

Traffic Impact Study

**1657 Mount Pleasant Road
Township of Cavan Monaghan
County of Peterborough**

D.M. Wills Project No. 22-85287

D.M. Wills Associates Limited

Partners in Engineering, Planning and
Environmental Services
Peterborough

October 2022



W I L L S

Summary of Revisions

Revision No.	Revision Title	Date of Release	Summary of Revisions
1	Final Report	October 27, 2022	Final Report Submitted

This report has been formatted considering the requirements of the Accessibility for Ontarians with Disabilities Act.

Executive Summary

D.M. Wills Associates Limited (Wills) has been retained to prepare a Traffic Impact Study to support a Zoning By-law Amendment (ZBA) for a proposed development within the property known municipally as 1657 Mount Pleasant Road, Township of Cavan Monaghan in the County of Peterborough. The development is proposed in one existing building within the property and has a Gross Floor Area of 2,400 ft² and will be used for light metal work (i.e., rocker panel restoration). This development is proposed to use the existing direct access to CR 9. Based on the characteristics of the development and the surrounding area, the study area included the three existing entrances within the property on CR 9. The property currently has an agriculture activity, and it is proposed that one of the agriculture buildings will be used as a panel restoration facility.

This study reviews the development details and the existing traffic conditions of the study area including the investigation of the available traffic volumes. Based on this review and the development details, auxiliary turn lanes analysis at the entrance(s) on CR 9 is carried out.

The data collection and analysis showed that the entering and exiting traffic volumes to and from the site are minimal and will not have any impact on the traffic operation on CR 9. In addition, the auxiliary lanes warrant analysis indicated that there is no need for any lanes since the percentage of left-turning traffic is less than 3% and the right-turning lane will be less than 20 veh/hr. These low traffic volumes will not trigger the need for any auxiliary lanes.

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1.0 Introduction and Background

D.M. Wills Associates Limited (Wills) has been retained to prepare a Traffic Impact Study (TIS) to support a Zoning By-law Amendment for the proposed development at the property known municipally as 1657 Mount Pleasant Road in the County of Peterborough and located on the south side of Mount Pleasant Road (Peterborough County Road 9 – CR 9).

The purpose of this TIS is to assess the impact of the proposed development on traffic operations including the estimation of the existing and future traffic volumes entering and exiting the property and the examination of the need for auxiliary lanes on CR 9 at the entrances of the development.

The property currently has multiple buildings including a residential single detached dwelling, three agriculture buildings, shop farm equipment, and a drive shed. The property is serviced by three unpaved entrances located about 900 m to the west of CR 9 and Highway 7 and about 175 m to the east of Edgewood Park. The lands surrounding the development are a mix of residential, agricultural, and natural heritage features. An aerial photo sketching the location plan of the development is included in **Appendix A**.

The proposed industrial rental building will be one of the agriculture buildings with Gross Floor Areas (GFAs) of 214.53 m² (about 2400 square feet). **Appendix B** includes a conceptual site plan for the proposed development and its details.

2.0 Background Traffic Analysis

2.1 Roadway Existing Conditions

Within the study area, CR 9 is located on the north side of the proposed development and stretches in the east-west direction. CR 9 is a two-way two-lane road with a double solid yellow centerline marking and a rural cross-section, which includes unpaved shoulders and ditches. The speed limit on CR 9 is 80 km/hr in this area.

2.2 Existing and Future Background Traffic Conditions

This study uses the traffic counts that were collected by Ontario Traffic Inc. and was conducted on August 16, 2022, at the three entrances of the property on CR 9. These counts are considered to be collected on a typical weekday and can be found in **Appendix C**. The traffic counts indicated that the AM and PM peak hours occur between 8:15 am and 9:15 am, and 4:30 pm and 5:30 pm, respectively.

To obtain traffic volumes for the horizon years 2027 and 2032, the future traffic counts are estimated using an annual growth rate of 2%, as a conservative assumption. The projected traffic volumes on CR 9 over the study horizon for the AM and PM peak hours are presented in **Table 1**. The traffic turning movements at the entrances of the property are shown in **Table 2**. As shown from the tables, the traffic volumes using the property with

the existing land uses are none during the AM peak and very low during the PM peak hour. During the PM peak hour, the existing total entering volume to the property is 5 veh/hr, while the exiting volume is 4 veh/hr. Both volumes are less than 3% of the total volume on CR 9.

Table 1 - Existing and Future Traffic Volumes on CR 9

	EBT	WBT	Total
AM Peak Hour			
2022	140	82	222
2027	155	91	246
2032	171	100	271
PM Peak Hour			
2022	125	221	346
2027	138	244	382
2032	152	269	421

Table 2 – Existing and Future Traffic Volumes of the Entrances

	West Entrance				Middle Entrance				East Entrance			
	EBR	WBL	NBL	NBR	EBR	WBL	NBL	NBR	EBR	WBL	NBL	NBR
AM Peak Hour												
2022	0	0	0	0	0	0	0	0	0	0	0	0
2027	0	0	0	0	0	0	0	0	0	0	0	0
2032	0	0	0	0	0	0	0	0	0	0	0	0
PM Peak Hour												
2022	1	1	0	2	0	1	0	0	1	1	0	2
2027	1	1	0	2	0	1	0	0	1	1	0	2
2032	1	1	0	2	0	1	0	0	1	1	0	2

Based on the review of the traffic counts received from the County as in **Appendix D**, the PM peak hour traffic volume on CR 9 in fall 2019 is 329 veh/hr and 401 veh/hr for both directions during the AM and PM peak hours, respectively. However, the AM and PM peak hour traffic volumes collected for this study showed the traffic volumes are 222 veh/hr and 346 veh/hr. To account for a worst-case scenario in this section, an adjustment factor is applied to the summer 2022 counts. This factor is estimated as the ratio between the fall 2019 counts and the summer 2022 counts and equals 1.48 and 1.156 for AM and PM peak hours, respectively. Accordingly, the adjusted traffic counts are summarized in **Table 3**.

Table 3 - Adjusted Traffic Volumes on CR 9

	EBT	WBT	Total
AM Peak Hour			
2022	207	122	329
2027	230	135	365
2032	253	148	402
PM Peak Hour			
2022	144	255	400
2027	159	282	441
2032	176	311	487

3.0 Traffic Operation Conditions with the Development Consideration

3.1 Trip Generation

For the agriculture buildings, the client has indicated that approximately 5 employees work currently there for the processing and sale of hemp oil and the working hours are on weekdays from 9 am to 5 pm and on Saturdays from 11 am to 2 pm. The travel behavior related to this land use has been already captured during the traffic counts as discussed before. Therefore, this land use will not be included in the trip generation calculations. Similarly, the residential dwelling-related traffic was already captured in the traffic count. Accordingly, the trip generation from the proposed development will be only estimated.

The estimation of trips generated by the proposed development was derived from the *Trip Generation Manual, 11th Edition*¹, published by the Institute of Transportation Engineers (ITE). The ITE code of the land use, which closely describes panel restoration facility, is Land Use: 110 (General Light Industrial). The corresponding average trip generation rates for both the AM and the PM peaks and the percentages of entering and exiting are shown in **Table 4**.

Table 4 - Trip Generation Rates during AM and PM Peak Hours of the Generator

Land Use	ITE Code	AM Peak			PM Peak		
		Avg. Rate	Entering	Exiting	Avg. Rate	Entering	Exiting
General Light Industrial	110	0.91	87%	13%	0.8	18%	82%

The average trip generation rates provided by the ITE Manual for the peak hours of the generator (i.e., the proposed panel restoration) were used. The results summary of the

¹ Trip Generation Manual, Vol. 1, 2, and 3, 11th ed. ITE, Washington, D.C., 2021.

new trips generated (rounded) is presented in **Table 5**. The trips were estimated based on the proposed GFA of the building.

Table 5 - The Estimated Entering and Exiting Trips during the Peak Hours

Land Use	GFA (1,000 ft ²)	AM Peak			PM Peak		
		Avg. Rate	Entering	Exiting	Avg. Rate	Entering	Exiting
Roker Panel Restoration	2.4	2	2	0	2	0	2
Total		2	2	0	2	0	2

3.2 Trip Distribution and Assignment

Based on the characteristics of the proposed development and to assume a worst-case scenario, the generated trips will be assumed to enter the development by turning left from CR 9 (westbound left) and it is also assumed that all the existing and anticipated traffic from the development will use the same entrance while entering as shown in Table 6.

Table 6 – Turning Movement Volumes at the Development Entrances including Existing Traffic

Peak Hour	EBT	EBR	WBL	WBT	NBL	NBR
AM	0	0	2	0	0	0
PM	0	0	7	0	0	6

Accordingly, the traffic at the entrances of the development is shown in **Table 7** with the proposed development consideration.

Table 7 – Total Traffic Volumes at the Development Entrance

	EBT	EBR	WBL	WBT	NBL	NBR
AM Peak Hour						
2022	207	0	2	122	0	0
2027	230	0	2	135	0	0
2032	253	0	2	148	0	0
PM Peak Hour						
2022	144	0	7	255	0	6
2027	159	0	7	282	0	6
2032	176	0	7	311	0	6

3.3 Auxiliary Lanes Warrant Analyses for the Future Traffic Condition

The warrants for auxiliary lanes were examined on CR 9 at the entrance of the property in accordance with Appendix 9A of MTO's Design Supplement for the 2017 Transportation

Association of Canada (TAC) Geometric Design Guide for Canadian Roads. The warrant for the left-turn lane is examined using the traffic volumes that are summarized in **Table 7**.

The need for a left-turn lane at an unsignalized intersection (i.e. the entrances of the development on CR 9) as established by the Design Supplement, Chapter 9A is based on the advancing traffic volume (V_A), the opposing traffic volume (V_O), the left-turning traffic volume (V_L), and the percentage of left-turning traffic in the advancing volume (LT%). As shown in **Table 8**, the left-turning percentages are less than 3% for both AM and PM peak hours. Therefore, these low left-turning volumes will not warrant a left-turn lane.

Table 8 – Westbound Left Turning Volume Calculations at the Entrance of the Development on CR 9

	V_L	V_A	LT%	V_O
AM Peak				
2022	2	124	2%	207
2027	2	137	1%	230
2032	2	150	1%	253
PM Peak				
2022	7	262	3%	144
2027	7	289	2%	159
2032	7	318	2%	176

For a right-turn lane at the entrance of the development and if assumed that all the entering traffic will turn right, it is anticipated that around 7 veh/hr will turn right into the development from CR 9. This low volume will not trigger a right turn taper or lane according to the County's guidelines.

4.0 Conclusions and Recommendations

This Traffic Impact Study investigates and evaluates the impact of the proposed panel restoration facility at the south side of CR 9 and about 900 m to the west of Highway 7 and CR 9 intersection and about 175 m to the east of Edgewood Park. The proposed development will include only one building with a Gross Floor Area of about 2,400 ft². The background traffic operation and the traffic operation with the consideration of the traffic generated from the development at the intersection within the study area were assessed.

The study area that will be impacted by the development is identified as the entrances of the proposed development on CR 9. The analysis of the existing and adjusted traffic counts at the entrances of the development showed that left or right turn lanes are not warranted now or in the future. Moreover, based on the analysis completed in this study, the new trips generated by the development will not have any impact on CR 9. The entrances of the development should be designed according to the County's guidelines as in the following standards: MTOD 0305.140 and MTOD 0305.150.

