

October 30, 2019
2130149

Mr. Rich LaBombard, City Manager
The City of the Village of Douglas
86 W. Center Street
Douglas, MI 49406

RE: The City of the Village of Douglas – Traffic Speed Study Technical Memorandum

Dear Mr. LaBombard,

Please find enclosed a brief technical memorandum regarding the traffic speed study conducted at various locations within the City of the Village of Douglas. The five speed study locations shown in **Figure 1** were selected by the City for review. This study used tube counters to collect vehicle speed data as well as twenty-four-hour, bi-directional approach volumes and vehicle classification counts.

Existing Roadway Conditions

Wiley Road is a two-lane, undivided roadway with gravel shoulders and has a National Functional Classification (NFC) of major collector. Wiley Road provides connectivity from Blue Star Highway to the east side of I-196/US-31 via highway bridge as well as access to various residential communities. The roadway has an east/west alignment with a posted speed limit of 25 miles per hour (mph).

Blue Star Highway operates as a two-lane roadway between Center Street and the bridge and as a three-lane roadway south of Center Street, with one lane in each direction separated by a two-way center left turn lane. Blue Star Highway generally has a north/south alignment. A separated two-way bicycle facility exists along the west side of the roadway north of Center Street. Widened shoulders are present along both sides of the roadway south of Wiley Road. Blue Star Highway serves as a minor arterial route through the City of the Village of Douglas, as a loop connecting to I-196/US-31 north and south of the town. The posted speed limit is 45 mph south of Wiley Road, and 35 mph north of Wiley Road.

Main Street is a local two-lane roadway with a north/south alignment. Main Street provides access to a residential community between Blue Star Highway and South Street while passing through the downtown area. Main Street has sidewalks located along both sides of the roadway intermittently through the residential area. The posted speed limit is 25 mph.

Existing Traffic Data

In order to form a basis for analysis, weekday 48-hour traffic counts were taken for vehicle speed, vehicle classification and average daily traffic volume at the following locations:

- 1) Wiley Road between Water Street and 66th Street
- 2) Blue Star Highway between 129th Street and Wiley Road
- 3) Blue Star Highway between Wiley Road and Center Street
- 4) Blue Star Highway between Center Street and Main Street
- 5) Main Street between Blue Star Highway and Center Street

Traffic counts were completed in September 2019. The complete traffic count summaries can be found in the appendix.

Existing Traffic Volumes

Traffic volumes were collected using stationary pneumatic tube counters over a two-day period beginning on September 17th, 2019. Daily traffic counts by location were provided in 15-minute and 60-minute intervals. A summary of the average of the two-day existing traffic counts are provided in the appendix.

Traffic volumes broken down by peak hour volume and average daily traffic volume are shown in **Table 1**.

Table 1 – Daily and Peak Hour Traffic Volumes

Location No.	Location	Average AM Peak Hour Volume (vph)	Average PM Peak Hour Volume (vph)	Average Daily Volume (vpd)
1	Wiley Road, between Water St. & 66th St.	162	214	2382
2	Blue Star Highway, between 129th St. & Wiley Rd.	410	532	5969
3	Blue Star Highway, between Wiley Rd. & Center St.	476	575	6324
4	Blue Star Highway, between Center St. & Main St.	619	755	8385
5	Main Street, between Blue Star Hwy. & Center St.	101	156	1648

* vph - Vehicles per hour, vpd - Vehicles per day

The results of the traffic counts reveal that the AM and PM peak hours vary by day and location. On Blue Star Highway the average peak hours of the day occur at 11:00 AM and 3:00 PM. Along Wiley Road and Main Street the average peak hours occur at 11:00 AM and 5:00 PM. Blue Star Highway between Center Street and Main Street represents the busiest portion of roadway within in the study limits.

Existing Traffic Vehicle Classification

In addition to collecting vehicle speed and traffic volume data along the project roadways, vehicle classification counts were also taken over a two-day period. The mixed commercial and residential land uses within the community provide for a variety of different types of vehicles utilizing the roadways. A summary of the existing vehicle classification data is provided in the appendix. **Table 2** shows the results of the vehicle classification data obtained for this analysis at the five key project locations.

Table 2 – Existing Vehicle Classification Data

Location No.	Location	Motorcycle % of Total Daily Traffic	Passenger Vehicle % of Total Daily Traffic	Truck % of Total Daily Traffic
1	Wiley Road, between Water St. & 66th St.	1	84	15
2	Blue Star Highway, between 129th St. & Wiley Rd.	1	85	14
3	Blue Star Highway, between Wiley Rd. & Center St.	1	86	13
4	Blue Star Highway, between Center St. & Main St.	1	86	13
5	Main Street, between Blue Star Hwy. & Center St.	< 1	91	8

As shown in **Table 2** above, the highest percentages of trucks occur along Wiley Road, while the highest percentage of passenger vehicles occurred within the residential neighborhood along Main street.

Speed Analysis

Existing traffic counts and speed data were obtained using pneumatic tube counters over a two-day period in efforts to identify traffic trends. **Table 3** shows the results of the speed data obtained for this analysis at the five key project locations. Noted information includes the posted speed limit, average speed, 85th percentile speed, percent traveling over 5 mph over the speed limit and percent traveling over 10 mph over the speed limit. A summary of the existing vehicle speed data is provided in the appendix.

Table 3 – Existing Vehicle Speed Data

Location No.	Location	Posted Speed (mph)	Average Speed (mph)	85th Percentile Speed (mph)	>5 mph Over		>10 mph Over	
					%	#	%	#
1	Wiley Road, between Water St. & 66th St.	25	28	34	44	2091	14	662
2	Blue Star Highway, between 129th St. & Wiley Rd.	45	45	50	16	1958	3	410
3	Blue Star Highway, between Wiley Rd. & Center St.	35	35	39	12	1551	1	180
4	Blue Star Highway, between Center St. & Main St.	35	33	38	37	6241	5	792
5	Main Street, between Blue Star Hwy. & Center St.	25	23	28	5	167	< 1	18

* mph - Miles per Hour

When conducting speed analyses, the average speed (50th percentile) and 85th percentile speeds are considered. The 50th percentile speed is the speed at or below which 50 percent of the drivers travel on a road segment. The 85th percentile speed is the speed at or below which 85 percent of the drivers travel on a road segment. Motorists traveling above the 85th percentile speed are generally considered to be exceeding the safe and reasonable speed for the road and traffic condition. Typically, it is expected that the difference between the 50th and 85th percentile speeds is less than ten mph.

While it is desirable to have motorists traveling at the speed limit, it is typical for drivers to travel at slightly higher speeds. Vehicle speed studies throughout Michigan indicate that drivers tend to select speeds somewhat higher than the posted speed limit. Drivers generally travel at an average of 3 to 8 mph over the posted speed limit. In addition, it is typical for about ten to fifteen percent of motorists to exceed the speed limit by more than ten mph.

Results of the speed data collected fall within the anticipated range when compared to similar roadways across Michigan apart from Location 1, Wiley Road. The 85th percentile speeds in the City of the Village of Douglas are between 3 and 9 mph over the posted speed limit. The Wiley Road study location has an 85th percentile speed of 9 mph over the posted speed limit and shows a large percentage of the daily traffic traveling 5 to 10 mph or more over the posted speed limit.

As vehicles enter the City of the Village of Douglas from the east on Wiley Road, several speed reductions occur near Highway I-196/US-31. It can be anticipated that some vehicle speeds may exceed the posted speed limit as drivers adjust their speed in these transition zones. The excessive speeding occurring on Wiley Road, between Water Street and 66th Street, is most likely a result of this speed reduction transition zone.

Potential countermeasures for controlling speeds within the project limits, especially Location 1 and 2, should be considered and include the following three Es;

- **Engineering** – installing traffic calming infrastructure improvements. (i.e. Gateway entrances, advanced warning signage, medians, etc.)
- **Education** – informing residents (and visitors) of the speeding problem and possible solutions.
- **Enforcement** – partnering with law enforcement and community groups to reduce the frequency of over speeding.

Note: Speed limits in Michigan are set from a study completed by the Michigan State Police utilizing the 85th percentile speed recorded on the roadway and through local city ordinances. Contributing factors in setting a speed limit in addition to traffic patterns include; adjacent land uses (i.e. residential, commercial, agricultural, etc.) and roadway characteristics (i.e. geometrics, alignment, etc.).

Conclusion

Traffic counts taken for the project area show total vehicles per day ranging between approximately 6000 and 8400 vehicles per day along Blue Star Highway, approximately 2400 vehicles per day along Wiley Road and approximately 1650 vehicles per day on Main Street.

Vehicle classification data collected showed a consistent distribution of vehicle class within the project limits. With the exception of the residential neighborhood along Main Street, the overall truck percentage within the project limits is approximately 15% of the total daily traffic.

Results of the speed data collected show speeds which are elevated compared to similar roadways across Michigan. The 85th percentile speeds within the City of the Village of Douglas are between 3 and 9 mph over the posted speed limit. These speeds are within the expected typical range of 5 to 8 mph over the posted speed limit.

The location of the most excessive speeding occurred along Wiley Road between Water Street and 66th Street, with an 85th percentile speed of 9 mph over the posted speed limit and roughly 44 percent of the overall traffic exceeding 5 mph over the posted speed limit.

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A speeding trend can be identified in the data collected at the Wiley Road location. If desired, additional analysis can be done to determine potential future speed controlling countermeasures. Items to be considered are educational outreach to the local and seasonal residents, increased speed enforcement to reduce the frequency of over speeding, as well as the implementation of enhanced warning signing and traffic calming measures.

Thank you for the opportunity to complete this traffic speed study for you. Prein&Newhof can provide assistance with a more in-depth review of potential speed reduction countermeasures in the future if desired.

If you have any questions, feel free to contact me at 231-468-3456.

Respectfully Sincerely,

Prein&Newhof

A handwritten signature in blue ink, appearing to read 'St Tezak', is written over the company name.

Scott Tezak, P.E.
Traffic Engineer

Attachments: Figure 1: Vicinity Map & Traffic Count Locations
Traffic Counts
Speed Counts
Vehicle Classification Counts



CITY OF DOUGLAS
ALLEGAN COUNTY, MICHIGAN



SCALE: 1" = 1,000'

FIGURE 1: VICINITY MAP & TRAFFIC COUNT LOCATIONS

Type of report: Tube Count - Volume Data

LOCATION: A-2 South of Enterprise Dr										QC JOB #: 15061301
SPECIFIC LOCATION:										DIRECTION: NS, SB
CITY/STATE: Douglas, MI										DATE: Sep 17 2019 - Sep 18 2019
Start Time	Mon 17 Sep 19	Tue 18 Sep 19	Wed 18 Sep 19	Thu	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM		15	12			14			14	
01:00 AM		3	3			3			3	
02:00 AM		5	4			5			5	
03:00 AM		10	5			8			8	
04:00 AM		18	13			16			16	
05:00 AM		50	39			45			45	
06:00 AM		129	146			138			138	
07:00 AM		282	313			298			298	
08:00 AM		344	335			340			340	
09:00 AM		378	337			358			358	
10:00 AM		420	344			382			382	
11:00 AM		378	441			410			410	
12:00 PM		443	477			460			460	
01:00 PM		418	456			437			437	
02:00 PM		449	538			494			494	
03:00 PM		485	579			532			532	
04:00 PM		485	520			503			503	
05:00 PM		486	488			487			487	
06:00 PM		339	411			375			375	
07:00 PM		236	276			256			256	
08:00 PM		209	204			207			207	
09:00 PM		89	139			114			114	
10:00 PM		56	52			54			54	
11:00 PM		35	31			33			33	
Day Total		5762	6163			5969			5969	
% Weekday Average		96.5%	103.3%							
% Week Average		96.5%	103.3%			100%				
AM Peak Volume		10:00 AM 420	11:00 AM 441			11:00 AM 410			11:00 AM 410	
PM Peak Volume		5:00 PM 486	3:00 PM 579			3:00 PM 532			3:00 PM 532	

