | 271 | 21 | 90 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 29 | 1185 | 122 |
| 3:00 | 17 | 787 | 297 | 20 | 122 | 5 | 1 | 16 | 0 | 0 | 1 | 0 | 0 | 50 | 1316 | 165 |
| 4:00 | 16 | 852 | 277 | 32 | 135 | 5 | 0 | 16 | 2 | 0 | 0 | 0 | 0 | 89 | 1424 | 190 |
| 5:00 | 17 | 925 | 319 | 18 | 126 | 1 | 0 | 6 | 0 | 1 | 0 | 0 | 0 | 69 | 1482 | 152 |
| 6:00 | 12 | 885 | 234 | 15 | 120 | 1 | 1 | 8 | 0 | 0 | 0 | 0 | 0 | 55 | 1331 | 145 |
| 7:00 | 3 | 662 | 206 | 6 | 70 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 22 | 973 | 80 |
| 8:00 | 3 | 514 | 182 | 3 | 67 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 6 | 778 | 73 |
| 9:00 | 3 | 374 | 93 | 0 | 46 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 519 | 47 |
| 10:00 | 2 | 251 | 71 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 349 | 25 |
| 11:00 | 0 | 140 | 49 | 0 | 15 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 205 | 16 |
| Total | 106 | 7998 | 2625 | 138 | 1031 | 23 | 2 | 78 | 11 | 2 | 2 | 0 | 0 | 380 | 12396 | 1287 |
| Percent | 0.9\% | 64.5\% | 21.2\% | 1.1\% | 8.3\% | 0.2\% | 0.0\% | 0.6\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.1\% |  | 10.4\% |
| AM Peak | 11:00 | 11:00 | 11:00 | 11:00 | 11:00 | 11:00 |  | 11:00 | 11:00 |  |  |  |  | 11:00 | 11:00 | 11:00 |
|  | 4 | 406 | 159 | 4 | 45 | 1 | * | 5 | 4 | * | * | * | * | 10 | 638 | 59 |
| PM Peak | 3:00 | 5:00 | 5:00 | 4:00 | 4:00 | 3:00 | 3:00 | 3:00 | 12:00 PM | 5:00 | 3:00 |  |  | 4:00 | 5:00 | 4:00 |
|  | 17 | 925 | 319 | 32 | 135 | 5 | 1 | 16 | 3 | 1 | 1 | * | * | 89 | 1482 | 190 |

Location 1: Lakeview Ave West of Primrose Hill Rd Location 2: Dracut, Ma Serial Number: 36965
Direction: Combined

| $\begin{array}{r} \hline 11 / 10 / 2020 \\ \text { Time } \\ \hline \end{array}$ | Motor Cycles | Cars \& Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | $<5$ Axl Double | 5 Axle Double | $>6$ AxI Double | $<6 \mathrm{AxI}$ Multi | 6 Axle Multi | $\begin{gathered} >6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | 0 | 83 | 33 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 124 | 8 |
| 1:00 | 0 | 38 | 13 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 | 5 |
| 2:00 | 0 | 24 | 9 | 0 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 7 |
| 3:00 | 0 | 16 | 6 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 4 |
| 4:00 | 0 | 25 | 7 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 4 |
| 5:00 | 1 | 87 | 37 | 0 | 10 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 136 | 11 |
| 6:00 | 4 | 216 | 86 | 2 | 27 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 339 | 31 |
| 7:00 | 1 | 426 | 175 | 16 | 85 | 6 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 17 | 729 | 110 |
| 8:00 | 0 | 659 | 228 | 13 | 102 | 4 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 14 | 1027 | 126 |
| 9:00 | 9 | 617 | 233 | 14 | 97 | 1 | 1 | 6 | 1 | 0 | 0 | 0 | 0 | 30 | 1009 | 120 |
| 10:00 | 5 | 607 | 237 | 7 | 82 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 12 | 956 | 95 |
| 11:00 | 5 | 624 | 212 | 9 | 92 | 2 | 2 | 10 | 0 | 0 | 0 | 0 | 0 | 11 | 967 | 115 |
| 12:00 PM | 10 | 658 | 229 | 13 | 101 | 3 | 0 | 11 | 2 | 0 | 0 | 1 | 0 | 27 | 1055 | 131 |
| 1:00 | 6 | 683 | 256 | 11 | 100 | 5 | 1 | 8 | 0 | 0 | 0 | 0 | 0 | 25 | 1095 | 125 |
| 2:00 | 10 | 692 | 235 | 16 | 116 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 28 | 1103 | 138 |
| 3:00 | 12 | 811 | 298 | 26 | 116 | 6 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 60 | 1341 | 160 |
| 4:00 | 24 | 931 | 264 | 18 | 136 | 3 | 0 | 19 | 0 | 0 | 0 | 0 | 1 | 110 | 1506 | 177 |
| 5:00 | 20 | 943 | 283 | 18 | 132 | 5 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 73 | 1490 | 171 |
| 6:00 | 12 | 927 | 298 | 16 | 115 | 1 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 42 | 1420 | 141 |
| 7:00 | 8 | 728 | 199 | 2 | 74 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 22 | 1035 | 78 |
| 8:00 | 8 | 522 | 161 | 3 | 61 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 760 | 65 |
| 9:00 | 2 | 394 | 103 | 1 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 532 | 29 |
| 10:00 | 1 | 288 | 84 | 0 | 26 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 402 | 27 |
| 11:00 | 0 | 186 | 57 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 253 | 10 |
| Total | 138 | 11185 | 3743 | 186 | 1536 | 42 | 4 | 112 | 5 | 0 | 1 | 1 | 1 | 483 | 17437 | 1888 |
| Percent | 0.8\% | 64.1\% | 21.5\% | 1.1\% | 8.8\% | 0.2\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.8\% |  | 10.8\% |
| AM Peak | 9:00 | 8:00 | 10:00 | 7:00 | 8:00 | 7:00 | 11:00 | 11:00 | 5:00 |  |  |  |  | 9:00 | 8:00 | 8:00 |
|  | 9 | 659 | 237 | 16 | 102 | 6 | 2 | 10 | 1 | * | * | * | * | 30 | 1027 | 126 |
| PM Peak | 4:00 | 5:00 | 3:00 | 3:00 | 4:00 | 3:00 | 1:00 | 4:00 | 12:00 PM |  | 3:00 | 12:00 PM | 4:00 | 4:00 | 4:00 | 4:00 |
|  | 24 | 943 | 298 | 26 | 136 | 6 | 1 | 19 | 2 | * | 1 | 1 | 1 | 110 | 1506 | 177 |

Location 1: Lakeview Ave West of Primrose Hill Rd Location 2: Dracut, Ma Serial Number: 36965

