

Analytical Report: *Traffic Collisions by Location 2017-2024 (excluding 2023)*

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Overview

Published August 14, 2026, *Traffic Collisions by Location 2017-2024 (excluding 2023)* is a dataset collected and maintained by the City of Ottawa, provided to the public under the Open Data Licence Version 2.0, detailing all traffic collisions between 2017-2024 (excluding 2023) in the Ottawa region.¹ A total of 94,406 traffic incidents were documented. Collision information is collected via motor vehicle collision reports submitted by the Ottawa police and provided to the city for inclusion in its collision database.² This dataset provides collision information, including the severity and number of victims, aiding city planning officials in making educated decisions in relation to road policy changes or additions to certain roads and routes to prevent future collisions.

Technical Contents

Each incident entry contains the incident's date, exact coordinates, year, intersection/road the incident occurred on, accident classification, impact type, road surface condition, environmental condition, light/time of day, and traffic control (Figure 1). Furthermore, it contains data on the number of vehicles, pedestrians, bicycles, motorcycles involved, as well as injuries and the level of severity from minimal to fatal. This dataset is updated and reviewed annually and has its metadata readily available. However, I found no separate data dictionary or methodological guide.³ The data can be accessed online through the City of Ottawa website, and can be viewed in three different forms: an embedded Geo-map, a Tabular Data View or an ArcGIS Feature Layer. It can be accessed and downloaded/shared via CSV, Shapefile, GeoJSON, and KML. Downloading the data via CSV was the most efficient method; after the small pop-up window that appears when the download button is pressed, I was able to open the table in Excel. The dataset is provided under the City of Ottawa Open

¹ City of Ottawa, "Traffic Collisions by Location 2017–2024 (excluding 2023)," *Open Ottawa*, accessed September 13, 2026, <https://open.ottawa.ca/datasets/ottawa::traffic-collisions-by-location-2017-2024-excluding-2023/explore?location=45.280000%2C-75.747200%2C1&showTable=true>

² City of Ottawa, "Traffic Collisions by Location 2017–2024 (excluding 2023): About," *Open Ottawa*, accessed September 13, 2026, <https://open.ottawa.ca/datasets/ottawa::traffic-collisions-by-location-2017-2024-excluding-2023/about>

³ City of Ottawa, "Traffic Collisions by Location 2017–2024 (excluding 2023): ISO-19139 Metadata," *ArcGIS*, accessed September 13, 2026, <https://www.arcgis.com/sharing/rest/content/items/710b179eba564aa58fbb3f34d5d599d9/info/metadata/metadata.xml?format=default&output=html>

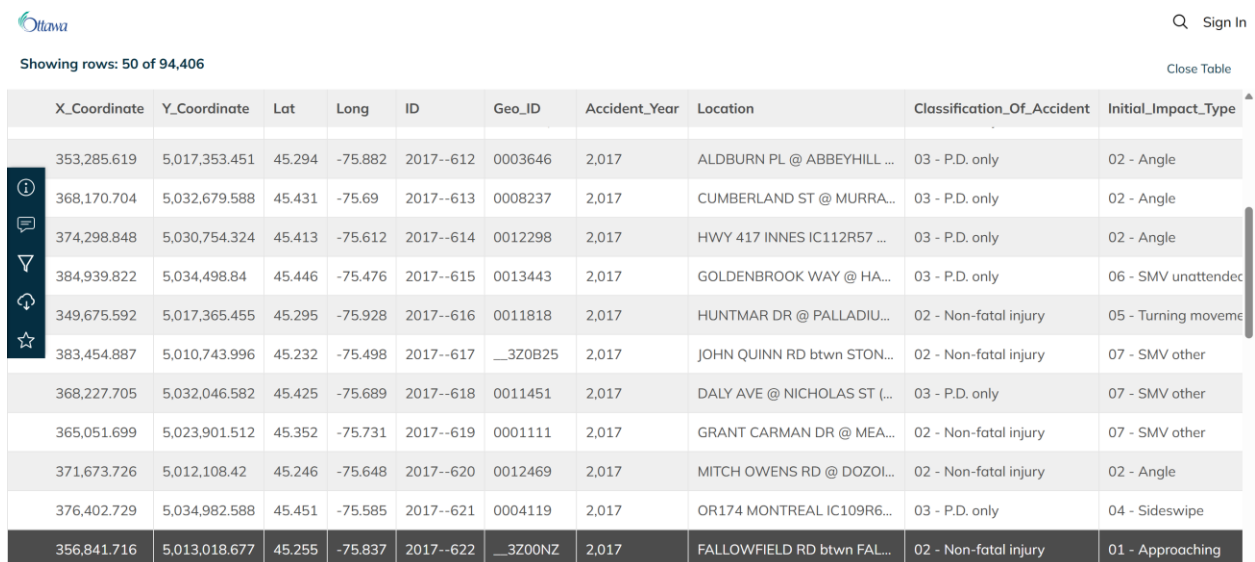
Data Licence Version 2.0, which allows copying, modification, publication and commercial use as long as it's for lawful purposes with proper attribution and accreditation.⁴

Quality & Limitations

The dataset provides detailed information on 94,406 reported traffic collisions across Ottawa from 2017 to 2024 (excluding 2023). It uses official police collision reports and City validation procedures, providing a strong basis for reliability and transparency. The data is clearly structured and can be filtered by variables such as location, collision type and injury severity, making it accessible for a wide range of analyses. However, the complete absence of 2023 creates a significant gap and limits the dataset's usefulness for continuous 2017 to 2024 trend analysis.

