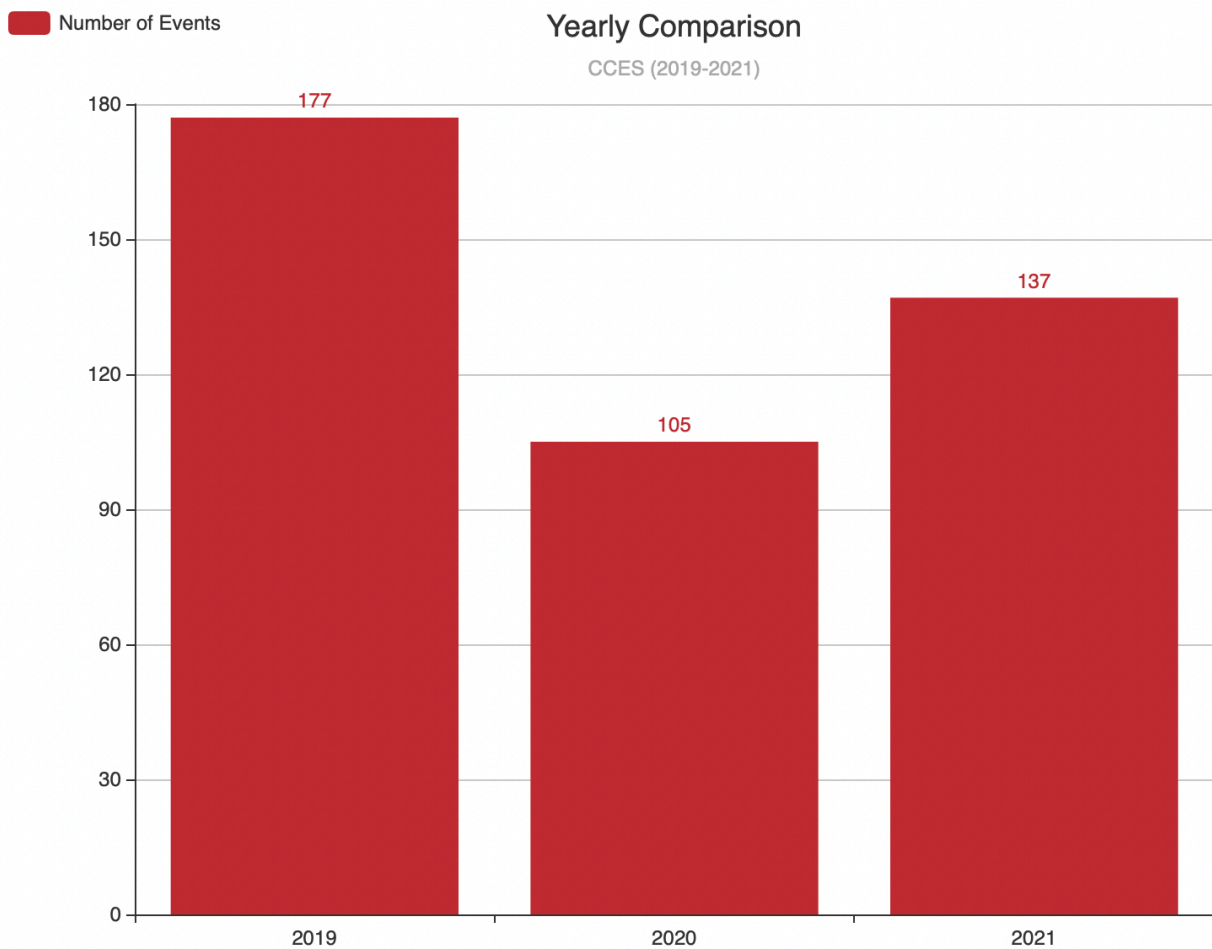


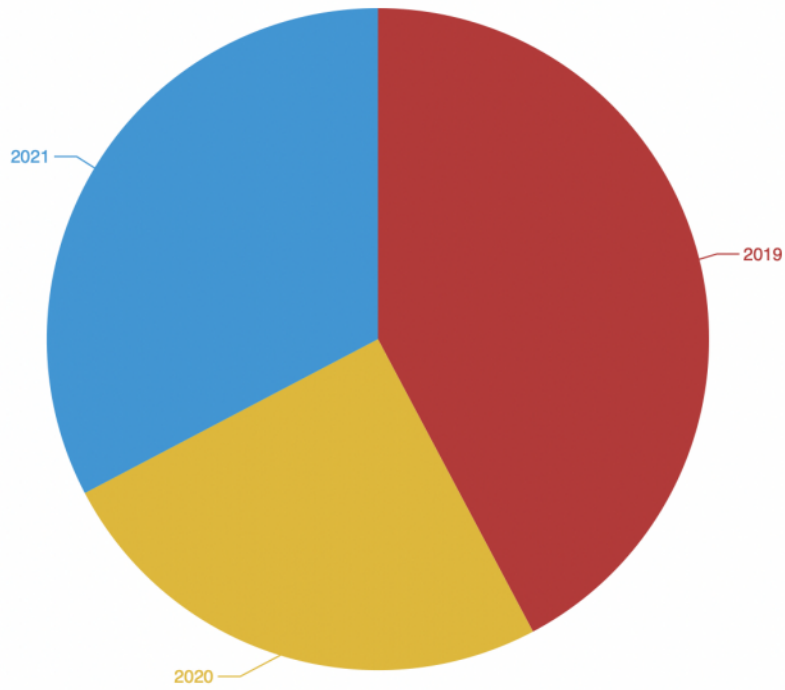
# Yearly Comparison (2019 - 2021)

\*previous year reports can be found at <https://www.experiencersupport.org/the-data>



- 419 events occurred between 2019 and 2021
- 139 events per year on average

Yearly Comparison  
(CCES 2019-2021)

