



# Experimental Statistics on Game-animal Accidents in Mainland Finland

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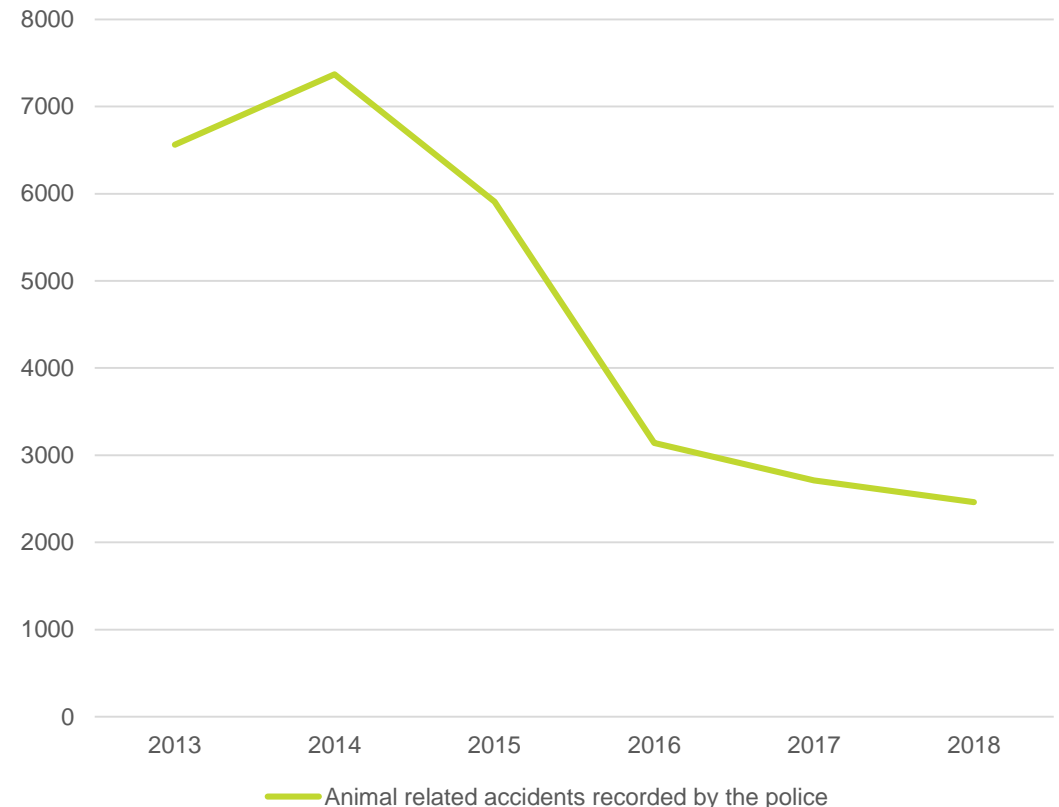
# Experimental statistics in Statistics Finland

- Describing new phenomenon or using new kind of data
- Calculation method and/or data content are still in development phase
- Experimental statistics is used for testing production possibilities and collecting feedback
- Experimental statistics published so far in Statistics Finland:
  - Global value chains and outsourcing
  - Quick estimates on economic growth
  - Game-animal accidents in mainland Finland
  - Rental cottage statistics



# Game-animal accidents in official statistics

- The Police in Finland reduced recording deer-related accidents in 2015 when there are no personal injuries
- The Finnish Transport Infrastructure Agency gave us the task to investigate other possible data sources
- The Finnish Wildlife Agency started their own data collection in 2017



# Raw data

▼ 2756:		
id:	32675	
rev:	2	
pointOfTime:	"2019-05-06T16:00:00.000+03:00"	Date and time of the accident
eventName:	"ACCIDENT"	
eventType:	"TRAFFIC_ACCIDENT"	Type of the accident: road or rail
gameSpeciesCode:	47629	Type of the species: 47629=White-tailed deer
▼ geoLocation:		
latitude:	6726362	
longitude:	225242	Coordinates
totalSpecimenAmount:	1	Amount of animals in the collision
▼ specimens:		
▼ 0:		
gender:	"MALE"	
age:	"YOUNG"	Gender and age of the animal