| $\begin{array}{r} 11 / 11 / 2020 \\ \text { Time } \\ \hline \end{array}$ | Motor Cycles |  <br> Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | $<5$ AxI Double | 5 Axle Double | >6 AxI Double | $\begin{gathered} <6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | 6 Axle Multi | $\begin{gathered} >6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | 0 | 91 | 28 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 123 | 4 |
| 1:00 | 0 | 52 | 17 | 0 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 74 | 5 |
| 2:00 | 0 | 27 | 6 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 3 |
| 3:00 | 0 | 14 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 |
| 4:00 | 0 | 22 | 13 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 4 |
| 5:00 | 0 | 76 | 31 | 0 | 14 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 123 | 15 |
| 6:00 | 2 | 185 | 89 | 1 | 19 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 298 | 22 |
| 7:00 | 0 | 330 | 136 | 6 | 54 | 1 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 8 | 541 | 67 |
| 8:00 | 2 | 493 | 189 | 5 | 87 | 2 | 0 | 7 | 1 | 0 | 0 | 0 | 0 | 11 | 797 | 102 |
| 9:00 | 5 | 576 | 228 | 11 | 133 | 3 | 1 | 12 | 1 | 0 | 0 | 0 | 0 | 15 | 985 | 161 |
| 10:00 | 6 | 628 | 224 | 17 | 97 | 3 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 29 | 1015 | 128 |
| 11:00 | 10 | 686 | 246 | 16 | 122 | 6 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 33 | 1126 | 151 |
| 12:00 PM | 8 | 767 | 244 | 13 | 139 | 7 | 2 | 8 | 1 | 0 | 0 | 0 | 0 | 40 | 1229 | 170 |
| 1:00 | 14 | 835 | 245 | 17 | 100 | 5 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 42 | 1266 | 130 |
| 2:00 | 10 | 753 | 264 | 18 | 79 | 4 | 1 | 4 | 0 | 0 | 1 | 1 | 0 | 35 | 1170 | 108 |
| 3:00 | 11 | 833 | 293 | 17 | 122 | 3 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 57 | 1345 | 151 |
| 4:00 | 16 | 835 | 284 | 12 | 117 | 4 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 79 | 1362 | 148 |
| 5:00 | 14 | 845 | 276 | 29 | 118 | 2 | 0 | 10 | 0 | 1 | 0 | 0 | 0 | 76 | 1371 | 160 |
| 6:00 | 2 | 868 | 286 | 12 | 118 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 0 | 44 | 1337 | 137 |
| 7:00 | 0 | 660 | 210 | 4 | 91 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 12 | 983 | 101 |
| 8:00 | 2 | 496 | 142 | 4 | 66 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 7 | 721 | 74 |
| 9:00 | 0 | 351 | 119 | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 510 | 37 |
| 10:00 | 0 | 237 | 91 | 0 | 24 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 354 | 25 |
| 11:00 | 0 | 175 | 25 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 209 | 9 |
| Total | 102 | 10835 | 3690 | 183 | 1560 | 42 | 5 | 111 | 6 | 3 | 1 | 1 | 0 | 493 | 17032 | 1912 |
| Percent | 0.6\% | 63.6\% | 21.7\% | 1.1\% | 9.2\% | 0.2\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.9\% |  | 11.2\% |
| AM Peak | 11:00 | 11:00 | 11:00 | 10:00 | 9:00 | 11:00 | 7:00 | 9:00 | 5:00 |  |  |  |  | 11:00 | 11:00 | 9:00 |
|  | 10 | 686 | 246 | 17 | 133 | 6 | 1 | 12 | 1 | * | * | * | * | 33 | 1126 | 161 |
| PM Peak | 4:00 | 6:00 | 3:00 | 5:00 | 12:00 PM | 12:00 PM | 12:00 PM | 4:00 | 12:00 PM | 5:00 | 2:00 | 2:00 |  | 4:00 | 5:00 | 12:00 PM |
|  | 16 | 868 | 293 | 29 | 139 | 7 | 2 | 15 | 1 | 1 | 1 | 1 | * | 79 | 1371 | 170 |



Northern Middlesex Council of Governments
40 Church St, Suite 200
Lowell, Ma 01852

Location 1: Primrose Hill Rd north Lakeview Ave Location 2: Dracut, Ma Serial Number: 36965

| $\begin{array}{r} 11 / 3 / 2020 \\ \text { Time } \\ \hline \end{array}$ | Motor Cycles |  <br> Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | $<5$ Axl Double | 5 Axle Double | >6 AxI <br> Double | $\begin{gathered} <6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | 6 Axle Multi | $\begin{gathered} >6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 1:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 2:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 3:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 4:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 5:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 6:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 7:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 8:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 9:00 | * | * | * | * | * | * | * | * | * | * | * | * | $\star$ | * * | 0 | 0 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 11:00 | 9 | 52 | 17 | 1 | 7 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 8 | 99 | 13 |
| 12:00 PM | 3 | 86 | 14 | 2 | 6 | 7 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 9 | 130 | 18 |
| 1:00 | 3 | 80 | 21 | 3 | 3 | 3 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 14 | 130 | 12 |
| 2:00 | 4 | 84 | 25 | 1 | 8 | 7 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 10 | 141 | 18 |
| 3:00 | 6 | 98 | 21 | 3 | 9 | 4 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 11 | 156 | 20 |
| 4:00 | 13 | 102 | 31 | 4 | 7 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 201 | 25 |
| 5:00 | 18 | 105 | 25 | 3 | 21 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 207 | 35 |
| 6:00 | 20 | 100 | 17 | 3 | 9 | 6 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 31 | 188 | 20 |
| 7:00 | 14 | 69 | 24 | 4 | 9 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 8 | 134 | 19 |
| 8:00 | 2 | 53 | 5 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 74 | 6 |
| 9:00 | 0 | 30 | 5 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 41 | 5 |
| 10:00 | 0 | 21 | 3 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 30 | 5 |
| 11:00 | 0 | 15 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 20 | 1 |
| Total | 92 | 895 | 211 | 25 | 89 | 66 | 1 | 10 | 2 | 4 | 0 | 0 | 0 | 156 | 1551 | 197 |
| Percent | 5.9\% | 57.7\% | 13.6\% | 1.6\% | 5.7\% | 4.3\% | 0.1\% | 0.6\% | 0.1\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 10.1\% |  | 12.7\% |
| AM Peak | 11:00 | 11:00 | 11:00 | 11:00 | 11:00 | 11:00 |  | 11:00 |  |  |  |  |  | 11:00 | 11:00 | 11:00 |
|  | 9 | 52 | 17 | 1 | 7 | 4 | * | 1 | * | * | * | * | * | 8 | 99 | 13 |
| PM Peak | 6:00 | 5:00 | 4:00 | 4:00 | 5:00 | 4:00 | 4:00 | 12:00 PM | 1:00 | 12:00 PM |  |  |  | 6:00 | 5:00 | 5:00 |
|  | 20 | 105 | 31 | 4 | 21 | 13 | 1 | 2 | 1 | 1 | * | * | * | 31 | 207 | 35 |

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Location 1: Primrose Hill Rd north Lakeview Ave Location 2: Dracut, Ma Serial Number: 36965

| $\begin{array}{r} \hline \text { 11/4/2020 } \\ \text { Time } \end{array}$ | Motor Cycles |  <br> Trailers | 2 Axle Long | Buses | $\begin{gathered} 2 \text { Axle } 6 \\ \text { Tire } \\ \hline \end{gathered}$ | 3 Axle Single | 4 Axle Single | $<5 \mathrm{AxI}$ <br> Double | 5 Axle Double | $\begin{aligned} & >6 \mathrm{AxI} \\ & \text { Double } \end{aligned}$ | $\begin{aligned} & \text { <6 AxI } \\ & \text { Multi } \end{aligned}$ | 6 Axle Multi | $\begin{gathered} >6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | 1 | 12 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 2 |
| 1:00 | 0 | 12 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 1 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 |
| 4:00 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 0 |
| 5:00 | 0 | 10 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 13 | 1 |
| 6:00 | 0 | 24 | 5 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 36 | 3 |
| 7:00 | 0 | 32 | 11 | 4 | 6 | 14 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 7 | 75 | 25 |
| 8:00 | 3 | 71 | 18 | 1 | 7 | 7 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 12 | 120 | 16 |
| 9:00 | 8 | 70 | 15 | 1 | 9 | 9 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 17 | 131 | 21 |
| 10:00 | 3 | 74 | 14 | 1 | 10 | 9 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4 | 116 | 21 |
| 11:00 | 2 | 64 | 13 | 2 | 4 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 9 | 99 | 11 |
| 12:00 PM | 1 | 82 | 20 | 2 | 12 | 9 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 14 | 142 | 25 |
| 1:00 | 4 | 79 | 21 | 0 | 5 | 9 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 13 | 135 | 18 |
| 2:00 | 4 | 77 | 28 | 1 | 7 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 5 | 129 | 15 |
| 3:00 | 13 | 80 | 29 | 3 | 12 | 5 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 17 | 163 | 24 |
| 4:00 | 7 | 103 | 30 | 3 | 14 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 21 | 185 | 24 |
| 5:00 | 12 | 117 | 28 | 7 | 13 | 8 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 31 | 218 | 30 |
| 6:00 | 13 | 107 | 34 | 3 | 16 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 24 | 203 | 25 |
| 7:00 | 8 | 71 | 24 | 1 | 6 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 11 | 126 | 12 |
| 8:00 | 2 | 62 | 12 | 0 | 7 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 8 | 94 | 10 |
| 9:00 | 1 | 32 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 48 | 7 |
| 10:00 | 2 | 24 | 3 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 36 | 5 |
| 11:00 | 1 | 15 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 22 | 2 |
| Total | 85 | 1222 | 323 | 29 | 145 | 96 | 5 | 16 | 5 | 4 | 0 | 0 | 0 | 203 | 2133 | 300 |
| Percent | 4.0\% | 57.3\% | 15.1\% | 1.4\% | 6.8\% | 4.5\% | 0.2\% | 0.8\% | 0.2\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 9.5\% |  | 14.1\% |
| AM Peak | 9:00 | 10:00 | 8:00 | 7:00 | 10:00 | 7:00 |  | 11:00 | 7:00 | 9:00 |  |  |  | 9:00 | 9:00 | 7:00 |
|  | 8 | 74 | 18 | 4 | 10 | 14 | * | 3 | 1 | 1 | * | * | * | 17 | 131 | 25 |
| PM Peak | 3:00 | 5:00 | 6:00 | 5:00 | 6:00 | 12:00 PM | 3:00 | 2:00 | 2:00 | 1:00 |  |  |  | 5:00 | 5:00 | 5:00 |
|  | 13 | 117 | 34 | 7 | 16 | 9 | 2 | 2 | 2 | 2 | * | * | * | 31 | 218 | 30 |