Sincerely,



Mostafa Tawfeek Mohammed, Ph.D., P.Eng., RSP1
Traffic Engineer
D.M. Wills Associates Limited

Appendix A

Location Plan



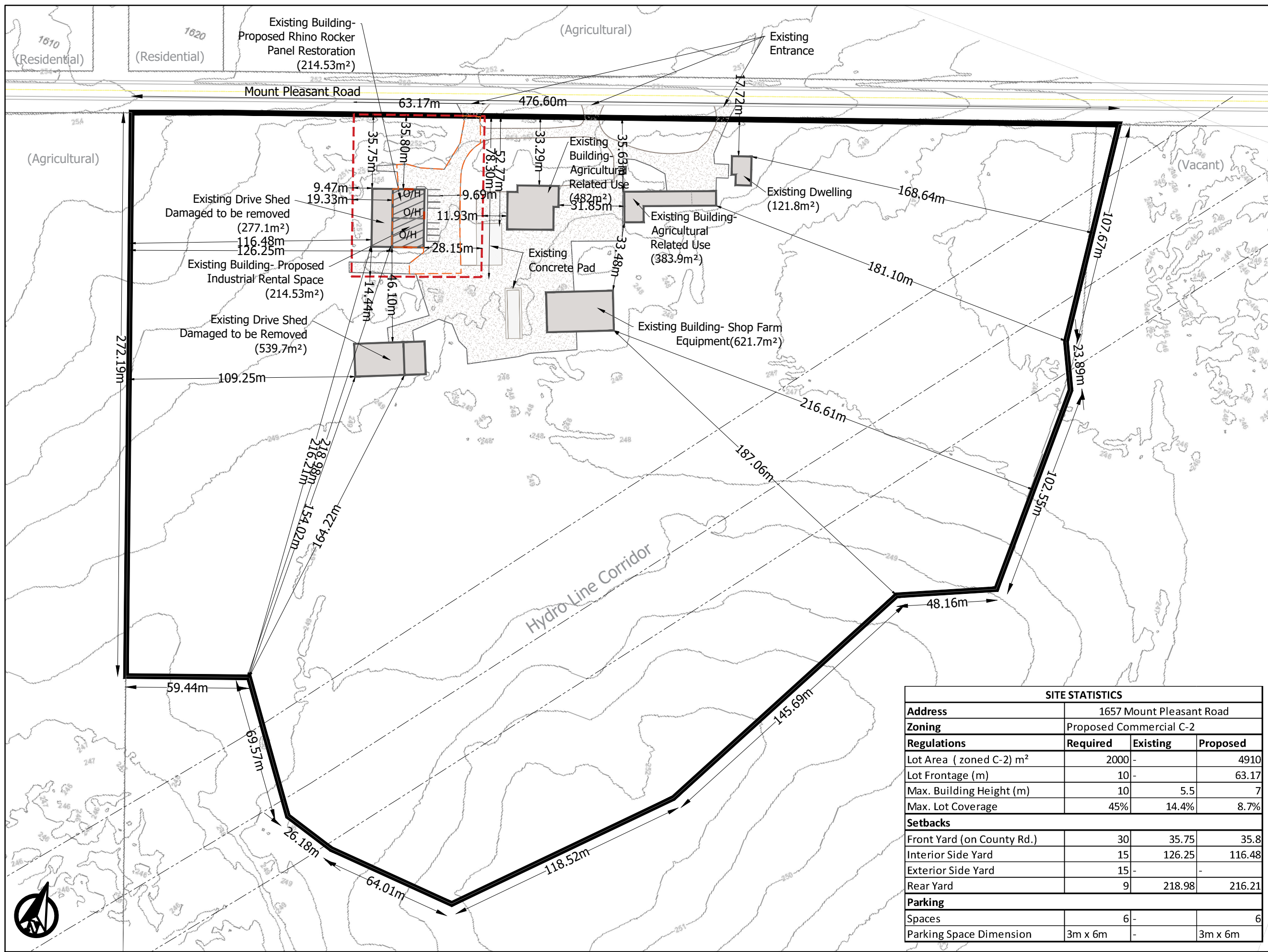


***For illustration purposes only. Not to scale.**

Appendix B

Conceptual Site Plan





Concept Plan and Zoning Overall Sketch
 1657 Mont Pleasant Road
 Part of Lot 22, Concession 13
 Cavan Monaghan
 County of Peterborough

- Legend**
- Subject Property (13.65ha)
 - Existing Features**
 - Existing Overhead/Sliding Door
 - Existing Hydro Overhead Wires
 - Existing Concrete Pad
 - Existing Gravel Driveway
 - Existing Building
 - Existing Building Subject to Proposed Use
 - Zoning By-law**
 - Land subject to proposed zoning by-law amendment (0.49ha)
 - On-farm Diversified Use**
 - Lands subject to proposed on-farm diversified use (1727.47m²/0.17ha)
- Scale: 1:1750 m
 NAD 1983 UTM Zone 17N

SITE STATISTICS			
Address	1657 Mount Pleasant Road		
Zoning	Proposed Commercial C-2		
Regulations	Required	Existing	Proposed
Lot Area (zoned C-2) m ²	2000	-	4910
Lot Frontage (m)	10	-	63.17
Max. Building Height (m)	10	5.5	7
Max. Lot Coverage	45%	14.4%	8.7%
Setbacks			
Front Yard (on County Rd.)	30	35.75	35.8
Interior Side Yard	15	126.25	116.48
Exterior Side Yard	15	-	-
Rear Yard	9	218.98	216.21
Parking			
Spaces	6	-	6
Parking Space Dimension	3m x 6m	-	3m x 6m




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Appendix C

Traffic Data (Ontario Traffic Inc)





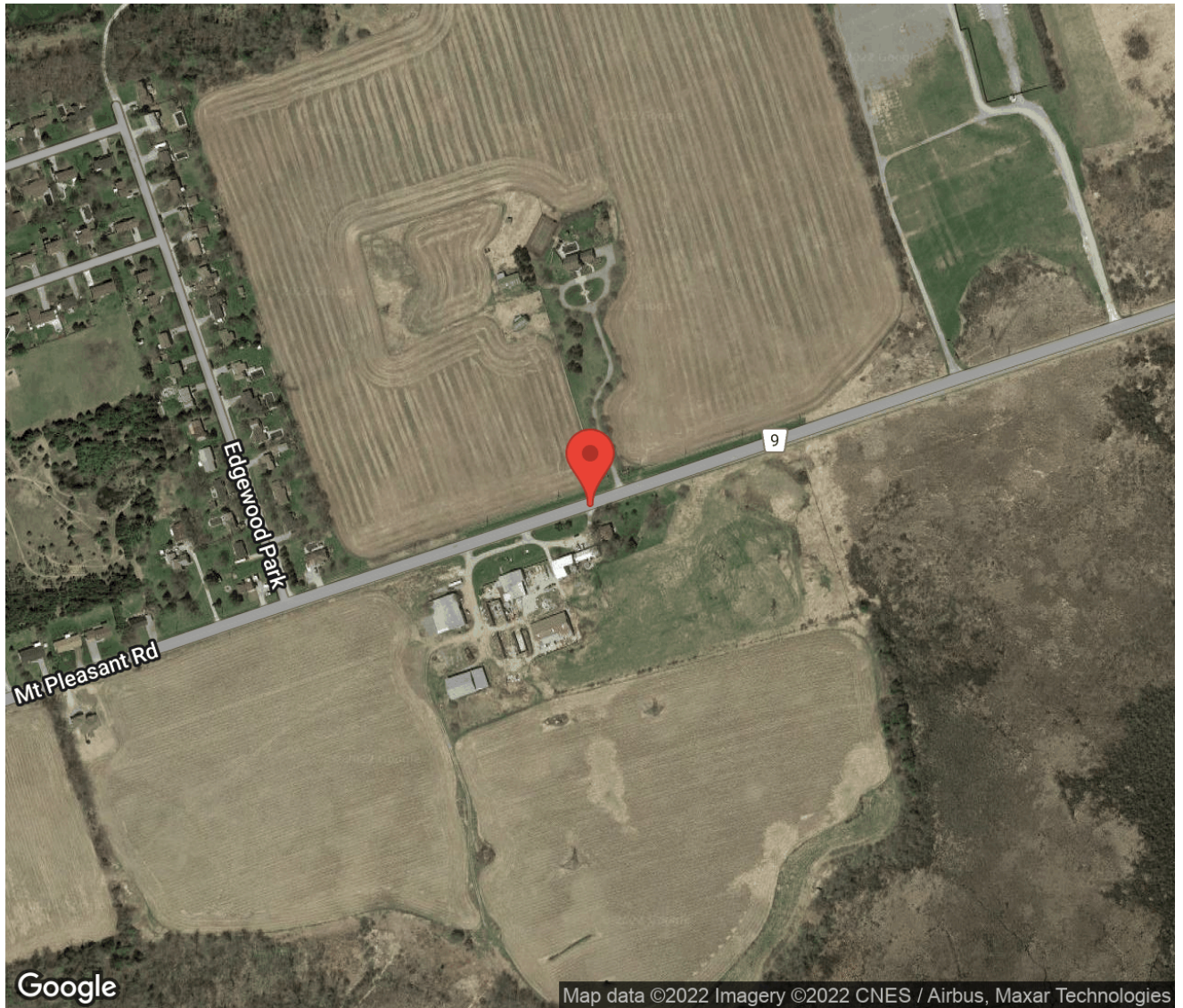
Project #22-271 - D.M. Wills Associates

Intersection Count Report

Intersection: Mt Pleasant Rd & Commercial Access (East Driveway)
Municipality: Cavan
Count Date: Tuesday, Aug 16, 2022
Site Code: 2227100001
Count Categories: Cars, Trucks, Bicycles, Pedestrians
Count Period: 07:00-18:00
Weather: Clear
Comments:

Traffic Count Map

Intersection: Mt Pleasant Rd & Commercial Access (East Driveway)
Site Code: 2227100001
Municipality: Cavan
Count Date: Aug 16, 2022





Traffic Count Summary

Intersection: Mt Pleasant Rd & Commercial Access (East Driveway)
 Site Code: 2227100001
 Municipality: Cavan
 Count Date: Aug 16, 2022

Commercial Access - Traffic Summary

Hour	North Approach Totals						South Approach Totals						Total
	Includes Cars, Trucks, Bicycles						Includes Cars, Trucks, Bicycles						
	Left	Thru	Right	U-Turn	Total	Peds	Left	Thru	Right	U-Turn	Total	Peds	
07:00 - 08:00	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 - 09:00	0	0	0	0	0	0	0	0	0	0	0	0	0
09:00 - 10:00	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 - 11:00	0	0	0	0	0	0	0	0	2	0	2	0	2
11:00 - 12:00	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 - 13:00	0	0	0	0	0	0	0	0	0	0	0	0	0
13:00 - 14:00	0	0	0	0	0	0	0	0	1	0	1	0	1
14:00 - 15:00	0	0	0	0	0	0	0	0	0	0	0	0	0
15:00 - 16:00	0	0	0	0	0	0	0	0	0	0	0	0	0
16:00 - 17:00	0	0	0	0	0	0	0	0	1	0	1	0	1
17:00 - 18:00	0	0	0	0	0	0	0	0	2	0	2	0	2
GRAND TOTAL	0	0	0	0	0	0	0	0	6	0	6	0	6



Traffic Count Summary

Intersection: Mt Pleasant Rd & Commercial Access (East Driveway)
 Site Code: 2227100001
 Municipality: Cavan
 Count Date: Aug 16, 2022

