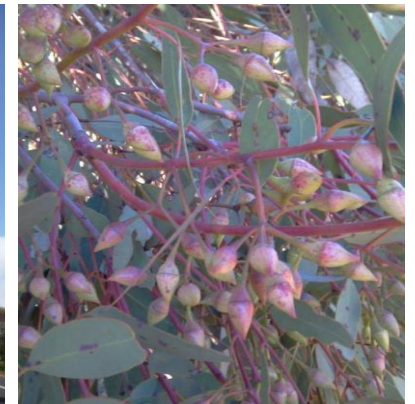
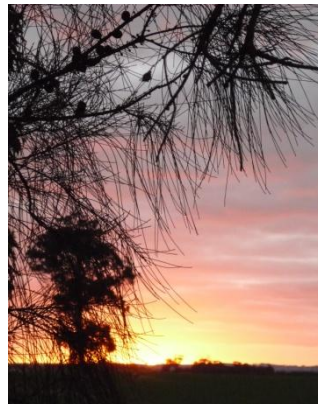


Roadside Vegetation Survey in Woodanilling



Roadside Conservation Committee



The RCC is comprised of members representing relevant agencies and the community:

- Local Government Authorities (2 elected members)
- WALGA
- Main Roads
- Department of Environment and Conservation
- Department of Agriculture and Food
- Department of Fire and Emergency Services (DFES)
- Brookfield Rail (formerly Westnet Rail)
- Western Power
- ATCO Gas Australia (formerly WA Gas Networks)
- Wildflower Society of Western Australia
- Conservation Council of Western Australia
- Telstra (not currently represented)

Roadside Conservation Committee



Roadside Vegetation Survey Woodanilling 2011 and 2012



Roadside Conservation Committee

Roadside Surveys

- Determining conservation status
- Snap-shot study
- Aim: to assess the conservation values of roadside remnants in Woodanilling
- ✓ Surveys conducted from Sept 2011 to July 2012
- ✓ 95% (503km) of the Shire of Woodanilling's 528km of rural roads were mapped.
- ✓ Assessed by the RCC and maps produced via a Geographic Information System (GIS).



Roadside Surveys

The roadside surveyors were:

- Danielle Perrie
- Glen Patterson
- Bev Lockley
- Carla Tassone
- Marion Taylor
- Mike Jones
- Sue Webse
- Kylie Payne
- Edna McLaughlin
- Jana Sturis
- Abby Thomas

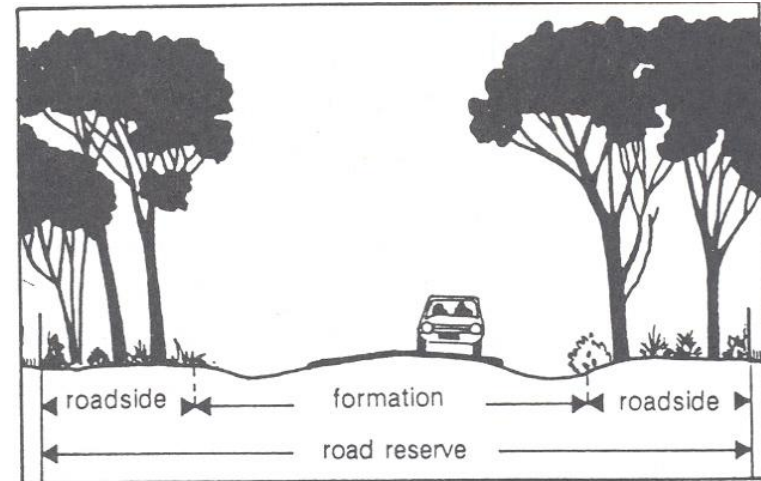


Danielle Perrie, Shire NRM Officer
co-ordinated the project locally



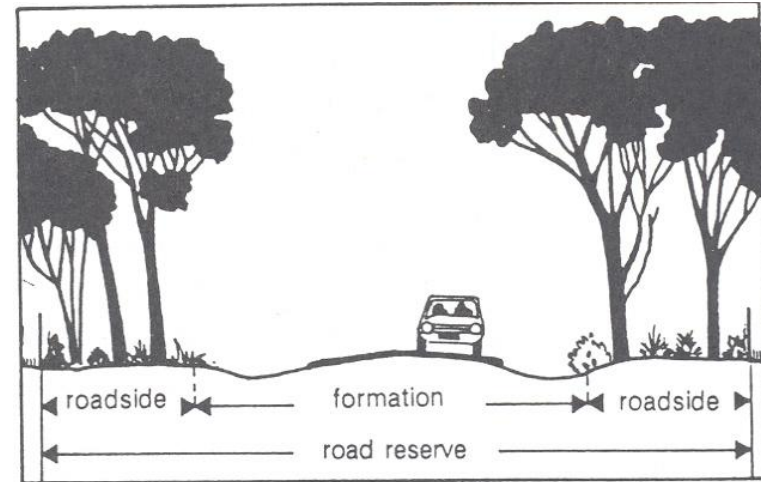
Roadside Attributes

- width of road reserve
- vegetation type
- tree decline
- environmentally sensitive areas
- revegetation
- clearing
- rabbits
- utilities
- presence and % of 6 chosen weeds
- presence and % of additional weeds
- adjoining land use and
- general comments



Roadside Attributes

- Width of vegetation
- Structure of native vegetation
- Extent of native vegetation
- Number native plant species
- Degree of weed infestation
- Habitat value



Roadside Conservation Value

Attributes are generally scored from 0 to 2.

Added together = conservation value score: 0 – 12.

The conservation values, grouped into conservation status categories, are represented by:

Conservation Status	Score	Colour
High	9-12	Dark Green
Med-high	7-8	Light green
Med-low	5-6	Orange
Low	0-4	Yellow



LEGEND

Roadside Conservation Value

- Low (0-4)
- Medium low (5-6)
- Medium high (7-8)
- High (9-12)