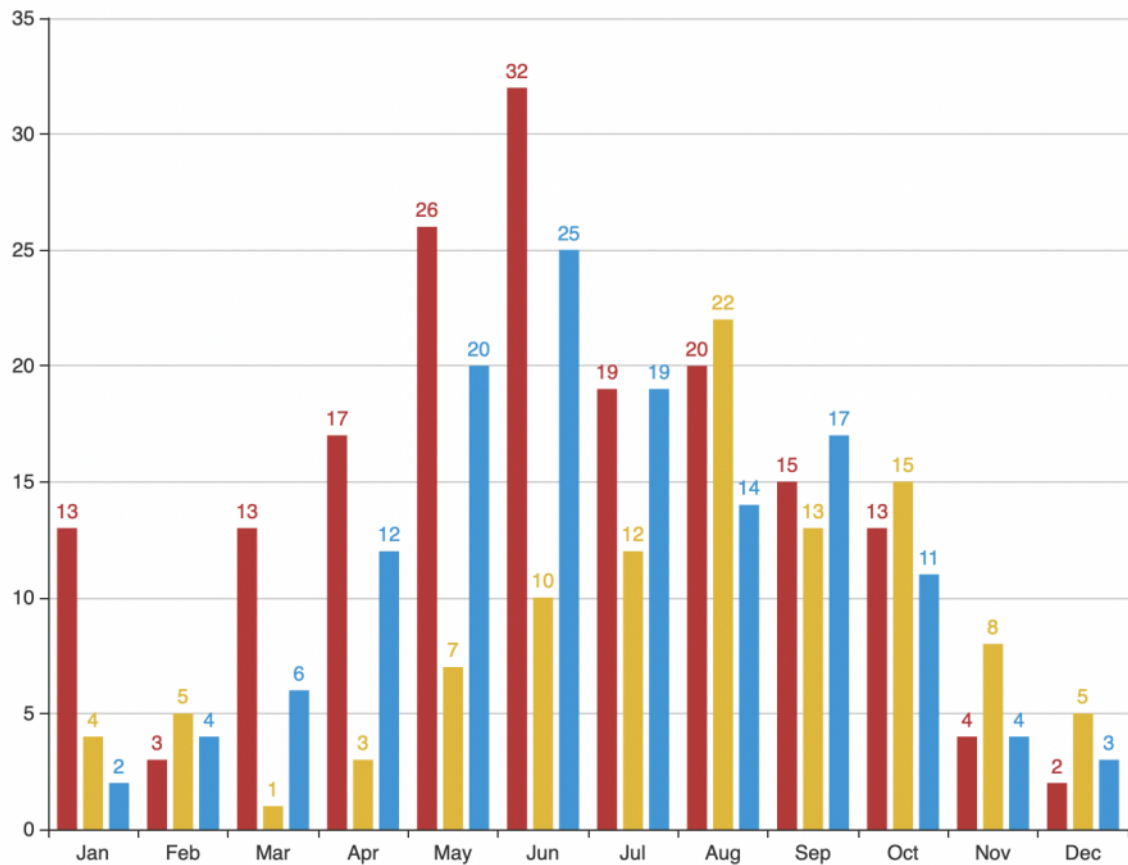


- 2021 = 32.7%
- 2020 = 25.06%
- 2019 = 42.24%

2019 2020 2021

## Events By Month

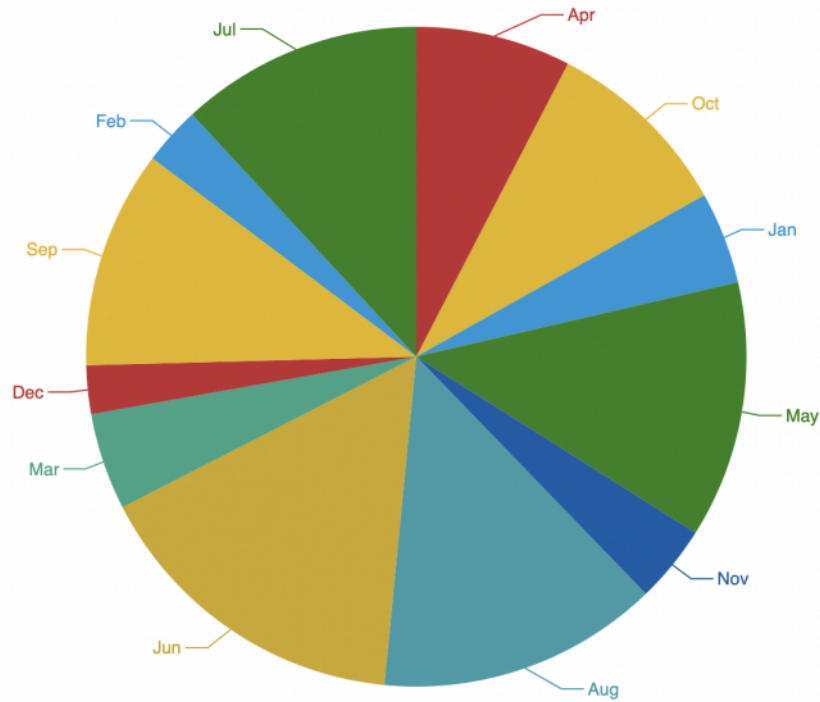
CCES (2019-2021)



- 19 events occurred in January
- 12 events occurred in February
- 20 events occurred in March
- 32 events occurred in April
- 53 events occurred in May
- 67 events occurred in June
- 50 events occurred in July
- 56 events occurred in August
- 45 events occurred in September
- 39 events occurred in October
- 16 events occurred in November
- 10 events occurred in December
  
- 34 events per month on average

## Events By Month

(CCES 2019-2021)



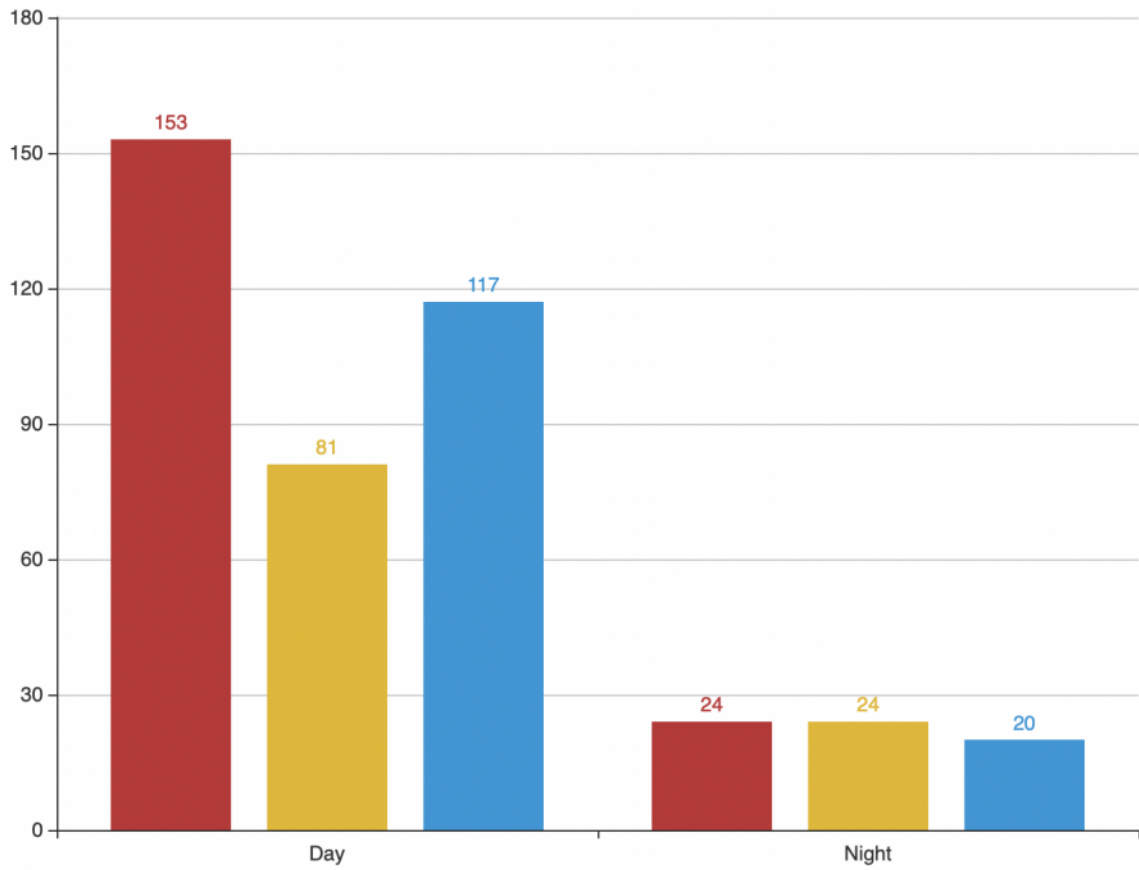
Apr Aug Dec Feb Jan Jul Jun Mar May Nov Oct Sep