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

LOCATION: A-2 North of Ferry St							QC JOB #: 15061302			
SPECIFIC LOCATION:							DIRECTION: NB, SB			
CITY/STATE: Douglas, MI							DATE: Sep 17 2019 - Sep 18 2019			
Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday	Sat	Sun	Average Week	Average Week Profile
		17 Sep 19	18 Sep 19			Hourly Traffic			Hourly Traffic	
12:00 AM		17	6			12			12	
01:00 AM		5	3			4			4	
02:00 AM		1	6			4			4	
03:00 AM		8	5			7			7	
04:00 AM		10	9			10			10	
05:00 AM		36	35			36			36	
06:00 AM		112	116			114			114	
07:00 AM		288	295			292			292	
08:00 AM		344	335			340			340	
09:00 AM		372	358			365			365	
10:00 AM		460	377			419			419	
11:00 AM		446	506			476			476	
12:00 PM		503	546			525			525	
01:00 PM		457	484			471			471	
02:00 PM		535	568			552			552	
03:00 PM		560	589			575			575	
04:00 PM		506	575			541			541	
05:00 PM		489	499			494			494	
06:00 PM		367	445			406			406	
07:00 PM		245	306			276			276	
08:00 PM		180	228			204			204	
09:00 PM		105	133			119			119	
10:00 PM		54	51			53			53	
11:00 PM		28	29			29			29	
Day Total		6128	6504			6324			6324	
% Weekday Average		96.9%	102.8%							
% Week Average		96.9%	102.8%			100%				
AM Peak Volume		10:00 AM 460	11:00 AM 506			11:00 AM 476			11:00 AM 476	
PM Peak Volume		3:00 PM 560	3:00 PM 589			3:00 PM 575			3:00 PM 575	

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

LOCATION: A-2 Btwn Union St & Chestnut St										QC JOB #: 15061303
SPECIFIC LOCATION:										DIRECTION: NB, SB
CITY/STATE: Douglas, MI										DATE: Sep 17 2019 - Sep 18 2019
Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday	Sat	Sun	Average Week	Average Week Profile
		17 Sep 19	18 Sep 19			Hourly Traffic			Hourly Traffic	
12:00 AM		21	13			17			17	
01:00 AM		8	5			7			7	
02:00 AM		2	6			4			4	
03:00 AM		9	6			8			8	
04:00 AM		10	14			12			12	
05:00 AM		47	44			46			46	
06:00 AM		135	125			130			130	
07:00 AM		442	436			439			439	
08:00 AM		517	506			512			512	
09:00 AM		500	473			487			487	
10:00 AM		537	542			540			540	
11:00 AM		587	651			619			619	
12:00 PM		638	672			655			655	
01:00 PM		585	642			615			615	
02:00 PM		681	709			695			695	
03:00 PM		724	786			755			755	
04:00 PM		649	738			694			694	
05:00 PM		641	612			627			627	
06:00 PM		530	587			559			559	
07:00 PM		396	464			430			430	
08:00 PM		255	332			294			294	
09:00 PM		133	158			148			148	
10:00 PM		60	64			62			62	
11:00 PM		25	34			30			30	
Day Total		6140	8619			8385			8385	
% Weekday Average		97.1%	102.8%							
% Week Average		97.1%	102.8%			100%				
AM Peak Volume		11:00 AM 587	11:00 AM 651			11:00 AM 619			11:00 AM 619	
PM Peak Volume		3:00 PM 724	3:00 PM 786			3:00 PM 755			3:00 PM 755	

Comments:

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SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

LOCATION: 130th Ave East of Water St										QC JOB #: 15061304
SPECIFIC LOCATION:										DIRECTION: EB, WB
CITY/STATE: Douglas, MI										DATE: Sep 17 2019 - Sep 18 2019
Start Time	Mon 17 Sep 19	Tue 18 Sep 19	Wed 18 Sep 19	Thu	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM	4	5				5			5	
01:00 AM	6	4				5			5	
02:00 AM	2	0				1			1	
03:00 AM	5	0				3			3	
04:00 AM	7	4				6			6	
05:00 AM	28	31				30			30	
06:00 AM	44	46				45			45	
07:00 AM	143	127				135			135	
08:00 AM	141	142				142			142	
09:00 AM	113	156				135			135	
10:00 AM	138	153				146			146	
11:00 AM	170	154				162			162	
12:00 PM	138	167				153			153	
01:00 PM	145	169				157			157	
02:00 PM	170	170				170			170	
03:00 PM	193	191				192			192	
04:00 PM	191	184				188			188	
05:00 PM	208	220				214			214	
06:00 PM	178	239				209			209	
07:00 PM	115	156				136			136	
08:00 PM	78	85				82			82	
09:00 PM	32	45				39			39	
10:00 PM	23	15				19			19	
11:00 PM	10	5				8			8	
Day Total	2282	2468				2382			2382	
% Weekday Average	95.8%	103.6%								
% Week Average	95.8%	103.6%				100%				
AM Peak Volume	11:00 AM 170	9:00 AM 156				11:00 AM 162			11:00 AM 162	
PM Peak Volume	5:00 PM 208	6:00 PM 239				5:00 PM 214			5:00 PM 214	

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

LOCATION: N Main St South of Chestnut St							QC JOB #: 15061305			
SPECIFIC LOCATION:							DIRECTION: NB, SB			
CITY/STATE: Douglas, MI							DATE: Sep 17 2019 - Sep 18 2019			
Start Time	Mon 17 Sep 19	Tue 18 Sep 19	Wed 18 Sep 19	Thu	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM		3	3			3			3	
01:00 AM		1	3			2			2	
02:00 AM		1	1			1			1	
03:00 AM		4	1			3			3	
04:00 AM		3	7			5			5	
05:00 AM		17	22			20			20	
06:00 AM		29	33			31			31	
07:00 AM		74	107			91			91	
08:00 AM		86	70			78			78	
09:00 AM		72	102			87			87	
10:00 AM		87	106			97			97	
11:00 AM		100	101			101			101	
12:00 PM		89	109			99			99	
01:00 PM		98	107			103			103	
02:00 PM		123	136			130			130	
03:00 PM		118	128			123			123	
04:00 PM		131	141			136			136	
05:00 PM		161	151			156			156	
06:00 PM		122	158			140			140	
07:00 PM		89	137			113			113	
08:00 PM		68	76			72			72	
09:00 PM		23	34			29			29	
10:00 PM		14	23			19			19	
11:00 PM		9	9			9			9	
Day Total		1522	1765			1648			1648	
% Weekday Average		92.4%	107.1%							
% Week Average		92.4%	107.1%			100%				
AM Peak Volume		11:00 AM 100	7:00 AM 107			11:00 AM 101			11:00 AM 101	
PM Peak Volume		5:00 PM 161	6:00 PM 158			5:00 PM 156			5:00 PM 156	

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Speed Data

LOCATION: A-2 South of Enterprise Dr
 SPECIFIC LOCATION:
 CITY/STATE: Douglas, MI

QC JOB #: 15061301
 DIRECTION: NB, SB
 DATE: Sep 17 2019

Start Time	15	16	20	21	25	26	30	31	35	36	40	41	45	46	50	51	55	56	60	61	65	66	70	71	75	76	999	Total	Pace Speed	Number in Pace
12:00 AM	0	0	0	0	0	0	0	2	5	4	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	41-50	10	
01:00 AM	0	0	0	0	0	0	0	1	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	3	36-45	2	
02:00 AM	0	0	0	1	1	1	1	1	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	5	26-35	2	
03:00 AM	0	0	0	0	0	0	0	2	2	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	41-50	7	
04:00 AM	1	0	1	0	3	4	3	2	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	31-40	7	
05:00 AM	0	0	0	1	2	9	13	16	6	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	41-50	29	
06:00 AM	0	0	0	0	6	30	45	32	13	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129	41-50	77	
07:00 AM	3	0	0	0	6	43	104	83	39	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	282	41-50	187	
08:00 AM	12	1	0	4	8	32	121	113	38	13	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	344	41-50	234	
09:00 AM	11	0	4	0	4	55	116	141	39	6	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	378	41-50	257	
10:00 AM	10	0	1	1	10	36	156	144	50	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	420	41-50	300	
11:00 AM	10	0	0	0	8	42	128	126	51	10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	378	41-50	254	
12:00 PM	12	0	1	2	15	55	154	135	59	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	443	41-50	288	
01:00 PM	9	1	1	9	16	49	137	134	47	12	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	418	41-50	271	
02:00 PM	17	0	0	6	9	52	130	161	65	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	449	41-50	291	
03:00 PM	14	0	0	11	13	41	142	149	86	26	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	485	41-50	291	
04:00 PM	11	0	1	5	10	35	137	178	80	23	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	485	41-50	315	
05:00 PM	3	0	1	6	5	46	165	166	72	16	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	486	41-50	331	
06:00 PM	5	0	0	4	15	36	99	128	40	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	339	41-50	227	
07:00 PM	3	0	0	2	12	21	75	84	29	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	236	41-50	159	
08:00 PM	12	1	2	1	8	22	89	52	19	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	209	41-50	141	
09:00 PM	0	0	1	0	7	15	33	23	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89	41-50	56	
10:00 PM	2	0	0	0	1	5	16	20	11	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	41-50	36	
11:00 PM	0	0	0	0	1	4	13	14	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	41-50	27	
Day Total	136	3	13	53	160	638	1885	1911	758	174	26	4	0	0	1												5752	41-50	3796	
Percent	2.4%	0.1%	0.2%	0.9%	2.8%	11.1%	32.7%	33.2%	13.2%	3%	0.5%	0.1%	0%	0%																
AM Peak Volume	8:00 AM	8:00 AM	9:00 AM	8:00 AM	10:00 AM	9:00 AM	10:00 AM	10:00 AM	11:00 AM	8:00 AM	11:00 AM	4:00 AM	12:00 AM	12:00 AM	10:00 AM													420		
PM Peak Volume	7:00 PM	1:00 PM	3:00 PM	3:00 PM	1:00 PM	12:00 PM	5:00 PM	4:00 PM	3:00 PM	3:00 PM	5:00 PM	5:00 PM	12:00 PM	4:00 PM	5:00 PM													486		

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Speed Data

QC JOB #: 15061301

DIRECTION: NB, 58

DATE: Sep 18 2019

LOCATION: A-2 South of Enterprise Dr

SPECIFIC LOCATION:

CITY/STATE: Douglas, MI

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace	
12:00 AM	0	0	1	1	1	2	4	3	0	0	0	0	0	0	12	41-50	7	
01:00 AM	0	0	0	0	0	0	0	1	1	0	0	0	0	0	3	46-55	3	
02:00 AM	0	0	0	0	0	1	1	1	1	0	0	0	0	0	4	36-45	2	
03:00 AM	0	0	0	0	0	2	0	2	0	1	0	0	0	0	5	31-40	2	
04:00 AM	0	0	0	1	2	2	5	3	0	0	0	0	0	0	13	41-50	8	
05:00 AM	0	0	0	0	3	8	6	13	6	2	1	0	0	0	39	41-50	19	
06:00 AM	0	0	0	2	3	30	53	37	15	6	0	0	0	0	148	41-50	90	
07:00 AM	3	0	0	1	4	45	111	102	39	6	2	0	0	0	313	41-50	213	
08:00 AM	9	1	2	4	6	29	113	118	39	12	0	1	1	0	395	41-50	231	
09:00 AM	4	0	3	2	5	36	132	105	42	8	0	0	0	0	337	41-50	237	
10:00 AM	7	0	0	1	9	32	114	122	47	10	2	0	0	0	344	41-50	236	
11:00 AM	6	0	2	2	11	45	144	159	56	15	1	0	0	0	441	41-50	303	
12:00 PM	9	0	1	5	15	73	166	137	60	11	0	0	0	0	477	41-50	303	
01:00 PM	8	0	1	5	17	57	160	135	58	15	0	0	0	0	456	41-50	295	
02:00 PM	14	1	1	9	19	94	164	174	51	10	1	0	0	0	538	41-50	338	
03:00 PM	20	0	2	2	10	75	172	205	66	25	2	0	0	0	579	41-50	377	
04:00 PM	11	0	0	4	12	43	150	207	70	20	1	1	1	0	520	41-50	357	
05:00 PM	9	0	1	0	6	38	141	180	97	12	3	1	0	0	488	41-50	321	
06:00 PM	12	0	0	4	7	22	126	157	69	14	0	0	0	0	411	41-50	293	
07:00 PM	2	0	1	3	3	35	92	94	37	8	1	0	0	0	276	41-50	186	
08:00 PM	2	2	0	3	7	32	63	72	16	7	0	0	0	0	204	41-50	135	
09:00 PM	1	0	1	1	5	29	41	47	10	2	2	0	0	0	139	41-50	88	
10:00 PM	0	0	0	0	1	7	23	15	6	0	0	0	0	0	52	41-50	38	
11:00 PM	0	0	0	1	1	3	10	12	4	0	0	0	0	0	31	41-50	22	
Day Total	117	4	16	51	147	740	1991	2102	790	184	16	3	2	0	6163	41-50	4093	
Percent	1.9%	0.1%	0.3%	0.8%	2.4%	12%	32.3%	34.1%	12.8%	3%	0.3%	0%	0%	0%				
AM Peak	8:00 AM	8:00 AM	9:00 AM	8:00 AM	11:00 AM	7:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	7:00 AM	8:00 AM	8:00 AM	12:00 AM	11:00 AM		
Volume	9	1	3	4	11	45	144	159	56	15	2	1	1	0	441			
PM Peak	3:00 PM	8:00 PM	3:00 PM	2:00 PM	2:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	3:00 PM	5:00 PM	4:00 PM	4:00 PM	12:00 PM	3:00 PM			
Volume	20	2	2	9	19	94	172	207	97	25	3	1	1	0	579			