Road Reserve Width

- No reserve information
- 20m
- 40m
- 60m+

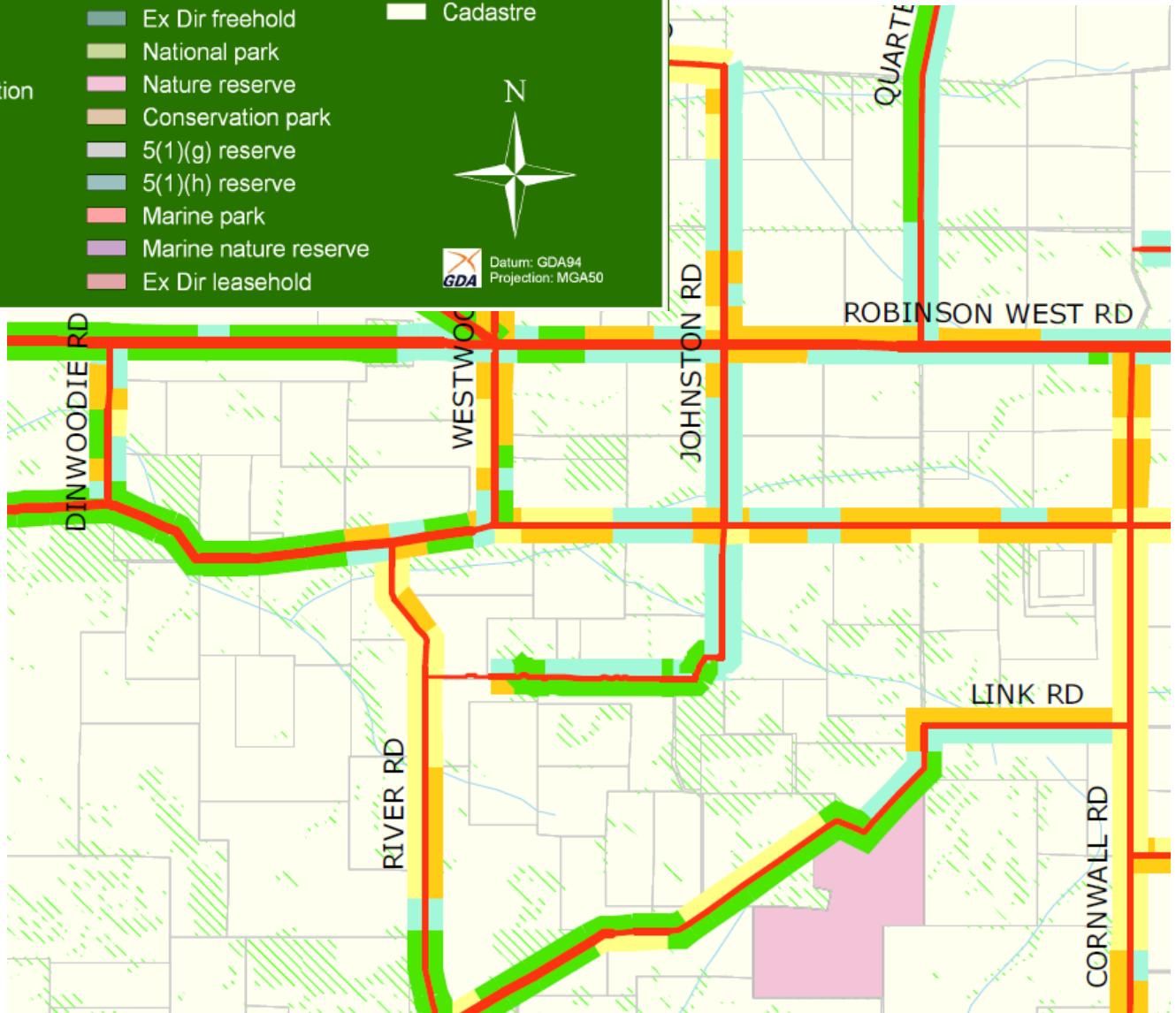
DEC Estate

- State forest
- Timber reserve
- Misc reserve
- Ex Dir freehold
- National park
- Nature reserve
- Conservation park
- 5(1)(g) reserve
- 5(1)(h) reserve
- Marine park
- Marine nature reserve
- Ex Dir leasehold

- Waterbodies
- Watercourses
- Remnant vegetation
- Cadastre

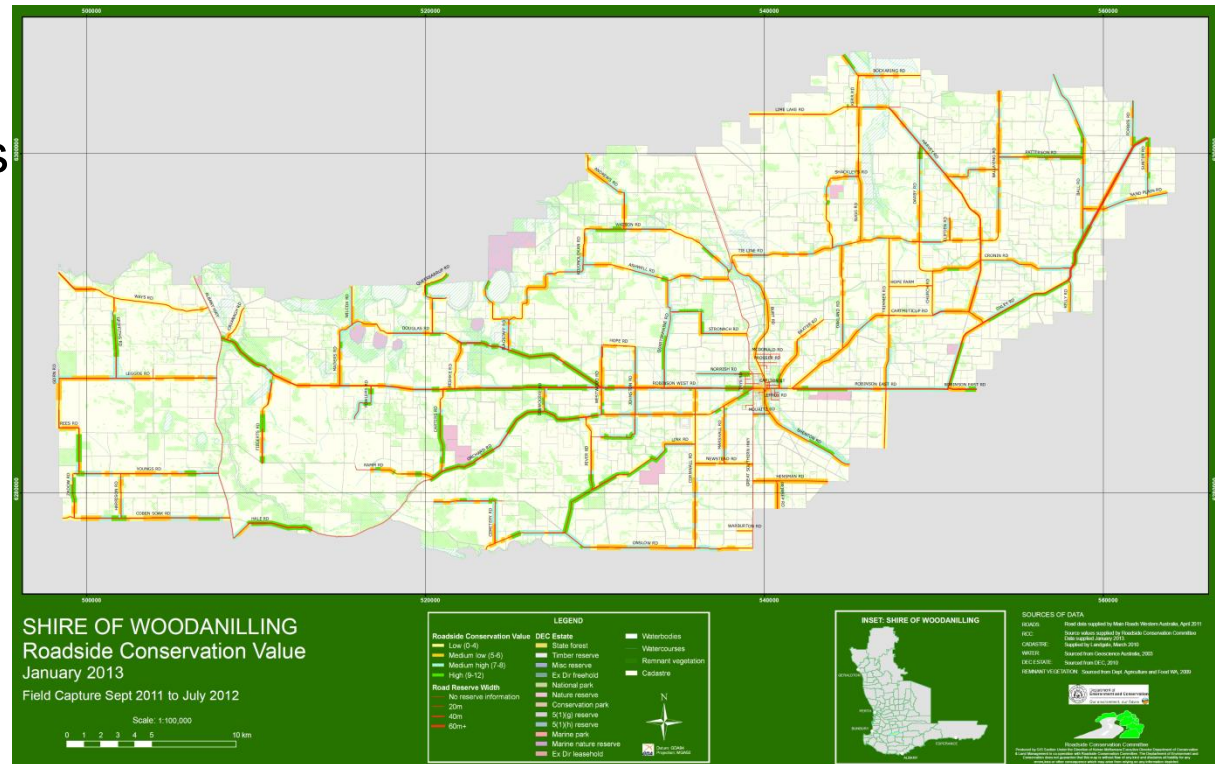


Datum: GDA94
Projection: MGA50



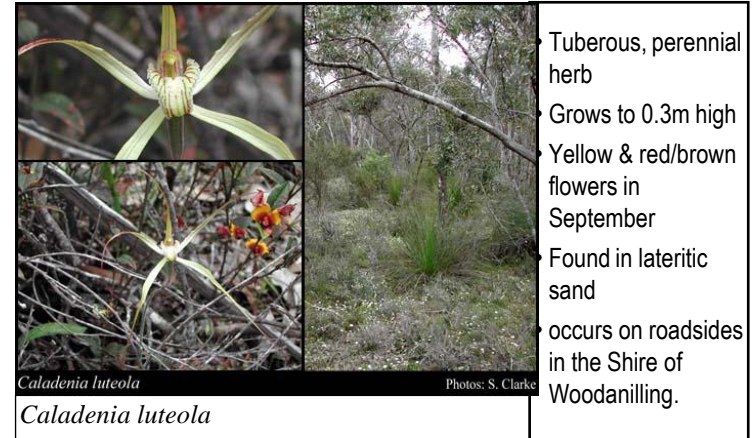
Using the RCV Map

- ✓ Map plus
 - ✓ 6 weed overlays
 - ✓ Available in 3 formats
 - Hardcopy
 - Digitally
 - Shapefiles
- ✓ Make it easily accessible
- ✓ Display it
 - Shire works depot
 - Staff areas
 - Public places e.g. Library



The Natural Environment...