Mt Pleasant Rd - Traffic Summary

Hour	East Approach Totals						West Approach Totals						Total
	Includes Cars, Trucks, Bicycles						Includes Cars, Trucks, Bicycles						
	Left	Thru	Right	U-Turn	Total	Peds	Left	Thru	Right	U-Turn	Total	Peds	
07:00 - 08:00	0	54	0	0	54	0	0	123	0	0	123	0	177
08:00 - 09:00	0	79	0	0	79	0	0	141	0	0	141	0	220
09:00 - 10:00	0	65	0	0	65	0	0	115	0	0	115	0	180
10:00 - 11:00	1	64	0	0	65	0	0	95	0	0	95	0	160
11:00 - 12:00	0	93	0	0	93	0	0	106	0	0	106	0	199
12:00 - 13:00	1	81	0	0	82	0	0	118	0	0	118	0	200
13:00 - 14:00	0	121	0	0	121	0	0	102	0	0	102	0	223
14:00 - 15:00	0	120	0	0	120	0	0	91	0	0	91	0	211
15:00 - 16:00	0	142	0	0	142	0	0	105	0	0	105	0	247
16:00 - 17:00	1	183	0	0	184	0	0	134	1	0	135	0	319
17:00 - 18:00	1	194	0	0	195	0	0	123	0	0	123	0	318
GRAND TOTAL	4	1196	0	0	1200	0	0	1253	1	0	1254	0	2454

Start Time	Cars					Trucks					Bicycles					Total Peds
	↶	↷	↷	↶	Total	↶	↷	↷	↶	Total	↶	↷	↷	↶	Total	
12:00	1	19	0	0	20	0	1	0	0	1	0	0	0	0	0	0
12:15	0	17	0	0	17	0	1	0	0	1	0	0	0	0	0	0
12:30	0	21	0	0	21	0	2	0	0	2	0	0	0	0	0	0
12:45	0	19	0	0	19	0	1	0	0	1	0	0	0	0	0	0
13:00	0	18	0	0	18	0	1	0	0	1	0	0	0	0	0	0
13:15	0	27	0	0	27	0	1	0	0	1	0	0	0	0	0	0
13:30	0	38	0	0	38	0	1	0	0	1	0	0	0	0	0	0
13:45	0	35	0	0	35	0	0	0	0	0	0	0	0	0	0	0
14:00	0	32	0	0	32	0	3	0	0	3	0	0	0	0	0	0
14:15	0	23	0	0	23	0	0	0	0	0	0	0	0	0	0	0
14:30	0	25	0	0	25	0	1	0	0	1	0	0	0	0	0	0
14:45	0	35	0	0	35	0	1	0	0	1	0	0	0	0	0	0
15:00	0	32	0	0	32	0	0	0	0	0	0	0	0	0	0	0
15:15	0	36	0	0	36	0	1	0	0	1	0	0	0	0	0	0
15:30	0	34	0	0	34	0	0	0	0	0	0	0	0	0	0	0
15:45	0	37	0	0	37	0	2	0	0	2	0	0	0	0	0	0
16:00	1	39	0	0	40	0	0	0	0	0	0	0	0	0	0	0
16:15	0	43	0	0	43	0	0	0	0	0	0	0	0	0	0	0
16:30	0	53	0	0	53	0	2	0	0	2	0	0	0	0	0	0
16:45	0	44	0	0	44	0	2	0	0	2	0	0	0	0	0	0
17:00	1	58	0	0	59	0	0	0	0	0	0	0	0	0	0	0
17:15	0	61	0	0	61	0	1	0	0	1	0	0	0	0	0	0
17:30	0	36	0	0	36	0	1	0	0	1	0	0	0	0	0	0
17:45	0	34	0	0	34	0	3	0	0	3	0	0	0	0	0	0
SUBTOTAL	4	1154	0	0	1158	0	42	0	0	42	0	0	0	0	0	0
GRAND TOTAL	4	1154	0	0	1158	0	42	0	0	42	0	0	0	0	0	0

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
12:00	0	34	0	0	34	0	2	0	0	2	0	0	0	0	0	0
12:15	0	27	0	0	27	0	0	0	0	0	0	0	0	0	0	0
12:30	0	25	0	0	25	0	1	0	0	1	0	0	0	0	0	0
12:45	0	29	0	0	29	0	0	0	0	0	0	0	0	0	0	0
13:00	0	27	0	0	27	0	1	0	0	1	0	0	0	0	0	0
13:15	0	36	0	0	36	0	0	0	0	0	0	0	0	0	0	0
13:30	0	21	0	0	21	0	1	0	0	1	0	0	0	0	0	0
13:45	0	14	0	0	14	0	2	0	0	2	0	0	0	0	0	0
14:00	0	24	0	0	24	0	0	0	0	0	0	0	0	0	0	0
14:15	0	18	0	0	18	0	0	0	0	0	0	0	0	0	0	0
14:30	0	19	0	0	19	0	0	0	0	0	0	0	0	0	0	0
14:45	0	28	0	0	28	0	2	0	0	2	0	0	0	0	0	0
15:00	0	23	0	0	23	0	0	0	0	0	0	0	0	0	0	0
15:15	0	26	0	0	26	0	1	0	0	1	0	0	0	0	0	0
15:30	0	24	0	0	24	0	1	0	0	1	0	0	0	0	0	0
15:45	0	28	0	0	28	0	2	0	0	2	0	0	0	0	0	0
16:00	0	34	0	0	34	0	4	0	0	4	0	0	0	0	0	0
16:15	0	29	0	0	29	0	2	0	0	2	0	0	0	0	0	0
16:30	0	37	1	0	38	0	1	0	0	1	0	0	0	0	0	0
16:45	0	26	0	0	26	0	1	0	0	1	0	0	0	0	0	0
17:00	0	27	0	0	27	0	1	0	0	1	0	0	0	0	0	0
17:15	0	33	0	0	33	0	0	0	0	0	0	0	0	0	0	0
17:30	0	32	0	0	32	0	1	0	0	1	0	0	0	0	0	0
17:45	0	29	0	0	29	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	1212	1	0	1213	0	41	0	0	41	0	0	0	0	0	0
GRAND TOTAL	0	1212	1	0	1213	0	41	0	0	41	0	0	0	0	0	0

Peak Hour Diagram

Specified Period

From: 07:00:00
To: 10:00:00

One Hour Peak

From: 08:15:00
To: 09:15:00




Intersection: Mt Pleasant Rd & Commercial Access (East Driveway)
Site Code: 2227100001
Count Date: Aug 16, 2022

Weather conditions: Clear




**** Unsignalized Intersection ****

Major Road: Mt Pleasant Rd runs E/W

East Approach

	Out	In	Total
	77	136	213
	5	4	9
	0	0	0
	82	140	222

Mt Pleasant Rd

			Totals
0	0	0	0
0	4	136	140
0	0	0	0




Peds: 0

Peds: 0






Peds: 0




Mt Pleasant Rd

Totals			
0	0	0	0
82	77	5	0
0	0	0	0

Peds: 0




West Approach

	Out	In	Total
	136	77	213
	4	5	9
	0	0	0
	140	82	222


Totals			
0	0	0	0
0	0	0	0
0	0	0	0

Commercial Access

South Approach

	Out	In	Total
	0	0	0
	0	0	0
	0	0	0
	0	0	0

 - Cars

 - Trucks

 - Bicycles

Comments



Peak Hour Summary

Intersection: Mt Pleasant Rd & Commercial Access (East Driveway)
 Site Code: 2227100001
 Count Date: Aug 16, 2022
 Period: 07:00 - 10:00

Peak Hour Data (08:15 - 09:15)

Start Time	North Approach				South Approach Commercial Access				East Approach Mt Pleasant Rd				West Approach Mt Pleasant Rd				Total Vehicles									
	←	↑	→	↻	Peds	Total	←	↑	→	↻	Peds	Total	←	↑	→	↻		Peds	Total							
08:15					0		0		0	0	0	0	0	17			0	0	17		32	0	0	0	32	49
08:30					0		0		0	0	0	0	0	19			0	0	19		46	0	0	0	46	65
08:45					0		0		0	0	0	0	0	29			0	0	29		29	0	0	0	29	58
09:00					0		0		0	0	0	0	0	17			0	0	17		33	0	0	0	33	50
Grand Total					0	0	0	0	0	0	0	0	0	82	0	0	0	0	82	140	0	0	0	140	222	
Approach %					-		0	0	0	-			0	100	0	-				100	0	0	-			
Totals %						0		0	0		0	36.9		36.9		0		36.9		63.1	0	0		63.1		
PHF					0	0	0	0	0	0	0	0.71	0	0.71	0	0.71	0.76	0	0	0.76	0	0	0.76	0.85		
Cars					0		0		0	0	0	77	0	77			136	0	0	136	213					
% Cars					0		0		0	0	0	93.9	0	93.9			97.1	0	0	97.1	95.9					
Trucks					0		0		0	0	0	5	0	5			4	0	0	4	9					
% Trucks					0		0		0	0	0	6.1	0	6.1			2.9	0	0	2.9	4.1					
Bicycles					0		0		0	0	0	0	0	0			0	0	0	0	0					
% Bicycles					0		0		0	0	0	0	0	0			0	0	0	0	0					
Peds					0	-			0	-			0	-				0	-	0	-			0		
% Peds					0	-			0	-			0	-				0	-	0	-			0		

Peak Hour Diagram

Specified Period

From: 10:00:00
To: 14:00:00

One Hour Peak

From: 13:00:00
To: 14:00:00

Intersection: Mt Pleasant Rd & Commercial Access (East Driveway)
Site Code: 2227100001
Count Date: Aug 16, 2022

Weather conditions: Clear

**** Unsignalized Intersection ****

Major Road: Mt Pleasant Rd runs E/W

East Approach

	Out	In	Total
	118	99	217
	3	4	7
	0	0	0
Totals	121	103	224

Mt Pleasant Rd

			Totals
0	0	0	0
0	4	98	102
0	0	0	0

Peds: 0



Peds: 0

Peds: 0

Peds: 0

Mt Pleasant Rd

Totals			
0	0	0	0
121	118	3	0
0	0	0	0

West Approach

	Out	In	Total
	98	118	216
	4	3	7
	0	0	0
Totals	102	121	223

Totals	0	1	0
	0	1	0
	0	0	0
	0	0	0

Commercial Access

South Approach

	Out	In	Total
	1	0	1
	0	0	0
	0	0	0
Totals	1	0	1

- Cars

- Trucks

- Bicycles

Comments



Peak Hour Summary

Intersection: Mt Pleasant Rd & Commercial Access (East Driveway)
 Site Code: 2227100001
 Count Date: Aug 16, 2022
 Period: 10:00 - 14:00

Peak Hour Data (13:00 - 14:00)

