www.srazenazver.cz – Animal-vehicle collision report application

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We present a system for state-wide evidence of animal-vehicle collisions (AVC). The main part of this system is a geographic database which is connected to a web-map application. AVC data come from the Police via an online system of traffic crashes and from volunteers (e.g., environmentalists, hunters) through a web or mobile interface. Data are processed using online scripts which identify errors and conduct geospatial analyses.

AVC hotspots are automatically computed every midnight along road sections, as well as crash densities. The hotspots are identified using KDE+ method (www.kdeplus.cz). Hunter area administrators have an overview of their areas.

More than 40,000 records are currently included in this database. 50 % of them were added over the last two years when it was launched. The majority of data (90 %) came from the state system of traffic crashes. The species is known for more than 40 % of JSDI records. The majority of the identified species were roe deer (75 %), followed by wild boar (15 %).

Roe deer crashes occur most frequently in May, wild boar crashes are most common in November. Approximately 1700 AVC hotspots, which cover 0.5 % of the Czech road network, were detected and visualized on a map (www.srazenazver.cz).