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Speed Data

SUMMARY - Tube Count - Speed Data

QC JOB #: 15061301

DIRECTION: NB, SB

DATE: Sep 17 2019 - Sep 18 2019

LOCATION: A-2 South of Enterprise Dr

SPECIFIC LOCATION:

CITY/STATE: Douglas, MI

Speed Range	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
Grand Total	253	7	29	104	307	1378	3876	4013	1548	358	42	7	2	1	11925	41-50	7889
Percent	2.1%	0.1%	0.2%	0.9%	2.6%	11.6%	32.5%	33.7%	13%	3%	0.4%	0.1%	0%	0%			
Cumulative Percent	2.1%	2.2%	2.4%	3.3%	5.9%	17.4%	49.9%	83.6%	96.6%	99.6%	99.9%	100%	100%	100%			
ADT 5962															<p>85th Percentile: 50 MPH Mean Speed(Average): 45 MPH Median: 45 MPH Mode: 48 MPH</p>		

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Speed Data

QC JOB #: 15061302

LOCATION: A-2 North of Ferry St

DIRECTION: NB, SB

SPECIFIC LOCATION:

DATE: Sep 17 2019

CITY/STATE: Douglas, MI

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
12:00 AM	0	0	1	2	4	10	0	0	0	0	0	0	0	0	17	31-40	14
01:00 AM	0	0	0	1	2	0	2	0	0	0	0	0	0	0	5	26-35	3
02:00 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	36-45	1
03:00 AM	0	0	0	1	2	4	1	0	0	0	0	0	0	0	8	31-40	6
04:00 AM	0	0	0	1	4	4	1	0	0	0	0	0	0	0	10	31-40	8
05:00 AM	0	0	0	2	7	20	5	2	0	0	0	0	0	0	36	31-40	27
06:00 AM	0	0	0	5	45	53	9	0	0	0	0	0	0	0	112	31-40	98
07:00 AM	0	0	1	19	127	119	19	3	0	0	0	0	0	0	288	31-40	246
08:00 AM	0	0	6	22	111	150	41	3	2	0	0	0	0	0	344	31-40	261
09:00 AM	9	0	6	22	111	150	41	3	2	0	0	0	0	0	372	31-40	277
09:00 AM	8	0	4	31	169	108	46	6	0	0	0	0	0	0	460	31-40	358
10:00 AM	10	0	1	30	169	189	57	4	0	0	0	0	0	0	446	31-40	339
11:00 AM	12	0	4	40	186	153	46	4	0	1	0	0	0	0	503	31-40	381
12:00 PM	18	0	5	54	186	195	39	5	0	0	0	0	0	1	457	31-40	342
01:00 PM	8	0	4	33	133	209	61	8	1	0	0	0	0	0	525	31-40	407
02:00 PM	12	0	11	42	171	231	83	5	0	0	0	0	0	0	560	31-40	441
03:00 PM	12	1	3	39	196	245	58	5	1	0	0	0	0	0	506	31-40	375
04:00 PM	12	1	7	27	151	224	76	8	0	0	0	0	0	0	489	31-40	367
05:00 PM	9	0	3	23	152	215	75	9	3	0	0	0	0	0	367	31-40	298
06:00 PM	8	0	2	28	142	156	26	2	0	0	0	0	0	0	245	31-40	175
07:00 PM	9	1	3	35	86	89	19	3	0	0	0	0	0	0	180	31-40	148
08:00 PM	5	0	4	15	77	71	7	1	0	0	0	0	0	0	105	31-40	80
09:00 PM	0	0	1	16	44	36	7	1	0	0	0	0	0	0	54	31-40	42
10:00 PM	0	0	1	4	24	18	7	0	0	0	0	0	0	0	28	26-35	16
11:00 PM	0	0	0	6	10	6	6	0	0	0	0	0	0	0	28	26-35	16
Day Total	132	3	61	476	2198	2505	675	69	7	1	0	0	0	1	6128	31-40	4703
Percent	2.2%	0%	1%	7.8%	35.9%	40.9%	11%	1.1%	0.1%	0%	0%	0%	0%	0%			
AM Peak	11:00 AM	12:00 AM	8:00 AM	11:00 AM	11:00 AM	20:00 AM	10:00 AM	9:00 AM	8:00 AM	11:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	10:00 AM		
Volume	12	0	6	40	186	189	57	6	2	1	0	0	0	0	460		
PM Peak	12:00 PM	3:00 PM	2:00 PM	12:00 PM	3:00 PM	3:00 PM	4:00 PM	5:00 PM	5:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	3:00 PM		
Volume	18	1	11	54	196	245	76	9	3	0	0	0	0	1	560		

Comments:

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Report generated on 9/20/2019 11:18 AM

Type of report: Tube Count - Speed Data

LOCATION: A-2 North of Ferry St															QC JOB #: 15061302		
SPECIFIC LOCATION:															DIRECTION: NB, SB		
CITY/STATE: Douglas, MI															DATE: Sep 18 2019		
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
12:00 AM	0	0	0	2	1	3	0	0	0	0	0	0	0	0	6	31-40	4
01:00 AM	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3	26-35	3
02:00 AM	0	0	0	1	2	2	1	0	0	0	0	0	0	0	6	31-40	4
03:00 AM	1	1	1	0	1	1	0	0	0	0	0	0	0	0	5	16-25	2
04:00 AM	0	0	0	1	3	3	2	0	0	0	0	0	0	0	9	31-40	6
05:00 AM	1	0	0	4	11	13	6	0	0	0	0	0	0	0	35	31-40	24
06:00 AM	1	0	0	4	45	49	13	4	0	0	0	0	0	0	116	31-40	94
07:00 AM	7	0	1	22	109	129	26	1	0	0	0	0	0	0	295	31-40	238
08:00 AM	7	0	6	12	115	160	31	4	0	0	0	0	0	0	335	31-40	275
09:00 AM	2	1	2	30	143	143	32	5	0	0	0	0	0	0	358	31-40	286
10:00 AM	11	4	4	18	115	163	51	9	2	0	0	0	0	0	377	31-40	278
11:00 AM	14	0	7	40	184	195	60	6	0	0	0	0	0	0	506	31-40	379
12:00 PM	18	3	7	65	178	215	53	7	0	0	0	0	0	0	546	31-40	393
01:00 PM	11	0	1	43	153	227	42	7	0	0	0	0	0	0	484	31-40	380
02:00 PM	16	0	3	35	218	232	52	11	1	0	0	0	0	0	568	31-40	450
03:00 PM	25	0	2	47	182	270	54	8	1	0	0	0	0	0	589	31-40	452
04:00 PM	19	3	1	15	162	284	80	11	0	0	0	0	0	0	575	31-40	446
05:00 PM	11	1	0	28	142	235	70	9	3	0	0	0	0	0	499	31-40	377
06:00 PM	13	0	5	23	121	222	55	5	1	0	0	0	0	0	445	31-40	343
07:00 PM	3	1	2	27	114	126	29	4	0	0	0	0	0	0	306	31-40	240
08:00 PM	1	0	4	17	101	85	19	1	0	0	0	0	0	0	228	31-40	186
09:00 PM	2	1	2	26	41	50	11	0	0	0	0	0	0	0	133	31-40	91
10:00 PM	0	0	2	9	16	16	6	2	0	0	0	0	0	0	51	31-40	32
11:00 PM	0	0	0	1	9	16	3	0	0	0	0	0	0	0	29	31-40	25
Day Total	163	15	50	470	2169	2839	696	94	8	0	0	0	0	0	6504	31-40	5008
Percent	2.5%	0.2%	0.8%	7.2%	33.3%	43.7%	10.7%	1.4%	0.1%	0%	0%	0%	0%	0%			
AM Peak	11:00 AM	10:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	10:00 AM	10:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	11:00 AM		
Volume	14	4	7	40	184	195	60	9	7	0	0	0	0	0	506		
PM Peak	3:00 PM	12:00 PM	12:00 PM	12:00 PM	2:00 PM	4:00 PM	4:00 PM	2:00 PM	5:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	3:00 PM		
Volume	25	3	7	65	218	284	80	11	3	0	0	0	0	0	589		

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Speed Data

SUMMARY - Tube Count - Speed Data

QC JOB #: 15061302

LOCATION: A-2 North of Ferry St

DIRECTION: NB, SB

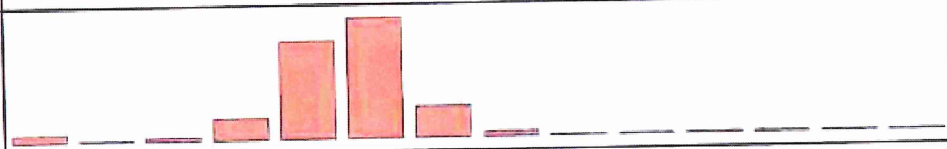
SPECIFIC LOCATION:

DATE: Sep 17 2019 - Sep 18 2019

CITY/STATE: Douglas, MI

Speed Range	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
Grand Total	295	18	111	946	4367	5344	1371	163	15	1	0	0	0	1	12632	31-40	9711
Percent	2.3%	0.1%	0.9%	7.5%	34.6%	42.3%	10.9%	1.3%	0.1%	0%	0%	0%	0%	0%			
Cumulative Percent	2.3%	2.5%	3.4%	10.8%	45.4%	87.7%	98.6%	99.9%	100%	100%	100%	100%	100%	100%			

ADT
6316



85th Percentile: 39 MPH
 Mean Speed(Average): 35 MPH
 Median: 35 MPH
 Mode: 38 MPH