Fit for Use Assessment

This dataset is fit to be used for needs pertaining to geographic distribution, characteristics, and trends in reported traffic collisions in the City of Ottawa. While the dataset is well suited for identifying broader collision trends across Ottawa, the absence of 2023 limits its reliability for continuous analysis and weakens any findings and conclusions that depend on complete 2017 to 2024 comparisons.



X_Coordinate	Y_Coordinate	Lat	Long	ID	Geo_ID	Accident_Year	Location	Classification_Of_Accident	Initial_Impact_Type
353,285.619	5,017,353.451	45.294	-75.882	2017--612	0003646	2,017	ALDBURN PL @ ABBEYHILL ...	03 - P.D. only	02 - Angle
368,170.704	5,032,679.588	45.431	-75.69	2017--613	0008237	2,017	CUMBERLAND ST @ MURRA...	03 - P.D. only	02 - Angle
374,298.848	5,030,754.324	45.413	-75.612	2017--614	0012298	2,017	HWY 417 INNES IC112R57 ...	03 - P.D. only	02 - Angle
384,939.822	5,034,498.84	45.446	-75.476	2017--615	0013443	2,017	GOLDENBROOK WAY @ HA...	03 - P.D. only	06 - SMV unattendec
349,675.592	5,017,365.455	45.295	-75.928	2017--616	0011818	2,017	HUNTMAR DR @ PALLADIU...	02 - Non-fatal injury	05 - Turning moveme
383,454.887	5,010,743.996	45.232	-75.498	2017--617	__320825	2,017	JOHN QUINN RD btwn STON...	02 - Non-fatal injury	07 - SMV other
368,227.705	5,032,046.582	45.425	-75.689	2017--618	0011451	2,017	DALY AVE @ NICHOLAS ST (...)	03 - P.D. only	07 - SMV other
365,051.699	5,023,901.512	45.352	-75.731	2017--619	0001111	2,017	GRANT CARMAN DR @ MEA...	02 - Non-fatal injury	07 - SMV other
371,673.726	5,012,108.42	45.246	-75.648	2017--620	0012469	2,017	MITCH OWENS RD @ DOZOI...	02 - Non-fatal injury	02 - Angle
376,402.729	5,034,982.588	45.451	-75.585	2017--621	0004119	2,017	OR174 MONTREAL IC109R6...	03 - P.D. only	04 - Sideswipe
356,841.716	5,013,018.677	45.255	-75.837	2017--622	__3200NZ	2,017	FALLOWFIELD RD btwn FAL...	02 - Non-fatal injury	01 - Approaching

Figure 1: Tabular attribute table view of the City of Ottawa Traffic Collisions by Location 2017–2024 (excluding 2023)

Source: City of Ottawa. "Traffic Collisions by Location 2017–2024 (excluding 2023)," Open Ottawa, accessed September 13, 2026, <http://open.ottawa.ca/datasets/ottawa::traffic-collisions-by-location-2017-2024-excluding-2023/explore?location=45.280000%2C-75.747200%2C1&showTable=true>

⁴ City of Ottawa, "Open Data Licence Version 2.0," City of Ottawa, accessed September 13, 2026, <https://ottawa.ca/en/city-hall/open-transparent-and-accountable-government/open-data/open-data-licence-version-20>

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<https://open.ottawa.ca/datasets/ottawa::traffic-collisions-by-location-2017-2024-excluding-2023/explore?location=45.280000%2C-75.747200%2C1&showTable=true>.

City of Ottawa. “Traffic Collisions by Location 2017–2024 (excluding 2023): About.” *Open Ottawa*. Accessed September 13, 2026.

<https://open.ottawa.ca/datasets/ottawa::traffic-collisions-by-location-2017-2024-excluding-2023/about>.

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<https://www.arcgis.com/sharing/rest/content/items/710b179eba564aa58fbb3f34d5d599d9/info/metadata/metadata.xml?format=default&output=html>

City of Ottawa, “Open Data Licence Version 2.0,” *City of Ottawa*, accessed September 13, 2026,

<https://ottawa.ca/en/city-hall/open-transparent-and-accountable-government/open-data/open-data-licence-version-20>

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