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Location 1: Primrose Hill Rd north Lakeview Ave Location 2: Dracut, Ma Serial Number: 36965

| $\begin{array}{r} \hline 11 / 5 / 2020 \\ \text { Time } \\ \hline \end{array}$ | Motor Cycles |  <br> Trailers | 2 Axle Long | Buses | $\begin{gathered} 2 \text { Axle } 6 \\ \text { Tire } \\ \hline \end{gathered}$ | 3 Axle Single | 4 Axle Single | $<5$ Axl Double | 5 Axle Double | $\begin{aligned} & >6 \mathrm{Axl} \\ & \text { Double } \end{aligned}$ | $\begin{aligned} & <6 \mathrm{AxI} \\ & \text { Multi } \end{aligned}$ | 6 Axle Multi | $\begin{gathered} \hline>6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | 2 | 11 | 4 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 20 | 2 |
| 1:00 | 3 | 5 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 3 |
| 2:00 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 |
| 3:00 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 |
| 4:00 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 0 |
| 5:00 | 0 | 8 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 2 |
| 6:00 | 1 | 18 | 8 | 0 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 9 |
| 7:00 | 2 | 36 | 15 | 6 | 9 | 7 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 5 | 82 | 24 |
| 8:00 | 5 | 76 | 20 | 2 | 9 | 3 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 15 | 132 | 16 |
| 9:00 | 5 | 70 | 11 | 1 | 8 | 7 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 10 | 114 | 18 |
| 10:00 | 5 | 70 | 23 | 1 | 3 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 123 | 13 |
| 11:00 | 3 | 74 | 19 | 0 | 10 | 6 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 7 | 121 | 18 |
| 12:00 PM | 4 | 67 | 16 | 2 | 12 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 116 | 20 |
| 1:00 | 5 | 83 | 21 | 0 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 124 | 11 |
| 2:00 | 7 | 78 | 31 | 1 | 10 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 12 | 147 | 19 |
| 3:00 | 3 | 95 | 28 | 1 | 14 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 6 | 154 | 22 |
| 4:00 | 15 | 117 | 41 | 5 | 23 | 6 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 31 | 242 | 38 |
| 5:00 | 12 | 114 | 26 | 3 | 15 | 10 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 38 | 219 | 29 |
| 6:00 | 15 | 94 | 41 | 6 | 11 | 5 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 28 | 205 | 27 |
| 7:00 | 5 | 89 | 22 | 0 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 137 | 10 |
| 8:00 | 4 | 57 | 13 | 0 | 5 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 85 | 7 |
| 9:00 | 2 | 39 | 6 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 55 | 6 |
| 10:00 | 0 | 30 | 5 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 42 | 6 |
| 11:00 | 1 | 24 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 1 |
| Total | 99 | 1262 | 359 | 28 | 166 | 84 | 5 | 10 | 7 | 3 | 0 | 0 | 0 | 197 | 2220 | 303 |
| Percent | 4.5\% | 56.8\% | 16.2\% | 1.3\% | 7.5\% | 3.8\% | 0.2\% | 0.5\% | 0.3\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 8.9\% |  | 13.6\% |
| AM Peak | 8:00 | 8:00 | 10:00 | 7:00 | 11:00 | 10:00 |  | 8:00 | 7:00 | 8:00 |  |  |  | 8:00 | 8:00 | 7:00 |
|  | 5 | 76 | 23 | 6 | 10 | 9 | * | 1 | 2 | 1 | * | * | * | 15 | 132 | 24 |
| PM Peak | 4:00 | 4:00 | 4:00 | 6:00 | 4:00 | 5:00 | 2:00 | 6:00 | 4:00 | 4:00 |  |  |  | 5:00 | 4:00 | 4:00 |
|  | 15 | 117 | 41 | 6 | 23 | 10 | 2 | 4 | 1 | 1 | * | * | * | 38 | 242 | 38 |


| 4 |  |  |  | orth | ern | Midd | ese | Co | uncil | of | ove | nme | nts |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | 40 | hure | h St | , Suí | te 2 |  |  |  |  |  |  |
| Location 1: Prim | mose Hill | Rd north L | keview Av |  |  |  | 1u |  |  |  |  |  |  |  | Start Date | 11/3/2020 |
| Location 2: Drac Serial Number: | cut, Ma |  |  |  |  |  | Owe | I, M | 01 | 852 |  |  |  |  | End Date | 11/6/2020 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 36965 |
| Direction: North | , Lane 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11/6/2020 | Motor | Cars \& | 2 Axle |  | 2 Axle 6 | 3 Axle | 4 Axle | <5 AxI | 5 Axle | >6 AxI | <6 AxI | 6 Axle | >6 AxI |  |  | Truck |
| Time | Cycles | Trailers | Long | Buses | Tire | Single | Single | Double | Double | Double | Multi | Multi | Multi | No Class | Total | Total |
| 12:00 AM | 0 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 21 | 0 |
| 1:00 | 0 | 9 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 3 |
| 2:00 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 1 |
| 3:00 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 4:00 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 |
| 5:00 | 0 | 4 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 |
| 6:00 | 1 | 20 | 4 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 34 | 8 |
| 7:00 | 4 | 37 | 16 | 4 | 11 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 86 | 22 |
| 8:00 | 5 | 66 | 15 | 2 | 5 | 6 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 6 | 107 | 15 |
| 9:00 | 10 | 73 | 17 | 2 | 13 | 10 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 14 | 142 | 28 |
| 10:00 | 1 | 11 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 16 | 2 |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 12:00 PM | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 1:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 2:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 3:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 4:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 5:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 6:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 7:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 8:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 9:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| Total | 21 | 245 | 55 | 8 | 39 | 28 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 33 | 434 | 80 |
| Percent | 4.8\% | 56.5\% | 12.7\% | 1.8\% | 9.0\% | 6.5\% | 0.0\% | 0.7\% | 0.2\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 7.6\% |  | 18.4\% |
| AM Peak | 9:00 | 9:00 | 9:00 | 7:00 | 9:00 | 9:00 |  | 8:00 | 9:00 | 9:00 |  |  |  | 9:00 | 9:00 | 9:00 |
|  | 10 | 73 | 17 | 4 | 13 | 10 | * | 2 | 1 | 1 | * | * | * | 14 | 142 | 28 |
| PM Peak | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | * | * |
| Grand Total | 297 | 3624 | 948 | 90 | 439 | 274 | 11 | 39 | 15 | 12 | 0 | 0 | 0 | 589 | 6338 | 880 |
| Percent | 4.7\% | 57.2\% | 15.0\% | 1.4\% | 6.9\% | 4.3\% | 0.2\% | 0.6\% | 0.2\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 9.3\% |  | 13.9\% |