Start Time	North Approach				South Approach Commercial Access				East Approach Mt Pleasant Rd				West Approach Mt Pleasant Rd				Total Vehicles									
	←	↑	→	↻	Peds	Total	←	↑	→	↻	Peds	Total	←	↑	→	↻		Peds	Total							
13:00					0		0		1	0	0	1	0	19			0	0	19		28	0	0	0	28	48
13:15					0		0		0	0	0	0	0	28			0	0	28		36	0	0	0	36	64
13:30					0		0		0	0	0	0	0	39			0	0	39		22	0	0	0	22	61
13:45					0		0		0	0	0	0	0	35			0	0	35		16	0	0	0	16	51
Grand Total					0	0	0		1	0	0	1	0	121			0	0	121		102	0	0	0	102	224
Approach %					-		0		100	0		-	0	100			0		-		100	0	0		-	
Totals %					0		0		0.4	0		0.4	0	54			0		54		45.5	0	0		45.5	
PHF					0	0	0		0.25	0		0.25	0	0.78			0	0.78	0		0.71	0	0		0.71	0.88
Cars					0		0		1	0		1	0	118			0		118		98	0	0		98	217
% Cars					0		0		100	0		100	0	97.5			0		97.5		96.1	0	0		96.1	96.9
Trucks					0		0		0	0		0	0	3			0		3		4	0	0		4	7
% Trucks					0		0		0	0		0	0	2.5			0		2.5		3.9	0	0		3.9	3.1
Bicycles					0		0		0	0		0	0	0			0		0		0	0	0		0	0
% Bicycles					0		0		0	0		0	0	0			0		0		0	0	0		0	0
Peds					0	-						-							-		0				-	0
% Peds					0	-						-							-		0				-	0

Peak Hour Diagram

Specified Period

From: 14:00:00
To: 18:00:00

One Hour Peak

From: 16:30:00
To: 17:30:00




Intersection: Mt Pleasant Rd & Commercial Access (East Driveway)
Site Code: 2227100001
Count Date: Aug 16, 2022

Weather conditions: Clear




**** Unsignalized Intersection ****

Major Road: Mt Pleasant Rd runs E/W

East Approach

	Out	In	Total
	217	125	342
	5	3	8
	0	0	0
Totals	222	128	350

Mt Pleasant Rd

			Totals
0	0	0	0
0	3	123	126
0	0	1	1




Peds: 0



Peds: 0




Peds: 0







Mt Pleasant Rd

Totals			
0	0	0	0
221	216	5	0
1	1	0	0

Peds: 0




West Approach

	Out	In	Total
	124	216	340
	3	5	8
	0	0	0
Totals	127	221	348


Totals			
0	2	0	0
	0	2	0
	0	0	0
	0	0	0

Commercial Access

South Approach

	Out	In	Total
	2	2	4
	0	0	0
	0	0	0
Totals	2	2	4

 - Cars

 - Trucks

 - Bicycles

Comments



Peak Hour Summary

Intersection: Mt Pleasant Rd & Commercial Access (East Driveway)
 Site Code: 2227100001
 Count Date: Aug 16, 2022
 Period: 14:00 - 18:00

Peak Hour Data (16:30 - 17:30)

Start Time	North Approach				South Approach Commercial Access				East Approach Mt Pleasant Rd				West Approach Mt Pleasant Rd				Total Vehicles									
	←	↑	→	↻	Peds	Total	←	↑	→	↻	Peds	Total	←	↑	→	↻		Peds	Total							
16:30					0		0		0	0	0		0	55			0	0	55		38	1	0	0	39	94
16:45					0		0		1	0	0	1	0	46			0	0	46		27	0	0	0	27	74
17:00					0		0		1	0	0	1	1	58			0	0	59		28	0	0	0	28	88
17:15					0		0		0	0	0	0	0	62			0	0	62		33	0	0	0	33	95
Grand Total					0	0	0		2	0	0	2	1	221			0	0	222		126	1	0	0	127	351
Approach %					-		0		100	0	-		0.5	99.5			0		-		99.2	0.8	0		-	
Totals %							0		0.6	0	0.6		0.3	63			0		63.2		35.9	0.3	0		36.2	
PHF					0	0	0		0.5	0	0.5		0.25	0.89			0		0.9		0.83	0.25	0		0.81	0.92
Cars					0		0		2	0	2		1	216			0		217		123	1	0		124	343
% Cars					0		0		100	0	100		100	97.7			0		97.7		97.6	100	0		97.6	97.7
Trucks					0		0		0	0	0		0	5			0		5		3	0	0		3	8
% Trucks					0		0		0	0	0		0	2.3			0		2.3		2.4	0	0		2.4	2.3
Bicycles					0		0		0	0	0		0	0			0		0		0	0	0		0	0
% Bicycles					0		0		0	0	0		0	0			0		0		0	0	0		0	0
Peds					0	-						-							-		0			-	0	
% Peds					0	-						-							-		0			-	0	



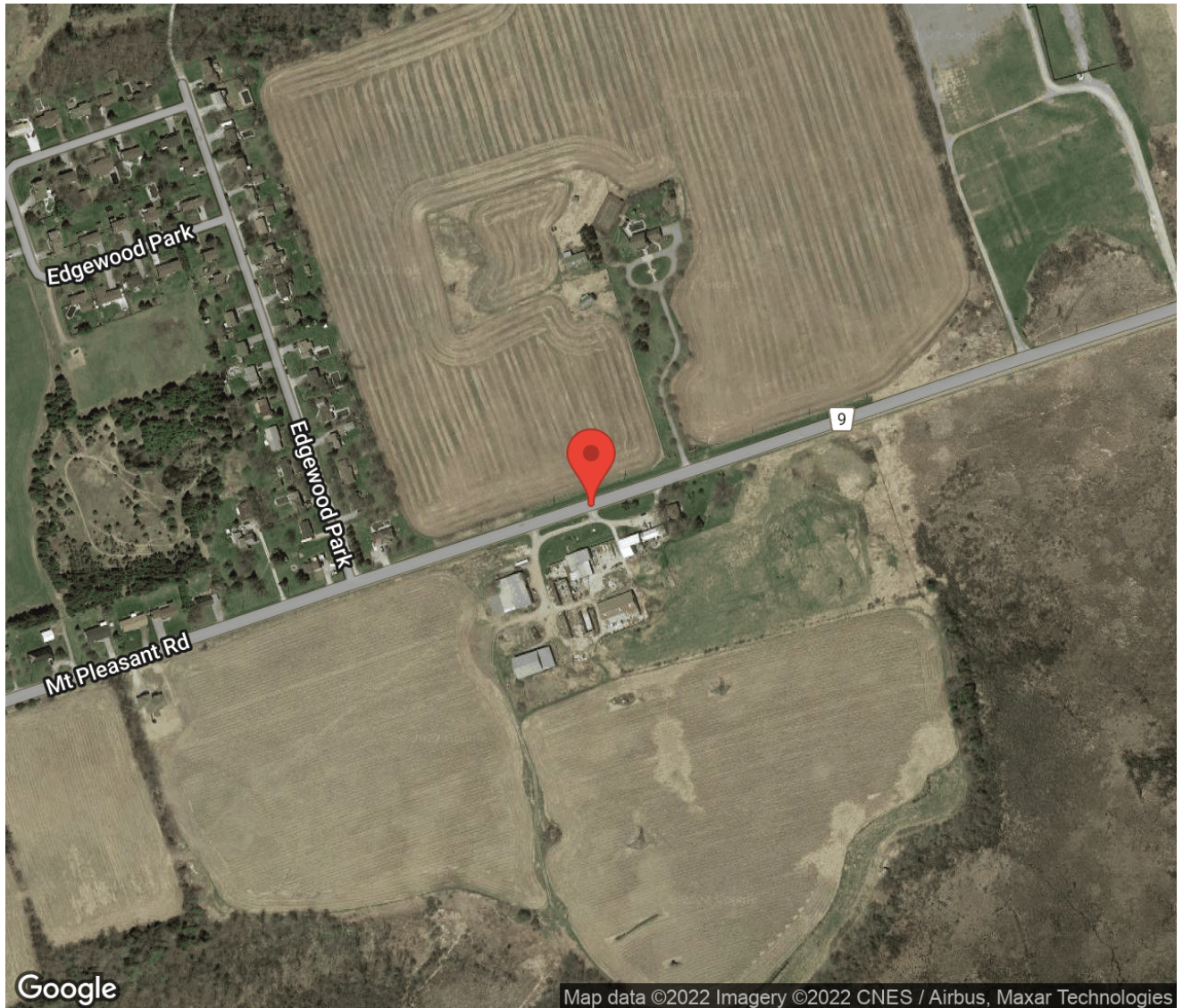
Project #22-271 - D.M. Wills Associates

Intersection Count Report

Intersection: Mt Pleasant Rd & Commercial Access (Middle Driveway)
Municipality: Cavan
Count Date: Tuesday, Aug 16, 2022
Site Code: 2227100002
Count Categories: Cars, Trucks, Bicycles, Pedestrians
Count Period: 07:00-18:00
Weather: Clear
Comments:

Traffic Count Map

Intersection: Mt Pleasant Rd & Commercial Access
(Middle Driveway)
Site Code: 2227100002
Municipality: Cavan
Count Date: Aug 16, 2022





Traffic Count Summary

Intersection: Mt Pleasant Rd & Commercial Access
 (Middle Driveway)
 Site Code: 2227100002
 Municipality: Cavan
 Count Date: Aug 16, 2022

Commercial Access (Middle Driveway) - Traffic Summary

Hour	North Approach Totals						South Approach Totals						Total
	Includes Cars, Trucks, Bicycles						Includes Cars, Trucks, Bicycles						
	Left	Thru	Right	U-Turn	Total	Peds	Left	Thru	Right	U-Turn	Total	Peds	
07:00 - 08:00	0	0	0	0	0	0	0	0	1	0	1	0	1
08:00 - 09:00	0	0	0	0	0	0	0	0	0	0	0	0	0
09:00 - 10:00	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 - 11:00	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 - 12:00	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 - 13:00	0	0	0	0	0	0	0	0	0	0	0	0	0
13:00 - 14:00	0	0	0	0	0	0	0	0	2	0	2	0	2
14:00 - 15:00	0	0	0	0	0	0	0	0	0	0	0	0	0
15:00 - 16:00	0	0	0	0	0	0	0	0	0	0	0	0	0
16:00 - 17:00	0	0	0	0	0	0	0	0	0	0	0	0	0
17:00 - 18:00	0	0	0	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL	0	0	0	0	0	0	0	0	3	0	3	0	3



Traffic Count Summary

Intersection: Mt Pleasant Rd & Commercial Access
 (Middle Driveway)
 Site Code: 2227100002
 Municipality: Cavan
 Count Date: Aug 16, 2022

Mt Pleasant Rd - Traffic Summary

Hour	East Approach Totals						West Approach Totals						Total
	Includes Cars, Trucks, Bicycles						Includes Cars, Trucks, Bicycles						
	Left	Thru	Right	U-Turn	Total	Peds	Left	Thru	Right	U-Turn	Total	Peds	
07:00 - 08:00	0	54	0	0	54	0	0	122	0	0	122	0	176
08:00 - 09:00	1	78	0	0	79	0	0	141	0	0	141	0	220
09:00 - 10:00	0	65	0	0	65	0	0	115	0	0	115	0	180
10:00 - 11:00	0	64	0	0	64	0	0	95	0	0	95	0	159
11:00 - 12:00	0	93	0	0	93	0	0	106	0	0	106	0	199
12:00 - 13:00	0	81	0	0	81	0	0	118	0	0	118	0	199
13:00 - 14:00	0	121	0	0	121	0	0	100	0	0	100	0	221
14:00 - 15:00	0	120	0	0	120	0	0	91	0	0	91	0	211
15:00 - 16:00	0	142	0	0	142	0	0	105	0	0	105	0	247
16:00 - 17:00	1	182	0	0	183	0	0	135	0	0	135	0	318
17:00 - 18:00	1	193	0	0	194	0	0	123	0	0	123	0	317
GRAND TOTAL	3	1193	0	0	1196	0	0	1251	0	0	1251	0	2447

