

# Animal Vehicle Strike

transport.nsw.gov.au

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## Acknowledgement of Country

Transport for NSW acknowledges the traditional custodians of the land on which we work and live.

We pay our respects to Elders past and present and celebrate the diversity of Aboriginal people and their ongoing cultures and connections to the lands and waters of NSW.

Many of the transport routes we use today – from rail lines, to roads, to water crossings – follow the traditional Songlines, trade routes and ceremonial paths in Country that our nation's First Peoples followed for tens of thousands of years.

Transport for NSW is committed to honouring Aboriginal peoples' cultural and spiritual connections to the lands, waters and seas and their rich contribution to society.

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# Document control

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## Versions

Version	Amendment notes
V1.0	Initial document

# 1. Definitions

Term	Definition
csv	(Comma-Separated Values): A plain text file format used to store tabular data, where each line represents a row and columns are separated by commas.
geoJSON	A JSON-based format used to encode geographic data structures such as points, lines, and polygons.
GIS	(Geographic Information System): A system used to collect, manage, analyse, and visualise spatial or geographic data, often used for mapping and decision-making.
JSON	(JavaScript Object Notation): A lightweight data format used for storing and exchanging structured data, commonly used in web applications.
kml	(Keyhole Markup Language): An XML-based file format used to display geographic data in mapping software like Google Earth.
shapefile	A widely used geospatial vector data format for geographic information system (GIS) software, typically containing points, lines, or polygons and associated attributes.

# 2. Animal Vehicle Strike spatial data

## Metadata collected for datasets in SEED (as per ANZLIC Metadata Standards)

<b>Title</b>	Animal Vehicle Strike spatial data
<b>Language</b>	English
<b>Contact</b>	This dataset is a subset of the <a href="#">NSW BioNet</a> who can be contacted at <a href="mailto:bionet@environment.nsw.gov.au">bionet@environment.nsw.gov.au</a>
<b>Description</b>	<p>Data from the BioNet the oData repository, which holds records from a number of custodians. The data are only indicative and cannot be considered a comprehensive inventory, and may contain errors and omissions.</p> <p>Species classified as sensitive have been removed as well as fields that contain names or personally identifying information. Location accuracy varies by record.</p> <p>Copyright the State of NSW through the Department of Planning, Industry and Environment. The records included in this release are CC-BY4.0.</p> <p>The data query was constructed using the following criteria to represent animals considered significant to biodiversity or human safety:</p> <ul style="list-style-type: none"><li>• BioNet Records in NSW only</li><li>• Only records with the statuses of 'Valid and accepted without modification' or</li></ul>

'Accepted as valid from quarantine'

- Observations of roadkill defined as 'Road Injured', 'Road kill' or where occurrenceRemarks contains the phrase 'Encounter broad: Collision; Encounter narrow: Collision - Motor Vehicle'

Species records were included using the following criteria:

- Marsupials filtered by family (Vombatidae or Macropodidae only).
- Ungulates filtered by order (Artiodactyla).
- Koala (*Phascolarctos cinereus*) explicitly listed since it's the only member of family Phascolarctidae.
- Emu (*Dromaius novaehollandiae*) explicitly listed.
- Dogs and Dingoes included by filtering for family (Canidae).
- Additional threatened species with conservation concern (not 'Not Listed' at federal or NSW level) are included.

The BioNet database contains records with different levels of locational accuracy. This has necessitated additional filtering to support the use of the data for decision-making.

The filtering process involved removing:

- a) Records that were accurate to the suburb only level
- b) Records where the co-ordinates given were inconsistent with the location information in the record field
- c) Records that were otherwise identical but had different dates
- d) All records without a CC-BY 4.0 licence. Any threatened species under NSW or federal law (species defined as 'sensitive' are excluded for this public release as they cannot be distributed without written consent of DCCEW).

This filtering for b) and c) was achieved by removing records whose co-ordinates were within 1m of each other. The filtering process removed 73% (67% from b) and c), 6% from d) ) of all Bionet wildlife vehicle strike records identified by the data query leaving 18,367 state-wide.

<b>Purpose</b>	Transport for NSW is currently undertaking trials of emerging technologies to reduce wildlife vehicle strike in NSW. The data layer is being used to identify field trial locations along with advice from wildlife carer groups, the NSW National Parks and Wildlife Service and other organisations.  Transport for NSW also expects to make use of this data to inform future road development planning, maintenance activities and other technological approaches to reducing wildlife vehicle strike.
<b>Frequency of change</b>	Continual
<b>Keywords</b>	ECOLOGY-Community,ECOLOGY-Ecosystem,FAUNA,FAUNA-Exotic,FAUNA-Native,FAUNA-Vertebrates,FLORA,FLORA-Exotic,FLORA-Native,VEGETATION-Floristic
<b>Metadata date</b>	30/05/2025

<b>Date of asset creation</b>	30/05/2025
<b>Date of asset revision</b>	30/05/2026
<b>License</b>	<a href="#">Creative Commons Attribution 4.0</a>
<b>Temporal coverage from</b>	1770-05-28
<b>Datum</b>	GDA94 Geographic (Lat\Long)
<b>Lineage</b>	A record detailing the data's origin, including source data description, scale, media type, and processing steps. Provides transparency on data history, methodology, and transformation.