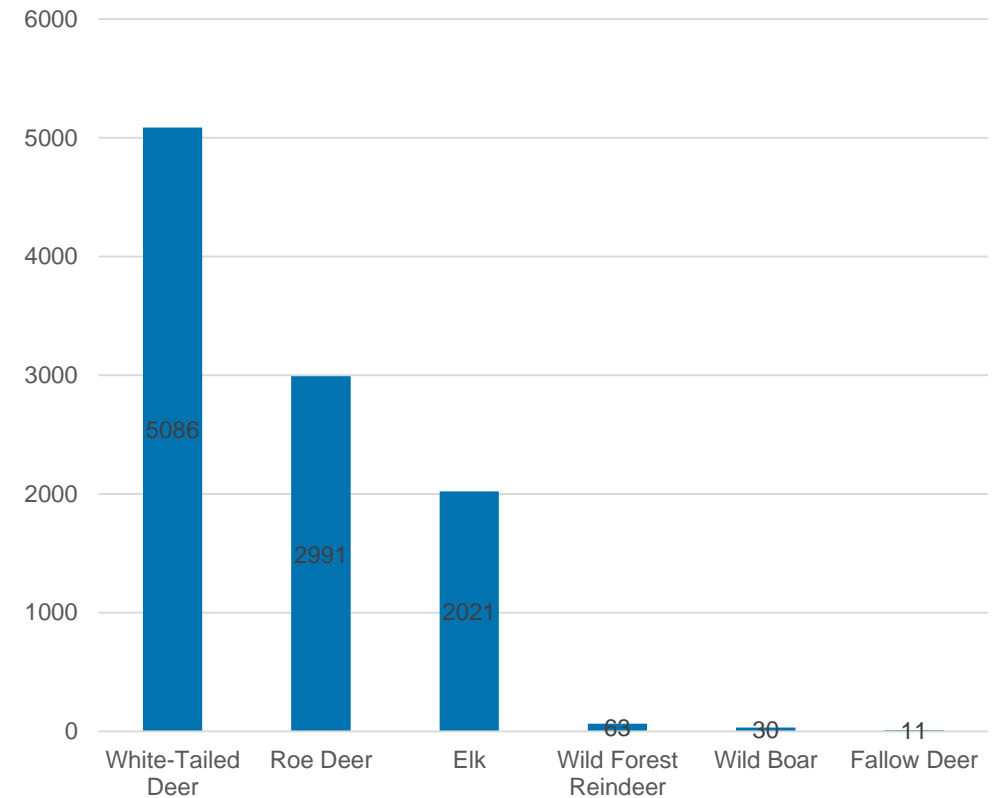
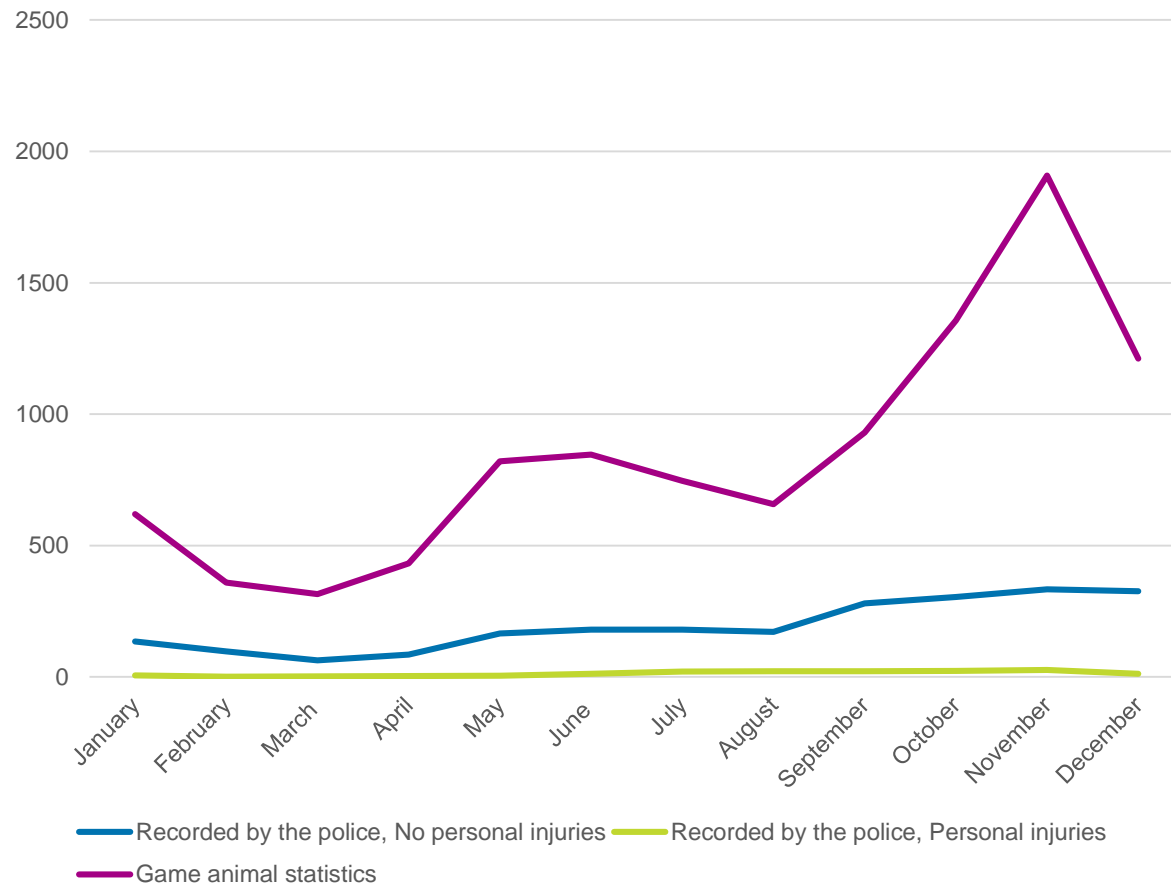
<https://oma.riista.fi/api/v1/anon/srva?calendarYear=2019>