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↺	Total	←	↑	→	↺	Total	←	↑	→	↺	Total	
12:00	0	34	0	0	34	0	2	0	0	2	0	0	0	0	0	0
12:15	0	27	0	0	27	0	0	0	0	0	0	0	0	0	0	0
12:30	0	25	0	0	25	0	1	0	0	1	0	0	0	0	0	0
12:45	0	29	0	0	29	0	0	0	0	0	0	0	0	0	0	0
13:00	0	25	0	0	25	0	1	0	0	1	0	0	0	0	0	0
13:15	0	36	0	0	36	0	0	0	0	0	0	0	0	0	0	0
13:30	0	21	0	0	21	0	1	0	0	1	0	0	0	0	0	0
13:45	0	14	0	0	14	0	2	0	0	2	0	0	0	0	0	0
14:00	0	24	0	0	24	0	0	0	0	0	0	0	0	0	0	0
14:15	0	18	0	0	18	0	0	0	0	0	0	0	0	0	0	0
14:30	0	19	0	0	19	0	0	0	0	0	0	0	0	0	0	0
14:45	0	28	0	0	28	0	2	0	0	2	0	0	0	0	0	0
15:00	0	23	0	0	23	0	0	0	0	0	0	0	0	0	0	0
15:15	0	26	0	0	26	0	1	0	0	1	0	0	0	0	0	0
15:30	0	24	0	0	24	0	1	0	0	1	0	0	0	0	0	0
15:45	0	28	0	0	28	0	2	0	0	2	0	0	0	0	0	0
16:00	0	34	0	0	34	0	4	0	0	4	0	0	0	0	0	0
16:15	0	29	0	0	29	0	2	0	0	2	0	0	0	0	0	0
16:30	0	38	0	0	38	0	1	0	0	1	0	0	0	0	0	0
16:45	0	26	0	0	26	0	1	0	0	1	0	0	0	0	0	0
17:00	0	27	0	0	27	0	1	0	0	1	0	0	0	0	0	0
17:15	0	33	0	0	33	0	0	0	0	0	0	0	0	0	0	0
17:30	0	32	0	0	32	0	1	0	0	1	0	0	0	0	0	0
17:45	0	29	0	0	29	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	1210	0	0	1210	0	41	0	0	41	0	0	0	0	0	0
GRAND TOTAL	0	1210	0	0	1210	0	41	0	0	41	0	0	0	0	0	0

Peak Hour Diagram

Specified Period

From: 07:00:00
To: 10:00:00

One Hour Peak

From: 08:15:00
To: 09:15:00

Intersection: Mt Pleasant Rd & Commercial Access (Middle Driveway)
Site Code: 2227100002
Count Date: Aug 16, 2022

Weather conditions: Clear

**** Unsignalized Intersection ****

Major Road: Mt Pleasant Rd runs E/W

East Approach

	Out	In	Total
	77	136	213
	5	4	9
	0	0	0
Totals	82	140	222

Mt Pleasant Rd

			Totals
0	0	0	0
0	4	136	140
0	0	0	0

Peds: 0

Peds: 0



Peds: 0

Mt Pleasant Rd

Totals			
0	0	0	0
82	77	5	0
0	0	0	0

West Approach

	Out	In	Total
	136	77	213
	4	5	9
	0	0	0
Totals	140	82	222

Totals			
0	0	0	0
0	0	0	0
0	0	0	0

Commercial Access (Middle Driveway)

South Approach

	Out	In	Total
	0	0	0
	0	0	0
	0	0	0
Totals	0	0	0

- Cars

- Trucks

- Bicycles

Comments



Peak Hour Summary

Intersection: Mt Pleasant Rd & Commercial Access (Middle Driveway)
 Site Code: 2227100002
 Count Date: Aug 16, 2022
 Period: 07:00 - 10:00

Peak Hour Data (08:15 - 09:15)

Start Time	North Approach				South Approach Commercial Access (Middle Driveway)				East Approach Mt Pleasant Rd				West Approach Mt Pleasant Rd				Total Vehicles									
	←	↑	→	↻	Peds	Total	←	↑	→	↻	Peds	Total	←	↑	→	↻		Peds	Total							
08:15					0		0		0	0	0	0	0	17			0	0	17		32	0	0	0	32	49
08:30					0		0		0	0	0	0	0	19			0	0	19		46	0	0	0	46	65
08:45					0		0		0	0	0	0	0	29			0	0	29		29	0	0	0	29	58
09:00					0		0		0	0	0	0	0	17			0	0	17		33	0	0	0	33	50
Grand Total					0	0	0	0	0	0	0	0	0	82	0	0	0	0	82	140	0	0	0	140	222	
Approach %					-	-	0	0	0	-	-	-	0	100	0	-	0	0	-	100	0	0	-	-	-	
Totals %					0	0	0	0	0	0	0	0	0	36.9	0	36.9	0	0	0	63.1	0	0	63.1	-		
PHF					0	0	0	0	0	0	0	0	0	0.71	0	0.71	0	0	0.76	0.76	0	0	0.76	0.85		
Cars					0	0	0	0	0	0	0	0	0	77	0	77	136	0	0	136	213					
% Cars					0	0	0	0	0	0	0	0	0	93.9	0	93.9	97.1	0	0	97.1	95.9					
Trucks					0	0	0	0	0	0	0	0	0	5	0	5	4	0	0	4	9					
% Trucks					0	0	0	0	0	0	0	0	0	6.1	0	6.1	2.9	0	0	2.9	4.1					
Bicycles					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
% Bicycles					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Peds					0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0					
% Peds					0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0					

Peak Hour Diagram

Specified Period

From: 10:00:00
To: 14:00:00

One Hour Peak

From: 13:00:00
To: 14:00:00

Intersection: Mt Pleasant Rd & Commercial Access (Middle Driveway)
Site Code: 2227100002
Count Date: Aug 16, 2022

Weather conditions: Clear

**** Unsignalized Intersection ****

Major Road: Mt Pleasant Rd runs E/W

East Approach

	Out	In	Total
	118	98	216
	3	4	7
	0	0	0
Totals	121	102	223

Mt Pleasant Rd

			Totals
0	0	0	0
0	4	96	100
0	0	0	0

Peds: 0

Peds: 0



Peds: 0

Peds: 0

Mt Pleasant Rd

Totals			
0	0	0	0
121	118	3	0
0	0	0	0

West Approach

Out	In	Total
96	118	214
4	3	7
0	0	0
100	121	221

Totals			
0	2	0	
0	0	0	
0	0	0	

Commercial Access (Middle Driveway)

South Approach

Out	In	Total
2	0	2
0	0	0
0	0	0
2	0	2

- Cars

- Trucks

- Bicycles

Comments



Peak Hour Summary

Intersection: Mt Pleasant Rd & Commercial Access (Middle Driveway)
 Site Code: 2227100002
 Count Date: Aug 16, 2022
 Period: 10:00 - 14:00

Peak Hour Data (13:00 - 14:00)

Start Time	North Approach				South Approach Commercial Access (Middle Driveway)				East Approach Mt Pleasant Rd				West Approach Mt Pleasant Rd				Total Vehicles							
	←	↑	→	↻	Peds	Total	←	↑	→	↻	Peds	Total	←	↑	→	↻		Peds	Total					
13:00					0		0		2	0	0	2	0	19		0	0	19	26	0	0	0	26	47
13:15					0		0		0	0	0	0	0	28		0	0	28	36	0	0	0	36	64
13:30					0		0		0	0	0	0	0	39		0	0	39	22	0	0	0	22	61
13:45					0		0		0	0	0	0	0	35		0	0	35	16	0	0	0	16	51
Grand Total					0	0	0	2	0	0	0	2	0	121	0	0	0	121	100	0	0	0	100	223
Approach %					-		0	100	0	-			0	100	0	-			100	0	0	-		
Totals %					0		0	0.9	0	0.9			0	54.3	0	54.3			44.8	0	0	44.8		
PHF					0	0	0.25	0	0.25	0	0.78	0	0.78	0.69	0	0	0.69	0.87						
Cars					0		0	2	0	2	0	118	0	118	96	0	0	96	216					216
% Cars					0		0	100	0	100	0	97.5	0	97.5	96	0	0	96	96.9					96.9
Trucks					0		0	0	0	0	0	3	0	3	4	0	0	4	7					7
% Trucks					0		0	0	0	0	0	2.5	0	2.5	4	0	0	4	3.1					3.1
Bicycles					0		0	0	0	0	0	0	0	0	0	0	0	0	0					0
% Bicycles					0		0	0	0	0	0	0	0	0	0	0	0	0	0					0
Peds					0	-			0	-				0	-				0	-				0
% Peds					0	-			0	-				0	-				0	-				0

Peak Hour Diagram

Specified Period

From: 14:00:00
To: 18:00:00

One Hour Peak

From: 16:30:00
To: 17:30:00

Intersection: Mt Pleasant Rd & Commercial Access (Middle Driveway)
Site Code: 2227100002
Count Date: Aug 16, 2022

Weather conditions: Clear

**** Unsignalized Intersection ****

Major Road: Mt Pleasant Rd runs E/W

East Approach

	Out	In	Total
	216	124	340
	5	3	8
	0	0	0
Totals	221	127	348

Mt Pleasant Rd

			Totals
0	0	0	0
0	3	124	127
0	0	0	0

Peds: 0

Peds: 0



Peds: 0

Peds: 0

Mt Pleasant Rd

Totals			
0	0	0	0
220	215	5	0
1	1	0	0

West Approach

	Out	In	Total
	124	215	339
	3	5	8
	0	0	0
Totals	127	220	347

Totals			
0	0	0	0
0	0	0	0
0	0	0	0

Commercial Access (Middle Driveway)

South Approach

	Out	In	Total
	0	1	1
	0	0	0
	0	0	0
Totals	0	1	1

- Cars

- Trucks

- Bicycles

Comments



Peak Hour Summary

Intersection: Mt Pleasant Rd & Commercial Access (Middle Driveway)
 Site Code: 2227100002
 Count Date: Aug 16, 2022
 Period: 14:00 - 18:00

Peak Hour Data (16:30 - 17:30)

Start Time	North Approach				South Approach Commercial Access (Middle Driveway)				East Approach Mt Pleasant Rd				West Approach Mt Pleasant Rd				Total Vehicles										
	←	↑	→	↻	Peds	Total	←	↑	→	↻	Peds	Total	←	↑	→	↻		Peds	Total								
16:30					0		0		0	0	0	0	1	54			0	0	55			39	0	0	0	39	94
16:45					0		0		0	0	0	0	0	46			0	0	46			27	0	0	0	27	73
17:00					0		0		0	0	0	0	0	58			0	0	58			28	0	0	0	28	86
17:15					0		0		0	0	0	0	0	62			0	0	62			33	0	0	0	33	95
Grand Total					0	0	0	0	0	0	0	0	1	220	0	0	0	0	221	127	0	0	0	0	127	348	
Approach %					-		0	0	0	-			0.5	99.5	0	-			-	100	0	0	-				
Totals %					0		0	0	0	0			0.3	63.2	0	63.5				36.5	0	0	36.5				
PHF					0	0	0	0	0	0	0	0	0.25	0.89	0	0.89	0.81	0	0	0.81	0	0	0.81	0.92			
Cars					0		0	0	0	0			1	215	0	216				124	0	0	124			340	
% Cars					0		0	0	0	0			100	97.7	0	97.7				97.6	0	0	97.6			97.7	
Trucks					0		0	0	0	0			0	5	0	5				3	0	0	3			8	
% Trucks					0		0	0	0	0			0	2.3	0	2.3				2.4	0	0	2.4			2.3	
Bicycles					0		0	0	0	0			0	0	0	0				0	0	0	0			0	
% Bicycles					0		0	0	0	0			0	0	0	0				0	0	0	0			0	
Peds					0	-			0	-					0	-						0	-			0	
% Peds					0	-			0	-					0	-						0	-			0	