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Speed Data

LOCATION: A-2 Btwn Union St & Chestnut St															QC JOB #: 15061303		
SPECIFIC LOCATION:															DIRECTION: NB, SB		
CITY/STATE: Douglas, MI															DATE: Sep 17 2019		
Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
	15	20	25	30	35	40	45	50	55	60	65	70	75	999			
12:00 AM	1	0	1	0	5	9	1	0	0	0	0	0	0	0	21	31-40	18
01:00 AM	0	0	0	1	4	2	1	0	0	0	0	0	0	0	8	31-40	6
02:00 AM	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2	31-40	2
03:00 AM	0	0	1	3	3	2	0	0	0	0	0	0	0	0	9	26-35	6
04:00 AM	0	0	1	1	5	3	0	0	0	0	0	0	0	0	10	31-40	8
05:00 AM	2	0	2	5	14	18	4	2	0	0	0	0	0	0	47	31-40	32
06:00 AM	0	0	0	15	67	45	8	0	0	0	0	0	0	0	135	31-40	112
07:00 AM	13	1	5	49	235	131	8	0	0	0	0	0	0	0	442	31-40	366
08:00 AM	15	1	5	71	236	161	27	1	0	0	0	0	0	0	517	31-40	397
09:00 AM	13	0	5	56	276	132	16	1	1	0	0	0	0	0	500	31-40	408
10:00 AM	10	2	1	61	272	171	20	0	0	0	0	0	0	0	537	31-40	443
11:00 AM	26	0	7	71	262	191	29	1	0	0	0	0	0	0	587	31-40	453
12:00 PM	32	0	8	76	269	222	28	3	0	0	0	0	0	0	638	31-40	491
01:00 PM	11	1	12	53	272	213	23	3	0	0	0	0	0	0	588	31-40	485
02:00 PM	27	2	11	54	324	230	30	3	0	0	0	0	0	0	681	31-40	554
03:00 PM	26	1	4	53	338	257	41	4	0	0	0	0	0	0	724	31-40	595
04:00 PM	18	0	4	55	306	223	37	4	2	0	0	0	0	0	649	31-40	529
05:00 PM	29	0	6	27	282	257	36	3	1	0	0	0	0	0	641	31-40	539
06:00 PM	20	0	2	62	238	187	21	0	0	0	0	0	0	0	530	31-40	425
07:00 PM	7	0	0	67	199	109	13	1	0	0	0	0	0	0	396	31-40	308
08:00 PM	8	0	5	47	125	58	11	1	0	0	0	0	0	0	255	31-40	183
09:00 PM	2	0	2	17	67	45	4	1	0	0	0	0	0	0	138	31-40	112
10:00 PM	0	0	0	21	28	9	2	0	0	0	0	0	0	0	60	26-35	49
11:00 PM	0	0	4	5	10	8	0	0	0	0	0	0	0	0	25	31-40	18
Day Total	260	8	86	868	3842	2684	360	28	4	0	0	0	0	0	8140	31-40	6526
Percent	3.2%	0.1%	1.1%	10.7%	47.2%	33%	4.4%	0.3%	0%	0%	0%	0%	0%	0%			
AM Peak Volume	11:00 AM	10:00 AM	11:00 AM	8:00 AM	9:00 AM	11:00 AM	11:00 AM	5:00 AM	9:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	11:00 AM		
	76	2	7	71	276	191	29	2	1	0	0	0	0	0	587		
PM Peak Volume	12:00 PM	2:00 PM	1:00 PM	12:00 PM	3:00 PM	3:00 PM	3:00 PM	3:00 PM	4:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	3:00 PM		
	32	2	12	76	338	257	41	4	2	0	0	0	0	0	724		

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Speed Data

QC JOB #: 15061303

LOCATION: A-2 Btwn Union St & Chestnut St

DIRECTION: NB, SB

SPECIFIC LOCATION:

DATE: Sep 18 2019

CITY/STATE: Douglas, MI

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
12:00 AM	0	0	1	1	6	3	2	0	0	0	0	0	0	0	13	31-40	9
01:00 AM	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5	26-35	5
02:00 AM	0	1	0	1	4	0	0	0	0	0	0	0	0	0	6	26-35	5
03:00 AM	0	0	1	1	3	1	0	0	0	0	0	0	0	0	6	28-37	4
04:00 AM	0	0	2	2	7	3	0	0	0	0	0	0	0	0	14	31-40	10
05:00 AM	0	0	2	10	20	10	2	0	0	0	0	0	0	0	44	26-35	30
06:00 AM	3	0	3	10	20	36	4	0	0	0	0	0	0	0	125	31-40	106
07:00 AM	5	2	4	55	107	154	8	1	0	0	0	0	0	0	436	31-40	361
08:00 AM	18	0	8	60	237	158	24	1	0	0	0	0	0	0	506	31-40	395
09:00 AM	11	0	0	53	240	141	23	5	0	0	0	0	0	0	473	31-40	381
10:00 AM	23	5	8	52	261	171	21	1	0	0	0	0	0	0	542	31-40	432
11:00 AM	31	2	8	52	284	242	32	0	0	0	0	0	0	0	651	31-40	526
12:00 PM	27	0	2	49	308	244	38	4	0	0	0	0	0	0	672	31-40	552
01:00 PM	28	0	8	57	303	219	26	1	0	0	0	0	0	0	642	31-40	522
02:00 PM	31	0	6	97	370	182	22	0	1	0	0	0	0	0	709	31-40	552
03:00 PM	43	8	7	88	358	244	35	3	0	0	0	0	0	0	786	31-40	602
04:00 PM	26	0	7	70	341	250	43	1	0	0	0	0	0	0	738	31-40	591
05:00 PM	23	0	2	35	250	254	43	5	0	0	0	0	0	0	612	31-40	504
06:00 PM	21	1	5	65	250	180	23	2	0	0	0	0	0	0	587	31-40	470
07:00 PM	10	0	8	60	243	132	9	2	0	0	0	0	0	0	464	31-40	375
08:00 PM	8	0	2	70	169	73	10	0	0	0	0	0	0	0	332	31-40	242
09:00 PM	0	0	2	39	67	48	1	1	0	0	0	0	0	0	158	31-40	115
10:00 PM	0	0	1	12	35	12	2	2	0	0	0	0	0	0	64	26-35	47
11:00 PM	0	0	0	7	17	8	2	0	0	0	0	0	0	0	34	31-40	25
Day Total	308	19	85	946	4095	2765	370	29	1	0	0	0	0	0	8619	31-40	6860
Percent	3.6%	0.2%	1%	11%	47.5%	32.1%	4.3%	0.3%	0%	0%	0%	0%	0%	0%			
AM Peak	11:00 AM	10:00 AM	8:00 AM	8:00 AM	11:00 AM	11:00 AM	11:00 AM	9:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	11:00 AM		
Volume	31	5	8	60	284	242	22	5	0	0	0	0	0	0	651		
PM Peak	3:00 PM	3:00 PM	1:00 PM	2:00 PM	2:00 PM	5:00 PM	4:00 PM	5:00 PM	2:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	3:00 PM		
Volume	43	8	8	97	370	254	43	5	1	0	0	0	0	0	786		

Comments:

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Report generated on 9/20/2019 11:18 AM

Type of report: Tube Count - Speed Data

SUMMARY - Tube Count - Speed Data

LOCATION: A-2 Btwn Union St & Chestnut St														QC JOB #: 15061303			
SPECIFIC LOCATION:														DIRECTION: NB, SB			
CITY/STATE: Douglas, MI														DATE: Sep 17 2019 - Sep 18 2019			
Speed Range	1-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-999	Total	Pace Speed	Number in Pace
Grand Total	568	27	172	1814	7937	5449	730	57	5	0	0	0	0	0	16759	31-40	13386
Percent	3.4%	0.2%	1%	10.8%	47.4%	32.5%	4.4%	0.3%	0%	0%	0%	0%	0%	0%			
Cumulative Percent	3.4%	3.6%	4.6%	15.4%	62.8%	95.3%	99.6%	100%	100%	100%	100%	100%	100%	100%			
ADT 8379															85th Percentile: 38 MPH Mean Speed(Average): 33 MPH Median: 33 MPH Mode: 33 MPH		
Comments:																	

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Speed Data

QC JOB #: 15061304

LOCATION: 130th Ave East of Water St

DIRECTION: EB, WB

SPECIFIC LOCATION:

DATE: Sep 17 2019

CITY/STATE: Douglas, MI

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
	15	20	25	30	35	40	45	50	55	60	65	70	75	999			
12:00 AM	0	0	0	3	0	1	0	0	0	0	0	0	0	0	4	21-30	3
01:00 AM	3	0	0	3	0	0	0	0	0	0	0	0	0	0	6	21-30	3
02:00 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2	16-25	1
03:00 AM	2	0	0	2	1	0	0	0	0	0	0	0	0	0	5	26-35	3
04:00 AM	0	1	2	1	2	1	0	0	0	0	0	0	0	0	7	21-30	3
05:00 AM	3	1	2	9	10	3	0	0	0	0	0	0	0	0	28	26-35	19
06:00 AM	4	3	5	11	9	9	9	0	0	0	0	0	0	0	44	26-35	20
07:00 AM	11	6	23	41	47	12	3	0	0	0	0	0	0	0	143	26-35	88
08:00 AM	24	9	15	33	36	21	3	0	0	0	0	0	0	0	141	26-35	69
09:00 AM	14	11	9	28	37	12	2	0	0	0	0	0	0	0	113	26-35	65
10:00 AM	16	19	9	28	47	15	4	0	0	0	0	0	0	0	138	26-35	75
11:00 AM	27	17	10	29	57	23	4	3	0	0	0	0	0	0	170	26-35	86
12:00 PM	18	12	10	36	46	13	2	1	0	0	0	0	0	0	138	26-35	82
01:00 PM	7	12	6	43	51	19	7	0	0	0	0	0	0	0	145	26-35	94
02:00 PM	9	6	7	49	65	31	3	0	0	0	0	0	0	0	170	26-35	114
03:00 PM	20	11	13	62	70	14	3	0	0	0	0	0	0	0	193	26-35	137
04:00 PM	18	21	11	66	44	28	3	0	0	0	0	0	0	0	191	26-35	110
05:00 PM	28	26	8	39	64	27	13	2	1	0	0	0	0	0	208	26-35	103
06:00 PM	43	27	11	31	41	18	5	1	1	0	0	0	0	0	178	26-35	72
07:00 PM	18	18	6	29	34	10	0	0	0	0	0	0	0	0	115	26-35	63
08:00 PM	12	15	8	19	19	4	1	0	0	0	0	0	0	0	78	26-35	38
09:00 PM	3	1	3	10	8	6	1	0	0	0	0	0	0	0	32	26-35	18
10:00 PM	1	2	1	9	5	3	2	0	0	0	0	0	0	0	23	26-35	14
11:00 PM	0	0	2	5	2	0	1	0	0	0	0	0	0	0	10	25-34	7
Day Total	281	218	162	586	696	270	60	7	2	0	0	0	0	0	2282	26-35	1282
Percent	12.3%	9.5%	7.1%	25.7%	30.5%	11.8%	2.6%	0.3%	0.1%	0%	0%	0%	0%	0%			
AM Peak	11:00 AM	10:00 AM	7:00 AM	7:00 AM	11:00 AM	11:00 AM	10:00 AM	11:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	11:00 AM		
Volume	27	19	23	41	57	21	4	3	0	0	0	0	0	0	170		
PM Peak	6:00 PM	6:00 PM	3:00 PM	4:00 PM	3:00 PM	3:00 PM	5:00 PM	5:00 PM	5:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	5:00 PM		
Volume	43	27	11	66	70	31	13	2	1	0	0	0	0	0	208		

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net/>)

Type of report: Tube Count - Speed Data

LOCATION: 130th Ave East of Water St
 SPECIFIC LOCATION:
 CITY/STATE: Douglas, MI

