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The Corporation of the Town of Niagara-on-the-Lake Information Report to Council

SUBJECT:	Traffic Data Collection and Speed Minders Program Results – September and October 2022
DATE:	2022-12-13
REPORT #:	OPS-22-055
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DEPARTMENT:	Operations

BACKGROUND INFORMATION

The purpose of this report is to inform Council of the data collected during September and October as part of the Town's annual traffic data collection (volume, speed, and classification) and speed minder program. Data collection began on April 4, 2022, along various roads throughout the municipality's road network, focusing on collector roads and other local roads where Town Staff has received referrals from residents or Council, with concerns of speeding being a potential issue. The armadillo traffic data collector units were installed for a one-week period at the locations identified below.

<u>Armadillo Data Collection Locations: September – October 2022</u> <u>Notes:</u>

- All speeds are in km/hr
- AADT (Annual Average Daily Traffic)
- 85th Percentile Speed or Operating Speed refers to the speed of vehicles at a time when traffic volumes are low and drivers are free to choose the speed at which they travel. This speed indicates the speed that most motorists on the road consider safe and reasonable under ideal conditions and is a good guideline for the appropriate speed limit for that road. It is a guideline which is used by most jurisdictions across North America. Alternatively, the 85th percentile can be viewed as the speed at or below which 85 percent of all vehicles are observed to travel under free-flowing conditions along a street or road past a monitored point.
- A green highlight in the tables below indicates when the 85th percentile speed exceeds the posted speed limit by more than 10km/hr.

Week 22: August 29 – September 6

	Location	Speed Limit	85 th % Speed	Average Speed	AADT
1	Regent Street From Market Street to Johnson Street	50	33	26	665
2	Victoria Street From Queen Street to Johnson Street	50	35	28	732
3	Rye Street From Flynn Street to Cottage Street	50	46	35	133
4	Hunter Road From Concession 4 Road to Four Mile Creek Road	50	69	57	295

Week 23: September 6 – September 12

	Location	Speed Limit	85 th % Speed	Average Speed	AADT
1	Line 1 Road From Concession 3 Road to Concession 4 Road	80	78	65	286
2	Line 2 Road From Concession 3 Road to Concession 4 Road	80	79	64	778
3	Church Road From Steward Road to McNab Road	60	79	67	564
4	Dumfries Street From Queen Street to Princess Street	50	40	33	290

Week 24: September 12 – September 19

	Location	Speed Limit	85 th % Speed	Average Speed	AADT
1	Line 2 Road From Concession 1 Road to Concession 2 Road	80	80	60	382
2	Line 3 Road From Concession 1 Road to Concession 2 Road	80	82	69	727
3	Warner Road From Tanbark Road to Four Mile Creek Road	50	57	49	592
4	Queen Street From Mississauga Street to Butler Street	50	55	46	1530

Week 25: September 19 – September 26

	Location	Speed Limit	85 th % Speed	Average Speed	AADT
1	Queen Street From Mississauga Street to Simcoe Street	50	48	41	5705
2	Bordeaux Drive From Tuscany Court to Seyval Place	50	48	41	562
3	Homestead Drive From Line 1 Road to Harvest Drive	50	49	44	623
4	Andres Street From Line 2 Road to Henry Street	50	49	41	570

Week 26: September 26 – October 3

	Location	Speed Limit	85 th % Speed	Average Speed	AADT
1	Henry Street From Cherry Street to Pine Street	50	53	45	438
2	Queenston Street From Walnut Street to Highlander Street	50	48	37	347
3	Princess Street From Walnut Street to Highlander Street	50	36	27	500
4	McNab Road From Lakeshore Road to Dead End (mid-block)	50	49	41	209

Week 27: October 3 – October 11

	Location	Speed Limit	85 th % Speed	Average Speed	AADT
1	Simcoe Street From Johnson Street to Queen Street	50	39	32	341
2	Front Street South From Partition Street to Kent Street	50	41	32	180
3	Highlander Street From Niagara River Parkway to Queenston Road	50	48	38	100
4	Dumfries Street From Niagara River Parkway to Queenston Road	50	43	36	255

Week 28: October 11 – October 17

	Location	Speed Limit	85 th % Speed	Average Speed	AADT
1	Gate Street From Queen Street to Johnson Street	50	35	28	340
2	Warner Road From Four Mile Creek Road to Tanbark Road	50	59	50	653
3	Line 1 Road From Homestead Drive to Concession 6 Road	50	63	54	1104
4	Shakespeare Avenue From Lakeshore Road to Addison Avenue	50	46	38	926

Week 29: October 17 – October 24

	Location	Speed Limit	85 th % Speed	Average Speed	AADT
1	William Street From Dorchester Street to Nassau Street	50	51	43	205
2	Queen Street From Dorchester Street to Nassau Street	50	54	44	1314
3	Niagara Boulevard From Lakeview Street to Lansdowne Street	50	46	37	870
4	Tanbark Road From York Road to Stoneridge Crescent	50	52	43	433

Week 30: October 25 – October 30

	Location	Speed Limit	85 th % Speed	Average Speed	AADT
1	Line 2 Road From Bordeaux Drive to Andres Street	50	56	47	1347

Speed Minder Locations September and October 2022

The following are locations where Speed Minder Boards were installed to mitigate speeding as determined through the previously conducted armadillo traffic data investigations noted above.

Speed Minders are considered warranted as a next step to mitigate a speeding issue if the 85th percentile is greater than 10 km/hr over the posted speed limit. As per a previous recommendation to Council by Staff, Speed Minders are to be installed for a total two-week period at a given location to educate motorists with the intent to have them adjust their driving behaviour.

- 1. John Street Charlotte Street to Niagara River Parkway (Eastbound & Westbound)
- 2. Concession 4 Road Paradise Grove to Sorensen Court (Northbound & Southbound)
- 3. Hunter Road Four Mile Creek Road to Concession 4 Road (Eastbound & Westbound)
- 4. Church Road Stewart Road to McNab Road (Eastbound & Westbound)
- 5. Townline Road Line 1 Road to Line 2 Road (Northbound & Southbound)
- 6. Concession 2 Road Line 8 Road to Line 9 Road (Northbound & Southbound)
- 7. Niagara Street East & West Line to Charlotte Street (Northbound & Southbound)
- 8. Concession 2 Road East & West Line to Line 1 Road (Northbound & Southbound)

Upon completion of the Town's traffic data collection investigations (volume, speed, and classification), where it has been determined that a speeding issue exists and additional mitigation efforts are warranted through the use of Speed Minders, Town Staff has compiled and forwarded a comprehensive list of locations to our Community Policing Officer Contact at Niagara Regional Police Service (NRPS). NRPS Staff will use the information to consider potential police enforcement at the identified locations at their discretion.

FINANCIAL IMPLICATIONS

Financial implications related to enacting an annual traffic data collection program include Staff time required to install and relocate the traffic collection devices and Speed Minders, download and analyze the data captured, and report the relevant information back to the enquirer and Council.

NEXT STEP / CONCLUSION

The Operations Department has concluded its traffic data collection program for 2022 and will advise original enquirers (if any) of the results of the investigations. Details will include the 85th percentile speed, a concise statement explaining what the 85th percentile speed means, and whether further action will be taken.

The Operations Department will resume the traffic data collection program in the spring of 2023 and communicate the results of those investigations to Town Council through similar Information Reports.