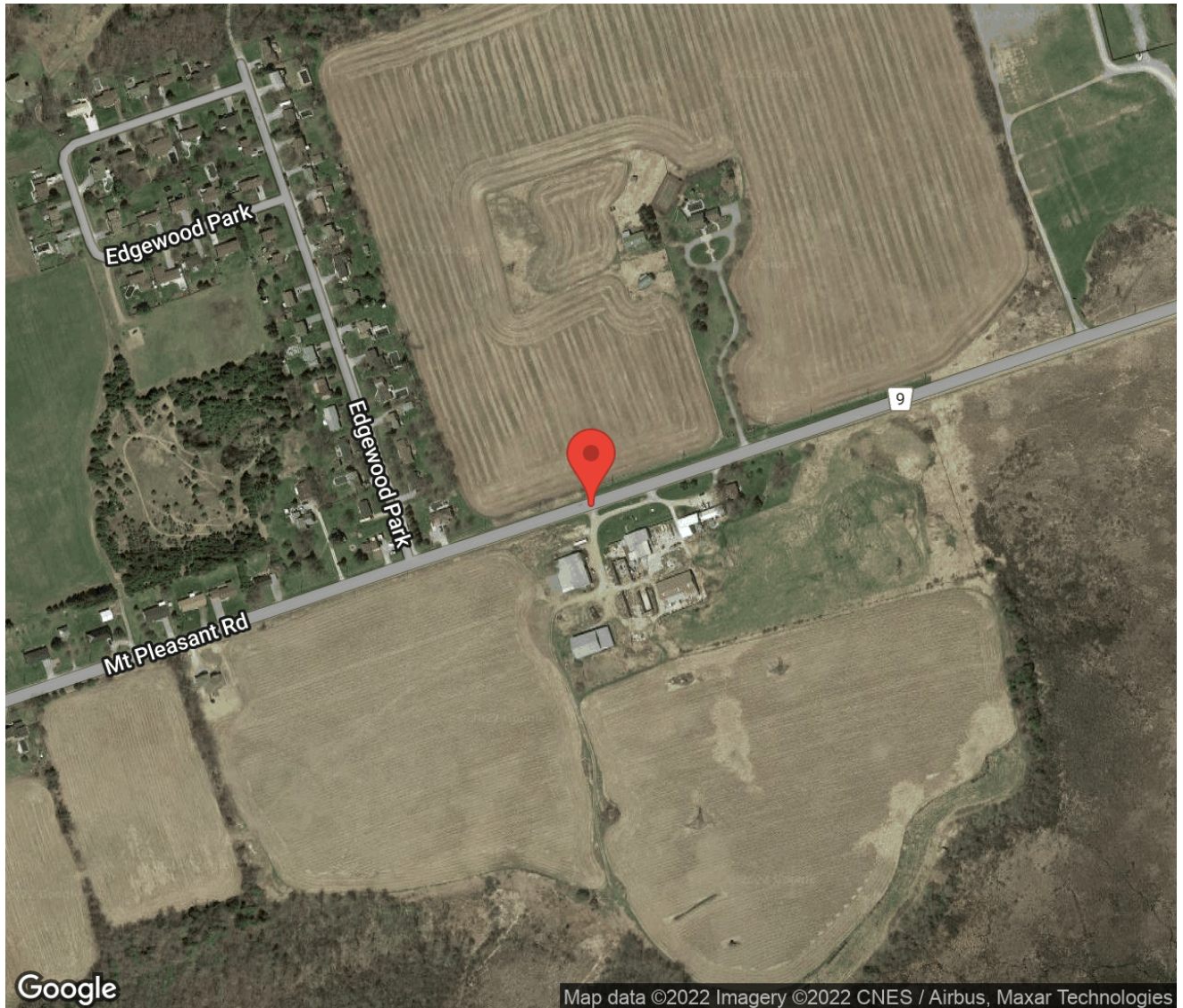
Project #22-271 - D.M. Wills Associates

Intersection Count Report

Intersection: Mt Pleasant Rd & Commercial Access (West Driveway)
Municipality: Cavan
Count Date: Tuesday, Aug 16, 2022
Site Code: 2227100003
Count Categories: Cars, Trucks, Bicycles, Pedestrians
Count Period: 07:00-18:00
Weather: Clear
Comments:

Traffic Count Map

Intersection: Mt Pleasant Rd & Commercial Access (West Driveway)
Site Code: 2227100003
Municipality: Cavan
Count Date: Aug 16, 2022





Traffic Count Summary

Intersection: Mt Pleasant Rd & Commercial Access (West Driveway)
 Site Code: 2227100003
 Municipality: Cavan
 Count Date: Aug 16, 2022

Commercial Access (West Driveway) - Traffic Summary

Hour	North Approach Totals						South Approach Totals						Total
	Includes Cars, Trucks, Bicycles						Includes Cars, Trucks, Bicycles						
	Left	Thru	Right	U-Turn	Total	Peds	Left	Thru	Right	U-Turn	Total	Peds	
07:00 - 08:00	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 - 09:00	0	0	0	0	0	0	0	0	0	0	0	0	0
09:00 - 10:00	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 - 11:00	0	0	0	0	0	0	0	0	2	0	2	0	2
11:00 - 12:00	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 - 13:00	0	0	0	0	0	0	0	0	0	0	0	0	0
13:00 - 14:00	0	0	0	0	0	0	0	0	1	0	1	0	1
14:00 - 15:00	0	0	0	0	0	0	0	0	0	0	0	0	0
15:00 - 16:00	0	0	0	0	0	0	0	0	0	0	0	0	0
16:00 - 17:00	0	0	0	0	0	0	0	0	1	0	1	0	1
17:00 - 18:00	0	0	0	0	0	0	0	0	2	0	2	0	2
GRAND TOTAL	0	0	0	0	0	0	0	0	6	0	6	0	6



Traffic Count Summary

Intersection: Mt Pleasant Rd & Commercial Access (West Driveway)
 Site Code: 2227100003
 Municipality: Cavan
 Count Date: Aug 16, 2022

Mt Pleasant Rd - Traffic Summary

Hour	East Approach Totals						West Approach Totals						Total
	Includes Cars, Trucks, Bicycles						Includes Cars, Trucks, Bicycles						
	Left	Thru	Right	U-Turn	Total	Peds	Left	Thru	Right	U-Turn	Total	Peds	
07:00 - 08:00	0	54	0	0	54	0	0	122	0	0	122	0	176
08:00 - 09:00	0	78	0	0	78	0	0	141	0	0	141	0	219
09:00 - 10:00	0	65	0	0	65	0	0	115	0	0	115	0	180
10:00 - 11:00	1	63	0	0	64	0	0	93	0	0	93	0	157
11:00 - 12:00	0	93	0	0	93	0	0	106	0	0	106	0	199
12:00 - 13:00	1	80	0	0	81	0	0	118	0	0	118	0	199
13:00 - 14:00	0	121	0	0	121	0	0	99	0	0	99	0	220
14:00 - 15:00	0	120	0	0	120	0	0	91	0	0	91	0	211
15:00 - 16:00	0	142	0	0	142	0	0	105	0	0	105	0	247
16:00 - 17:00	1	181	0	0	182	0	0	134	1	0	135	0	317
17:00 - 18:00	1	192	0	0	193	0	0	121	0	0	121	0	314
GRAND TOTAL	4	1189	0	0	1193	0	0	1245	1	0	1246	0	2439

Start Time	Cars					Trucks					Bicycles					Total Peds
	↶	↷	↸	↹	Total	↶	↷	↸	↹	Total	↶	↷	↸	↹	Total	
12:00	1	18	0	0	19	0	1	0	0	1	0	0	0	0	0	0
12:15	0	17	0	0	17	0	1	0	0	1	0	0	0	0	0	0
12:30	0	21	0	0	21	0	2	0	0	2	0	0	0	0	0	0
12:45	0	19	0	0	19	0	1	0	0	1	0	0	0	0	0	0
13:00	0	18	0	0	18	0	1	0	0	1	0	0	0	0	0	0
13:15	0	27	0	0	27	0	1	0	0	1	0	0	0	0	0	0
13:30	0	38	0	0	38	0	1	0	0	1	0	0	0	0	0	0
13:45	0	35	0	0	35	0	0	0	0	0	0	0	0	0	0	0
14:00	0	32	0	0	32	0	3	0	0	3	0	0	0	0	0	0
14:15	0	23	0	0	23	0	0	0	0	0	0	0	0	0	0	0
14:30	0	25	0	0	25	0	1	0	0	1	0	0	0	0	0	0
14:45	0	35	0	0	35	0	1	0	0	1	0	0	0	0	0	0
15:00	0	32	0	0	32	0	0	0	0	0	0	0	0	0	0	0
15:15	0	36	0	0	36	0	1	0	0	1	0	0	0	0	0	0
15:30	0	34	0	0	34	0	0	0	0	0	0	0	0	0	0	0
15:45	0	37	0	0	37	0	2	0	0	2	0	0	0	0	0	0
16:00	1	38	0	0	39	0	0	0	0	0	0	0	0	0	0	0
16:15	0	43	0	0	43	0	0	0	0	0	0	0	0	0	0	0
16:30	0	52	0	0	52	0	2	0	0	2	0	0	0	0	0	0
16:45	0	44	0	0	44	0	2	0	0	2	0	0	0	0	0	0
17:00	1	57	0	0	58	0	0	0	0	0	0	0	0	0	0	0
17:15	0	61	0	0	61	0	1	0	0	1	0	0	0	0	0	0
17:30	0	35	0	0	35	0	1	0	0	1	0	0	0	0	0	0
17:45	0	34	0	0	34	0	3	0	0	3	0	0	0	0	0	0
SUBTOTAL	4	1147	0	0	1151	0	42	0	0	42	0	0	0	0	0	0
GRAND TOTAL	4	1147	0	0	1151	0	42	0	0	42	0	0	0	0	0	0