QC JOB #: 15061304
 DIRECTION: EB, WB
 DATE: Sep 18 2019

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	999	Total	Pace Speed	Number in Pace
	15	20	25	30	35	40	45	50	55	60	65	70	75					
12:00 AM	0	0	0	3	1	0	0	1	0	0	0	0	0	0	0	5	26-35	4
01:00 AM	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4	21-30	4
02:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1-10	0
03:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1-10	0
04:00 AM	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	4	26-35	2
05:00 AM	1	0	2	9	16	2	1	0	0	0	0	0	0	0	0	31	26-35	25
06:00 AM	6	1	5	15	12	7	0	0	0	0	0	0	0	0	0	46	26-35	27
07:00 AM	9	2	10	49	44	12	1	0	0	0	0	0	0	0	0	127	26-35	93
08:00 AM	17	22	3	33	45	17	3	0	0	1	0	0	0	0	0	142	26-35	79
09:00 AM	17	22	3	33	45	17	3	0	0	1	0	0	0	0	0	156	26-35	92
10:00 AM	20	19	3	41	51	18	4	0	0	0	0	0	0	0	0	153	26-35	92
11:00 AM	12	16	7	34	58	20	4	2	0	0	0	0	0	0	0	154	26-35	73
12:00 PM	30	19	10	37	36	18	4	0	0	0	0	0	0	0	0	167	26-35	93
01:00 PM	14	21	9	45	48	23	5	2	0	0	0	0	0	0	0	159	26-35	93
02:00 PM	26	27	14	42	51	7	2	0	0	0	0	0	0	0	0	170	26-35	103
03:00 PM	21	11	8	53	50	21	4	2	0	0	0	0	0	0	0	191	26-35	119
04:00 PM	15	8	16	55	64	29	4	0	0	0	0	0	0	0	0	184	26-35	115
05:00 PM	17	16	13	50	65	17	5	1	0	0	0	0	0	0	0	220	26-35	91
06:00 PM	39	51	15	36	55	19	4	0	0	0	0	1	0	0	0	239	26-35	83
07:00 PM	60	52	18	34	49	23	3	0	0	0	0	0	0	0	0	156	26-35	67
08:00 PM	49	23	6	30	37	6	3	1	1	0	0	0	0	0	0	85	26-35	51
09:00 PM	10	8	6	30	21	6	4	0	0	0	0	0	0	0	0	45	26-35	30
10:00 PM	1	3	2	10	20	5	3	0	1	0	0	0	0	0	0	15	27-36	9
11:00 PM	0	2	1	2	7	2	1	0	0	0	0	0	0	0	0	5	26-35	3
11:00 PM	0	0	1	2	1	1	0	0	0	0	0	0	0	0	0			
Day Total	347	301	149	615	733	254	56	9	2	1	0	1	0	0	2468	26-35	1348	
Percent	14.1%	12.2%	6%	24.9%	29.7%	10.3%	2.3%	0.4%	0.1%	0%	0%	0%	0%	0%				
AM Peak Volume	11:00 AM	8:00 AM	7:00 AM	7:00 AM	10:00 AM	10:00 AM	9:00 AM	10:00 AM	12:00 AM	8:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	9:00 AM			
	30	22	10	49	58	20	4	2	0	1	0	0	0	0	156			
PM Peak Volume	6:00 PM	6:00 PM	6:00 PM	3:00 PM	4:00 PM	3:00 PM	12:00 PM	12:00 PM	7:00 PM	12:00 PM	12:00 PM	5:00 PM	11:00 PM	12:00 PM	6:00 PM			
	60	52	18	55	65	29	5	2	1	0	0	1	0	0	239			

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Speed Data

SUMMARY - Tube Count - Speed Data

QC JOB #: 15061304

DIRECTION: EB, WB

DATE: Sep 17 2019 - Sep 18 2019

LOCATION: 130th Ave East of Water St

SPECIFIC LOCATION:

CITY/STATE: Douglas, MI

Speed Range	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
Grand Total	628	519	311	1201	1429	524	116	16	4	1	0	1	0	0	4750	28-35	2630
Percent	13.2%	10.9%	6.5%	25.3%	30.1%	11%	2.4%	0.3%	0.1%	0%	0%	0%	0%	0%			
Cumulative Percent	13.2%	24.1%	30.7%	56%	86.1%	97.1%	99.5%	99.9%	100%	100%	100%	100%	100%	100%			



85th Percentile: 34 MPH
 Mean Speed(Average): 28 MPH
 Median: 28 MPH
 Mode: 33 MPH

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Speed Data

QC JOB #: 15061305

LOCATION: N Main St South of Chestnut St

DIRECTION: NB, SB

SPECIFIC LOCATION:

DATE: Sep 17 2019

CITY/STATE: Douglas, MI

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	76	999	Total	Pace Speed	Number in Pace
12:00 AM	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	3	16-25	2
01:00 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	21-30	1
02:00 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	16-25	1
03:00 AM	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	4	16-25	4
04:00 AM	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	3	21-30	3
05:00 AM	0	1	5	10	1	0	0	0	0	0	0	0	0	0	0	17	21-30	15
06:00 AM	0	2	11	14	2	0	0	0	0	0	0	0	0	0	0	29	21-30	25
07:00 AM	0	3	36	28	6	1	0	0	0	0	0	0	0	0	0	74	21-30	64
08:00 AM	5	6	33	35	8	1	0	0	0	0	0	0	0	0	0	86	21-30	68
09:00 AM	5	4	31	24	6	2	0	0	0	0	0	0	0	0	0	72	21-30	55
10:00 AM	2	9	30	40	5	1	0	0	0	0	0	0	0	0	0	87	21-30	70
11:00 AM	6	15	37	33	9	0	0	0	0	0	0	0	0	0	0	100	21-30	70
12:00 PM	6	14	35	27	6	0	1	0	0	0	0	0	0	0	0	89	21-30	62
01:00 PM	3	12	43	35	5	0	0	0	0	0	0	0	0	0	0	98	21-30	78
02:00 PM	6	16	52	45	3	0	0	0	0	0	0	0	0	0	0	123	21-30	98
03:00 PM	4	14	52	36	11	1	0	0	0	0	0	0	0	0	0	118	21-30	88
04:00 PM	1	14	64	43	8	1	0	0	0	0	0	0	0	0	0	131	21-30	107
05:00 PM	3	17	81	52	8	0	0	0	0	0	0	0	0	0	0	161	21-30	133
06:00 PM	4	17	60	38	3	0	0	0	0	0	0	0	0	0	0	122	21-30	98
07:00 PM	3	16	43	26	1	0	0	0	0	0	0	0	0	0	0	89	21-30	69
08:00 PM	7	13	35	13	0	0	0	0	0	0	0	0	0	0	0	68	19-28	48
09:00 PM	0	0	16	5	2	0	0	0	0	0	0	0	0	0	0	23	21-30	21
10:00 PM	1	1	3	6	3	0	0	0	0	0	0	0	0	0	0	14	21-30	9
11:00 PM	0	0	5	4	0	0	0	0	0	0	0	0	0	0	0	9	21-30	9
Day Total	56	176	678	519	85	7	1	0	0	0	0	0	0	0	0	1522	21-30	1197
Percent	3.7%	11.6%	44.5%	34.1%	5.6%	0.5%	0.1%	0%	0%	0%	0%	0%	0%	0%	0%			
AM Peak Volume	11:00 AM	11:00 AM	11:00 AM	10:00 AM	11:00 AM	9:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	100		
PM Peak Volume	8:00 PM	5:00 PM	5:00 PM	5:00 PM	3:00 PM	3:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	161			

Comments:

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Report generated on 9/20/2019 11:18 AM

Type of report: Tube Count - Speed Data

QC JOB #: 15061305

LOCATION: N Main St South of Chestnut St

DIRECTION: NB, SB

SPECIFIC LOCATION:

DATE: Sep 18 2019

CITY/STATE: Douglas, MI

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
12:00 AM	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3	21-30	3
01:00 AM	0	1	0	2	0	0	0	0	0	0	0	0	0	0	3	21-30	2
02:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	11-20	1
03:00 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	16-25	1
04:00 AM	0	0	3	4	0	0	0	0	0	0	0	0	0	0	7	21-30	7
05:00 AM	1	1	6	13	1	0	0	0	0	0	0	0	0	0	22	21-30	19
06:00 AM	0	1	14	13	3	2	0	0	0	0	0	0	0	0	33	21-30	27
07:00 AM	23	8	37	34	2	2	1	0	0	0	0	0	0	0	107	21-30	71
08:00 AM	6	1	27	30	6	0	0	0	0	0	0	0	0	0	70	21-30	57
09:00 AM	2	22	43	30	5	0	0	0	0	0	0	0	0	0	102	21-30	73
10:00 AM	9	29	40	22	6	0	0	0	0	0	0	0	0	0	106	16-25	69
11:00 AM	18	17	32	30	3	1	0	0	0	0	0	0	0	0	101	21-30	62
12:00 PM	18	23	39	28	1	0	0	0	0	0	0	0	0	0	109	21-30	67
01:00 PM	10	20	52	21	4	0	0	0	0	0	0	0	0	0	107	21-30	73
02:00 PM	12	25	54	41	4	0	0	0	0	0	0	0	0	0	136	21-30	95
03:00 PM	21	15	51	35	6	0	0	0	0	0	0	0	0	0	128	21-30	86
04:00 PM	17	22	50	42	9	1	0	0	0	0	0	0	0	0	141	21-30	92
05:00 PM	7	20	67	49	7	1	0	0	0	0	0	0	0	0	151	21-30	116
06:00 PM	5	21	84	48	2	0	0	0	0	0	0	0	0	0	158	21-30	130
07:00 PM	7	19	76	34	1	0	0	0	0	0	0	0	0	0	137	21-30	110
08:00 PM	1	17	44	13	0	1	0	0	0	0	0	0	0	0	76	16-25	61
09:00 PM	2	2	21	8	1	0	0	0	0	0	0	0	0	0	34	21-30	29
10:00 PM	0	2	10	8	2	1	0	0	0	0	0	0	0	0	23	21-30	18
11:00 PM	0	0	5	3	1	0	0	0	0	0	0	0	0	0	9	21-30	8
Day Total	159	267	756	509	64	9	1	0	0	0	0	0	0	0	1765	21-30	1265
Percent	9%	15.1%	42.8%	28.8%	3.6%	0.5%	0.1%	0%	0%	0%	0%	0%	0%	0%			
AM Peak	7:00 AM	10:00 AM	9:00 AM	7:00 AM	8:00 AM	6:00 AM	7:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	7:00 AM		
Volume	23	29	43	34	5	2	1	0	0	0	0	0	0	0	107		
PM Peak	3:00 PM	2:00 PM	6:00 PM	5:00 PM	4:00 PM	4:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	6:00 PM		
Volume	21	25	84	49	5	1	0	0	0	0	0	0	0	158			

Comments:

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Report generated on 9/20/2019 11:18 AM

Type of report: Tube Count - Speed Data

SUMMARY - Tube Count - Speed Data

QC JOB #: 15061305

DIRECTION: NB, SB

DATE: Sep 17 2019 - Sep 18 2019

LOCATION: N Main St South of Chestnut St

SPECIFIC LOCATION:

CITY/STATE: Douglas, MI

Speed Range	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
Grand Total	215	443	1434	1028	149	18	2	0	0	0	0	0	0	0	3287	21-30	2462
Percent	6.5%	13.5%	43.6%	31.3%	4.5%	0.5%	0.1%	0%	0%	0%	0%	0%	0%	0%			
Cumulative Percent	6.5%	20%	63.6%	94.9%	99.5%	99.9%	100%	100%	100%	100%	100%	100%	100%	100%			
ADT 1643															85th Percentile: 28 MPH Mean Speed(Average): 23 MPH Median: 23 MPH Mode: 23 MPH		

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Vehicle Classification Data

LOCATION: A-2 South of Enterprise Dr
 SPECIFIC LOCATION:
 CITY/STATE: Douglas, MI