- 4.51% events occurred in January
- 2.85% events occurred in February
- 4.75% events occurred in March
- 7.6% events occurred in April
- 12.59% events occurred in May
- 15.91% events occurred in June
- 11.88% events occurred in July
- 13.78% events occurred in August
- 10.69% events occurred in September
- 9.26% events occurred in October
- 3.8% events occurred in November
- 2.38% events occurred in December

2019 2020 2021

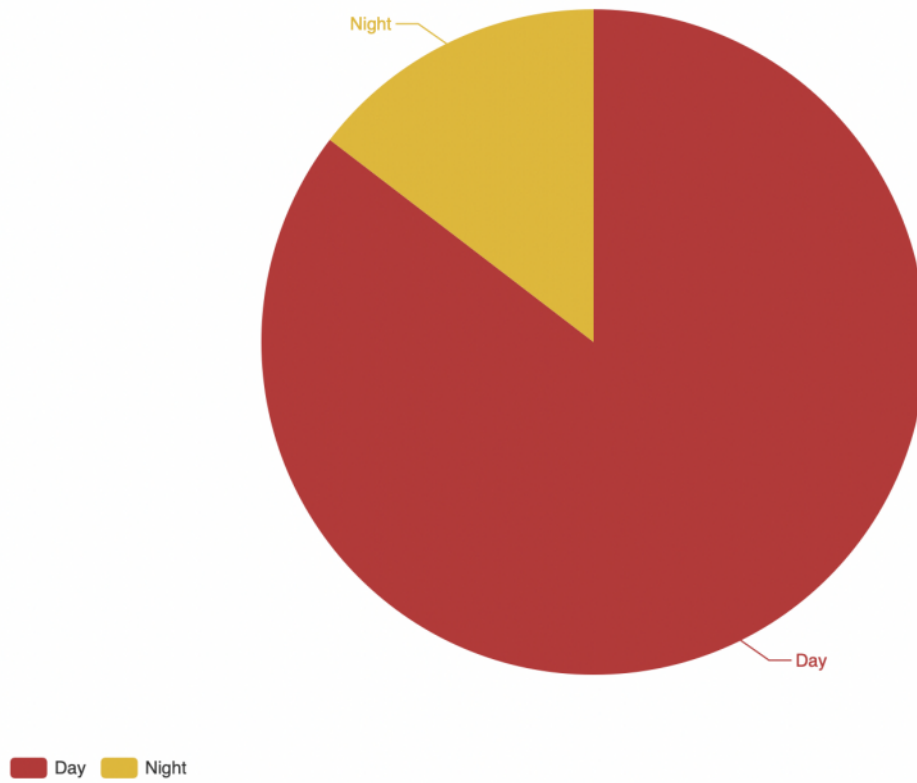
### Time of Day

CCES (2019-2021)



- 351 events occurred during the day
- 68 events occurred during the night

Tme of Day  
(CCES 2019-2021)

