

## 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

<b>Authors</b>	Open Data & Innovation Safer Roads
<b>Document owner</b>	Safer Roads; Safety, Policy, Environment & Regulation
<b>Approved by</b>	Director Safe Systems and Programs
<b>Branch</b>	Transport Safety
<b>Division</b>	Safety, Policy, Environment & Regulation
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## Versions

Version	Amendment notes
V1.0	First iteration of metadata documentation

# 1. Definitions

Term	Definition
AusRAP	Australian Road Assessment Program
iRAP	International Road Assessment Program
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. AusRAP spatial data

AusRAP is the Australian Road Assessment Program. It is used to identify, manage and improve the safety of road infrastructure and roadside features to systematically and proactively reduce road trauma. AusRAP rates the risks and safety performance of Australia's roads and is based on the globally recognised International Road Assessment Program (iRAP).

AusRAP aims to improve road safety across Australia by assessing road conditions that influence crash risk and assigning safety star ratings. Roads are rated from 1-star (least safety features) to 5-star (most safety features) based on a broad range of road information, including current infrastructure (for example barriers, rumble strips), speed limit, traffic volume, road markings, roadside hazards, pedestrian crossings and cycling infrastructure to name a few.

AusRAP star ratings identify where the risk of fatal or serious injury is greatest. Prioritising the highest risk roads for treatment will maximise the return on investment, with each additional star rating improvement representing a halving of the risk. In addition to reducing impacts of road trauma on individual families, safer roads will reduce the burden of serious crashes placed on the health and transport sectors.

### 3. Data Structure

This dataset includes spatial datasets of AusRAP data in the following formats: -

- csv
- geoJSON
- JSON
- kml
- shapefile

In addition to, an interactive map showing state and regional roads that have been given a star rating that identify the risk of fatal or serious injury. Data will be updated annually.

<https://maps.transport.nsw.gov.au/egeomaps/ausrap-map/index.html>

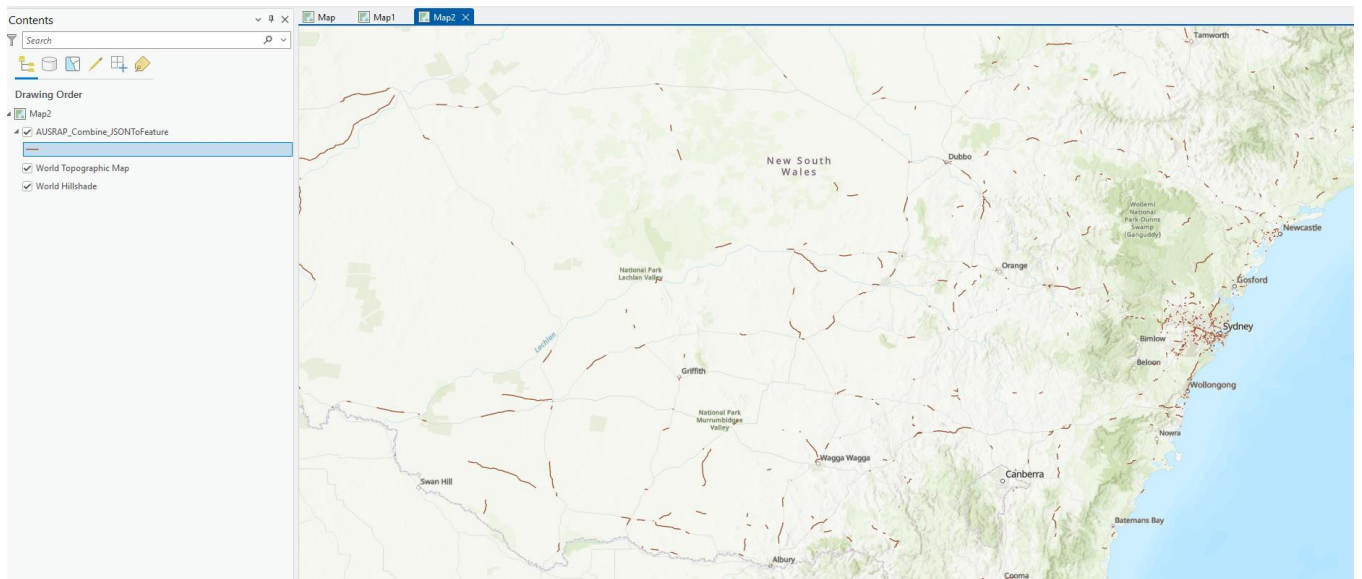
#### 3.1 AusRAP Spatial Data Attributes

Field Name	Data Type	Field Description
Road Name	String	Name of road plus numerical identifier
Section ID	Numerical	
Vehicle Occupant Star Rating (smoothed)	Numerical	Given risk rating after road assessment
Road Type	String	Type of road. Entries are either <ul style="list-style-type: none"><li>• Regional</li><li>• State</li></ul>
Survey Date	Date	Date which road was assessed
OBJECTID	Numerical	Geospatial object identifier
SHAPE_Length	String	Geospatial length of line object