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Location 1: Primrose Hill Rd north Lakeview Ave Location 2: Dracut, Ma Serial Number: 36965

| $\begin{array}{r} \hline 11 / 3 / 2020 \\ \text { Time } \end{array}$ | Motor Cycles |  <br> Trailers | 2 Axle Long | Buses | $\begin{gathered} 2 \text { Axle } 6 \\ \text { Tire } \end{gathered}$ | 3 Axle Single | 4 Axle Single | $<5$ Ax\| Double | 5 Axle Double | $>6 \mathrm{AxI}$ <br> Double | $\begin{aligned} & \text { <6 AxI } \\ & \text { Multi } \end{aligned}$ | 6 Axle Multi | $>6 \mathrm{AxI}$ <br> Multi | No Class | Total | Truck Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 1:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 2:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 3:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 4:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 5:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 6:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 7:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 8:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 9:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 11:00 | 1 | 62 | 12 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 83 | 4 |
| 12:00 PM | 0 | 91 | 18 | 1 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 117 | 8 |
| 1:00 | 0 | 81 | 21 | 0 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 115 | 11 |
| 2:00 | 0 | 98 | 14 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 119 | 3 |
| 3:00 | 1 | 123 | 31 | 2 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 | 164 | 5 |
| 4:00 | 0 | 140 | 30 | 0 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 13 | 189 | 6 |
| 5:00 | 0 | 135 | 32 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 178 | 6 |
| 6:00 | 1 | 133 | 32 | 1 | 4 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 12 | 185 | 7 |
| 7:00 | 0 | 98 | 21 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 126 | 4 |
| 8:00 | 0 | 70 | 7 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 79 | 1 |
| 9:00 | 0 | 33 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 1 |
| 10:00 | 0 | 36 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 0 |
| 11:00 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 |
| Total | 3 | 1130 | 232 | 8 | 37 | 5 | 0 | 5 | 0 | 0 | 1 | 0 | 0 | 48 | 1469 | 56 |
| Percent | 0.2\% | 76.9\% | 15.8\% | 0.5\% | 2.5\% | 0.3\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 3.3\% |  | 3.8\% |
| AM Peak | 11:00 | 11:00 | 11:00 |  | 11:00 | 11:00 |  |  |  |  |  |  |  | 11:00 | 11:00 | 11:00 |
|  | 1 | 62 | 12 | * | 3 | 1 | * | * | * | * | * | * | * | 4 | 83 | 4 |
| PM Peak | 3:00 | 4:00 | 5:00 | 5:00 | 1:00 | 12:00 PM |  | 3:00 |  |  | 6:00 |  |  | 4:00 | 4:00 | 1:00 |
|  | 1 | 140 | 32 | 3 | 9 | 2 | * | 2 | * | * | 1 | * | * | 13 | 189 | 11 |

Location 1: Primrose Hill Rd north Lakeview Ave Location 2: Dracut, Ma Serial Number: 36965

| $\begin{array}{r} \hline \text { 11/4/2020 } \\ \text { Time } \\ \hline \end{array}$ | Motor Cycles | Cars \& Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | $<5$ AxI Double | 5 Axle Double | $>6$ AxI Double | $\begin{gathered} \hline<6 \mathrm{AxI} \\ \text { Multi } \\ \hline \end{gathered}$ | 6 Axle Multi | $\begin{gathered} >6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | 0 | 9 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 1 |
| 1:00 | 0 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 |
| 2:00 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 3:00 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 4:00 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 5:00 | 0 | 16 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 1 |
| 6:00 | 0 | 28 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 | 0 |
| 7:00 | 0 | 53 | 24 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 83 | 6 |
| 8:00 | 0 | 106 | 42 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 155 | 4 |
| 9:00 | 0 | 85 | 31 | 1 | 7 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 131 | 10 |
| 10:00 | 1 | 74 | 22 | 0 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 106 | 6 |
| 11:00 | 0 | 51 | 20 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 78 | 6 |
| 12:00 PM | 0 | 72 | 17 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 95 | 5 |
| 1:00 | 1 | 93 | 21 | 0 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 125 | 9 |
| 2:00 | 0 | 89 | 17 | 0 | 5 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 116 | 8 |
| 3:00 | 1 | 98 | 19 | 0 | 7 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 11 | 140 | 11 |
| 4:00 | 2 | 144 | 32 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 196 | 7 |
| 5:00 | 1 | 125 | 34 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 180 | 5 |
| 6:00 | 0 | 111 | 23 | 1 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 9 | 148 | 5 |
| 7:00 | 2 | 78 | 15 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 98 | 2 |
| 8:00 | 0 | 58 | 8 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 69 | 2 |
| 9:00 | 0 | 58 | 10 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 2 |
| 10:00 | 0 | 33 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 0 |
| 11:00 | 0 | 30 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 1 |
| Total | 8 | 1420 | 366 | 5 | 69 | 11 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 64 | 1949 | 91 |
| Percent | 0.4\% | 72.9\% | 18.8\% | 0.3\% | 3.5\% | 0.6\% | 0.0\% | 0.3\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.3\% |  | 4.7\% |
| AM Peak | 10:00 | 8:00 | 8:00 | 8:00 | 9:00 | 8:00 |  | 9:00 |  |  |  |  |  | 9:00 | 8:00 | 9:00 |
|  | 1 | 106 | 42 | 1 | 7 | 1 | * | 1 | * | * | * | * | * | 5 | 155 | 10 |
| PM Peak | 4:00 | 4:00 | 5:00 | 12:00 PM | 1:00 | 3:00 |  | 2:00 | 6:00 |  |  |  |  | 5:00 | 4:00 | 3:00 |
|  | 2 | 144 | 34 | 1 | 8 | 3 | * | 1 | 1 | * | * | * | * | 15 | 196 | 11 |



| 8 Northern Middlesex Council of Governm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 Church St, Suite 200 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location 1: Primrose Hill Rd north Lakeview Ave Location 2: Dracut, Ma Serial Number: 36965 |  |  |  | Lowell, Ma 01852 |  |  |  |  |  |  |  |  |  |  | Start Date: 11/3/2020 End Date: 11/6/2020 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 36965 |
| Direction: South, Lane 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{array}{r} \hline 11 / 6 / 2020 \\ \text { Time } \\ \hline \end{array}$ | Motor Cycles | Cars \& | 2 Axle |  | 2 Axle 6 | 3 Axle Single | 4 Axle Single | $<5$ AxI Double | 5 Axle Double | $>6$ AxI Double | $\begin{aligned} & \hline \text { <6 AxI } \\ & \text { Multi } \end{aligned}$ | 6 Axle Multi | >6 AxI | No Class | Total | Truck Total |
|  |  | Trailers | Long | Buses | Tire |  |  |  |  |  |  |  | Multi |  |  |  |
| 12:00 AM | 0 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 16 | 0 |
| 1:00 | 0 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 |
| 2:00 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 3:00 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 4:00 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 5:00 | 0 | 13 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 1 |
| 6:00 | 0 | 22 | 14 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 2 |
| 7:00 | 0 | 72 | 24 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 105 | 9 |
| 8:00 | 0 | 97 | 28 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 128 | 3 |
| 9:00 | 1 | 92 | 30 | 1 | 4 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 | 134 | 7 |
| 10:00 | 0 | 12 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 19 | 1 |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 12:00 PM | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 1:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 2:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 3:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 4:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 5:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 6:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 7:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 8:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 9:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| Total | 1 | 330 | 108 | 1 | 20 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | - 6 | 468 | 23 |
| Percent | 0.2\% | 70.5\% | 23.1\% | 0.2\% | 4.3\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% |  | 4.9\% |
| AM Peak | 9:00 | 8:00 | 9:00 | 9:00 | 7:00 |  |  | 9:00 |  |  |  |  |  | 9:00 | 9:00 | 7:00 |
|  | 1 | 97 | 30 | 1 | 9 | * | * | 2 | * | * | * | * | * | 4 | 134 | 9 |
| PM Peak | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | * | * |
| Grand Total | 31 | 4439 | 1119 | 19 | 170 | 29 | 0 | 19 | 1 | 0 | 1 | 0 | 0 | 188 | 6016 | 239 |
| Percent | 0.5\% | 73.8\% | 18.6\% | 0.3\% | 2.8\% | 0.5\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.1\% |  | 4.0\% |