QC JOB #: 15061301
 DIRECTION: NB, SB
 DATE: Sep 17 2019

Start Time	Motorcycles	Cars & Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Not Classified	Total
12:00 AM	0	12	2	0	0	0	0	1	0	0	0	0	0	0	15
01:00 AM	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3
02:00 AM	0	4	1	0	0	0	0	0	0	0	0	0	0	0	5
03:00 AM	0	5	0	0	3	0	0	2	0	0	0	0	0	0	10
04:00 AM	0	12	3	0	0	1	0	1	0	0	0	0	0	1	18
05:00 AM	0	27	14	0	6	1	1	1	0	0	0	0	0	0	50
06:00 AM	1	79	25	2	18	0	0	3	0	0	0	0	0	1	129
07:00 AM	1	169	68	1	34	2	0	3	1	0	0	0	0	3	282
08:00 AM	5	185	110	1	28	0	0	3	0	0	0	0	0	11	344
09:00 AM	1	213	102	2	42	2	0	5	0	0	1	0	1	9	378
10:00 AM	3	249	111	3	34	3	1	5	1	0	0	0	0	10	420
11:00 AM	2	215	107	1	38	3	0	2	0	0	0	0	0	10	378
12:00 PM	5	254	109	6	49	2	0	3	3	0	0	0	0	12	443
01:00 PM	16	233	96	2	48	3	0	7	2	1	0	0	0	17	449
02:00 PM	7	265	101	3	47	4	0	3	2	0	0	0	0	17	449
03:00 PM	9	281	125	3	46	2	0	5	0	0	0	0	0	14	485
04:00 PM	5	301	103	4	54	0	0	7	0	0	0	0	0	11	485
05:00 PM	10	319	120	1	29	1	0	3	0	0	0	0	0	3	486
06:00 PM	5	208	85	0	32	1	0	3	0	0	0	0	0	5	339
07:00 PM	2	152	61	0	17	0	0	1	0	0	0	0	0	3	236
08:00 PM	0	114	64	1	18	0	0	1	0	0	0	0	0	11	209
09:00 PM	0	58	22	0	9	0	0	0	0	0	0	0	0	0	89
10:00 PM	0	40	9	0	2	0	0	3	0	0	0	0	0	2	56
11:00 PM	0	23	9	0	3	0	0	0	0	0	0	0	0	0	35
Day Total	72	3421	1448	30	557	25	2	62	9	1	1	0	1	133	5762
Percent	1.2%	59.4%	25.1%	0.5%	9.7%	0.4%	0%	1.1%	0.2%	0%	0%	0%	0%	2.3%	
ADT 5762															
AM Peak Volume	8:00 AM	10:00 AM	10:00 AM	10:00 AM	9:00 AM	10:00 AM	5:00 AM	9:00 AM	7:00 AM	12:00 AM	9:00 AM	12:00 AM	9:00 AM	8:00 AM	10:00 AM
PM Peak Volume	1:00 PM	5:00 PM	3:00 PM	12:00 PM	4:00 PM	2:00 PM	12:00 PM	1:00 PM	12:00 PM	1:00 PM	12:00 PM	12:00 PM	12:00 PM	2:00 PM	5:00 PM
	5	249	111	3	42	3	1	5	1	0	1	0	1	11	420
	16	319	125	6	54	4	0	7	3	1	0	0	0	17	486

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Vehicle Classification Data

LOCATION: A-2 South of Enterprise Dr														QC JOB #: 15061301	
SPECIFIC LOCATION:														DIRECTION: NB, SB	
CITY/STATE: Douglas, MI														DATE: Sep 18 2019	
Start Time	Motorcycles	Cars & Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Not Classified	Total
12:00 AM	0	8	1	0	2	0	0	1	0	0	0	0	0	0	12
01:00 AM	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3
02:00 AM	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
03:00 AM	0	4	1	0	0	0	0	0	0	0	0	0	0	0	5
04:00 AM	1	9	1	0	2	0	0	0	0	0	0	0	0	0	13
05:00 AM	0	25	10	0	4	0	0	0	0	0	0	0	0	0	39
06:00 AM	0	99	27	2	13	2	0	3	0	0	0	0	0	0	146
07:00 AM	0	177	90	0	36	0	0	3	3	1	0	0	0	3	313
08:00 AM	1	177	102	2	38	1	0	4	1	0	0	0	0	9	335
09:00 AM	3	184	100	5	35	4	0	2	0	0	0	0	0	4	337
10:00 AM	2	193	96	4	38	3	0	2	0	0	0	0	0	6	344
11:00 AM	3	254	134	3	31	5	0	3	2	0	0	0	0	6	441
12:00 PM	5	286	123	4	41	3	0	4	2	0	0	0	0	9	477
01:00 PM	4	283	110	3	39	2	0	5	2	0	0	0	0	8	456
02:00 PM	12	300	145	6	50	6	0	6	2	0	0	0	0	11	538
03:00 PM	14	349	130	2	59	2	0	3	0	0	0	0	0	20	579
04:00 PM	9	303	130	1	58	0	0	5	3	0	0	0	0	11	520
05:00 PM	5	289	149	0	31	0	0	5	0	0	0	0	0	9	488
06:00 PM	4	269	86	1	38	0	0	1	0	0	0	0	0	12	411
07:00 PM	5	178	68	1	21	0	0	1	0	0	0	0	0	2	276
08:00 PM	5	136	49	1	11	0	0	1	0	0	0	0	0	1	204
09:00 PM	1	94	37	0	7	0	0	0	0	0	0	0	0	0	139
10:00 PM	0	42	8	0	2	0	0	0	0	0	0	0	0	0	52
11:00 PM	0	26	3	0	2	0	0	0	0	0	0	0	0	0	31
Day Total	74	3591	1601	35	558	28	0	49	15	1	0	0	0	111	6163
Percent	1.2%	59.9%	26%	0.6%	9.1%	0.5%	0%	0.8%	0.2%	0%	0%	0%	0%	1.8%	
ADT 6163															
AM Peak Volume	9:00 AM	11:00 AM	11:00 AM	9:00 AM	8:00 AM	11:00 AM	12:00 AM	8:00 AM	7:00 AM	7:00 AM	12:00 AM	12:00 AM	12:00 AM	8:00 AM	11:00 AM
PM Peak Volume	3:00 PM	3:00 PM	5:00 PM	2:00 PM	3:00 PM	2:00 PM	12:00 PM	2:00 PM	4:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	3:00 PM	3:00 PM
	3	254	134	5	38	5	0	4	3	1	0	0	0	9	441
	14	349	149	6	59	6	0	6	3	0	0	0	0	20	579

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Vehicle Classification Data

SUMMARY - Tube Count - Vehicle Classification Data

LOCATION: A-2 South of Enterprise Dr													QC JOB #: 15061301		
SPECIFIC LOCATION:													DIRECTION: NB, SB		
CITY/STATE: Douglas, MI													DATE: Sep 17 2019		
	Motorcycles	Cars & Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Not Classified	Total
Grand Total	146	7112	3049	65	1115	53	2	111	24	2	1	0	1	244	11925
Percent	1.2%	59.6%	25.6%	0.5%	9.4%	0.4%	0%	0.9%	0.2%	0%	0%	0%	0%	2%	
ADT 5962															
Comments:															

Report generated on 9/20/2019 11:18 AM

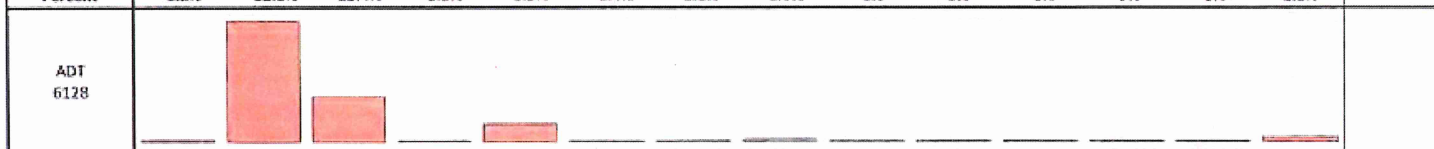
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Vehicle Classification Data

LOCATION: A-2 North of Ferry St
 SPECIFIC LOCATION:
 CITY/STATE: Douglas, MI

QC JOB #: 15061302
 DIRECTION: NB, SB
 DATE: Sep 17 2019

Start Time	Motorcycles	Cars & Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Not Classified	Total
12:00 AM	0	14	2	0	0	0	0	1	0	0	0	0	0	0	17
01:00 AM	0	4	1	0	0	0	0	0	0	0	0	0	0	0	5
02:00 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:00 AM	0	3	1	0	1	1	0	2	0	0	0	0	0	0	8
04:00 AM	0	6	3	0	0	0	0	1	0	0	0	0	0	0	10
05:00 AM	0	16	11	0	7	0	1	1	0	0	0	0	0	0	36
06:00 AM	1	64	24	3	16	0	1	3	0	0	0	0	0	0	112
07:00 AM	0	169	77	3	33	2	0	4	0	0	0	0	0	0	288
08:00 AM	3	200	94	2	30	3	1	2	0	0	0	0	0	9	344
09:00 AM	1	218	96	4	39	2	1	2	0	0	0	0	1	8	372
10:00 AM	3	297	99	2	41	2	1	5	0	0	0	0	0	10	460
11:00 AM	3	279	106	0	44	2	0	0	0	0	0	0	0	12	446
12:00 PM	4	312	114	4	45	3	0	3	0	0	0	0	0	18	503
01:00 PM	10	267	120	0	43	1	0	5	2	0	0	0	0	9	457
02:00 PM	14	345	103	2	49	3	0	6	1	0	0	0	0	12	535
03:00 PM	9	357	128	4	49	0	0	2	0	0	0	0	0	11	560
04:00 PM	6	313	118	5	45	1	0	7	0	0	0	0	0	11	506
05:00 PM	6	338	105	0	28	1	0	2	0	0	0	0	0	9	489
06:00 PM	5	233	87	0	31	1	0	4	0	0	0	0	0	6	367
07:00 PM	4	147	62	0	23	0	0	1	0	0	0	0	0	8	245
08:00 PM	2	116	49	0	9	0	0	0	0	0	0	0	0	4	180
09:00 PM	0	77	22	0	6	0	0	0	0	0	0	0	0	0	105
10:00 PM	0	43	6	0	3	0	0	2	0	0	0	0	0	0	54
11:00 PM	0	21	6	0	1	0	0	0	0	0	0	0	0	0	28
Day Total	71	3839	1435	29	543	22	5	53	3	0	0	0	1	127	6128
Percent	1.2%	62.6%	23.4%	0.5%	8.9%	0.4%	0.1%	0.9%	0%	0%	0%	0%	0%	2.1%	



AM Peak	8:00 AM	10:00 AM	11:00 AM	9:00 AM	11:00 AM	8:00 AM	5:00 AM	10:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	9:00 AM	11:00 AM	10:00 AM
Volume	3	297	106	4	44	3	1	5	0	0	0	0	1	12	460
PM Peak	2:00 PM	3:00 PM	3:00 PM	4:00 PM	2:00 PM	12:00 PM	12:00 PM	4:00 PM	1:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	3:00 PM
Volume	14	357	128	5	49	3	0	7	2	0	0	0	0	18	560

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Vehicle Classification Data

LOCATION: A-2 North of Ferry St														QC JOB #: 15061302	
SPECIFIC LOCATION:														DIRECTION: NB, SB	
CITY/STATE: Douglas, MI														DATE: Sep 18 2019	
Start Time	Motorcycles	Cars & Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Not Classified	Total
12:00 AM	0	5	0	0	0	0	0	1	0	0	0	0	0	0	6
01:00 AM	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3
02:00 AM	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
03:00 AM	0	4	0	0	0	0	0	0	0	0	0	0	0	1	5
04:00 AM	1	5	2	0	1	0	0	0	0	0	0	0	0	0	9
05:00 AM	0	17	12	0	5	1	0	0	0	0	0	0	0	0	35
06:00 AM	0	68	26	3	12	3	0	3	0	0	0	0	0	1	116
07:00 AM	0	162	78	2	40	1	0	2	2	1	0	0	0	7	295
08:00 AM	0	192	85	1	42	2	1	4	1	0	0	0	0	7	335
09:00 AM	5	215	87	4	39	1	0	5	0	0	0	0	0	2	358
10:00 AM	2	242	88	3	28	1	0	2	0	0	0	0	0	11	377
11:00 AM	4	307	124	4	46	1	0	4	2	0	0	0	0	14	506
12:00 PM	6	327	135	4	38	2	0	14	2	0	0	0	0	18	546
01:00 PM	3	312	107	4	40	2	0	4	1	0	0	0	0	11	484
02:00 PM	5	348	141	6	44	1	0	6	0	0	0	0	0	16	568
03:00 PM	14	359	132	2	50	2	0	5	0	0	0	0	0	25	589
04:00 PM	8	350	128	2	59	1	0	7	1	0	0	0	0	19	575
05:00 PM	4	324	125	1	25	1	0	7	0	0	0	0	0	12	499
06:00 PM	4	303	78	1	44	0	0	2	0	0	0	0	0	13	445
07:00 PM	9	208	65	1	17	0	0	3	0	0	0	0	0	3	306
08:00 PM	3	167	42	1	10	0	0	4	0	0	0	0	0	1	228
09:00 PM	0	89	36	0	6	0	0	0	0	0	0	0	0	2	133
10:00 PM	1	41	7	0	2	0	0	0	0	0	0	0	0	0	51
11:00 PM	0	26	0	0	3	0	0	0	0	0	0	0	0	0	29
Day Total	70	4079	1499	39	551	19	1	73	9	1	0	0	0	163	6504
Percent	1.1%	62.7%	23%	0.6%	8.5%	0.3%	0%	1.1%	0.1%	0%	0%	0%	0%	2.5%	
ADT 6504															
AM Peak Volume	9:00 AM	11:00 AM	11:00 AM	9:00 AM	11:00 AM	6:00 AM	8:00 AM	9:00 AM	7:00 AM	7:00 AM	12:00 AM	12:00 AM	12:00 AM	11:00 AM	11:00 AM
PM Peak Volume	3:00 PM	3:00 PM	2:00 PM	2:00 PM	4:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	3:00 PM	3:00 PM
	5	307	124	4	46	3	1	5	2	1	0	0	0	14	506
	14	359	141	6	59	2	0	14	2	0	0	0	0	25	589