#### 3.2 Sample CSV Feed

A	B	C	D	E	F	G	H	I	J	K	L
1	OBJECTID	road_name	ausrap_section_id	veh_str_rating	survey_date	SHAPE_Length	geometry				
2	1	0000220 - Wine Country Dr	00220-P-00A_00002200	48	3	9/01/2015	4199.9996668	LINestring (9725085.040299997 4517770.5438,9725049.9527999			
3	2	0000008 - Barrier Highway			3	9/12/2021	2300.00006014	LINestring (9190563.279600002 4693351.415100001,9190556.0			
4	3	0000177 - Appin Rd, Moore-Oxley Byp, Campbelltown Rd	Denham Ct Rd to Hum		3	14/01/2014	794.181919170	LINestring (9654848.125299998 4412096.920299999,9654852.3			
5	4	0000349 - Brisbane Water Dr	00349-P-00A_00003490		3	6/01/2015	699.999941477	LINestring (9706526.152400002 4463249.827,9706479.23650000			
6	5	0007190 - Broughton Street, Georges River Rd, Junction Rd, Leumeah Rd, Smiths Creek Bypass		53	3	22/09/2021	163.962439873	LINestring (9654119.589100003 4401723.926000001,9654077.1			
7	6	0000170 - Harris St-Botany Rd		6	2	11/03/2016	99.999886141	LINestring (9689092.757799998 4413259.2301,9689092.5085000			
8	7						1400.00003071	LINestring (9614598.233999997 4442168.3048,9614650.3906000			
9	8	0000208 - Bylong Valley Way, Sandy Hollow-Mudgee		113	2	8/02/2022	1800.00005854	LINestring (9589283.232199997 4595274.568,9589273.743 4595			
10	9	0000020 - Riverina Hwy		26	3	23/01/2016	299.999986100	LINestring (9191550.5497 4232618.726500001,9191474.9223999			
11	10	0000005 - Great Western Hwy - East of lapstone		133	3	10/10/2015	299.999902386	LINestring (9675710.946500003 4425486.304,9675661.73170000			
12	11	0000014 - Sturt Hwy		11	3	28/10/2020	5999.99997214	LINestring (8880204.629600003 4363781.845899999,8880175.9			
13	12	0000001 - Princes Hwy		76	4	20/03/2015	1000.00001186	LINestring (9659359.6739 4370887.451300001,9659371.1405000			
14	13	0000012 - Gwydir Hwy		2	4	25/02/2014	300.000068395	LINestring (9698109.897600003 4877064.714,9698082.8039999			
15	14	0000328 - Boundary St, Babbage St, Warringah Rd		8	3	30/11/2016	1699.99988083	LINestring (9689237.526500002 4435303.0679,9689200.7971 44			
16	15	0002114 - Pennant Hills Rd		35	3	27/09/2021	143.177505908	LINestring (9671110.1325 4432307.2193,9671140.888099998 44			
17	16						21.1452604124	LINestring (9630746.299400002 4444721.9673,9630737.2124999			
18	17	0000620 - Camden Valley Way, Camden Byp, Remembrance Dr		11	3	4/11/2016	400.000025615	LINestring (9654424.847499996 4415841.749500001,9654419.5			
19	18	Andy Poole Dr		29	2	22/04/2020	179.071673592	LINestring (9566760.361000001 4110314.1064,9566767.6254 41			
20	19	0000662 - Captain Cook Dr		1	3	23/02/2016	1300.00003707	LINestring (9681074.974799998 4405358.6642,9681058.0640999			
21	20	0000184 - Church St, Windsor Rd, Kurrajong Rd, Bells Line of rd, Darling Cswy		61	2	30/11/2015	100.000009258	LINestring (9655380.129100002 4425957.2808,9655376.2017000			
22	21	0000014 - Sturt Hwy		11	3	29/10/2020	29999.9999630	LINestring (9068509.113499999 4346185.1281,9068409.8141999			
23	22	0000233 - Renshaw Mcgirr Way, Russell St		10	3	17/12/2021	5999.99992936	LINestring (9464225.1285 4564351.218800001,9464164.9228999			
24	23	0000010 - Pacific Highway		42	4	13/11/2021	5999.99985205	LINestring (9942072.179499999 5033854.8671,9942070.6048 50			
25	24	0000129 - Quirindi-Premier Rd, Quirindi-Coonabarabr		1	3	6/05/2022	5999.99993511	LINestring (9613732.540399998 4700939.4289,9613634.3673999			
26	25	0000005 - Great Western Hwy - East of lapstone		33	2	10/10/2015	300.000084292	LINestring (9671275.212 4428352.408399999,9671223.0244999			
27	26	0000182 - Wilberforce Rd		1	1	11/12/2015	419.610990997	LINestring (9654517.213 4454131.5228,9654480.8279 4454194.1			
28	27	0000128 - Glendonbrook Rd		45	3	21/04/2022	1100.00012073	LINestring (9690563.042900003 4567713.111099999,9690556.1			
29	28	0000537 - Blacktown Rd-Rooty Hill Rd		13	2	13/01/2016	800.000057587	LINestring (9648374.043700002 4454415.532500001,9648363.8			

### 3.3 Sample JSON Feed



### 3.4 AusRAP Interactive Map