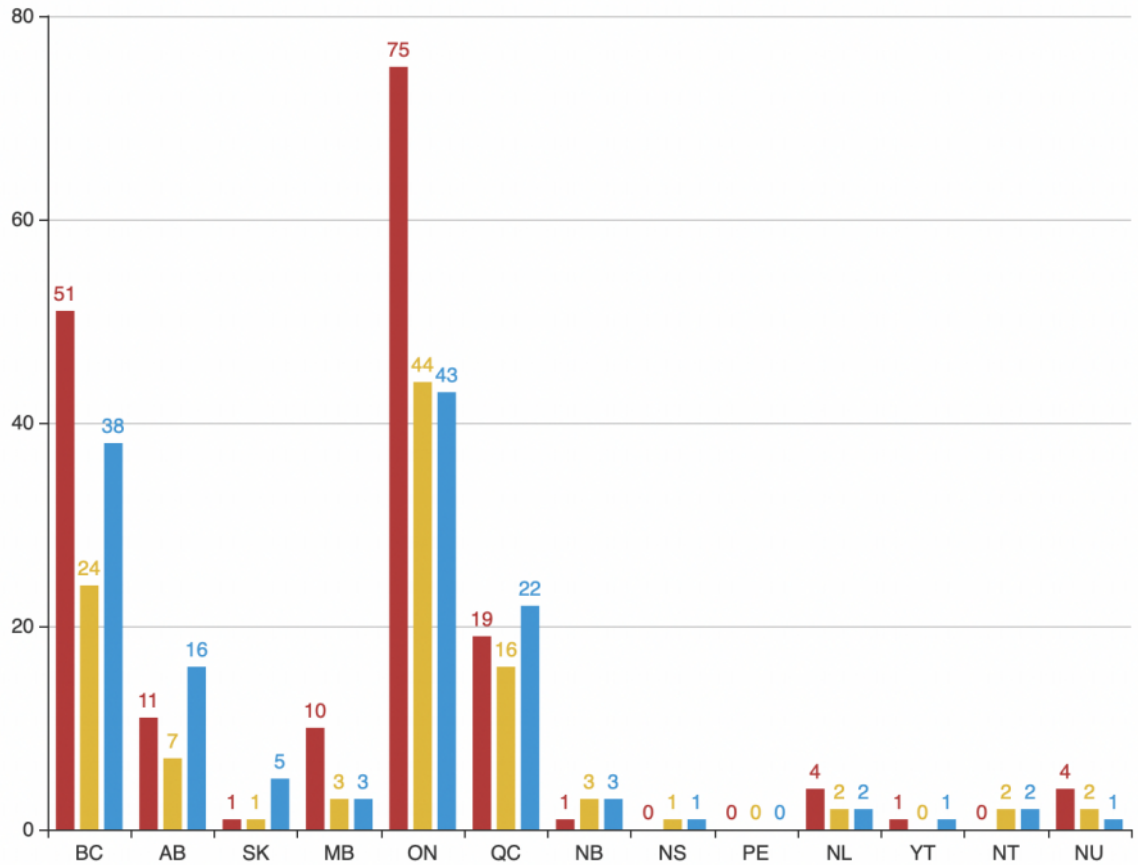


- 85.4% events occurred during the day
- 14.6% events occurred during the night

2019 2020 2021

## Events By Province

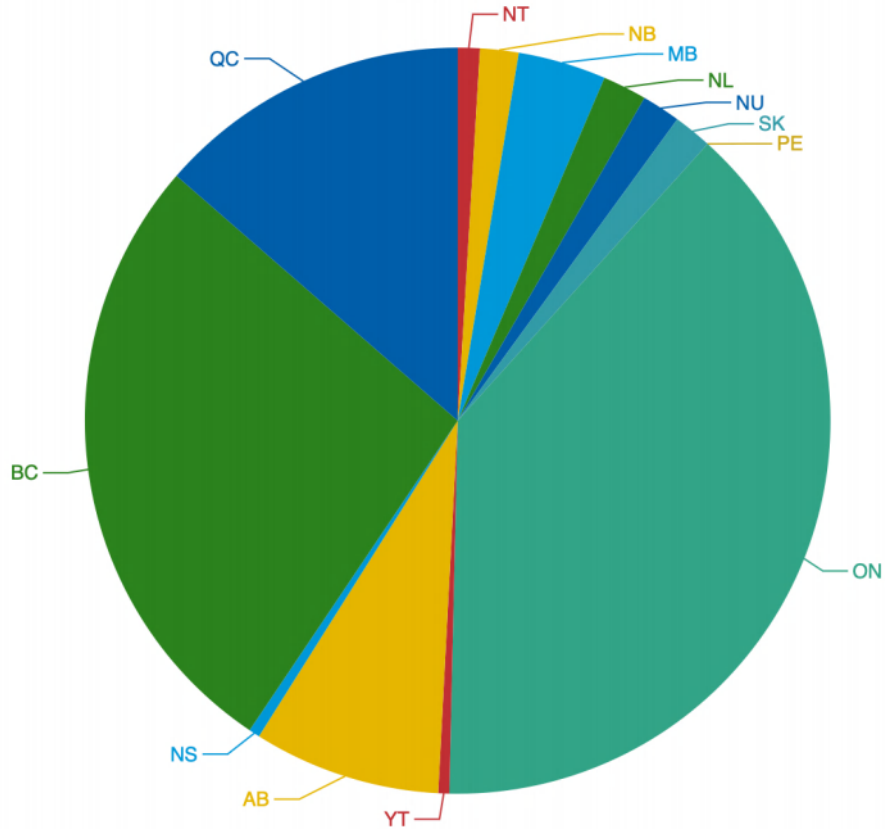
CCES (2019-2021)



- 113 events occurred in British Columbia
- 34 events occurred in Alberta
- 7 events occurred in Saskatchewan
- 162 events occurred in Ontario
- 57 events occurred in Quebec
- 7 events occurred in New Brunswick
- 2 events occurred in Nova Scotia
- 0 events occurred in Prince Edward Island
- 8 events occurred in Newfoundland
- 2 events occurred in Yukon Territories
- 4 events occurred in Northwest Territories
- 7 events occurred in Nunavut

## Events By Province

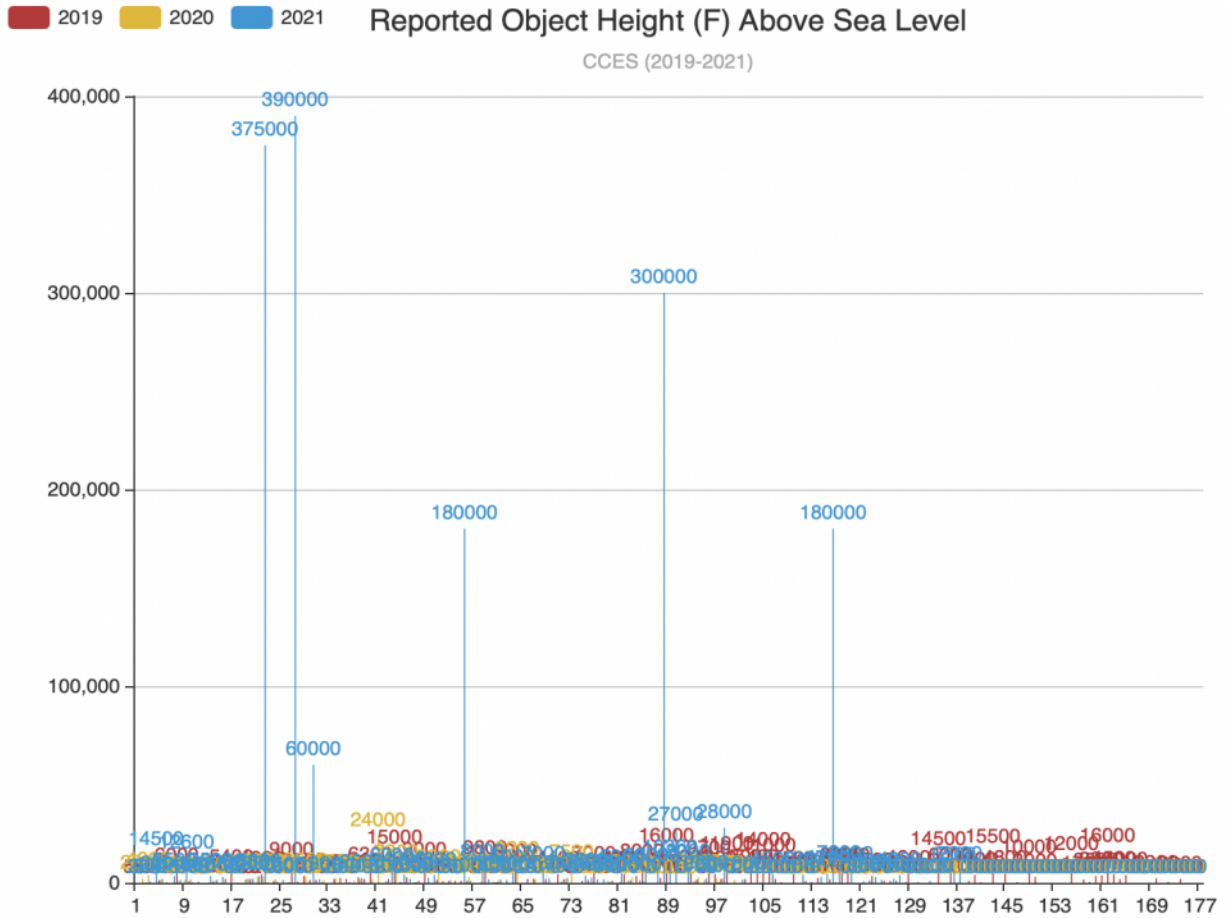
CCES (2019-2021)