- 19% native vegetation cover
- 4 Threatened & 3 Priority flora species occur on roadside locations throughout the Shire.
- 14 Threatened & Priority fauna species occur in the Shire.



Woylie or Brush-tailed Bettong

Fauna Photos: © Babs & Bert Wells/DEC



Brush-tailed phascogale



Verticordia fimbrilepsis subsp. *fimbrilepsis* Photos: E.A. George, N.J. Stevens & R. Smith

Verticordia fimbrilepsis subsp. *fimbrilepsis*

- Shrub, 0.3-0.7m high.
- Pink/white flowers October to January.
- Grows on gravelly, sandy or clayey soils on flats and road verges.



RESULTS

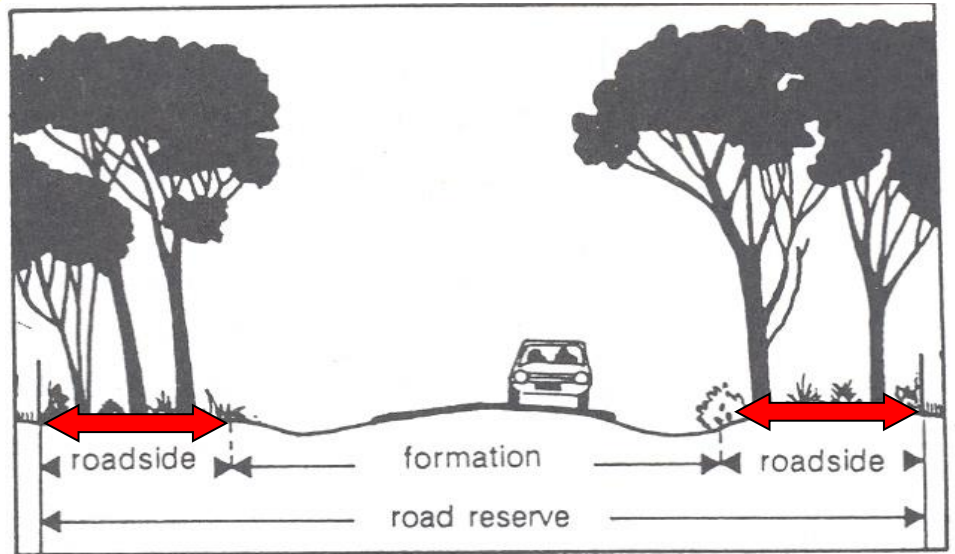
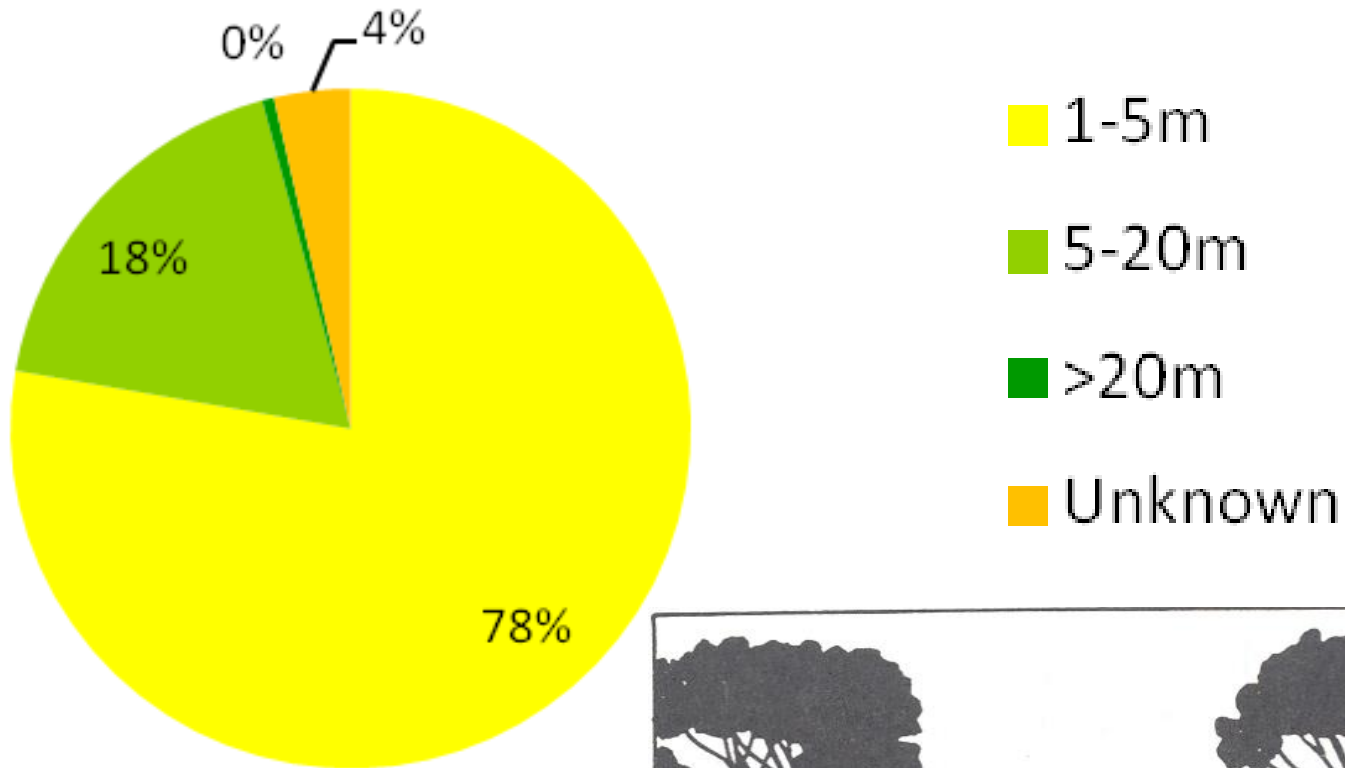


Ok

So what did we find?



