

AusRAP

Assessing the Safety of Rural Roads

Rita Excell
RAA Manager Traffic and Safety

RAA and Road Safety

- Represents over 560 000 members
- Undertakes Audits of 5000km road network
- Involved in National Programs
 - Safer Roads,
 - Safer Drivers,
 - Safer Cars

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RAA and Road Safety


- Backwater to Benchmark
- Make Roads Safe
- ANCAP



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Safety Who Can Afford It

- Crashes are unpredictable events
 - Use trends over period to try and predict
- Limited funds leads to prioritisation
 - Reactive
 - Black spot
 - Proactive
 - Mass Action

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AusRAP

- Australian Road Assessment Program
- Commenced in 2003
- Based on European Program
- EuroRAP, AusRAP, iRAP, usRAP, KiwiRAP,

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Philosophy

- Communication tool for Public
- Based on the Safe System
 - Not permitted into the system
 - Drunk
 - Unlicensed
 - Speeding
 - Fatigued
 - Cant design a Safe System for these drivers
 - Nor should you.

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Two Protocols

- Risk Maps
 - Collective risk
 - crashes per km
 - Compare risk of roads with similar traffic volumes
 - Individual Risk
 - Crashes per 100m veh-km travelled
 - Can compare all roads
- Star Ratings
 - Analogous to ANCAP
 - Safety features of a vehicle of safety features of a road.
 - ESC of roadside barriers

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Star Ratings

- Most common crash type
 - Head On
 - Run Off Road
 - Intersection

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Star Ratings

- Five Star *****
 - No undivided road can be 5 star
 - Safe roadsides, wide lanes, sealed shoulders
- Four Star ****
 - May be undivided
 - Straight with good overtaking, linemarking and safe roadsides
 - Divided road with deficient roadsides, lane width etc

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Star Ratings

- Three Stars ***
 - Major Deficiencies in some features
 - Poor median control
 - Intersections at regular intervals
 - Sight distance
- Two Stars **
 - Many Deficiencies
 - Poor roadsides
 - Many intersections

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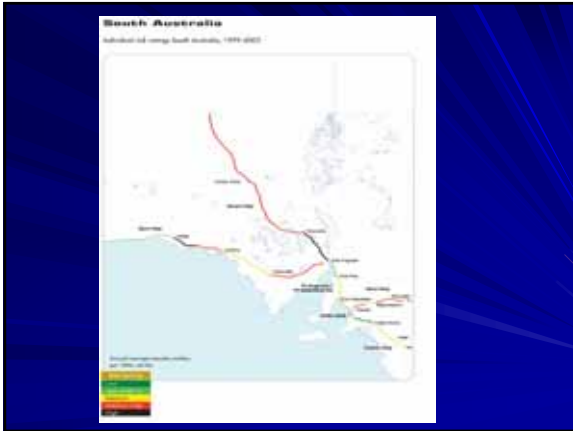
Star Ratings - 2006



Risk Rating- Crash Risk


Risk Rating	Percentage	Collective risk (average annual casualty crashes/km)	Individual risk (average annual casualty crashes/100m veh-km)	Colour
Low	Best 20% of links	< 0.03	< 6.86	Dark green
Low-medium		0.03 - 0.10	6.86 - 9.56	Light green
Medium	Middle 20% of links	0.10 - 0.17	9.56 - 12.34	Yellow
Medium-high		0.17 - 0.29	12.34 - 16.44	Red
High	Worst 20% of links	> 0.29	> 16.44	Black

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Riddoch Highway

FROM TO	LENGTH km	TRAFFIC Vehicles per day	CASUALTY CRASHES	DEATHS	COLLECTIVE RISK Annual average casualty crashes per km	COLLECTIVE RISK RATING	INDIVIDUAL RISK Annual average casualty crashes per 1000 veh- km	INDIVIDUAL RISK RATING
Dukes Hwy (Kath) - Willalooka	35	2000	7	1	0.04	Low/medium	5.48	Low
Willalooka - Pulteney	29	2100	14	0	0.10	Low/medium	15.19	Low
Pulteney - Naracoorte Rd (to Borden)	21	1800	7	0	0.07	Low/medium	10.15	Medium
Naracoorte Rd (to Borden) - Naracoorte	25	1800	15	2	0.12	Medium	17.56	High
Naracoorte - Wrattonbully Rd	34	1800	10	0	0.08	Low/medium	8.48	Low/High
Wrattonbully Rd - Pendra	17	5000	22	5	0.28	Medium/High	13.38	High
Pendra - Tappan	29	6000	15	1	0.10	Medium	4.50	Low
Tappan - Mount Gambier	21	10000	18	2	0.17	Medium/High	4.42	Low

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RAA and AusRAP

National Program
AusLink Network
State Program
Strategic Arterial Network
includes Riddoch, Princes in SA
RACV auditing all major highways

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- ## RAA Advocacy
- AusRAP rating
 - Condition Rating
 - Transport Safety and Efficiency
 - Introduction of B-Triples
 - Overtaking Lanes
 - Duplication
 - Road Condition
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- Collection Sample
 - Roadsides
 - Lane widths
 - Intersections
 - Sight distance
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Riddoch Highway

- Improvements required
 - Address increasing freight task
 - Mix of Traffic
 - Federal Government
 - Link to AusLink network
 - Ports, Rail and Road



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iRAP



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RAPs Internationally

- iRAP
- Pilot projects in
 - Partners EuroRAP, AusRAP and usRAP
 - TRL and ARRB major partners
 - Exporting AusRAP program to Malaysia
 - Trial in Malaysia
 - [Results expected September 07](#)

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