AB BC MB NB NL NS NT NU ON PE QC SK YT

- 8.11% events occurred in Alberta
- 1.67% events occurred in Saskatchewan
- 38.66% events occurred in Ontario
- 13.6% events occurred in Quebec
- 1.67% events occurred in New Brunswick
- 0.48% events occurred in Nova Scotia
- 0% events occurred in Prince Edward Island
- 1.91% events occurred in Newfoundland
- 0.48% events occurred in Yukon Territories
- 0.95% events occurred in Northwest Territories
- 1.67% events occurred in Nunavut





- Below 400 (Safe and Allowable Drone Flight Range)
- Between 401 and 50,000 (Average Safe Commercial Flight Range)
  - Between 10,000 and 50,000 (Average Military Drone Range)
- Between 50,001 and 100,000 (Average Military Flight Allowance)
- Between 100,001 and 328,000 (Average Rocket Powered Flight Range)
- Above 328,000 (Space)

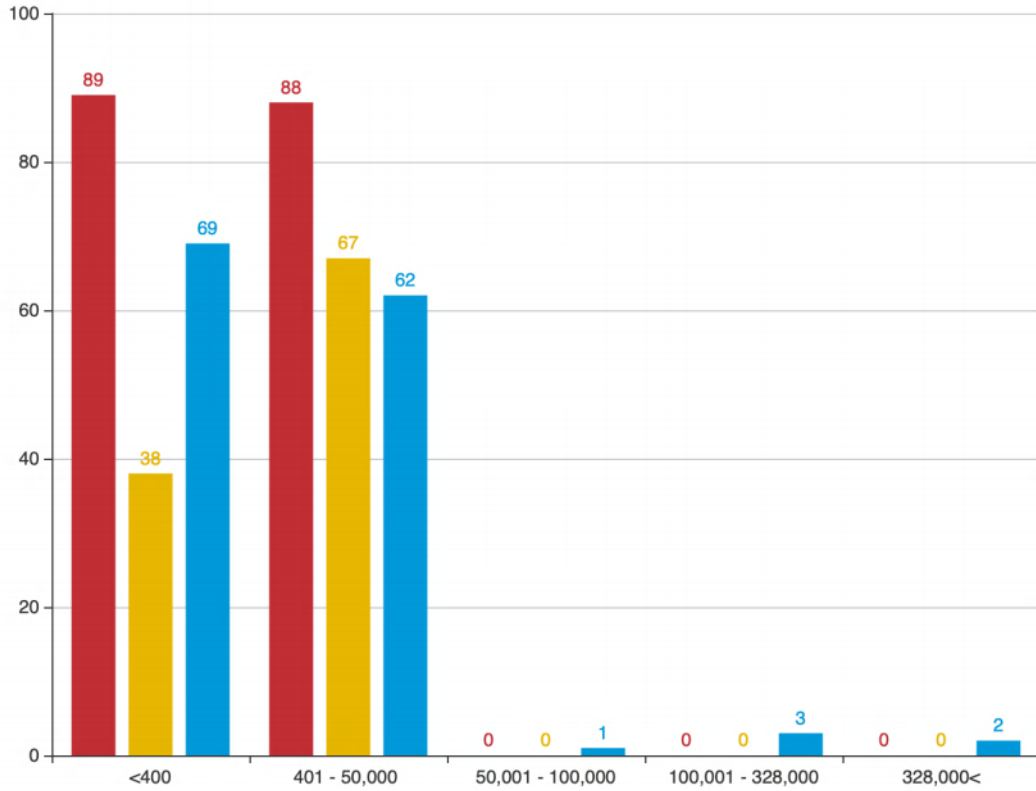
Reference:

- <https://tc.canada.ca/en/aviation/drone-safety/learn-rules-you-fly-your-drone/flying-your-drone-safely-legally>
- <https://time.com/5309905/how-high-do-planes-fly/>
- <https://dronesgator.com/best-high-altitude-drones/>
- [https://en.wikipedia.org/wiki/Unmanned\\_aerial\\_vehicle](https://en.wikipedia.org/wiki/Unmanned_aerial_vehicle)
- <https://aerocorner.com/blog/how-high-do-airplanes-fly/>
- [https://www.science20.com/satellite\\_diaries/how\\_high\\_space-69753](https://www.science20.com/satellite_diaries/how_high_space-69753)

### Reported Object Height (F) Above Sea Level

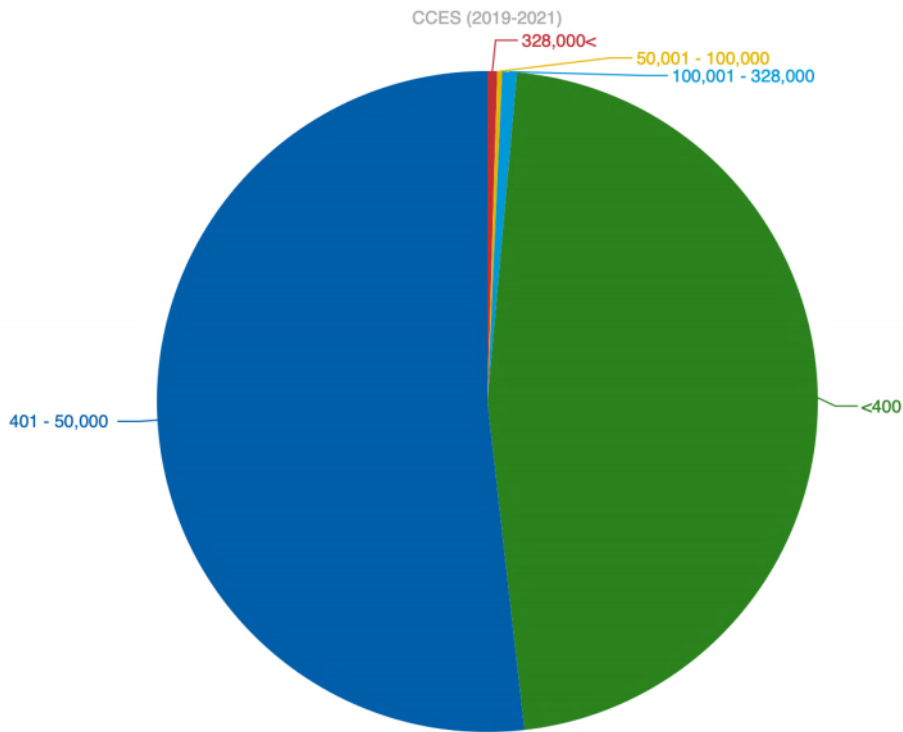
2019 2020 2021

CCES (2019-2021)



- 196 events occurred below 400 (Safe and Allowable Drone Flight Range)
- 217 events occurred between 401 and 50,000 (Average Safe Commercial Flight Range)
- 1 event occurred between 50,001 and 100,000 (Average Military Flight Allowance)
- 3 events occurred between 100,001 and 328,000 (Average Rocket Powered Flight Range)
- 2 events occurred above 328,000 (Space)