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net)

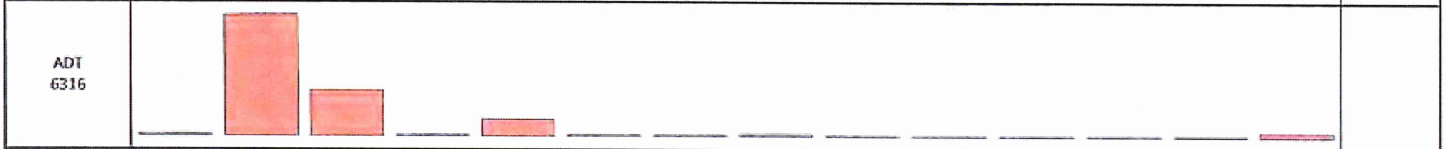
Type of report: Tube Count - Vehicle Classification Data

SUMMARY - Tube Count - Vehicle Classification Data

LOCATION: A-2 North of Ferry St
 SPECIFIC LOCATION:
 CITY/STATE: Douglas, MI

QC JOB #: 15061302
 DIRECTION: NB, SB
 DATE: Sep 17 2019

	Motorcycles	Cars & Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Not Classified	Total
Grand Total	141	7918	2934	68	1094	41	6	126	12	1	0	0	1	290	12632
Percent	1.1%	62.7%	23.2%	0.5%	8.7%	0.3%	0%	1%	0.1%	0%	0%	0%	0%	2.3%	



Comments:

Type of report: Tube Count - Vehicle Classification Data

LOCATION: A-2 Btwn Union St & Chestnut St															QC JOB #:	15061303
SPECIFIC LOCATION:															DIRECTION:	NB, SB
CITY/STATE: Douglas, MI															DATE:	Sep 17 2019
Start Time	Motorcycles	Cars & Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Not Classified	Total	
12:00 AM	1	13	5	0	0	0	0	1	0	0	0	0	0	1	21	
01:00 AM	0	6	2	0	0	0	0	0	0	0	0	0	0	0	8	
02:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	
03:00 AM	0	3	4	0	0	1	0	1	0	0	0	0	0	0	9	
04:00 AM	0	4	3	0	3	0	0	0	0	0	0	0	0	0	10	
05:00 AM	0	22	13	0	7	1	1	1	0	0	0	0	0	2	47	
06:00 AM	1	81	34	1	15	0	1	2	0	0	0	0	0	0	135	
07:00 AM	3	256	116	4	39	6	0	7	0	0	0	0	0	11	442	
08:00 AM	1	300	133	3	51	4	1	6	2	1	0	0	0	15	517	
09:00 AM	1	317	110	4	44	4	1	5	1	0	0	0	0	13	500	
10:00 AM	2	359	104	3	51	2	1	5	0	0	0	0	0	10	537	
11:00 AM	5	369	134	0	46	2	0	4	1	0	0	0	0	26	587	
12:00 PM	12	377	150	3	57	5	0	2	0	0	0	0	0	32	638	
01:00 PM	13	355	143	0	53	2	1	7	2	1	0	0	0	11	588	
02:00 PM	10	435	142	7	49	2	0	6	1	1	0	0	0	28	681	
03:00 PM	10	481	146	3	54	0	0	4	0	0	0	0	0	26	724	
04:00 PM	6	428	135	1	51	1	0	10	0	0	0	0	0	17	649	
05:00 PM	12	418	129	0	46	2	0	5	0	0	0	0	0	29	641	
06:00 PM	8	360	109	0	30	1	0	4	0	0	0	0	0	18	530	
07:00 PM	4	268	86	2	28	0	0	1	0	0	0	0	0	7	396	
08:00 PM	9	180	44	0	13	1	0	0	0	0	0	0	0	8	255	
09:00 PM	2	103	27	0	3	0	0	1	0	0	0	0	0	2	138	
10:00 PM	0	46	11	0	2	0	0	1	0	0	0	0	0	0	60	
11:00 PM	0	19	5	0	1	0	0	0	0	0	0	0	0	0	25	
Day Total	100	5202	1785	31	643	34	6	73	7	3	0	0	0	256	8140	
Percent	1.2%	63.9%	21.9%	0.4%	7.9%	0.4%	0.1%	0.9%	0.1%	0%	0%	0%	0%	3.1%		
ADT 8140																
AM Peak Volume	11:00 AM	11:00 AM	11:00 AM	7:00 AM	8:00 AM	7:00 AM	5:00 AM	7:00 AM	8:00 AM	8:00 AM	12:00 AM	12:00 AM	12:00 AM	11:00 AM	11:00 AM	
	5	369	134	4	51	6	1	7	2	1	0	0	0	26	587	
PM Peak Volume	1:00 PM	3:00 PM	12:00 PM	2:00 PM	12:00 PM	12:00 PM	1:00 PM	4:00 PM	1:00 PM	1:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	3:00 PM	
	13	481	150	7	57	5	1	10	2	1	0	0	0	32	724	

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Vehicle Classification Data

LOCATION: A-2 Btwn Union St & Chestnut St														QC JOB #: 15061303	
SPECIFIC LOCATION:														DIRECTION: NB, SB	
CITY/STATE: Douglas, MI														DATE: Sep 18 2019	
Start Time	Motorcycles	Cars & Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Not Classified	Total
12:00 AM	0	9	2	0	1	0	0	1	0	0	0	0	0	0	13
01:00 AM	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
02:00 AM	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
03:00 AM	0	4	1	0	1	0	0	0	0	0	0	0	0	0	6
04:00 AM	1	5	3	0	5	0	0	0	0	0	0	0	0	0	14
05:00 AM	0	27	10	0	6	1	0	0	0	0	0	0	0	0	44
06:00 AM	0	67	33	1	13	2	0	5	1	0	0	0	0	3	125
07:00 AM	0	257	124	4	38	0	0	7	1	0	0	0	0	5	436
08:00 AM	0	294	127	2	53	2	1	7	2	0	0	0	0	18	506
09:00 AM	4	283	114	4	48	2	0	7	0	0	0	0	0	11	473
10:00 AM	0	351	100	4	53	1	0	12	0	0	0	0	0	21	542
11:00 AM	2	405	145	7	48	3	2	8	1	0	0	0	0	30	651
12:00 PM	8	424	141	4	53	5	0	9	1	0	0	0	0	27	672
01:00 PM	4	400	144	4	53	2	0	7	0	0	0	0	0	28	642
02:00 PM	9	438	170	9	42	3	0	6	0	0	0	0	1	31	709
03:00 PM	15	483	174	5	58	4	0	6	1	0	0	0	0	40	786
04:00 PM	12	473	156	1	65	0	0	5	0	0	0	0	0	26	738
05:00 PM	8	394	131	1	43	0	0	10	1	0	0	0	0	24	612
06:00 PM	7	409	103	1	41	2	0	3	0	0	0	0	0	21	587
07:00 PM	10	327	81	3	30	1	0	2	0	0	0	0	0	10	464
08:00 PM	5	242	55	2	17	1	0	2	0	0	0	0	0	8	332
09:00 PM	0	116	38	0	4	0	0	0	0	0	0	0	0	0	158
10:00 PM	0	51	8	0	5	0	0	0	0	0	0	0	0	0	64
11:00 PM	0	24	3	0	7	0	0	0	0	0	0	0	0	0	34
Day Total	85	5494	1863	52	684	29	3	97	8	0	0	0	1	303	8619
Percent	1%	63.7%	21.6%	0.6%	7.9%	0.3%	0%	1.1%	0.1%	0%	0%	0%	0%	3.5%	
ADT															
AM Peak	9:00 AM	11:00 AM	11:00 AM	11:00 AM	8:00 AM	11:00 AM	11:00 AM	10:00 AM	8:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	11:00 AM	11:00 AM
Volume	4	405	145	7	53	3	2	12	2	0	0	0	0	30	651
PM Peak	3:00 PM	3:00 PM	3:00 PM	2:00 PM	4:00 PM	12:00 PM	12:00 PM	5:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	2:00 PM	3:00 PM	3:00 PM
Volume	15	483	174	9	65	5	0	10	1	0	0	0	1	40	786

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Vehicle Classification Data

SUMMARY - Tube Count - Vehicle Classification Data

LOCATION: A-2 Btwn Union St & Chestnut St
 SPECIFIC LOCATION:
 CITY/STATE: Douglas, MI

QC JOB #: 15061303
 DIRECTION: NB, SB
 DATE: Sep 17 2019

	Motorcycles	Cars & Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Not Classified	Total
Grand Total	185	10696	3648	83	1327	63	9	170	15	3	0	0	1	559	16759
Percent	1.1%	63.8%	21.8%	0.5%	7.9%	0.4%	0.1%	1%	0.1%	0%	0%	0%	0%	3.3%	



Comments:

Report generated on 9/20/2019 11:18 AM

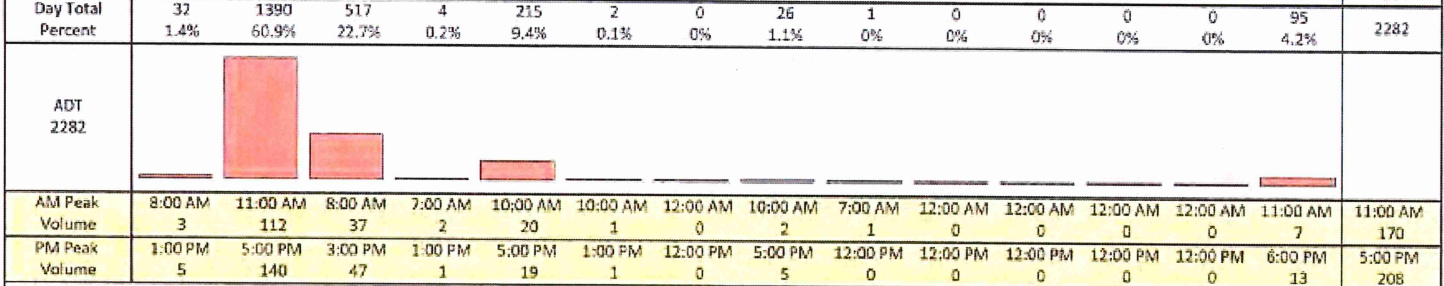
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Vehicle Classification Data

LOCATION: 130th Ave East of Water St
 SPECIFIC LOCATION:
 CITY/STATE: Douglas, MI

