



City of Grande Prairie Enforcement Services (GPES)
Automated Traffic Enforcement
2020 Annual Report



INTRODUCTION:

Grande Prairie Enforcement Services (GPES) is committed to road safety through the development of a viable Traffic Plan that encompasses education, commercial vehicle inspections, vehicle defects, and general traffic enforcement, both moving and non-moving. The Traffic Plan is meant to be a living document, which will give the plan room to adjust to emerging trends and needs as they arise. Automated Traffic Enforcement (ATE) is an important component of the Traffic Plan and is one of the technologies deployed to reduce the occurrence of serious collisions and increase public safety on the road within the community.

OVERVIEW:

The City of Grande Prairie's Automated Traffic Enforcement (ATE) Program includes photo laser, red light mobile video cameras, stop sign mobile video cameras and intersection safety devices. The City has four trucks and two SUV's which are utilized seven days of the week, providing 180 hours of ATE enforcement to cover the following [site locations](#);

- Speed - 110
- Speed - Prescribed Times - 72
- Stop Signs - 6
- Red Lights – 41
- Intersection Safety Devices - 5

All locations have oversight and approval from the Grande Prairie RCMP. Along with the mobile sites, the City has 5 permanently affixed Intersection Safety Device cameras. The ATE program supports education and enforcement with a balanced and transparent approach, while working in conjunction with conventional traffic enforcement. High collision locations are annually assessed and ATE operations adjusted to help bring about improved traffic safety centered on collision and injury reduction.

COORDINATED TRAFFIC SAFETY:

The number of collisions occurring annually within the Grande Prairie Area has seen decreases in recent years (2018 through 2020). Four focus areas have been identified as keys to this success. The focus areas include:

1. INTELLIGENCE LED ENFORCEMENT

- GPES continues to acquire raw data to determine contributing factors to collisions. Analysis of this data allows us to apply it to the department's overarching traffic safety strategies. The Grande Prairie Collision Reporting Centre generates informative reports that are utilized to deploy conventional and ATE enforcement. These reports are also applied to strategies related to engineering of intersections and are cross referenced with specific intersection details.

- The top 20 intersections in Grande Prairie for collision occurrences are being studied regularly. Intersections change in ranking continually based on traffic flow, engineering changes and enforcement activities which are continually occurring. This allows GPES to quickly modify and reallocate resources as new collision hotspots are identified.
- Report and map enforcement actions to determine correlations between enforcement and collision reduction.
- Obtaining information on prolific offenders with conventional and ATE enforcement efforts. Reports are generated and these individuals are reviewed to develop a strategy to reduce the impact that they have on safe driving and the safety of the community.

2. INTEGRATED ENFORCEMENT

- The City will utilize all authorized traffic enforcement technologies including; intersection safety devices, automated traffic enforcement, conventional enforcement, and check stops.
- Integrate RCMP Municipal Traffic and Peace Officer Traffic on major initiatives (Check Stop campaigns).
- Take a strategic approach to Enforcement by targeting offenses that are leading contributors to injury collisions. These include impaired driving, distracted driving, speeding, occupant restraints and intersection related offences.
- Continue dedicating resources to strengthen Commercial Vehicle Enforcement.

3. EDUCATION

A greater emphasis on education is a top priority. Communication and awareness regarding the enforcement approaches employed by the City is essential to impart the importance of traffic safety to the community. This will allow us to identify the results we expect to achieve through the strategies utilized.

Strategies to achieve these goals include:

- Enhancing our local social media and web presence regarding traffic safety.
- Engage area high schools by hosting a youth symposium on traffic safety.
- Continuing to provide youth pedestrian safety presentations at Safe Communities.
- Provide monthly enforcement updates to area media.

- Attend AMTA (Alberta Motor Transport Association) meetings to deliver safety messages and develop professional relationships with local trucking companies.
- Attend and deliver presentations to other local groups such as the Chamber of Commerce, AMA and Grande Prairie Downtown Association.

4. ENGINEERING AND TECHNOLOGY

Through the facilitation of better collision and violation data, monthly meetings between GPES and Engineering quickly identifies any required alignment, maintenance and capital upgrade concerns. These monthly meetings allow the City to collectively explore the utilization of traffic calming measures (ie. Flashing signs) or other engineering implementations that may be put in place to satisfy an established traffic safety concern.

AUTOMATED TRAFFIC ENFORCEMENT:

The City of Grande Prairie is committed to increasing the level of safety for City roadway users. The Automated Traffic Enforcement Program is a tool to achieve increased user safety by targeting an overall reduction in the number of collisions within our City. Reducing speed and managing intersection traffic compliance has a direct impact on collisions within Grande Prairie.

1. Photo Radar

The primary focus of the mobile photo radar units is in school and playground zones and other targeted locations specified as areas of public concern due to prior history of speeding or collisions. Traffic corridors are monitored as per the criteria defined by the Automated Traffic Enforcement Technology Guidelines, February 2019 version.

2. Intersection Safety Devices

The primary focus of Intersection Safety Devices within Grande Prairie are intersections that have been identified as the highest risk locations for collisions where speed has been a contributing factor to the severity of the collision.

3. Red Light Cameras

The primary focus of Red-Light Cameras throughout Grande Prairie is identical to the Intersection Safety Device's. Key intersections throughout the City identified as the highest risk for severe collisions due to driver's failure to heed a traffic control signal.