### Reported Object Height (F) Above Sea Level



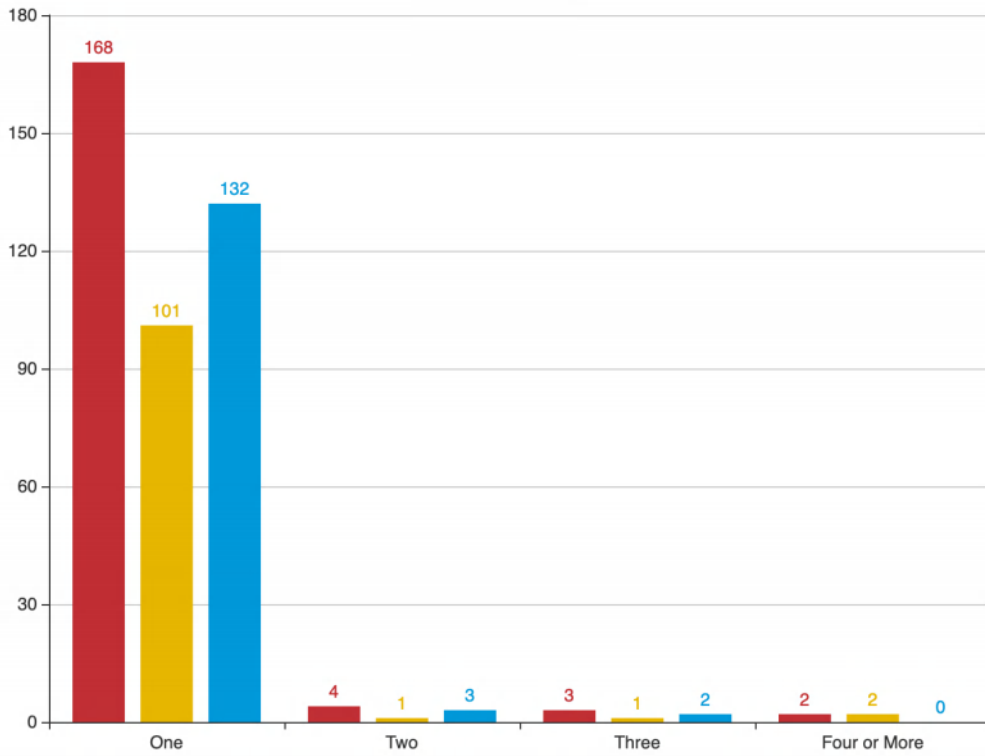
100,001 - 328,000 328,000< 401 - 50,000 50,001 - 100,000 <400

- 46.78% events occurred below 400 (Safe and Allowable Drone Flight Range)
- 51.79% events occurred between 401 and 50,000 (Average Safe Commercial Flight Range)
- 0.24% event occurred between 50,001 and 100,000 (Average Military Flight Allowance)
- 0.72% events occurred between 100,001 and 328,000 (Average Rocket Powered Flight Range)
- 0.48% events occurred above 328,000 (Space)

### Reported Object Height (F) Above Sea Level

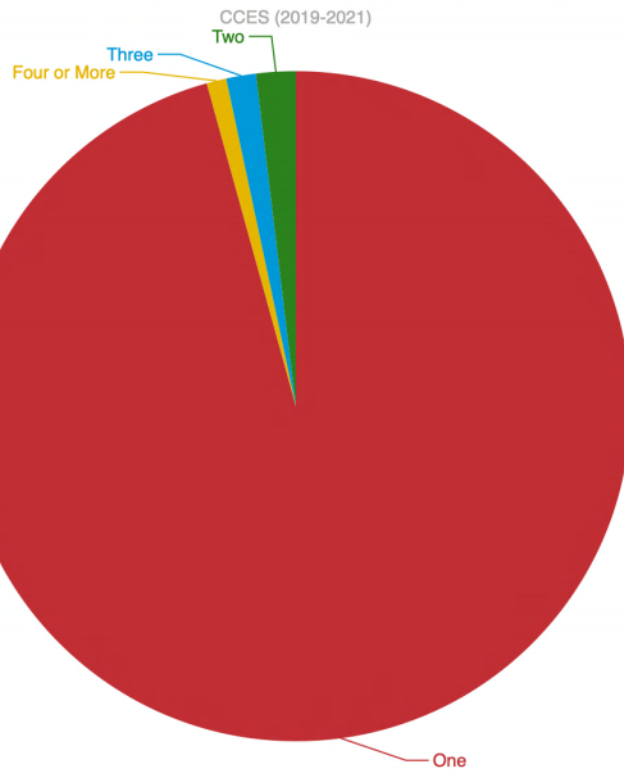
2019 2020 2021

CCES (2019-2021)



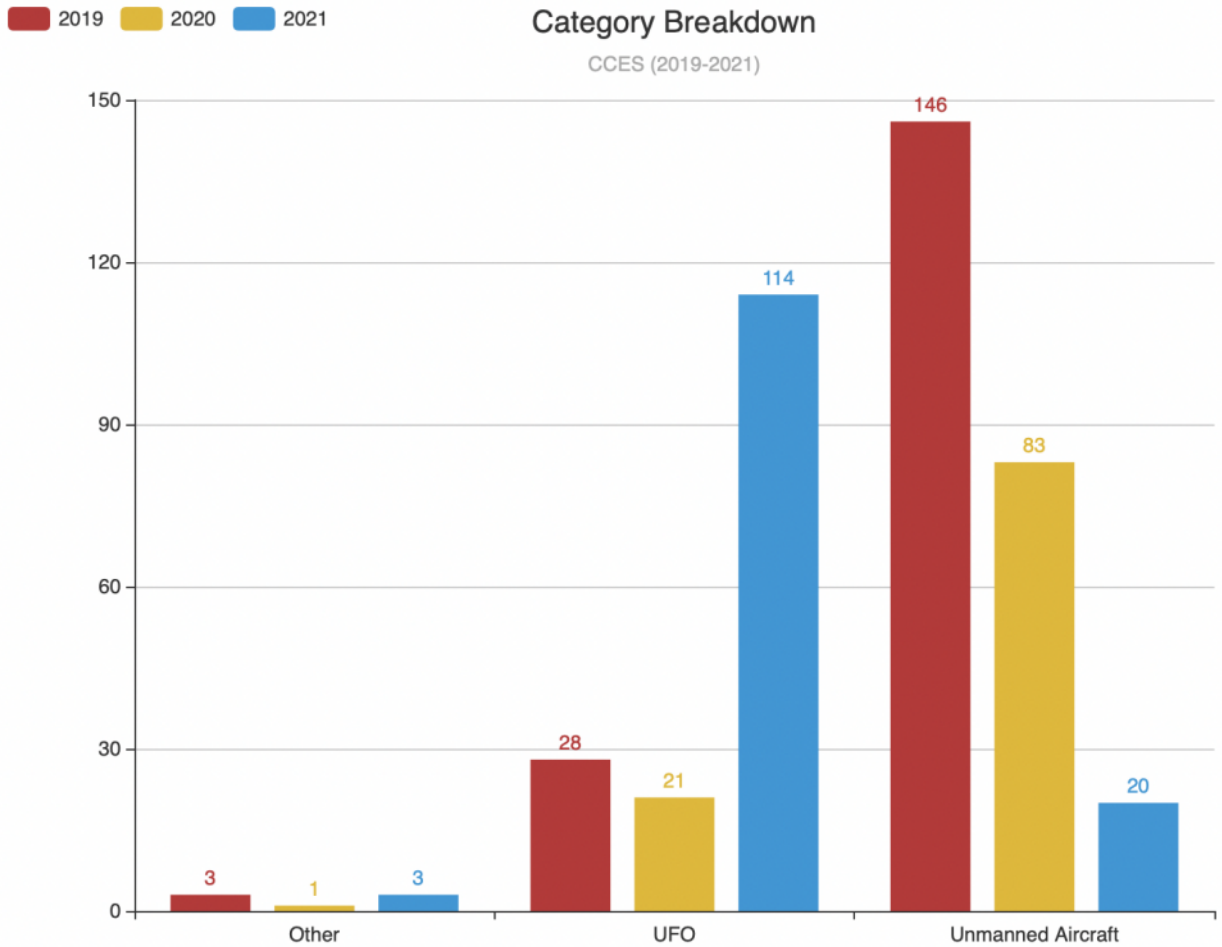
- 401 events involved 1 object
- 8 events involved 2 objects
- 6 events involved 3 objects
- 4 event involved 4 or more objects