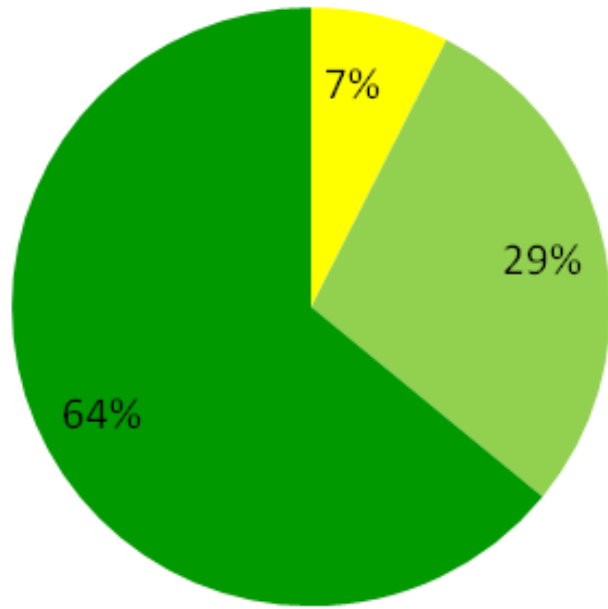
Width of Vegetated Roadside



Width of Vegetated Roadsides



General Weed Presence



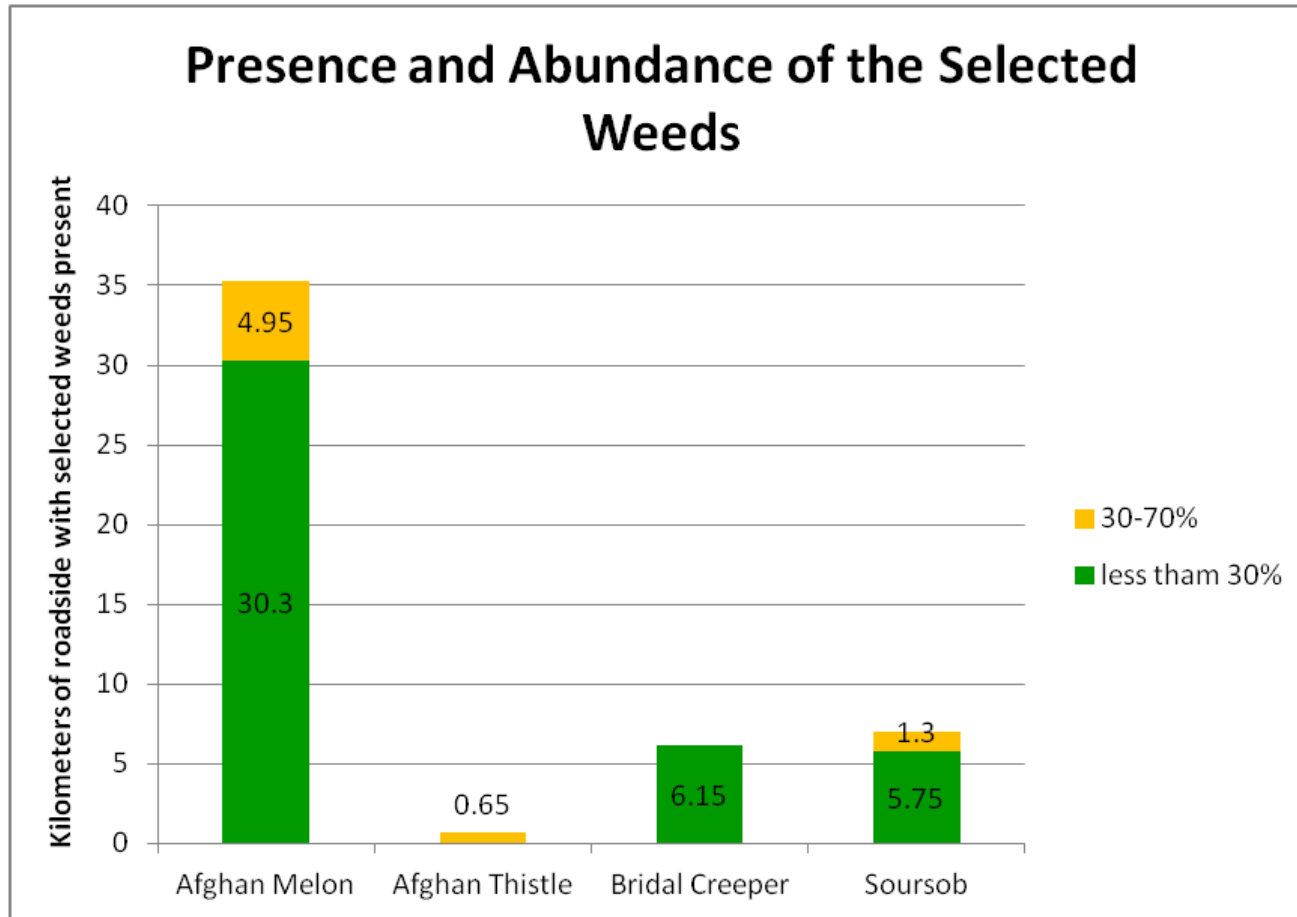
■ Heavy >70%

■ medium 30-70%

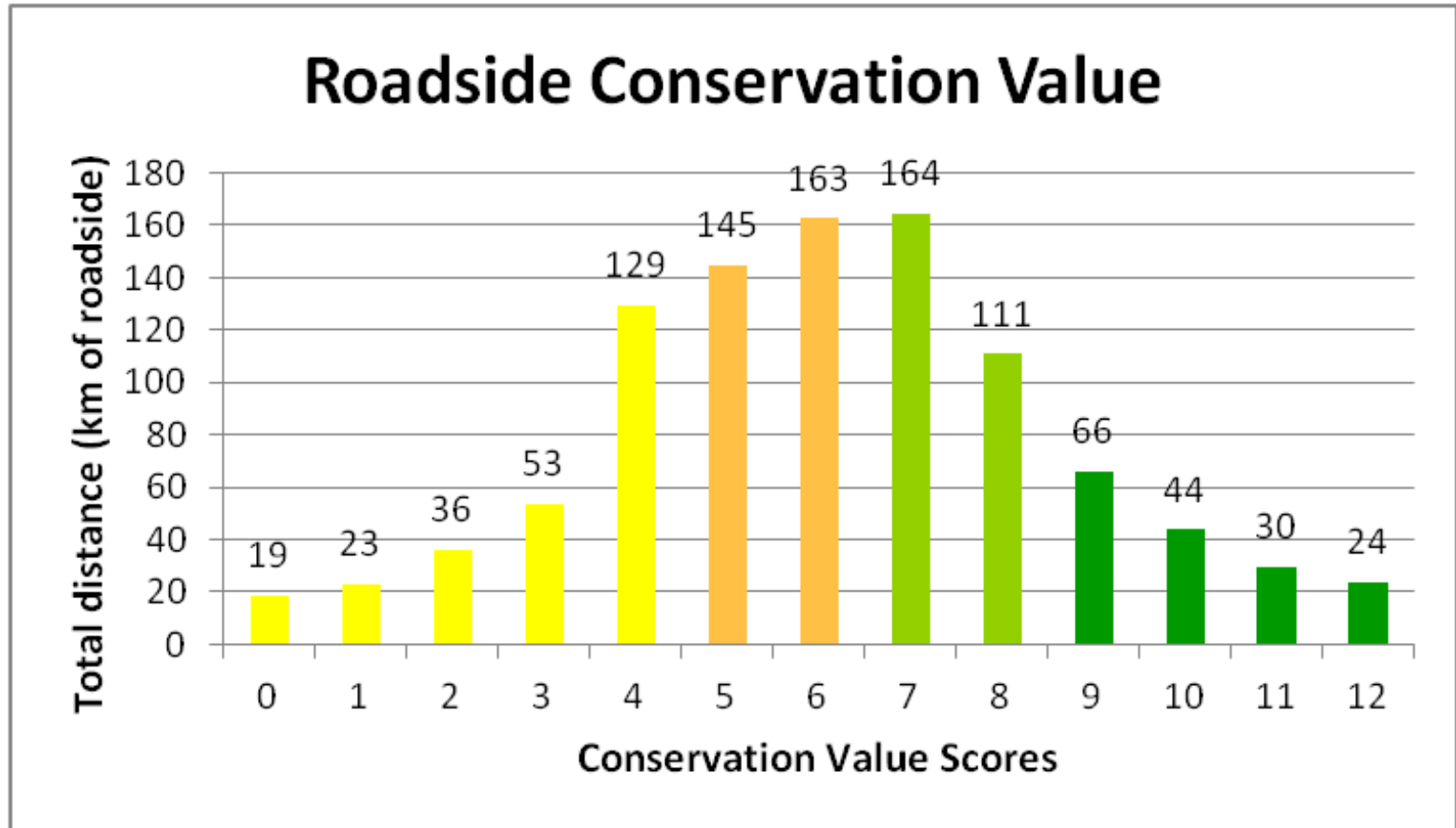