QC JOB #: 15061304
 DIRECTION: EB, WB
 DATE: Sep 17 2019

Start Time	Motorcycles	Cars & Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Not Classified	Total
12:00 AM	0	2	1	0	1	0	0	0	0	0	0	0	0	0	4
01:00 AM	0	3	1	0	0	0	0	0	0	0	0	0	0	2	6
02:00 AM	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
03:00 AM	0	4	0	0	1	0	0	0	0	0	0	0	0	0	5
04:00 AM	0	3	4	0	0	0	0	0	0	0	0	0	0	0	7
05:00 AM	0	21	5	0	2	0	0	0	0	0	0	0	0	0	28
06:00 AM	1	25	13	0	4	0	0	0	0	0	0	0	0	1	44
07:00 AM	1	86	34	2	15	0	0	0	1	0	0	0	0	4	143
08:00 AM	3	87	37	0	9	0	0	0	0	0	0	0	0	5	141
09:00 AM	2	60	32	1	13	0	0	0	0	0	0	0	0	5	113
10:00 AM	0	81	29	0	20	1	0	2	0	0	0	0	0	5	136
11:00 AM	1	112	34	0	15	0	0	1	0	0	0	0	0	7	170
12:00 PM	4	76	39	0	14	0	0	0	0	0	0	0	0	5	136
01:00 PM	5	82	33	1	16	1	0	2	0	0	0	0	0	5	145
02:00 PM	3	105	38	0	17	0	0	2	0	0	0	0	0	5	170
03:00 PM	1	122	47	0	15	0	0	4	0	0	0	0	0	4	193
04:00 PM	2	124	35	0	17	0	0	4	0	0	0	0	0	9	191
05:00 PM	2	140	31	0	19	0	0	5	0	0	0	0	0	11	208
06:00 PM	5	97	47	0	14	0	0	2	0	0	0	0	0	13	175
07:00 PM	2	66	25	0	13	0	0	2	0	0	0	0	0	7	115
08:00 PM	0	51	14	0	7	0	0	1	0	0	0	0	0	5	78
09:00 PM	0	21	8	0	1	0	0	0	0	0	0	0	0	2	32
10:00 PM	0	15	5	0	2	0	0	1	0	0	0	0	0	0	23
11:00 PM	0	6	4	0	0	0	0	0	0	0	0	0	0	0	10
Day Total	32	1390	517	4	215	2	0	26	1	0	0	0	0	95	2282
Percent	1.4%	60.9%	22.7%	0.2%	9.4%	0.1%	0%	1.1%	0%	0%	0%	0%	0%	4.2%	



Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Vehicle Classification Data

LOCATION: 130th Ave East of Water St														QC JOB #: 15061304	
SPECIFIC LOCATION:														DIRECTION: EB, WB	
CITY/STATE: Douglas, MI														DATE: Sep 18 2019	
Start Time	Motorcycles	Cars & Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Not Classified	Total
12:00 AM	0	3	2	0	0	0	0	0	0	0	0	0	0	0	5
01:00 AM	0	3	1	0	0	0	0	0	0	0	0	0	0	0	4
02:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 AM	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
05:00 AM	0	19	8	0	2	1	0	0	0	0	0	0	0	1	31
06:00 AM	0	33	10	0	2	0	0	0	0	0	0	0	0	1	46
07:00 AM	2	80	29	2	11	0	0	0	0	0	0	0	0	3	127
08:00 AM	0	76	40	0	12	1	0	3	0	0	0	0	0	10	142
09:00 AM	0	98	34	1	10	0	0	3	0	0	0	0	0	10	156
10:00 AM	0	92	41	1	11	0	0	4	0	2	0	0	0	2	153
11:00 AM	1	89	34	1	12	2	1	2	0	2	0	0	0	10	154
12:00 PM	7	85	56	1	9	1	0	3	0	1	0	0	0	4	167
01:00 PM	5	106	36	0	10	0	0	3	0	1	0	0	0	8	169
02:00 PM	2	94	46	0	17	1	0	1	0	2	0	0	0	7	170
03:00 PM	2	103	56	1	21	2	0	2	0	1	0	0	0	3	191
04:00 PM	3	107	41	0	19	1	0	3	0	2	0	0	0	8	184
05:00 PM	0	124	53	1	19	0	1	7	0	0	0	0	0	15	220
06:00 PM	4	143	52	0	27	0	1	1	0	0	0	0	0	11	239
07:00 PM	3	93	27	0	10	0	0	4	0	0	0	0	0	19	156
08:00 PM	1	49	19	1	9	0	0	5	0	0	0	0	0	1	85
09:00 PM	0	32	11	0	2	0	0	0	0	0	0	0	0	0	45
10:00 PM	0	8	7	0	0	0	0	0	0	0	0	0	0	0	15
11:00 PM	0	3	2	0	0	0	0	0	0	0	0	0	0	0	5
Day Total	30	1440	609	9	203	9	3	41	0	11	0	0	0	113	2468
Percent	1.2%	58.3%	24.7%	0.4%	8.2%	0.4%	0.1%	1.7%	0%	0.4%	0%	0%	0%	4.6%	
ADT															
AM Peak	7:00 AM	9:00 AM	10:00 AM	7:00 AM	8:00 AM	11:00 AM	11:00 AM	10:00 AM	12:00 AM	10:00 AM	12:00 AM	12:00 AM	12:00 AM	8:00 AM	9:00 AM
Volume	2	98	41	2	12	2	1	4	0	2	0	0	0	10	156
PM Peak	12:00 PM	6:00 PM	12:00 PM	12:00 PM	6:00 PM	3:00 PM	5:00 PM	5:00 PM	12:00 PM	2:00 PM	12:00 PM	12:00 PM	12:00 PM	7:00 PM	6:00 PM
Volume	7	143	56	1	27	2	1	7	0	2	0	0	0	19	239

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Vehicle Classification Data

SUMMARY - Tube Count - Vehicle Classification Data

LOCATION: 130th Ave East of Water St													QC JOB #: 15061304		
SPECIFIC LOCATION:													DIRECTION: EB, WB		
CITY/STATE: Douglas, MI													DATE: Sep 17 2019		
	Motorcycles	Cars & Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Not Classified	Total
Grand Total	62	2830	1126	13	418	11	3	67	1	11	0	0	0	208	4750
Percent	1.3%	59.6%	23.7%	0.3%	8.8%	0.2%	0.1%	1.4%	0%	0.2%	0%	0%	0%	4.4%	
ADT 2375															
<i>Comments:</i>															

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Vehicle Classification Data

LOCATION: N Main St South of Chestnut St														QC JOB #: 15061305	
SPECIFIC LOCATION:														DIRECTION: NB, SB	
CITY/STATE: Douglas, MI														DATE: Sep 17 2019	
Start Time	Motorcycles	Cars & Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Not Classified	Total
12:00 AM	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3
01:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:00 AM	0	3	0	0	1	0	0	0	0	0	0	0	0	0	4
04:00 AM	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3
05:00 AM	0	11	5	0	1	0	0	0	0	0	0	0	0	0	17
06:00 AM	0	18	10	0	1	0	0	0	0	0	0	0	0	0	29
07:00 AM	1	49	19	0	5	0	0	0	0	0	0	0	0	0	74
08:00 AM	1	62	15	0	6	0	0	0	0	0	0	0	0	2	86
09:00 AM	0	46	17	0	3	0	0	2	0	0	0	0	0	4	72
10:00 AM	0	62	18	0	7	0	0	0	0	0	0	0	0	0	87
11:00 AM	0	64	24	0	8	1	0	1	0	0	0	0	0	2	100
12:00 PM	0	61	18	1	5	0	0	1	0	0	0	0	0	3	89
01:00 PM	0	63	22	0	8	1	0	2	0	0	0	0	0	2	98
02:00 PM	0	81	30	1	4	0	0	1	0	0	0	0	0	6	123
03:00 PM	1	84	24	1	6	0	0	1	0	0	0	0	0	1	118
04:00 PM	0	102	19	0	8	1	0	0	0	0	0	0	0	1	131
05:00 PM	0	125	27	0	7	0	0	1	0	0	0	0	0	1	161
06:00 PM	1	94	18	0	6	0	0	0	0	0	0	0	0	3	122
07:00 PM	0	63	20	0	4	1	0	0	0	0	0	0	0	1	89
08:00 PM	0	48	14	0	2	0	0	0	0	0	0	0	0	4	68
09:00 PM	0	17	5	0	1	0	0	0	0	0	0	0	0	0	23
10:00 PM	0	12	0	0	1	0	0	0	0	0	0	0	0	1	14
11:00 PM	0	6	3	0	0	0	0	0	0	0	0	0	0	0	9
Day Total	4	1076	311	3	84	4	0	9	0	0	0	0	0	31	1522
Percent	0.3%	70.7%	20.4%	0.2%	5.5%	0.3%	0%	0.6%	0%	0%	0%	0%	0%	2%	
ADT															
AM Peak	7:00 AM	11:00 AM	11:00 AM	12:00 AM	11:00 AM	11:00 AM	12:00 AM	9:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	9:00 AM	11:00 AM
Volume	1	64	24	0	8	1	0	2	0	0	0	0	0	4	100
PM Peak	3:00 PM	5:00 PM	2:00 PM	12:00 PM	1:00 PM	1:00 PM	12:00 PM	1:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	2:00 PM	5:00 PM
Volume	1	125	30	1	8	1	0	2	0	0	0	0	0	6	161

Comments:

Report generated on 9/20/2019 11:18 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Vehicle Classification Data

LOCATION: N Main St South of Chestnut St
 SPECIFIC LOCATION:
 CITY/STATE: Douglas, MI

QC JOB #: 15061305
 DIRECTION: NB, SB
 DATE: Sep 18 2019

Start Time	Motorcycles	Cars & Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Not Classified	Total
12:00 AM	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
01:00 AM	0	1	2	0	0	0	0	0	0	0	0	0	0	0	3
02:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04:00 AM	0	2	5	0	0	0	0	0	0	0	0	0	0	0	7
05:00 AM	0	12	8	0	1	0	0	0	0	0	0	0	0	1	22
06:00 AM	0	23	8	0	2	0	0	0	0	0	0	0	0	0	33
07:00 AM	4	54	28	0	6	0	0	0	0	0	0	0	0	15	107
08:00 AM	0	57	8	0	3	0	0	0	0	0	0	0	0	2	70
09:00 AM	0	76	19	0	4	0	0	0	0	1	0	0	0	2	102
10:00 AM	0	70	22	0	5	1	0	1	1	0	0	0	0	5	106
11:00 AM	2	73	20	0	0	1	0	0	0	0	0	0	0	5	101
12:00 PM	0	71	29	0	1	0	0	2	0	0	0	0	0	6	109
01:00 PM	0	73	23	0	7	0	0	0	0	0	0	0	0	4	107
02:00 PM	1	78	47	0	5	2	0	0	0	0	0	0	0	3	136
03:00 PM	1	89	20	0	5	1	0	2	1	0	0	0	0	9	128
04:00 PM	2	93	28	0	3	3	0	1	0	0	0	0	0	11	141
05:00 PM	0	102	35	0	8	0	0	1	0	0	0	0	0	5	151
06:00 PM	1	114	31	0	11	0	0	0	0	0	0	0	0	1	158
07:00 PM	2	90	37	0	5	0	0	0	0	0	0	0	0	3	137
08:00 PM	0	63	12	0	1	0	0	0	0	0	0	0	0	0	76
09:00 PM	0	28	5	0	0	0	0	0	0	0	0	0	0	1	34
10:00 PM	0	17	5	0	1	0	0	0	0	0	0	0	0	0	23
11:00 PM	0	6	3	0	0	0	0	0	0	0	0	0	0	0	9
Day Total	13	1194	398	0	68	8	0	7	2	1	0	0	0	74	1765
Percent	0.7%	67.6%	22.5%	0%	3.9%	0.5%	0%	0.4%	0.1%	0.1%	0%	0%	0%	4.2%	



AM Peak Volume	7:00 AM	9:00 AM	7:00 AM	12:00 AM	7:00 AM	10:00 AM	12:00 AM	10:00 AM	10:00 AM	9:00 AM	12:00 AM	12:00 AM	12:00 AM	7:00 AM	7:00 AM
AM Peak Volume	4	76	28	0	6	1	0	1	1	1	0	0	0	15	107
PM Peak Volume	4:00 PM	6:00 PM	2:00 PM	12:00 PM	6:00 PM	4:00 PM	12:00 PM	12:00 PM	3:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	4:00 PM	6:00 PM
PM Peak Volume	2	114	47	0	11	3	0	2	1	0	0	0	0	11	158

Comments:

Type of report: Tube Count - Vehicle Classification Data

SUMMARY - Tube Count - Vehicle Classification Data

QC JOB #: 15061305

DIRECTION: NB, SB

DATE: Sep 17 2019

LOCATION: N Main St South of Chestnut St

SPECIFIC LOCATION:

CITY/STATE: Douglas, MI

	Motorcycles	Cars & Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Not Classified	Total
Grand Total	17	2270	709	3	152	12	0	16	2	1	0	0	0	105	3287
Percent	0.5%	69.1%	21.6%	0.1%	4.6%	0.4%	0%	0.5%	0.1%	0%	0%	0%	0%	3.2%	
ADT 1643															

Comments:

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Report generated on 9/20/2019 11:18 AM