Northern Middlesex Council of Governments
40 Church St, Suite 200
Lowell, Ma 01852

Location 1: Primrose Hill Rd north Lakeview Ave Location 2: Dracut, Ma Serial Number: 36965

| $\begin{array}{r} 11 / 3 / 2020 \\ \text { Time } \\ \hline \end{array}$ | Motor Cycles |  <br> Trailers | 2 Axle Long | Buses | $\begin{gathered} 2 \text { Axle } 6 \\ \text { Tire } \end{gathered}$ | 3 Axle Single | 4 Axle Single | $<5$ AxI Double | 5 Axle Double | $>6$ AxI Double | $\begin{gathered} <6 \mathrm{AxI} \\ \text { Multi } \\ \hline \end{gathered}$ | 6 Axle Multi | $\begin{gathered} >6 \text { AxI } \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 1:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 2:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 3:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 4:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 5:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 6:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 7:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 8:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * * | 0 | 0 |
| 9:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 11:00 | 10 | 114 | 29 | 1 | 10 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 12 | 182 | 17 |
| 12:00 PM | 3 | 177 | 32 | 3 | 11 | 9 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 9 | 247 | 26 |
| 1:00 | 3 | 161 | 42 | 3 | 12 | 5 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 16 | 245 | 23 |
| 2:00 | 4 | 182 | 39 | 1 | 10 | 7 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 14 | 260 | 21 |
| 3:00 | 7 | 221 | 52 | 5 | 10 | 4 | 0 | 4 | 1 | 1 | 0 | 0 | 0 | 15 | 320 | 25 |
| 4:00 | 13 | 242 | 61 | 4 | 12 | 13 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 43 | 390 | 31 |
| 5:00 | 18 | 240 | 57 | 6 | 24 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 385 | 41 |
| 6:00 | 21 | 233 | 49 | 4 | 13 | 6 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 43 | 373 | 27 |
| 7:00 | 14 | 167 | 45 | 5 | 12 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 11 | 260 | 23 |
| 8:00 | 2 | 123 | 12 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 153 | 7 |
| 9:00 | 0 | 63 | 11 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 81 | 6 |
| 10:00 | 0 | 57 | 11 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 74 | 5 |
| 11:00 | 0 | 45 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 50 | 1 |
| Total | 95 | 2025 | 443 | 33 | 126 | 71 | 1 | 15 | 2 | 4 | 1 | 0 | 0 | 204 | 3020 | 253 |
| Percent | 3.1\% | 67.1\% | 14.7\% | 1.1\% | 4.2\% | 2.4\% | 0.0\% | 0.5\% | 0.1\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 6.8\% |  | 8.4\% |
| AM Peak | 11:00 | 11:00 | 11:00 | 11:00 | 11:00 | 11:00 |  | 11:00 |  |  |  |  |  | 11:00 | 11:00 | 11:00 |
|  | 10 | 114 | 29 | 1 | 10 | 5 | * | 1 | * | * | * | * | * | 12 | 182 | 17 |
| PM Peak | 6:00 | 4:00 | 4:00 | 5:00 | 5:00 | 4:00 | 4:00 | 3:00 | 1:00 | 12:00 PM | 6:00 |  |  | 4:00 | 4:00 | 5:00 |
|  | 21 | 242 | 61 | 6 | 24 | 13 | 1 | 4 | 1 | 1 | 1 | * | * | 43 | 390 | 41 |

Location 1: Primrose Hill Rd north Lakeview Ave Location 2: Dracut, Ma Serial Number: 36965

| $\begin{array}{r} 11 / 4 / 2020 \\ \text { Time } \\ \hline \end{array}$ | Motor Cycles | Cars \& Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | $<5$ AxI Double | 5 Axle Double | $>6$ AxI Double | $\begin{aligned} & \text { <6 AxI } \\ & \text { Multi } \end{aligned}$ | 6 Axle Multi | $\begin{gathered} >6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | 1 | 21 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 3 |
| 1:00 | 0 | 18 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 1 |
| 2:00 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 3:00 | 0 | 3 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 2 |
| 4:00 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 0 |
| 5:00 | 0 | 26 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 34 | 2 |
| 6:00 | 0 | 52 | 20 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 79 | 3 |
| 7:00 | 0 | 85 | 35 | 4 | 12 | 14 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 7 | 158 | 31 |
| 8:00 | 3 | 177 | 60 | 2 | 9 | 8 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 15 | 275 | 20 |
| 9:00 | 8 | 155 | 46 | 2 | 16 | 10 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 22 | 262 | 31 |
| 10:00 | 4 | 148 | 36 | 1 | 15 | 9 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 7 | 222 | 27 |
| 11:00 | 2 | 115 | 33 | 2 | 9 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 10 | 177 | 17 |
| 12:00 PM | 1 | 154 | 37 | 3 | 15 | 10 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 15 | 237 | 30 |
| 1:00 | 5 | 172 | 42 | 0 | 13 | 10 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 14 | 260 | 27 |
| 2:00 | 4 | 166 | 45 | 1 | 12 | 4 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 7 | 245 | 23 |
| 3:00 | 14 | 178 | 48 | 3 | 19 | 8 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 28 | 303 | 35 |
| 4:00 | 9 | 247 | 62 | 3 | 21 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 32 | 381 | 31 |
| 5:00 | 13 | 242 | 62 | 8 | 16 | 9 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 46 | 398 | 35 |
| 6:00 | 13 | 218 | 57 | 4 | 19 | 4 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 33 | 351 | 30 |
| 7:00 | 10 | 149 | 39 | 1 | 8 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 12 | 224 | 14 |
| 8:00 | 2 | 120 | 20 | 0 | 8 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 9 | 163 | 12 |
| 9:00 | 1 | 90 | 17 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 118 | 9 |
| 10:00 | 2 | 57 | 7 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 73 | 5 |
| 11:00 | 1 | 45 | 6 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 56 | 3 |
| Total | 93 | 2642 | 689 | 34 | 214 | 107 | 5 | 21 | 6 | 4 | 0 | 0 | 0 | 267 | 4082 | 391 |
| Percent | 2.3\% | 64.7\% | 16.9\% | 0.8\% | 5.2\% | 2.6\% | 0.1\% | 0.5\% | 0.1\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 6.5\% |  | 9.6\% |
| AM Peak | 9:00 | 8:00 | 8:00 | 7:00 | 9:00 | 7:00 |  | 11:00 | 7:00 | 9:00 |  |  |  | 9:00 | 8:00 | 7:00 |
|  | 8 | 177 | 60 | 4 | 16 | 14 | * | 3 | 1 | 1 | * | * | * | 22 | 275 | 31 |
| PM Peak | 3:00 | 4:00 | 4:00 | 5:00 | 4:00 | 12:00 PM | 3:00 | 2:00 | 2:00 | 1:00 |  |  |  | 5:00 | 5:00 | 3:00 |
|  | 14 | 247 | 62 | 8 | 21 | 10 | 2 | 3 | 2 | 2 | * | * | * | 46 | 398 | 35 |