■ light <30%



Nominated Weeds in Roadsides



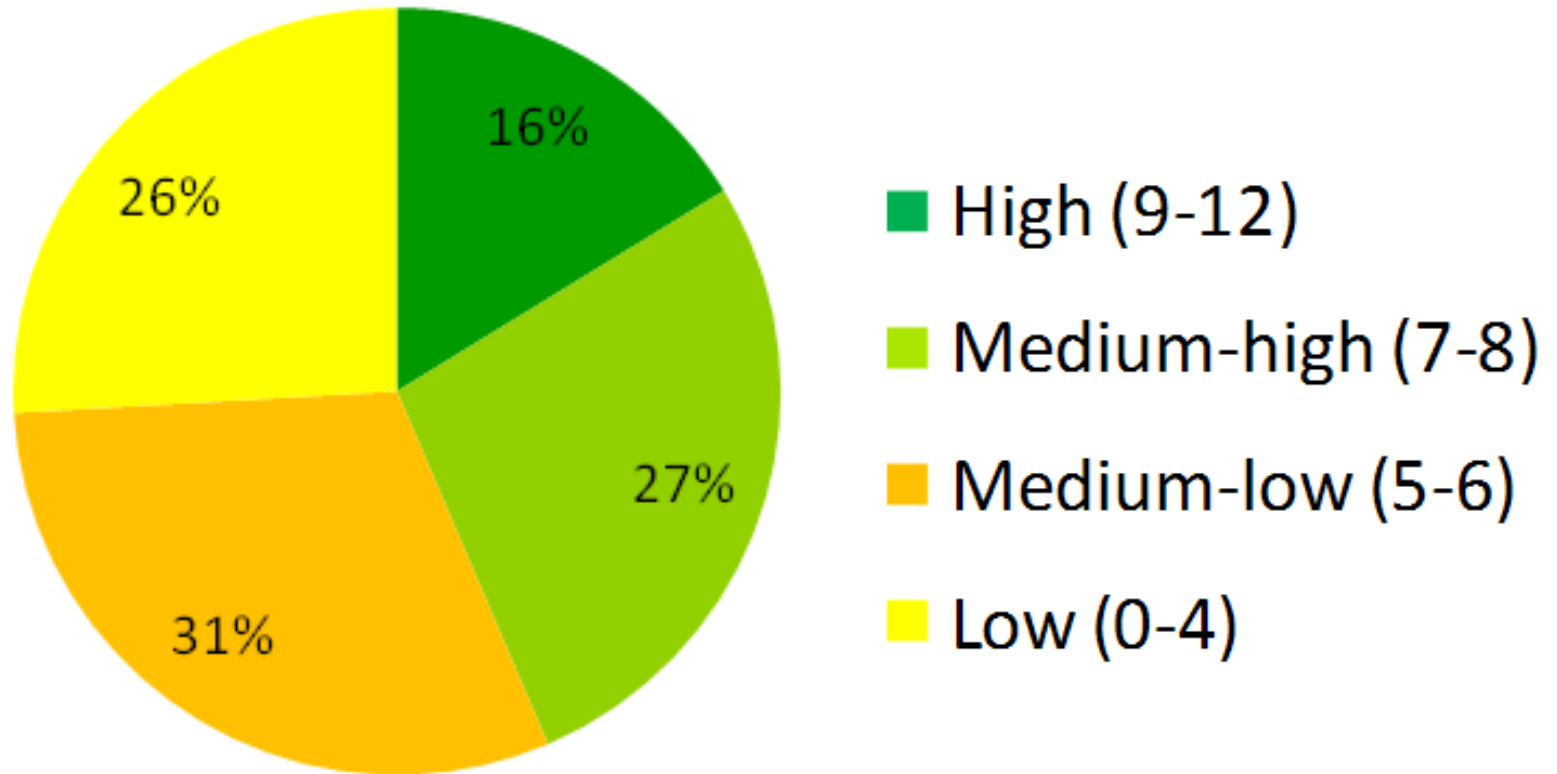
Conservation Value Scores



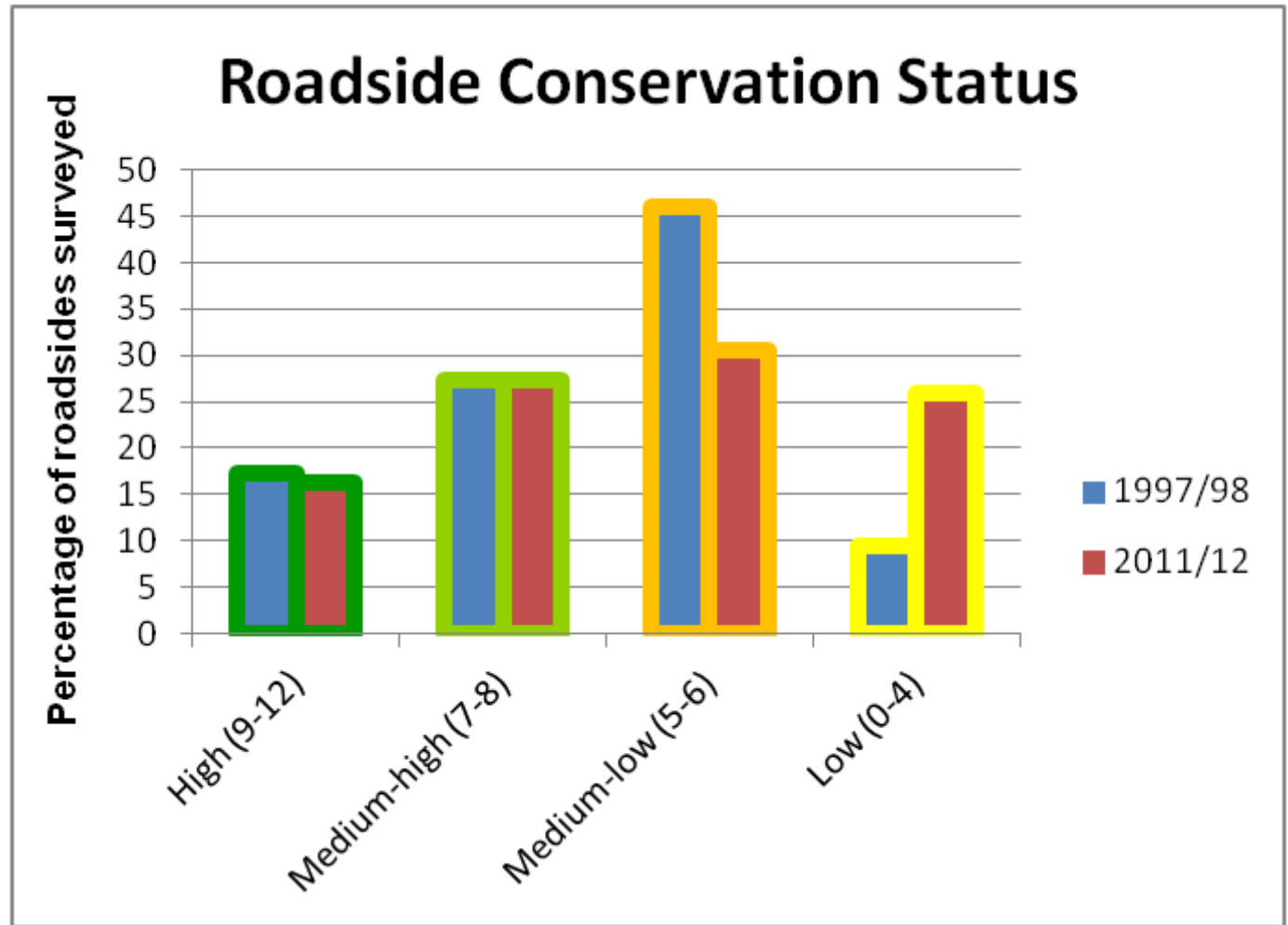
Note: These values combine left & right hand sides



