AUTOMATED TRAFFIC ENFORCEMENT

2020 ANNUAL TRAFFIC REPORT

Overview

The City of Red Deer's Automated Traffic Enforcement (ATE) Program includes photo laser, red light and intersection speed cameras. The City of Red Deer (The City) has three mobile trucks with 252 site locations that have oversight and approval from Red Deer RCMP. Along with the mobile sites, Red Deer has 10 permanently affixed Intersection Safety Device cameras, with four of the 10 activated on a monthly basis. The ATE program supports education and enforcement with a balanced and transparent approach, while working in conjunction with conventional traffic enforcement.

Coordinated Traffic Safety

The City of Red Deer prioritizes traffic safety initiatives. Through monthly interdepartmental meetings, a working group ensures traffic safety initiatives are pursued and areas of concern are identified and mitigated in a timely manner. The City of Red Deer traffic safety outcomes are achieved using the Five E approach (Education, Engineering, Enforcement, Engagement and Evaluation).

The City of Red Deer is committed to increasing the level of safety for city roadway users. The ATE is a tool used to achieve increased user safety, by targeting an overall reduction in the number of collisions in our city. Reducing speed and managing intersection traffic compliance has a direct impact on collisions within Red Deer. The Table below shows ATE data from 2017-2020.

VIOLATION TOTALS	PHOTO RADAR	RED LIGHT CAMERA	SPEED THROUGH INTERSECTIONS
2017	20,825	136	1,378
2018	15,152	255	19,993
2019	10,444	322	14,876
2020	6,951	288	9,246

Photo Radar

The primary focus of the mobile units is in school and playground zones. Traffic corridors are monitored as per the criteria defined by the Automated Traffic Enforcement Technology Guidelines, February 2019 version. An overall reduction of violations by 40% has been realized between 2019 to 2020.

Red Light Cameras

From 2019 to 2020, there was an 11% decrease in red light violations. In April of 2018, The City of Red Deer implemented a new Intersection Safety Device system that has the ability to enforce all lanes of traffic simultaneously. The previous system was only able to enforce 1 lane at a time. The infraction increase is primarily due to the enhancement of technology and its ability to capture more violations at any given time. It is acknowledged that other factors such as an increase of drivers, weather conditions, and distracted driving may also contribute to the overall increase in violations. The City is committed to achieving an overall reduction of traffic offences, which contribute to injuries and fatalities on our roadways.

Intersection Speed Cameras

In 2017, Red Deer City Council approved the use of intersection speed technology. An education program between July and October of 2017 resulted in 3,662 warning violations issued to offending vehicles' registered owners. Starting November 2, 2017, official violation notices were issued to offenders. In April 2018, Red Deer implemented a new Intersection Safety Device system with the ability to enforce infractions in all lanes of traffic simultaneously. Research confirms that the first year of implementation of intersection speed technology results in the highest infraction rate as drivers require time to adjust driving behavior and patterns. From 2018 to 2019, there was an overall reduction in speed violations by 26%. The average speed of motorists was 76 km/h, followed by a further reduction in 2019 to an average speed of 75 km/h. From 2019 to 2020, there was an overall reduction in speed violations by 37%. The average speed of motorists was 75 km/h, followed by a further reduction in 2020 to an average speed of 74 km/h.

In 2019, 8,626,715 motor vehicles travelled through each lane of our monitored intersections. This resulted in the issuing of 15,198 violations or 0.18%, for either red light and/or speed infractions.

In 2020, 7,517,124 motor vehicles travelled through each lane of our monitored intersections. This resulted in the issuing of 9,534 violations or 0.13% for either red light and/or speed infractions.

COLLISION TYPES	TOTAL # PUBLIC ROADWAY COLLISIONS	TOTAL # FATAL & INJURY COLLISIONS	TOTAL # COLLISIONS AT ISD LOCATIONS
2016	2,208	197	208
2017	2,357	140	229
2018	2,079	148	187
2019	2,194	171	146
2020	1,879	165	95

Data collected from 2020 Red Deer Annual Motor Vehicle Collision Report, Engineering Services

Public Roadway Collisions *includes all collisions that occurred on any road or street within the City of Red Deer. Parking lots and alleys are excluded.*

From 2016 to 2018:

There is a 5.8% overall reduction in total number of collisions

There is a 25% overall reduction in injury and fatal collisions

There is a 36% overall reduction in collisions at our intersection camera locations in Red Deer

From 2018 to 2020:

There is a 9.6% overall reduction in total number of collisions

There is a 11.5% overall reduction in injury and fatal collisions

There is a 50.1% overall reduction in collisions at our intersection camera locations in Red Deer

Our Commitment

The City of Red Deer, Municipal Policing Services, RCMP, and the Province of Alberta share the same end goal - to make our roadways safer. Through the ATE and continued public education, The City of Red Deer remains dedicated to reducing both the occurrence and severity of collisions in our community.

*Published December 2021