| $\begin{array}{r} \hline 11 / 5 / 2020 \\ \text { Time } \end{array}$ | Motor Cycles |  <br> Trailers | 2 Axle Long | Buses | $\begin{gathered} 2 \text { Axle } 6 \\ \text { Tire } \end{gathered}$ | 3 Axle Single | 4 Axle Single | $<5$ Axl Double | 5 Axle Double | $>6$ AxI Double | $\begin{aligned} & \hline<6 \mathrm{AxI} \\ & \text { Multi } \end{aligned}$ | 6 Axle Multi | $>6 \mathrm{AxI}$ <br> Multi | No Class | Total | Truck <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | 2 | 23 | 5 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 34 | 3 |
| 1:00 | 3 | 9 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 3 |
| 2:00 | 0 | 3 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 |
| 3:00 | 0 | 3 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 |
| 4:00 | 0 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 0 |
| 5:00 | 0 | 22 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 3 |
| 6:00 | 1 | 45 | 23 | 0 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 79 | 10 |
| 7:00 | 2 | 104 | 43 | 6 | 14 | 9 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 6 | 186 | 31 |
| 8:00 | 6 | 184 | 41 | 2 | 11 | 4 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 17 | 267 | 19 |
| 9:00 | 6 | 151 | 44 | 1 | 11 | 9 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 17 | 241 | 23 |
| 10:00 | 5 | 137 | 49 | 1 | 5 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 221 | 17 |
| 11:00 | 3 | 153 | 53 | 0 | 12 | 8 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 8 | 239 | 22 |
| 12:00 PM | 4 | 155 | 41 | 2 | 14 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 238 | 25 |
| 1:00 | 5 | 184 | 44 | 0 | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 255 | 13 |
| 2:00 | 8 | 184 | 63 | 2 | 11 | 6 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 14 | 292 | 23 |
| 3:00 | 5 | 190 | 58 | 2 | 15 | 5 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 12 | 290 | 25 |
| 4:00 | 18 | 256 | 71 | 5 | 32 | 6 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 43 | 436 | 48 |
| 5:00 | 17 | 252 | 68 | 3 | 19 | 10 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 54 | 426 | 35 |
| 6:00 | 19 | 218 | 66 | 9 | 13 | 5 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 38 | 374 | 33 |
| 7:00 | 6 | 188 | 33 | 0 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 251 | 12 |
| 8:00 | 5 | 130 | 23 | 0 | 8 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 6 | 175 | 11 |
| 9:00 | 2 | 107 | 16 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 133 | 6 |
| 10:00 | 0 | 63 | 13 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 83 | 6 |
| 11:00 | 1 | 56 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67 | 1 |
| Total | 118 | 2821 | 772 | 33 | 210 | 97 | 5 | 17 | 7 | 3 | 0 | 0 | 0 | 267 | 4350 | 372 |
| Percent | 2.7\% | 64.9\% | 17.7\% | 0.8\% | 4.8\% | 2.2\% | 0.1\% | 0.4\% | 0.2\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 6.1\% |  | 8.6\% |
| AM Peak | 8:00 | 8:00 | 11:00 | 7:00 | 7:00 | 10:00 |  | 8:00 | 7:00 | 8:00 |  |  |  | 8:00 | 8:00 | 7:00 |
|  | 6 | 184 | 53 | 6 | 14 | 11 | * | 1 | 2 | 1 | * | * | * | 17 | 267 | 31 |
| PM Peak | 6:00 | 4:00 | 4:00 | 6:00 | 4:00 | 5:00 | 2:00 | 6:00 | 4:00 | 4:00 |  |  |  | 5:00 | 4:00 | 4:00 |
|  | 19 | 256 | 71 | 9 | 32 | 10 | 2 | 5 | 1 | 1 | * | * | * | 54 | 436 | 48 |

Northern Middlesex Council of Governments
40 Church St, Suite 200 Lowell, Ma 01852

| $\begin{array}{r} 11 / 6 / 2020 \\ \text { Time } \end{array}$ | Motor Cycles |  <br> Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | $<5$ Axl Double | 5 Axle Double | $>6$ Axl Double | $\begin{gathered} <6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | 6 Axle Multi | $\begin{gathered} >6 \mathrm{AxI} \\ \text { Multi } \end{gathered}$ | No Class | Total | Truck Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM | 0 | 32 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 37 | 0 |
| 1:00 | 0 | 14 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 3 |
| 2:00 | 0 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 1 |
| 3:00 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 4:00 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 0 |
| 5:00 | 0 | 17 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 2 |
| 6:00 | 1 | 42 | 18 | 0 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 72 | 10 |
| 7:00 | 4 | 109 | 40 | 4 | 20 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 191 | 31 |
| 8:00 | 5 | 163 | 43 | 2 | 8 | 6 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 6 | 235 | 18 |
| 9:00 | 11 | 165 | 47 | 3 | 17 | 10 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 18 | 276 | 35 |
| 10:00 | 1 | 23 | 5 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 35 | 3 |
| 11:00 | * | * | * | * | * | , | , | , | * | , | * | , | * | * | 0 | 0 |
| 12:00 PM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 1:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 2:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 3:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 4:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 5:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 6:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 7:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 8:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 9:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 0 |
| Total | 22 | 575 | 163 | 9 | 59 | 28 | 0 | 5 | 1 | 1 | 0 | 0 | 0 | 39 | 902 | 103 |
| Percent | 2.4\% | 63.7\% | 18.1\% | 1.0\% | 6.5\% | 3.1\% | 0.0\% | 0.6\% | 0.1\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 4.3\% |  | 11.4\% |
| AM Peak | 9:00 | 9:00 | 9:00 | 7:00 | 7:00 | 9:00 |  | 9:00 | 9:00 | 9:00 |  |  |  | 9:00 | 9:00 | 9:00 |
|  | 11 | 165 | 47 | 4 | 20 | 10 | * | 3 | 1 | 1 | * | * | * | 18 | 276 | 35 |
| PM Peak | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Grand Total | 328 | 8063 | 2067 | 109 | 609 | 303 | 11 | 58 | 16 | 12 | 1 | 0 | 0 | 777 | 12354 | 1119 |
| Percent | 2.7\% | 65.3\% | 16.7\% | 0.9\% | 4.9\% | 2.5\% | 0.1\% | 0.5\% | 0.1\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 6.3\% |  | 9.1\% |

## Turn Count Summary

Location: Primrose Hill Rd at Lakeview Ave, Dracut, MA

Date: 2020-11-17
Day of week: Tuesday

Weather: Sunny
Peak hour: 07:45-08:45 AM
Analyst: JO
Total vehicle traffic

| Interval starts | Southbound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| 6:45 | 7 | 0 | 15 | 0 | 58 | 3 | 0 | 0 | 0 | 27 | 149 | 0 | 259 |
| 7:00 | 11 | 0 | 31 | 0 | 95 | 6 | 0 | 0 | 0 | 14 | 108 | 0 | 265 |
| 7:15 | 2 | 0 | 21 | 0 | 102 | 7 | 0 | 0 | 0 | 20 | 120 | 0 | 272 |
| 7:30 | 7 | 0 | 34 | 0 | 91 | 4 | 0 | 0 | 0 | 24 | 120 | 0 | 280 |
| 7:45 | 4 | 0 | 25 | 0 | 102 | 7 | 0 | 0 | 0 | 35 | 145 | 0 | 318 |
| 8:00 | 10 | 0 | 30 | 0 | 87 | 7 | 0 | 0 | 0 | 29 | 111 | 0 | 274 |
| 8:15 | 9 | 0 | 19 | 0 | 90 | 6 | 0 | 0 | 0 | 29 | 141 | 0 | 294 |
| 8:30 | 4 | 0 | 17 | 0 | 119 | 2 | 0 | 0 | 0 | 26 | 124 | 0 | 292 |
| 8:45 | 5 | 0 | 19 | 0 | 105 | 3 | 0 | 0 | 0 | 25 | 95 | 0 | 252 |