### Reported Object Height (F) Above Sea Level



Four or More One Three Two

- 95.7% of events involved 1 object
- 1.91% of events involved 2 objects
- 1.43% events involved 3 objects
- 0.95% event involved 4 or more objects

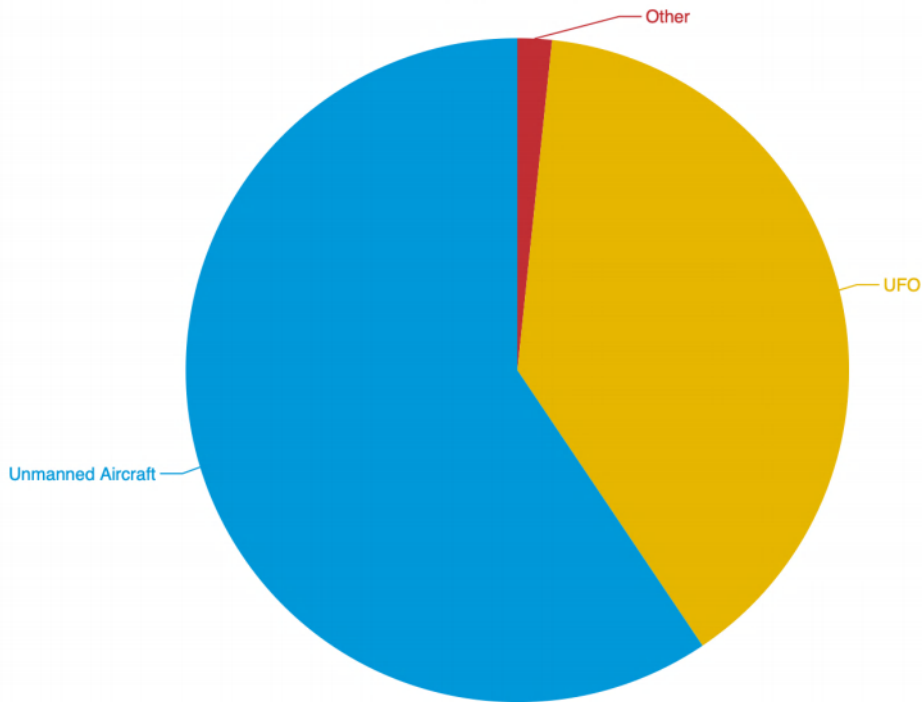


- 7 events were categorized as “Other”
- 163 events were categorized as “UFO”
- 249 events were categorized Unmanned Aircraft

170 events involve unidentified objects

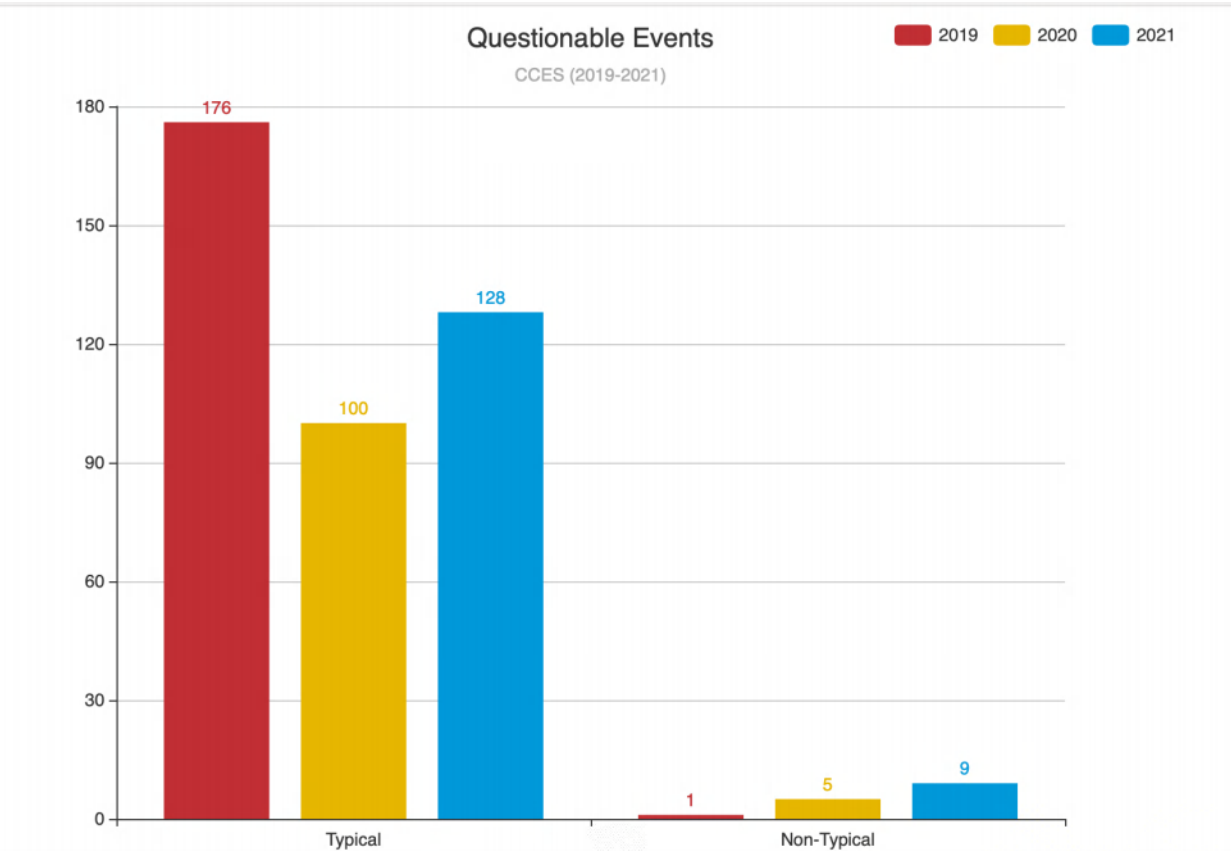
### Category Breakdown

CCES (2019-2021)