# Data processing

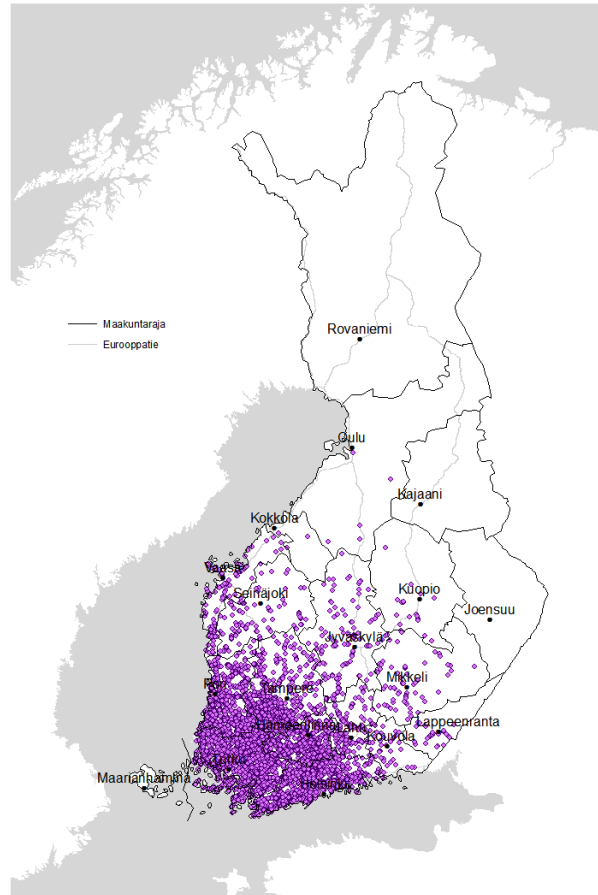
- Accident data is downloaded from the API in JSON-format
- Automated data processing
- Micro-service is used for getting the coordinates and the features of the closest road
- Data is enriched with the information from the road-data
- Coordinates from the road are used in open data