4. Stop Sign Offences

Traffic enforcement assets cycle through key intersections controlled by stop signs within Grande Prairie that have been identified as key locations of public concern or have a history of collisions.

OUR COMMITMENT:

The City of Grande Prairie is committed to reducing the number of collisions that result in injury and fatalities through a comprehensive approach to traffic safety. This includes conventional enforcement as well as automated traffic enforcement, utilizing all authorized technologies at our disposal. Speed and failure to obey traffic control devices are two consistent variables contributing to the most devastating collisions seen on the City's roadways.

2020 marks the second consecutive year in which zero fatalities associated to motor vehicle collisions were recorded within the municipality. This is a major success for the City and GPES' approach to traffic safety. The primary focus for the Traffic Plan into the future is to continue utilizing new technologies and analytics to better focus our resources to achieve optimal results. Increasing the safety on the municipality's roadways for all motorists and pedestrians is paramount.

Appendix “A” 2020 Enforcement Services Statistics

Table 1: Grande Prairie Automated Traffic Enforcement Violations Recorded

	Speed Offences Photo Radar	Speed Offences ISD	Red Light Violations	Stop Sign Offences	Total Violations	Percent +/-
2015	11993	0	4	1124	13,121	N/A
2016	51296	8098	2362	7348	69,104	+427%
2017	36430	6716	3239	3216	49,601	-28%
2018	23213	11765	2527	3157	40,662	-18%
2019	29268	10537	3005	3606	46,416	+14%
2020	30150	11250	2406	1478	45,284	-2%

Table 2: Collisions Occurring Within City of Grande Prairie

	Fatality	Injury	Damage Over \$2000	Total Collisions	Percent +/-
2014	4	640	3407	4051	N/A
2015	2	465	2964	3431	-15%
2016	1	387	2392	2780	-18%
2017	2	355	2500	2857	+3%
2018	1	369	1736	2106	-26%
2019	0	384	1726	2110	0.2%
2020	0	243	1026	1269	-40%

Data Collected via City of Grande Prairie RCMP Police Occurrence Reporting System (PROS)

Table 3: Grande Prairie Top Collision Hotspots 2020

Intersection	Collisions	Injuries
100 Street & 116 Avenue	21	17
100 Avenue & 116 Street	20	16
100 Avenue & 108 Street	20	12
116 Avenue & 105 Street*	10	22
108 Street & 107 Avenue	10	9
108 Street & 84 Avenue	9	9
116 Street & 97 Avenue	8	11
Resources Road & 84 Avenue	7	14
100 Avenue & Resources Road*	7	6
68 Avenue & Resources Road*	7	5
68 Avenue & 108 Street	7	4
116 Street & 104 Avenue*	7	4
116 Avenue & 102 Street*	6	12
100 Street & 124 Avenue	6	6
121 Avenue & 100 Street*	6	4
108 Street & 104 Avenue	6	4
92 Street & 100 Avenue*	6	2
Total	163	157

*Intersections not in top collision hotspots for 2019.

Data Collected via Grande Prairie Collision Reporting Centre

Table 4: Grande Prairie Top Collision Hotspots 2019

Intersection	Collisions	Injuries
100 Avenue & 116 Street	51	46
100 Avenue & 108 Street	41	56
100 Street & 116 Avenue	19	14
100 Avenue & 112 Street*	17	25
116 Street & 97 Avenue	16	17
68 Avenue & 108 Street	13	27
100 Street & 132 Avenue*	13	19
100 Street & 84 Avenue*	13	20
108 Street & 84 Avenue	13	8
100 Street & 100 Avenue*	11	6
108 Street & 104 Avenue	11	2
100 Street & 99 Avenue*	11	6
Resources Road & 68 Avenue*	11	16
116 Avenue & 99 Street*	10	14
100 Avenue & 106 Street*	10	18
100 Street & 124 Avenue	10	2
108 Street & 107 Avenue	9	10
Resources Road & 84 Avenue	9	10
Total	288	316

*Intersections not in top collision hotspots for 2020.

Data Collected via Grande Prairie Collision Reporting Centre

Table 5: Grande Prairie Major Intersections by Traffic Volumes

Intersection	Traffic Volume	Date of Count
100 Avenue & 108 Street	54,975	2018
100 Street & 116 Avenue	52,090	2018
100 Avenue & 116 Street	42,282	2018
108 Street & 84 Avenue	41,621	2018
100 Street & 132 Avenue	41,565	2018
108 Street & 107 Avenue	40,729	2018
116 Avenue & 102 Street	36,650	2018
121 Avenue & 100 Street	36,124	2018
100 Street & 124 Avenue	35,252	2018
116 Street & 97 Avenue	34,351	2019
116 Avenue & 105 Street	32,301	2018
108 Street & 104 Avenue	32,176	2018
100 Avenue & 112 Street	30,929	2018
92 Street & 100 Avenue	29,774	2019
100 Avenue & Resources Road	29,436	2019
100 Street & 84 Avenue	29,223	2018
116 Avenue & 99 Street	29,058	2019
68 Avenue & 108 Street	28,167	2018
116 Street & 104 Avenue	27,096	2019
100 Avenue & 106 Street	26,086	2018
Resources Road & 68 Avenue	25,846	2018
100 Street & 100 Avenue	24,442	2019

Data collected via [Traffic Counts Dashboard \(gpgis.com\)](https://www.gpr.ca/traffic-counts)