## Car traffic

| Interval starts | Southbound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| 6:45 | 7 | 0 | 14 | 0 | 55 | 3 | 0 | 0 | 0 | 27 | 144 | 0 | 250 |
| 7:00 | 11 | 0 | 29 | 0 | 93 | 6 | 0 | 0 | 0 | 14 | 105 | 0 | 258 |
| 7:15 | 2 | 0 | 20 | 0 | 99 | 6 | 0 | 0 | 0 | 20 | 119 | 0 | 266 |
| 7:30 | 7 | 0 | 33 | 0 | 83 | 4 | 0 | 0 | 0 | 24 | 117 | 0 | 268 |
| 7:45 | 4 | 0 | 24 | 0 | 94 | 7 | 0 | 0 | 0 | 35 | 140 | 0 | 304 |
| 8:00 | 9 | 0 | 29 | 0 | 82 | 6 | 0 | 0 | 0 | 25 | 107 | 0 | 258 |
| 8:15 | 8 | 0 | 19 | 0 | 87 | 6 | 0 | 0 | 0 | 28 | 130 | 0 | 278 |
| 8:30 | 4 | 0 | 16 | 0 | 113 | 2 | 0 | 0 | 0 | 26 | 119 | 0 | 280 |
| 8:45 | 5 | 0 | 19 | 0 | 103 | 3 | 0 | 0 | 0 | 24 | 94 | 0 | 248 |

## Truck traffic

| Interval starts | Southbound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| 6:45 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 9 |
| 7:00 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 7 |
| 7:15 | 0 | 0 | 1 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 6 |
| 7:30 | 0 | 0 | 1 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 12 |
| 7:45 | 0 | 0 | 1 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 14 |
| 8:00 | 1 | 0 | 1 | 0 | 5 | 1 | 0 | 0 | 0 | 4 | 3 | 0 | 15 |
| 8:15 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 11 | 0 | 16 |
| 8:30 | 0 | 0 | 1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 12 |
| 8:45 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 4 |

## Bicycle traffic

| Interval starts | Southbound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| 6:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 8:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## Pedestrian volumes

| Interval starts | NE |  |  | NW |  |  | SW |  |  | SE |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Right | Total | Left | Right | Total | Left | Right | Total | Left | Right | Total |  |
| 6:45 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 3 | 0 | 3 | 5 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| 7:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 2 |
| 8:15 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:30 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:45 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 4 |

## Intersection Peak Hour

|  | Southbound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| Vehicle Total | 27 | 0 | 91 | 0 | 398 | 22 | 0 | 0 | 0 | 119 | 521 | 0 | 1178 |
| Factor | 0.68 | 0 | 0.76 | 0 | 0.84 | 0.79 | 0 | 0 | 0 | 0.85 | 0.9 | 0 | 0.93 |
| Approach Factor | 0.74 |  |  | 0.87 |  |  | 0 |  |  | 0.89 |  |  |  |

## Peak Hour Vehicle Summary

| Vehicle | Southbound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| Car | 25 | 0 | 88 | 0 | 376 | 21 | 0 | 0 | 0 | 114 | 496 | 0 | 1120 |
| Truck | 2 | 0 | 3 | 0 | 22 | 1 | 0 | 0 | 0 | 5 | 24 | 0 | 57 |
| Bicycle | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

Peak Hour Pedestrians

|  | NE |  |  | NW |  |  | SW |  |  | SE |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Right | Total | Left | Right | Total | Left | Right | Total | Left | Right | Total |  |
| Pedestria ns | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 2 | 2 | 1 | 0 | 1 | 5 |

## Turn Count Summary

Location: Primrose Hill Rd at Lakeview Ave, Dracut, MA

Date: 2020-11-18
Day of week: Wednesday

Weather: Sunny
Peak hour: 16:30-17:30
Analyst: JO
Total vehicle traffic

| Interval starts | Southbound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| 16:00 | 5 | 0 | 53 | 0 | 171 | 7 | 0 | 0 | 0 | 40 | 137 | 0 | 413 |
| 16:15 | 7 | 0 | 53 | 0 | 151 | 8 | 0 | 0 | 0 | 34 | 171 | 0 | 424 |
| 16:30 | 5 | 0 | 49 | 0 | 156 | 8 | 0 | 0 | 0 | 52 | 137 | 0 | 407 |
| 16:45 | 2 | 0 | 45 | 0 | 165 | 9 | 0 | 0 | 0 | 31 | 149 | 0 | 401 |
| 17:00 | 3 | 0 | 45 | 0 | 172 | 3 | 0 | 0 | 0 | 51 | 147 | 0 | 421 |
| 17:15 | 1 | 0 | 64 | 0 | 175 | 8 | 0 | 0 | 0 | 27 | 149 | 0 | 424 |
| 17:30 | 7 | 0 | 46 | 0 | 142 | 4 | 0 | 0 | 0 | 37 | 126 | 0 | 362 |
| 17:45 | 4 | 0 | 41 | 0 | 138 | 7 | 0 | 0 | 0 | 26 | 145 | 0 | 361 |

## Car traffic

| Interval starts | Southbound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| 16:00 | 5 | 0 | 52 | 0 | 169 | 7 | 0 | 0 | 0 | 38 | 132 | 0 | 403 |
| 16:15 | 7 | 0 | 53 | 0 | 150 | 8 | 0 | 0 | 0 | 34 | 167 | 0 | 419 |
| 16:30 | 5 | 0 | 49 | 0 | 155 | 8 | 0 | 0 | 0 | 50 | 135 | 0 | 402 |
| 16:45 | 2 | 0 | 45 | 0 | 161 | 9 | 0 | 0 | 0 | 31 | 147 | 0 | 395 |
| 17:00 | 3 | 0 | 45 | 0 | 168 | 3 | 0 | 0 | 0 | 51 | 146 | 0 | 416 |
| 17:15 | 1 | 0 | 62 | 0 | 175 | 8 | 0 | 0 | 0 | 27 | 149 | 0 | 422 |
| 17:30 | 7 | 0 | 45 | 0 | 141 | 4 | 0 | 0 | 0 | 36 | 124 | 0 | 357 |
| 17:45 | 4 | 0 | 40 | 0 | 137 | 7 | 0 | 0 | 0 | 26 | 145 | 0 | 359 |

## Truck traffic

| Interval starts | Southbound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| 16:00 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 9 |
| 16:15 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 5 |
| 16:30 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 5 |
| 16:45 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 6 |
| 17:00 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 5 |
| 17:15 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 17:30 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 5 |
| 17:45 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |

## Bicycle traffic

| Interval starts | Southbound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## Pedestrian volumes

| Interval starts | NE |  |  | NW |  |  | SW |  |  | SE |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Right | Total | Left | Right | Total | Left | Right | Total | Left | Right | Total |  |
| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 2 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 3 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 3 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 2 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 17:45 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

Intersection Peak Hour

|  | Southbound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| Vehicle Total | 11 | 0 | 203 | 0 | 668 | 28 | 0 | 0 | 0 | 161 | 582 | 0 | 1653 |
| Factor | 0.55 | 0 | 0.79 | 0 | 0.95 | 0.78 | 0 | 0 | 0 | 0.77 | 0.98 | 0 | 0.97 |
| Approach Factor | 0.82 |  |  | 0.95 |  |  | 0 |  |  | 0.94 |  |  |  |

Peak Hour Vehicle Summary

| Vehicle | Southbound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| Car | 11 | 0 | 201 | 0 | 659 | 28 | 0 | 0 | 0 | 159 | 577 | 0 | 1635 |
| Truck | 0 | 0 | 2 | 0 | 9 | 0 | 0 | 0 | 0 | 2 | 5 | 0 | 18 |
| Bicycle | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Peak Hour Pedestrians

|  | NE |  |  | NW |  |  | SW |  |  | SE |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Right | Total | Left | Right | Total | Left | Right | Total | Left | Right | Total |  |
| Pedestria ns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 4 | 0 | 4 | 8 |