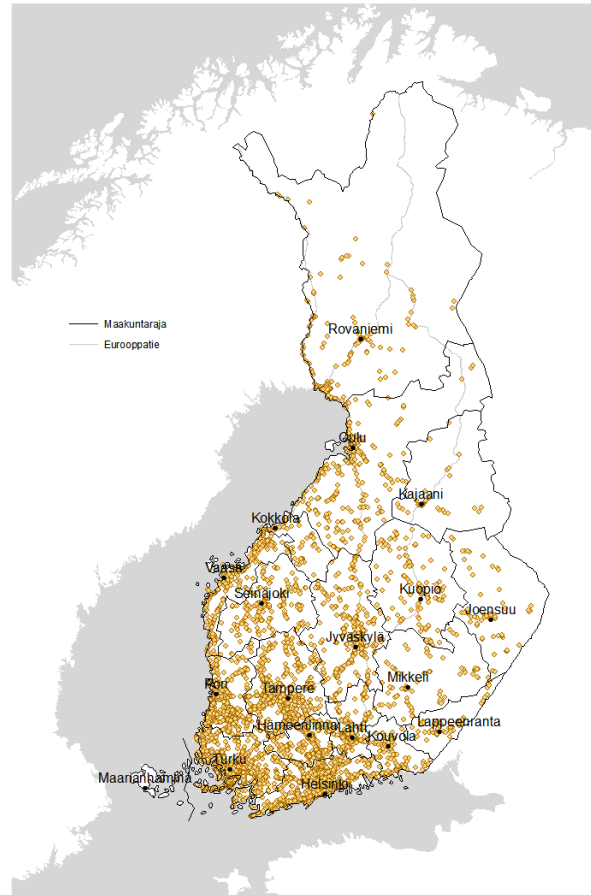
# The results



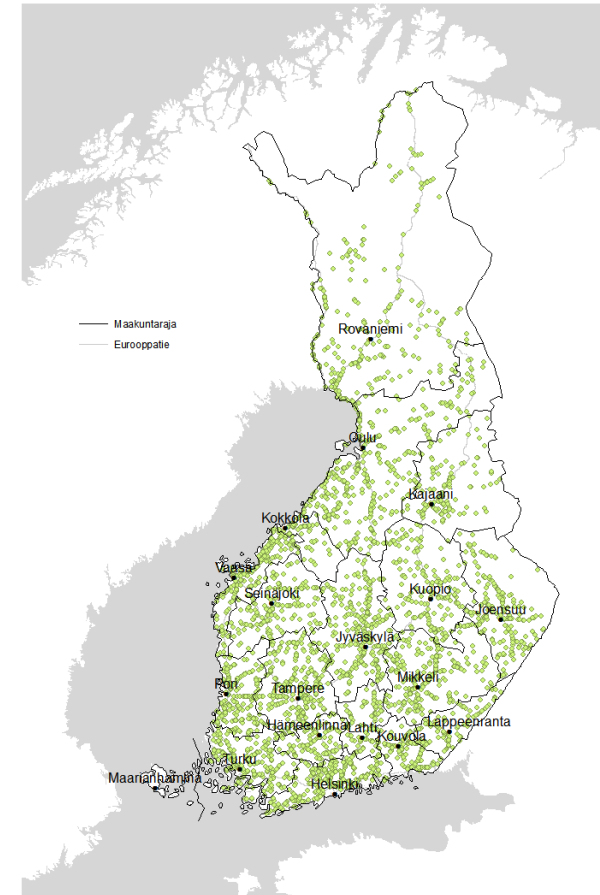
# The results on map



White-Tailed Deer



Roe Deer



Elk

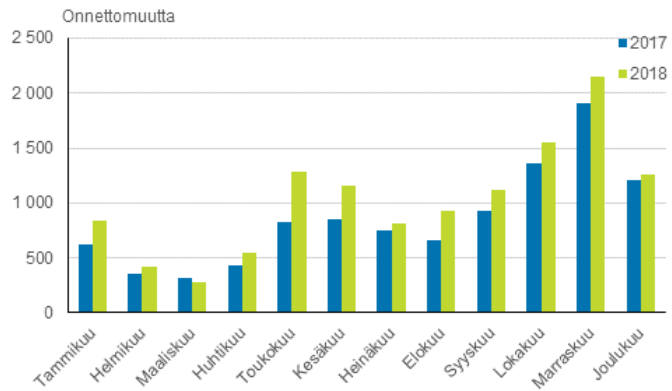
# Further reading



## Vuonna 2018 tapahtui tieliikenteessä yli 12 000 riistaonnettomuutta

Riistakeskuksen Suurriistavirka-apuaineiston mukaan Manner-Suomen tieliikenteessä sattui vuonna 2018 yli 12 000 riistaonnettomuutta. Vaarallisinta aikaa riistaonnettomuuksien osalta on marraskuu, jolloin sattui yli kuudesosa kaikista tapauksista. Näissä tieliikenteen onnettomuuksissa on ollut mukana valkohäntäpeuroja, metsäkauriita, hirviä, metsäpeuroja, villisikoja ja kuusipeuroja.

Kuvio 1. Riistaonnettomuudet kuukausittain vuosina 2017-2018



Vuonna 2018 marraskuussa kirjattiin kaikkiaan 2 151 riistaonnettomuutta. Se on yli kuudesosa koko vuonna kirjatuista onnettomuuksista. Kaikkiaan vuonna 2018 kirjattiin 12 350 tieliikenteen riistaonnettomuutta. Syksyn kuukausien lisäksi onnettomuuksia syntyi paljon touko-kesäkuussa. Molempina kuukausina sattui vuonna 2018 noin 1 200 onnettomuutta. Kaikkein vähiten onnettomuuksia kirjattiin helmi-maaliskuussa. Maaliskuussa 2018 tapahtui alle 300 riistaonnettomuutta tieliikenteessä.

Select variable
About table

Mark your selections and choose between table on screen and file format. Marking tips  
For variables marked \* you need to select at least one value

Information *	Municipality	Road class	Species of animal	Month *
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Total 1 Selected 0	Total 296 Selected 0	Total 10 Selected 0	Total 7 Selected 0	Total 24 Selected 0
Amount	MAINLAND FINLAND Akaa Alajärvi Alavieska Alavus Asikkala	Total Motorway Semimotorway Highway Main road Local road	Total Wild Boar Fallow Deer Roe Deer Moose White-Tailed Deer	2018M12 2018M11 2018M10 2018M09 2018M08 2018M07
Search <input type="text"/> <input type="button" value="▶"/>	Search <input type="text"/> <input type="button" value="▶"/>	Search <input type="text"/> <input type="button" value="▶"/>	Search <input type="text"/> <input type="button" value="▶"/>	Search <input type="text"/> <input type="button" value="▶"/>
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