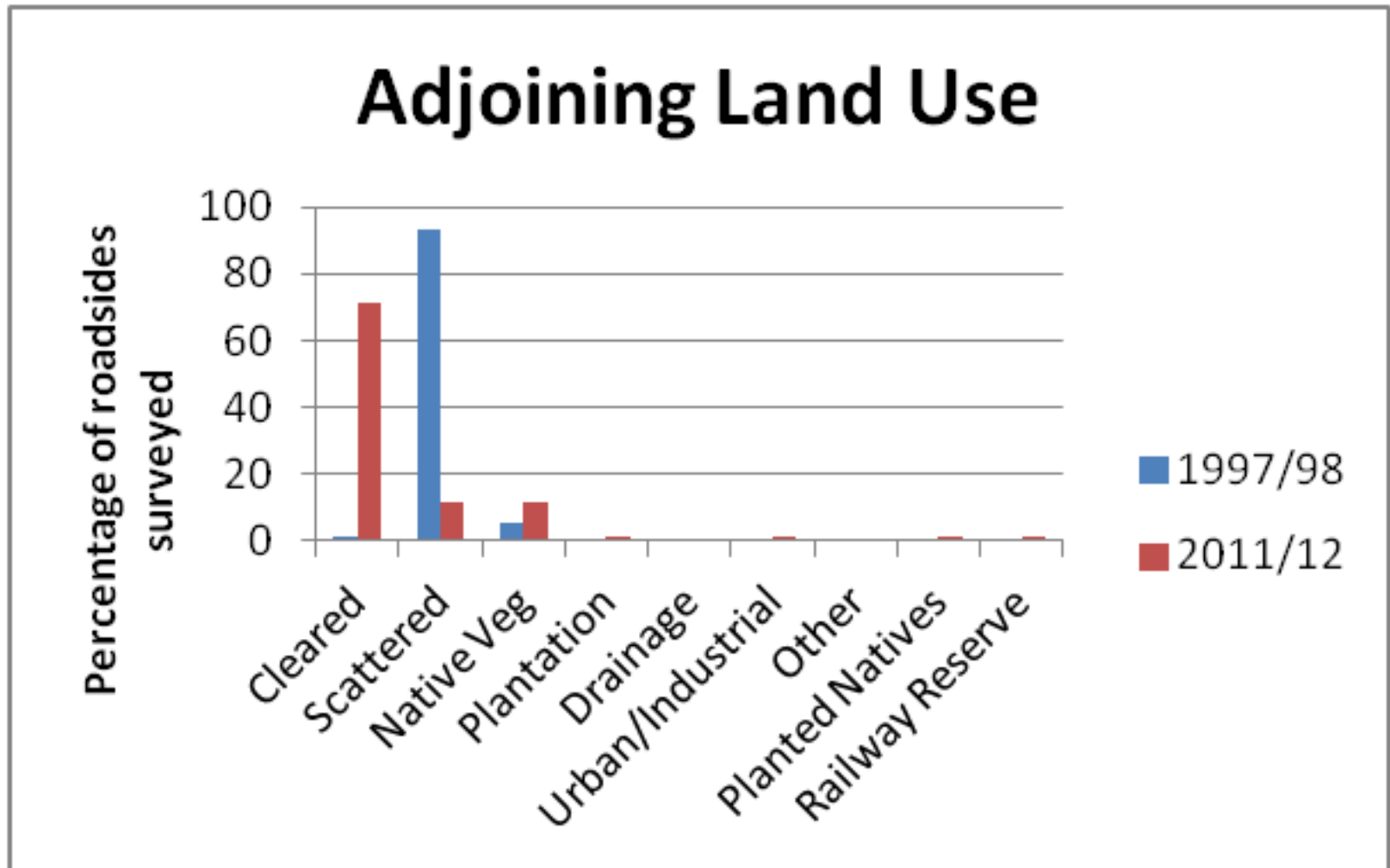
Conservation Status



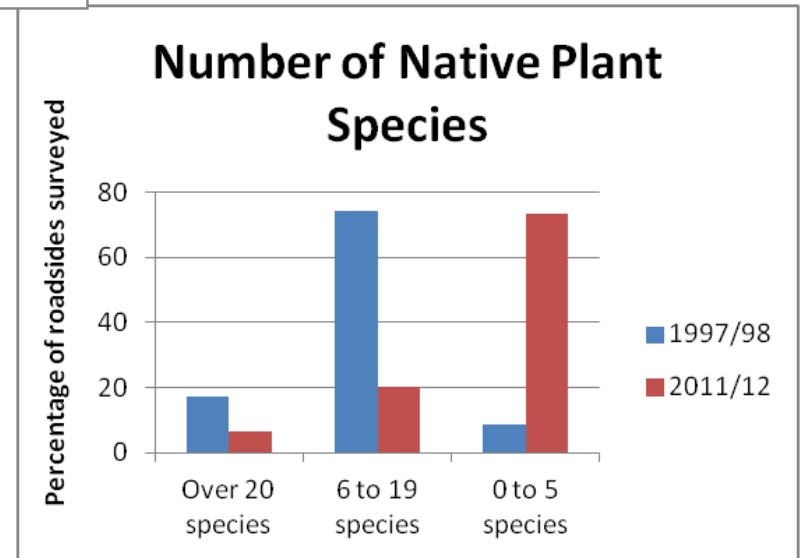
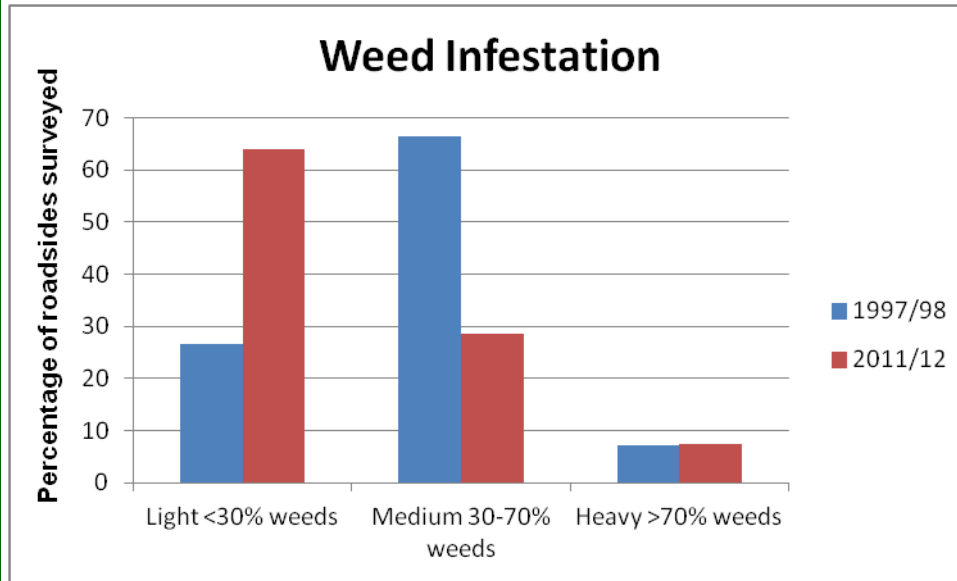
Comparison with Previous Survey