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
12:00	0	34	0	0	34	0	2	0	0	2	0	0	0	0	0	0
12:15	0	27	0	0	27	0	0	0	0	0	0	0	0	0	0	0
12:30	0	25	0	0	25	0	1	0	0	1	0	0	0	0	0	0
12:45	0	29	0	0	29	0	0	0	0	0	0	0	0	0	0	0
13:00	0	24	0	0	24	0	1	0	0	1	0	0	0	0	0	0
13:15	0	36	0	0	36	0	0	0	0	0	0	0	0	0	0	0
13:30	0	21	0	0	21	0	1	0	0	1	0	0	0	0	0	0
13:45	0	14	0	0	14	0	2	0	0	2	0	0	0	0	0	0
14:00	0	24	0	0	24	0	0	0	0	0	0	0	0	0	0	0
14:15	0	18	0	0	18	0	0	0	0	0	0	0	0	0	0	0
14:30	0	19	0	0	19	0	0	0	0	0	0	0	0	0	0	0
14:45	0	28	0	0	28	0	2	0	0	2	0	0	0	0	0	0
15:00	0	23	0	0	23	0	0	0	0	0	0	0	0	0	0	0
15:15	0	26	0	0	26	0	1	0	0	1	0	0	0	0	0	0
15:30	0	24	0	0	24	0	1	0	0	1	0	0	0	0	0	0
15:45	0	28	0	0	28	0	2	0	0	2	0	0	0	0	0	0
16:00	0	34	0	0	34	0	4	0	0	4	0	0	0	0	0	0
16:15	0	29	0	0	29	0	2	0	0	2	0	0	0	0	0	0
16:30	0	38	1	0	39	0	1	0	0	1	0	0	0	0	0	0
16:45	0	25	0	0	25	0	1	0	0	1	0	0	0	0	0	0
17:00	0	26	0	0	26	0	1	0	0	1	0	0	0	0	0	0
17:15	0	33	0	0	33	0	0	0	0	0	0	0	0	0	0	0
17:30	0	32	0	0	32	0	1	0	0	1	0	0	0	0	0	0
17:45	0	28	0	0	28	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	1204	1	0	1205	0	41	0	0	41	0	0	0	0	0	0
GRAND TOTAL	0	1204	1	0	1205	0	41	0	0	41	0	0	0	0	0	0

Peak Hour Diagram

Specified Period

From: 07:00:00
To: 10:00:00

One Hour Peak

From: 08:15:00
To: 09:15:00

Intersection: Mt Pleasant Rd & Commercial Access (West Driveway)
Site Code: 2227100003
Count Date: Aug 16, 2022

Weather conditions: Clear

**** Unsignalized Intersection ****

Major Road: Mt Pleasant Rd runs E/W

East Approach

	Out	In	Total
	77	136	213
	5	4	9
	0	0	0
	82	140	222

Mt Pleasant Rd

			Totals
0	0	0	0
0	4	136	140
0	0	0	0

Peds: 0

Peds: 0



Peds: 0

Mt Pleasant Rd

Totals			
0	0	0	0
82	77	5	0
0	0	0	0

Peds: 0

West Approach

	Out	In	Total
	136	77	213
	4	5	9
	0	0	0
	140	82	222

Totals			
0	0	0	0
0	0	0	0
0	0	0	0

Commercial Access (West Driveway)

South Approach

	Out	In	Total
	0	0	0
	0	0	0
	0	0	0
	0	0	0

- Cars

- Trucks

- Bicycles

Comments



Peak Hour Summary

Intersection: Mt Pleasant Rd & Commercial Access (West Driveway)
 Site Code: 2227100003
 Count Date: Aug 16, 2022
 Period: 07:00 - 10:00

Peak Hour Data (08:15 - 09:15)

Start Time	North Approach				South Approach Commercial Access (West Driveway)				East Approach Mt Pleasant Rd				West Approach Mt Pleasant Rd				Total Vehicles									
	←	↑	→	↻	Peds	Total	←	↑	→	↻	Peds	Total	←	↑	→	↻		Peds	Total							
08:15					0		0		0	0	0	0	0	17			0	0	17		32	0	0	0	32	49
08:30					0		0		0	0	0	0	0	19			0	0	19		46	0	0	0	46	65
08:45					0		0		0	0	0	0	0	29			0	0	29		29	0	0	0	29	58
09:00					0		0		0	0	0	0	0	17			0	0	17		33	0	0	0	33	50
Grand Total					0	0	0	0	0	0	0	0	0	82	0	0	0	0	82	140	0	0	0	140	222	
Approach %					-		0	0	0	-			0	100	0	-				100	0	0	-			
Totals %						0		0	0		0	36.9		36.9		0		36.9		63.1	0	0		63.1		
PHF					0	0	0	0	0	0	0	0.71	0	0.71	0	0.71	0.76	0	0	0.76	0	0	0.76	0.85		
Cars					0		0		0	0	0	77	0	77			136	0	0	136	0	0		213		
% Cars					0		0		0	0	0	93.9	0	93.9			97.1	0	0	97.1	0	0		95.9		
Trucks					0		0		0	0	0	5	0	5			4	0	0	4	0	0		9		
% Trucks					0		0		0	0	0	6.1	0	6.1			2.9	0	0	2.9	0	0		4.1		
Bicycles					0		0		0	0	0	0	0	0			0	0	0	0	0	0		0		
% Bicycles					0		0		0	0	0	0	0	0			0	0	0	0	0	0		0		
Peds					0	-			0	-										0	-			0		
% Peds					0	-			0	-										0	-			-		

Peak Hour Diagram

Specified Period

From: 10:00:00
To: 14:00:00

One Hour Peak

From: 13:00:00
To: 14:00:00

Intersection: Mt Pleasant Rd & Commercial Access (West Driveway)
Site Code: 2227100003
Count Date: Aug 16, 2022

Weather conditions: Clear

**** Unsignalized Intersection ****

Major Road: Mt Pleasant Rd runs E/W

East Approach

	Out	In	Total
	118	96	214
	3	4	7
	0	0	0
Totals	121	100	221

Mt Pleasant Rd

			Totals
0	0	0	0
0	4	95	99
0	0	0	0

Peds: 0

Peds: 0



Peds: 0

Peds: 0

Mt Pleasant Rd

Totals			
0	0	0	0
121	118	3	0
0	0	0	0

West Approach

	Out	In	Total
	95	118	213
	4	3	7
	0	0	0
Totals	99	121	220

Totals			
0	0	1	0
	0	1	0
	0	0	0
	0	0	0

Commercial Access (West Driveway)

South Approach

	Out	In	Total
	1	0	1
	0	0	0
	0	0	0
Totals	1	0	1

- Cars

- Trucks

- Bicycles

Comments



Peak Hour Summary

Intersection: Mt Pleasant Rd & Commercial Access (West Driveway)
 Site Code: 2227100003
 Count Date: Aug 16, 2022
 Period: 10:00 - 14:00

Peak Hour Data (13:00 - 14:00)

Start Time	North Approach				South Approach Commercial Access (West Driveway)				East Approach Mt Pleasant Rd				West Approach Mt Pleasant Rd				Total Vehicles								
	←	↑	→	↻	Peds	Total	←	↑	→	↻	Peds	Total	←	↑	→	↻		Peds	Total						
13:00					0		0		1	0	0	1	0	19			0	0	19	25	0	0	0	25	45
13:15					0		0		0	0	0	0	0	28			0	0	28	36	0	0	0	36	64
13:30					0		0		0	0	0	0	0	39			0	0	39	22	0	0	0	22	61
13:45					0		0		0	0	0	0	0	35			0	0	35	16	0	0	0	16	51
Grand Total					0	0	0	1	0	0	0	1	0	121	0	0	0	0	121	99	0	0	0	99	221
Approach %					-		0	100	0	-			0	100	0	-			100	0	0			-	
Totals %					0		0	0.5	0	0.5			0	54.8	0	54.8			44.8	0	0			44.8	
PHF					0	0	0.25	0	0.25	0	0.78	0	0.78	0.69	0	0	0.69	0	0.69	0.69	0	0	0.69	0.86	
Cars					0		0	1	0	1	0	118	0	118	95	0	0	95	214					214	
% Cars					0		0	100	0	100	0	97.5	0	97.5	96	0	0	96	96.8					96.8	
Trucks					0		0	0	0	0	0	3	0	3	4	0	0	4	7					7	
% Trucks					0		0	0	0	0	0	2.5	0	2.5	4	0	0	4	3.2					3.2	
Bicycles					0		0	0	0	0	0	0	0	0	0	0	0	0	0					0	
% Bicycles					0		0	0	0	0	0	0	0	0	0	0	0	0	0					0	
Peds					0	-			0	-				0	-				0	-				0	
% Peds					0	-			0	-				0	-				0	-				0	

Peak Hour Diagram

Specified Period

From: 14:00:00
To: 18:00:00

One Hour Peak

From: 16:30:00
To: 17:30:00

Intersection: Mt Pleasant Rd & Commercial Access (West Driveway)
Site Code: 2227100003
Count Date: Aug 16, 2022

Weather conditions: Clear

**** Unsignalized Intersection ****

Major Road: Mt Pleasant Rd runs E/W

East Approach

	Out	In	Total
	215	124	339
	5	3	8
	0	0	0
Totals	220	127	347

Mt Pleasant Rd

			Totals
0	0	0	0
0	3	122	125
0	0	1	1

Peds: 0

Peds: 0



Peds: 0

Peds: 0

Mt Pleasant Rd

Totals			
0	0	0	0
219	214	5	0
1	1	0	0

West Approach

	Out	In	Total
	123	214	337
	3	5	8
	0	0	0
Totals	126	219	345

Totals			
0	2	0	0
	0	2	0
	0	0	0
	0	0	0

Commercial Access (West Driveway)

South Approach

	Out	In	Total
	2	2	4
	0	0	0
	0	0	0
Totals	2	2	4

- Cars

- Trucks

- Bicycles

Comments



Peak Hour Summary

Intersection: Mt Pleasant Rd & Commercial Access (West Driveway)
 Site Code: 2227100003
 Count Date: Aug 16, 2022
 Period: 14:00 - 18:00

Peak Hour Data (16:30 - 17:30)

Start Time	North Approach				South Approach Commercial Access (West Driveway)				East Approach Mt Pleasant Rd				West Approach Mt Pleasant Rd				Total Vehicles									
	←	↑	→	↻	Peds	Total	←	↑	→	↻	Peds	Total	←	↑	→	↻		Peds	Total							
16:30					0		0		0	0	0		0	54			0	0	54		39	1	0	0	40	94
16:45					0		0		1	0	0	1	0	46			0	0	46		26	0	0	0	26	73
17:00					0		0		1	0	0	1	1	57			0	0	58		27	0	0	0	27	86
17:15					0		0		0	0	0	0	0	62			0	0	62		33	0	0	0	33	95
Grand Total					0	0	0	2	0	0	2	1	219	0	0	220	125	1	0	0	126	348				
Approach %					-		0	100	0	-	0.5	99.5	0	-		99.2	0.8	0	-							
Totals %					0		0	0.6	0	0.6	0.3	62.9	0	63.2		35.9	0.3	0	36.2							
PHF					0	0	0.5	0	0.5	0.25	0.88	0	0.89	0.8	0.25	0	0.79	0.92								
Cars					0		0	2	0	2	1	214	0	215		122	1	0	123	340						
% Cars					0		0	100	0	100	100	97.7	0	97.7		97.6	100	0	97.6	97.7						
Trucks					0		0	0	0	0	0	5	0	5		3	0	0	3	8						
% Trucks					0		0	0	0	0	0	2.3	0	2.3		2.4	0	0	2.4	2.3						
Bicycles					0		0	0	0	0	0	0	0	0		0	0	0	0	0						
% Bicycles					0		0	0	0	0	0	0	0	0		0	0	0	0	0						
Peds					0	-			0	-			0	-				0	-	0						
% Peds					0	-			0	-			0	-				0	-							

Appendix D

Traffic Data Acquired from the County of Peterborough



Basic Volume Report: 009000

Station ID : 009000

Info Line 1 : CR-9, 220 m west of Hwy 7

Info Line 2 : on nb max 80 kph sign

GPS Lat/Lon :