## Appendix B: Level of Service Analysis

HCM 2010 TWSC
2: Lakeview Ave \& Primrose Hill Rd
$P M$

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |


| Major/Minor | Major1 | Major2 |  | Minor2 |  |  |
| :--- | ---: | :--- | ---: | :--- | ---: | ---: |
| Conflicting Flow All | 741 | 0 | - | 0 | 1735 | 723 |
| $\quad$ Stage 1 | - | - | - | - | 723 | - |
| Stage 2 | - | - | - | - | 1012 | - |
| Critical Hdwy | 4.11 | - | - | - | 6.4 | 6.21 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - |
| Follow-up Hdwy | 2.209 | - | - | - | 3.5 | 3.309 |
| Pot Cap-1 Maneuver | 870 | - | - | - | 97 | 428 |
| Stage 1 | - | - | - | - | 484 | - |
| Stage 2 | - | - | - | - | 354 | - |


| Platoon blocked, \% |  |  |  |
| :--- | :--- | :--- | :--- |
| Mov Cap-1 Maneuver | 868 | - | - |


| Mov Cap-2 Maneuver | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |


| Approach | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, S | 2.7 | 0 | 72.4 |
| HCM LOS |  |  | F |


| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR SBLn1 |
| :--- | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 868 | - | - | -300 |
| HCM Lane V/C Ratio | 0.241 | - | - | -0.923 |
| HCM Control Delay (s) | 10.5 | 0 | - | -72.4 |
| HCM Lane LOS | B | A | - | - |
| HCM 95th \%tile Q(veh) | 0.9 | - | - | - |
| H | 8.9 |  |  |  |



| Major/Minor | Majort | Major2 |  | Minor2 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 478 | 0 | - | 0 | 1323 | 464 |
| Stage 1 |  | . | . |  | 464 |  |
| Stage 2 |  |  | - |  | 859 |  |
| Critical Hdwy | 4.11 | - | - |  | 6.47 | 6.23 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.47 |  |
| Critical Hdwy Stg 2 |  | - | - |  | 5.47 |  |
| Follow-up Hdwy | 2.209 | - | - |  | 3.563 | 3.327 |
| Pot Cap-1 Maneuver | 1090 |  | - | - | 168 | 596 |
| Stage 1 | - | - | - | - | 623 |  |
| Stage 2 |  | - | - | - | 407 |  |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1088 | - | - | - | 136 | 595 |
| Mov Cap-2 Maneuver | - | - | - | - | 136 |  |
| Stage 1 | - | - | - |  | 503 |  |
| Stage 2 | - | - | - | - | 406 |  |


| Approach | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, $s$ | 1.7 | 0 | 26.5 |

HCMLOS D

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR SBLn1 |
| :--- | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 1088 | - | - | -323 |
| HCM Lane V/C Ratio | 0.129 | - | - | -0.494 |
| HCM Control Delay (s) | 8.8 | 0 | - | -26.5 |
| HCM Lane LOS | A | A | - | - |
| HCM 95th \%tile Q(veh) | 0.4 | - | - | - |
| H |  |  |  |  |


|  | * | $\rightarrow$ | 4 | 4 |  | $\downarrow$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |  |  |
| Lane Configurations | ${ }^{7}$ | 4 | $\uparrow$ |  | * |  |  |  |
| Traffic Volume (veh/h) | 119 | 521 | 376 | 22 | 27 | 91 |  |  |
| Future Volume (veh/h) | 119 | 521 | 376 | 22 | 27 | 91 |  |  |
| Number | 7 | 4 | 8 | 18 | 1 | 16 |  |  |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |  |  |
| Ped-Bike Adj(A_pbT) | 1.00 |  |  | 1.00 | 1.00 | 1.00 |  |  |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |  |  |
| Adj Sat Flow, veh/h/ln | 1881 | 1827 | 1794 | 1900 | 1827 | 1900 |  |  |
| Adj Flow Rate, veh/h | 140 | 579 | 448 | 28 | 40 | 120 |  |  |
| Adj No. of Lanes | 1 | 1 | 1 | 0 | 0 | 0 |  |  |
| Peak Hour Factor | 0.85 | 0.90 | 0.84 | 0.79 | 0.68 | 0.76 |  |  |
| Percent Heavy Veh, \% | 1 | 4 | 6 | 4 | 7 | 3 |  |  |
| Cap, veh/h | 502 | 1074 | 598 | 37 | 64 | 191 |  |  |
| Arrive On Green | 0.10 | 0.59 | 0.36 | 0.36 | 0.16 | 0.16 |  |  |
| Sat Flow, veh/h | 1792 | 1827 | 1671 | 104 | 397 | 1190 |  |  |
| Grp Volume(v), veh/h | 140 | 579 | 0 | 476 | 161 | 0 |  |  |
| Grp Sat Flow(s),veh/h/ln | 1792 | 1827 | 0 | 1776 | 1597 | 0 |  |  |
| Q Serve(g_s), s | 1.5 | 6.8 | 0.0 | 8.4 | 3.4 | 0.0 |  |  |
| Cycle Q Clear(g_c), s | 1.5 | 6.8 | 0.0 | 8.4 | 3.4 | 0.0 |  |  |
| Prop In Lane | 1.00 |  |  | 0.06 | 0.25 | 0.75 |  |  |
| Lane Grp Cap(c), veh/h | 502 | 1074 | 0 | 635 | 257 | 0 |  |  |
| V/C Ratio(X) | 0.28 | 0.54 | 0.00 | 0.75 | 0.63 | 0.00 |  |  |
| Avail Cap(c_a), veh/h | 589 | 1607 | 0 | 1066 | 869 | 0 |  |  |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |  |  |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |  |  |
| Uniform Delay (d), s/veh | 6.3 | 4.4 | 0.0 | 10.1 | 14.0 | 0.0 |  |  |
| Incr Delay (d2), s/veh | 0.3 | 0.4 | 0.0 | 1.8 | 2.5 | 0.0 |  |  |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |  |  |
| \%ile BackOfQ(50\%),veh/ln | 0.7 | 3.5 | 0.0 | 4.4 | 1.7 | 0.0 |  |  |
| LnGrp Delay(d),s/veh | 6.6 | 4.9 | 0.0 | 11.9 | 16.5 | 0.0 |  |  |
| LnGrp LOS | A | A |  | B | B |  |  |  |
| Approach Vol, veh/h |  | 719 | 476 |  | 161 |  |  |  |
| Approach Delay, s/veh |  | 5.2 | 11.9 |  | 16.5 |  |  |  |
| Approach LOS |  | A | B |  | B |  |  |  |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Assigned Phs |  |  |  | 4 |  | 6 | 7 | 8 |
| Phs Duration ( $\mathrm{G}+\mathrm{Y}+\mathrm{Rc}$ ), s |  |  |  | 25.6 |  | 10.3 | 8.3 | 17.3 |
| Change Period ( $\mathrm{Y}+\mathrm{Rc}$ ) , s |  |  |  | 4.5 |  | 4.5 | 4.5 | 4.5 |
| Max Green Setting (Gmax), s |  |  |  | 31.5 |  | 19.5 | 5.5 | 21.5 |
| Max Q Clear Time (g_c+l1), s |  |  |  | 8.8 |  | 5.4 | 3.5 | 10.4 |
| Green Ext Time (p_c), s |  |  |  | 4.0 |  | 0.4 | 0.1 | 2.3 |
| Intersection Summary |  |  |  |  |  |  |  |  |
| HCM 2010 Ctrl Delay |  |  | 8.9 |  |  |  |  |  |
| HCM 2010 LOS |  |  | A |  |  |  |  |  |



## Appendix A: Crash Rate Analysis

## INTERSECTION CRASH RATE WORKSHEET

CITY/TOWN : Dracut
DISTRICT : $\frac{4}{}$

## COUNT DATE :

$\square$ UNSIGNALIZED : $\square$
x
SIGNALIZED : $\square$
~ INTERSECTION DATA ~

| MAJOR STREET : | Lakeview Avenue |
| :--- | :--- |
| MINOR STREET(S) : | Primrose Hill Road |




Comments : Crash rate is lower than the MassDOT District 4 average of 0.57 for unsignalized int
Project Title \& [ Lakeview and Primrose Hill Intersection Study June 2021