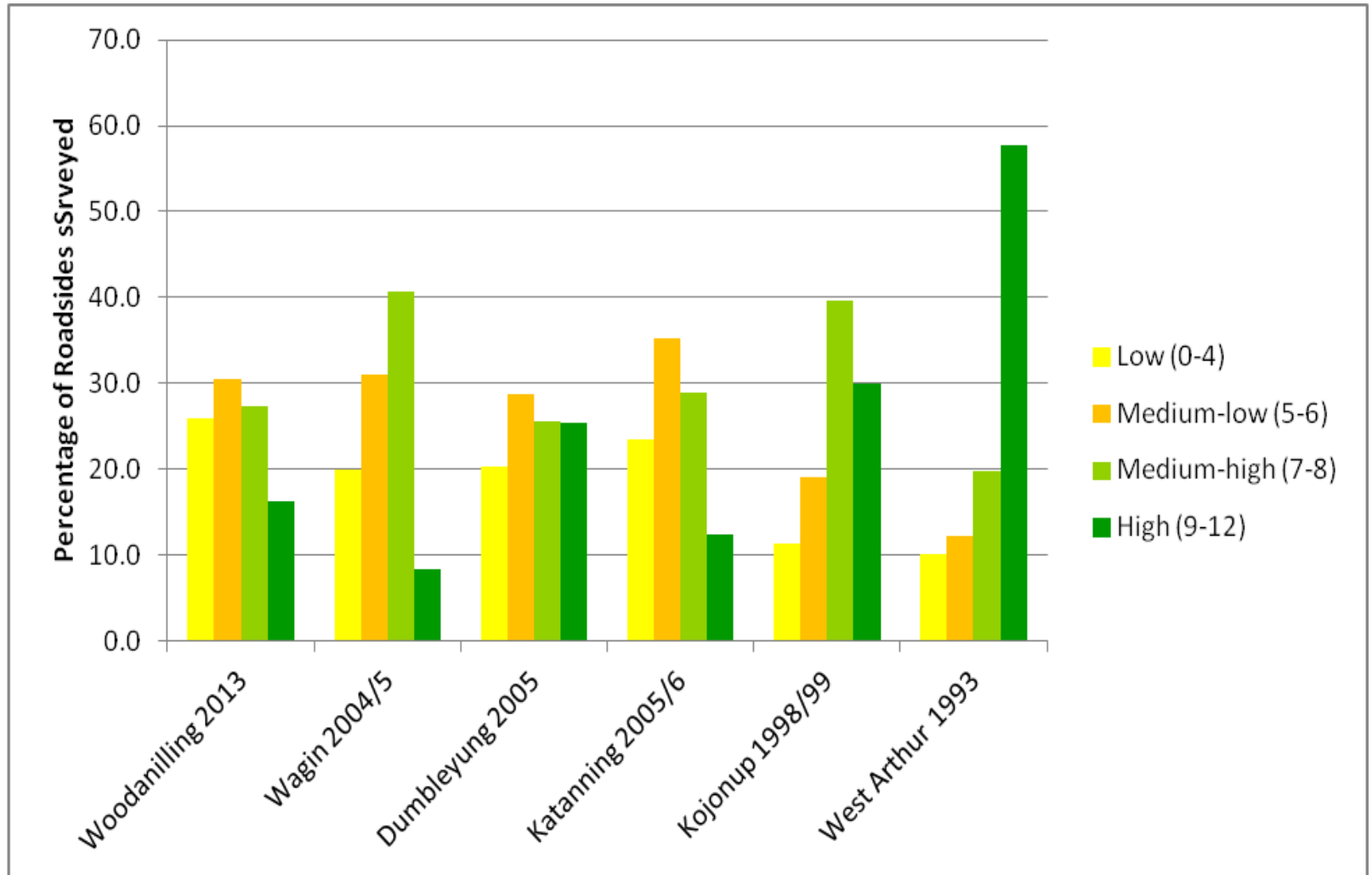
Comparison with Previous Survey



Comparison with Previous Survey



Comparison with Nearby Shires



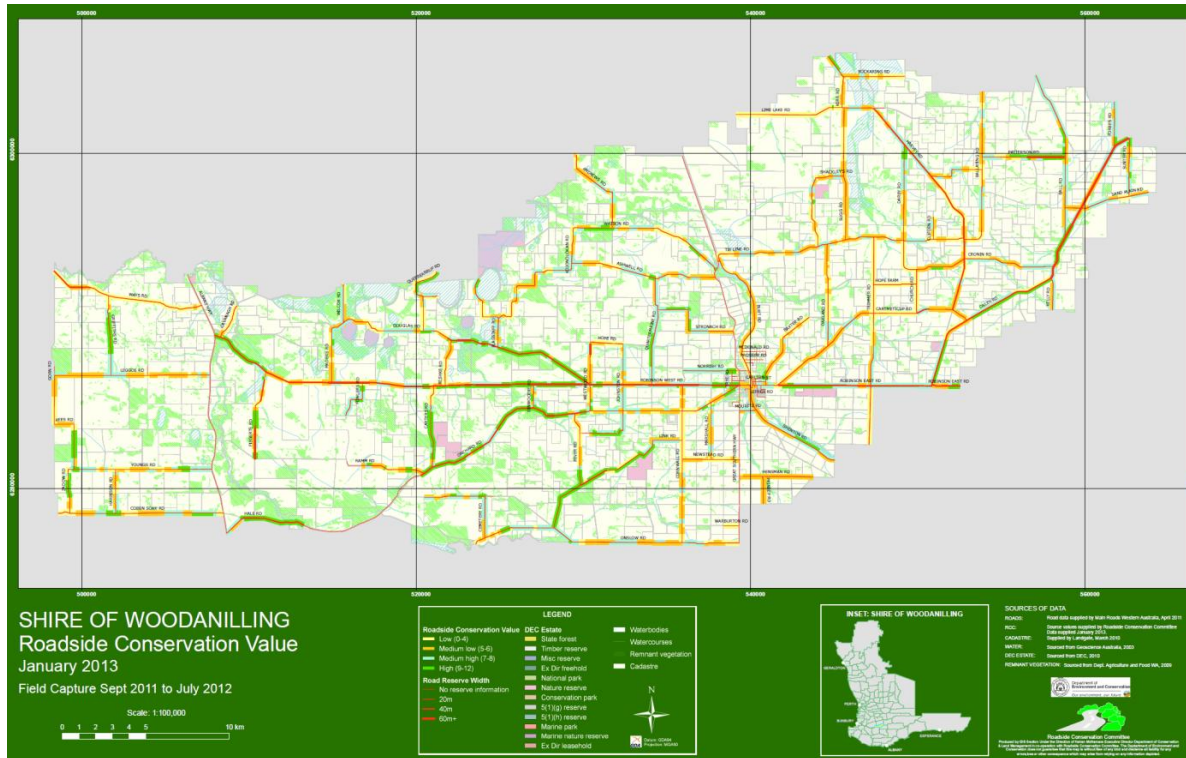
High Value Roads

- Carters Road
- Douglas Road
- Griffiths Road
- Hale Road
- Link Road
- Orchard Road
- Oxley Road
- Patterson Road
- Robinson West Road
- Robinson East Road
- River Road





So, how does the map help us?

1. Provides an inventory of the condition of roadside vegetation in a format that is easy to interpret.
2. Reference map prior to roadworks and maintenance activities.
3. Snap-shot data useful for measuring change over time.