DB File : 009000.DB

Last Connected Device Type : TT-8-BT

Version Number : 1.07

Serial Number : 95145

Number of Lanes : 1

Posted Speed Limit : 0.0 kph

Lane #1 Configuration

#	Dir. Information	Volume Mode	Volume Sensors	Divide By 2	Comment
1.		Normal	Axle	Yes	

Lane #1 Basic Volume Data From: 00:00 - 09/19/2019 To: 23:59 - 09/19/2019

Date	DW	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
091919	T	10	8	6	6	11	27	133	307	329	270	245	288	287	278	234	348	401	384	235	155	138	71	40	13	4224
Month Total :		10	8	6	6	11	27	133	307	329	270	245	288	287	278	234	348	401	384	235	155	138	71	40	13	4224
Percent :		0%	0%	0%	0%	0%	1%	3%	7%	8%	6%	6%	7%	7%	7%	6%	8%	9%	9%	6%	4%	3%	2%	1%	0%	
ADT :		10	8	6	6	11	27	133	307	329	270	245	288	287	278	234	348	401	384	235	155	138	71	40	13	4224

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total	Percent
DW Totals :	0	0	0	0	4224	0	0	Weekday (Mon-Fri) :	4224 100%
# Days :	0.0	0.0	0.0	0.0	1.0	0.0	0.0	ADT :	4224
ADT :	0	0	0	0	4224	0	0	Weekend (Sat-Sun) :	0 0%
Percent :	0%	0%	0%	0%	100%	0%	0%	ADT :	0

Basic Volume Summary: 009000

Grand Total For Data From: 00:00 - 09/19/2019 To: 23:59 - 09/19/2019

Total Count	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
Lane #1	10	8	6	6	11	27	133	307	329	270	245	288	287	278	234	348	401	384	235	155	138	71	40	13	4224
TOTAL	10	8	6	6	11	27	133	307	329	270	245	288	287	278	234	348	401	384	235	155	138	71	40	13	4224

Percents:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
Lane #1	0%	0%	0%	0%	0%	1%	3%	7%	8%	6%	6%	7%	7%	7%	6%	8%	9%	9%	6%	4%	3%	2%	1%	0%	
TOTAL	0%	0%	0%	0%	0%	1%	3%	7%	8%	6%	6%	7%	7%	7%	6%	8%	9%	9%	6%	4%	3%	2%	1%	0%	

ADT:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
Lane #1	10	8	6	6	11	27	133	307	329	270	245	288	287	278	234	348	401	384	235	155	138	71	40	13	4224
TOTAL	10	8	6	6	11	27	133	307	329	270	245	288	287	278	234	348	401	384	235	155	138	71	40	13	4224

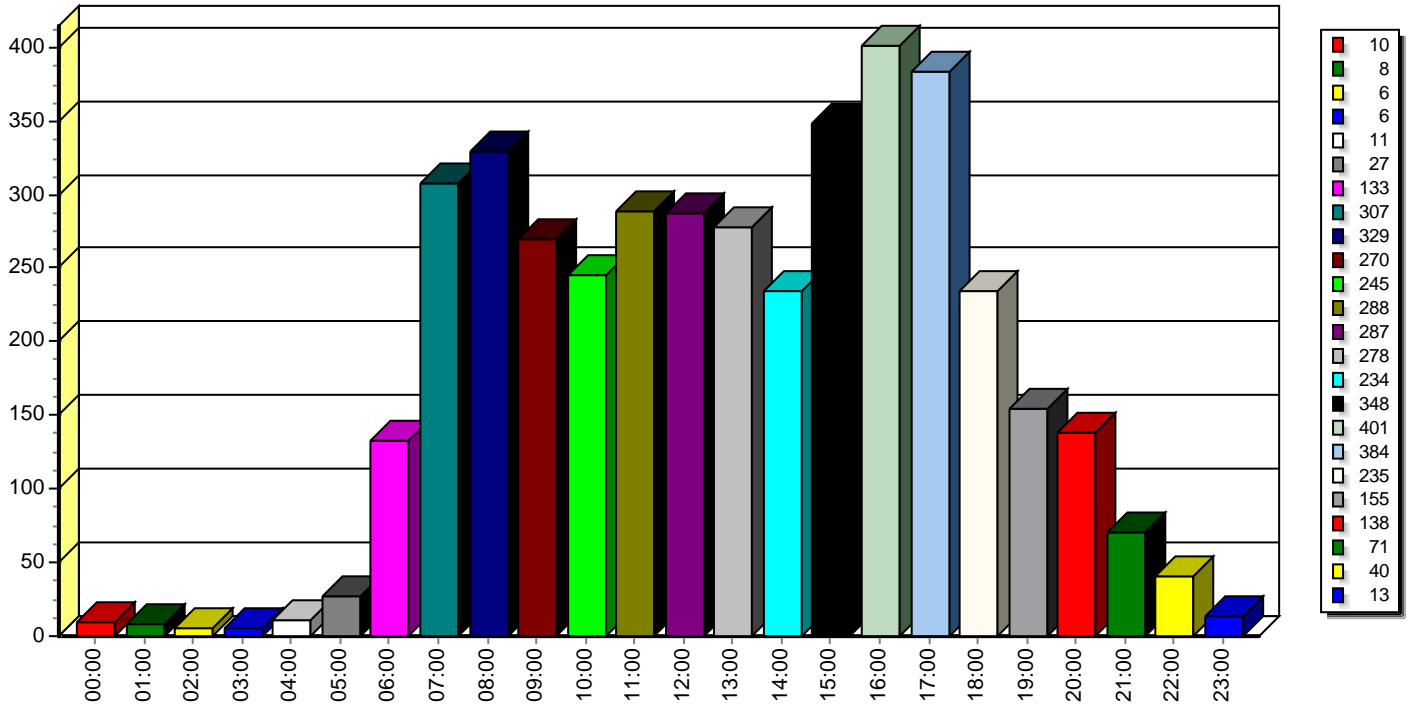
LANE #1

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total	Percent	
DW Totals :	0	0	0	0	4224	0	0	Weekday (Mon-Fri) :	4224	100%
# Days :	0.0	0.0	0.0	0.0	1.0	0.0	0.0	ADT :	4224	
ADT :	0	0	0	0	4224	0	0	Weekend (Sat-Sun) :	0	0%
Percent :	0%	0%	0%	0%	100%	0%	0%	ADT :	0	

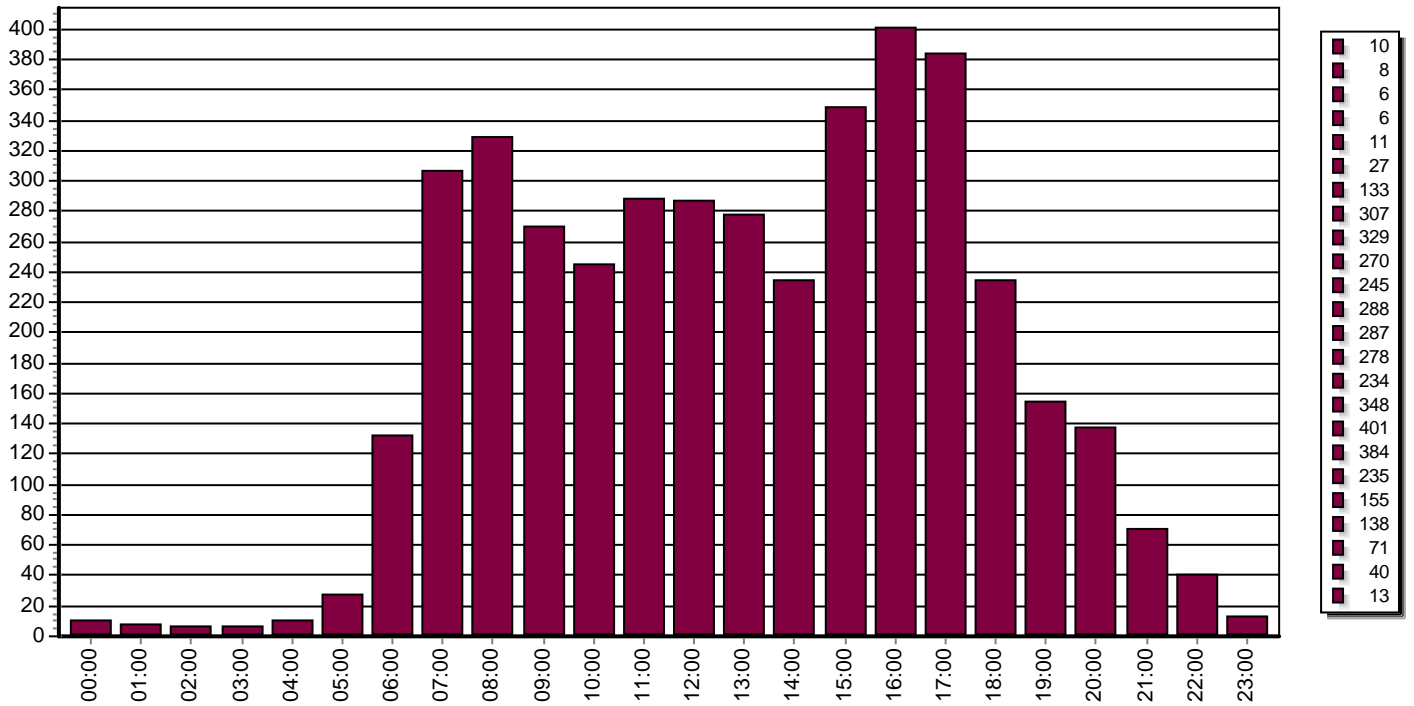
ALL LANES

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total	Percent	
DW Totals :	0	0	0	0	4224	0	0	Weekday (Mon-Fri) :	4224	100%
# Days :	0.0	0.0	0.0	0.0	1.0	0.0	0.0	ADT :	4224	
ADT :	0	0	0	0	4224	0	0	Weekend (Sat-Sun) :	0	0%
Percent :	0%	0%	0%	0%	100%	0%	0%	ADT :	0	

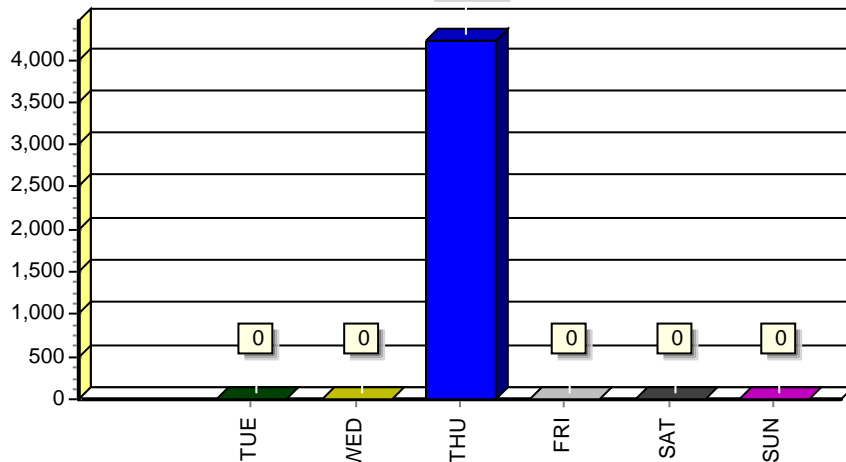
ADT Volume vs. Time (all lanes combined)



ADT Volume vs. Time (lane comparison)



ADT By Day of 4,224 (all lanes)



DAY	ADT	TOTAL	# DAYS
Mon	-	-	-
Tue	-	-	-
Wed	-	-	-
Thu	4224	4224	1.0
Fri	-	-	-
Sat	-	-	-
Sun	-	-	-

Percent of Totals by Day of Week