- 1.67% of events were categorized as “Other”
- 38.9% of events were categorized as “UFO”
- 59.43% of events were categorized Unmanned Aircraft

40.57% of events involve unidentified objects

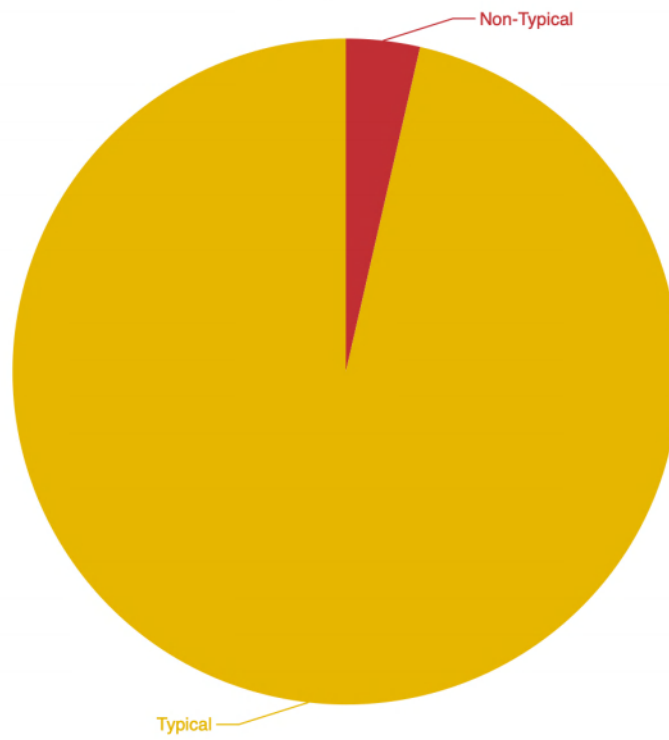


- 404 events had typical and believable characteristics in the report to be considered regular occurrences.
- 15 events did not



### Questionable Data

CCES (2019-2021)



- 96.42% events had typical and believable characteristics in the report to be considered regular occurrences.
- 3.58% events did not

# Event Recreation and Investigation

The following displays additional information I have obtained to assist in understanding the above events:

## Event 1:

### Occurrence Summary

Date Entered: 2021-03-25

Narrative: A Services Helicorp Inc. Robinson R44 (C-FZRA) from Montreal/St-Hubert Helicraft, QC (Heli) (CTG2) to Montreal/St-Hubert Helicraft, QC (Heli) (CTG2) reported a gray triangle-shaped drone flying 600ft west of the Hydro-Quebec Research Institute (IREQ). The Royal Canadian Mounted Police of Quebec (GDQ) unit was notified. No impact on operations.

“ A Services Helicorp Inc. Robinson R44 (C-FZRA) from Montreal/St-Hubert Helicraft, QC (Heli) (CTG2) to Montreal/ST-Hubert Helicraft, QC (Heli) (CTG2) reported a gray triangle-shaped drone flying 600ft west of the Hydro-Quebec Research Institute (IREQ). The Royal Canadian Mounted Police of Quebec (GDQ) unit was notified. No impact on operations.”

Additional data from CADORS:

- Occurrence number is 2021Q0666
- Occurrence date is 03-20-2021
- CADOR Entry was made five days after the event
- Event time is 1811 Zulu (Day)
- Services Helicorp Inc. Robinson R44 (C-FZRA) was in Varennes, Quebec, at the time of the event
- The occurrence category used is Drone
- Height was reported 100 feet above the legal Drone flying range.

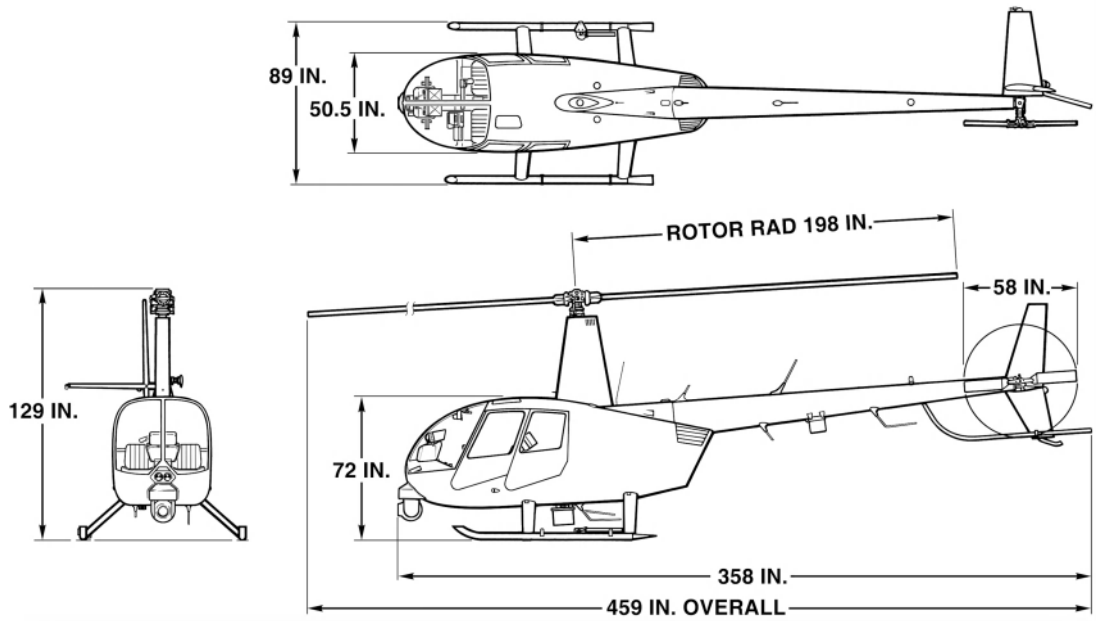
Reason of Interest:

- Triangular Shape

I had completed an Access to Information Request to the appropriate department. After a thorough investigation, I received a letter indicating they had no additional event information.

**Additional data discovered through investigation:**

- Varennes, Quebec timezone is EDT (UTC-4)
- The time of the event was 2:11 PM EDT
- C-FZRA is depicted as follows:



- The event location is depicted as follows



- The altitude of C-FZRA could not be determined at this time.