4. NR Management and planning tool.



Management & Planning Tool

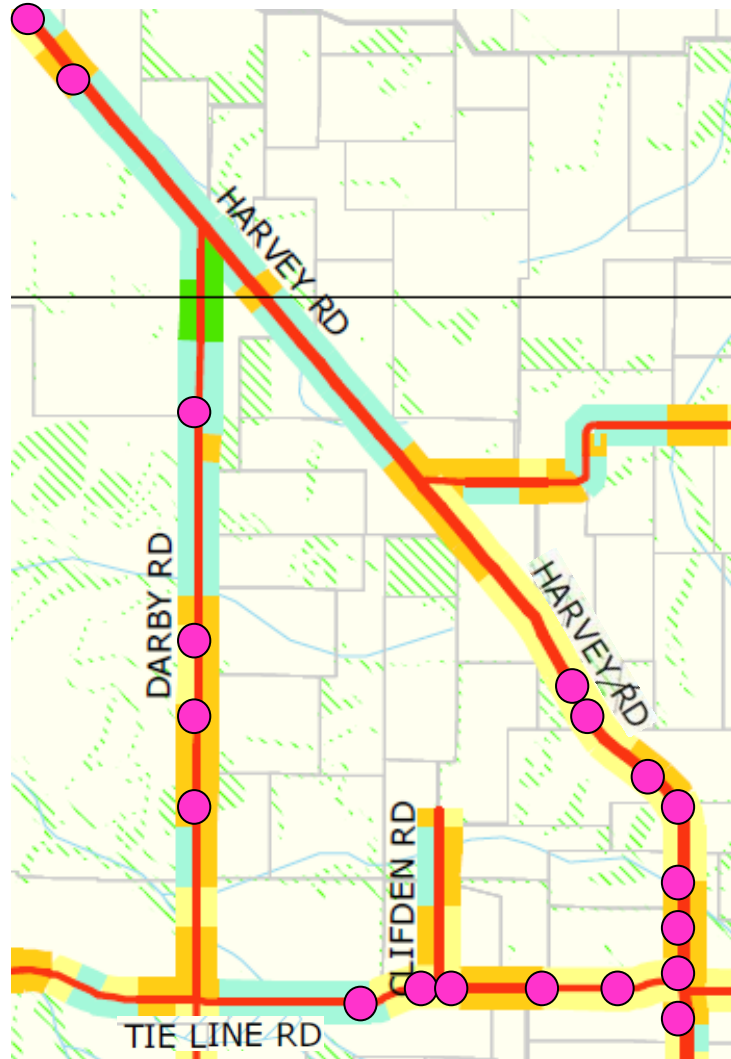
- Adopt specialised management techniques for different categories of roads

High conservation value roadside:		
Management goal		Maintain, enhance native plant communities
Management guidelines		Minimise disturbance

- Develop a *Roadside Register* (roads important for conservation)



Assist with weed strategies & priorities.



LEGEND

Roadside Conservation Value

- Low (0-4)
- Medium low (5-6)
- Medium high (7-8)
- High (9-12)

Road Reserve Width

- No reserve information
- 20m
- 40m
- 60m+

 Afghan melon

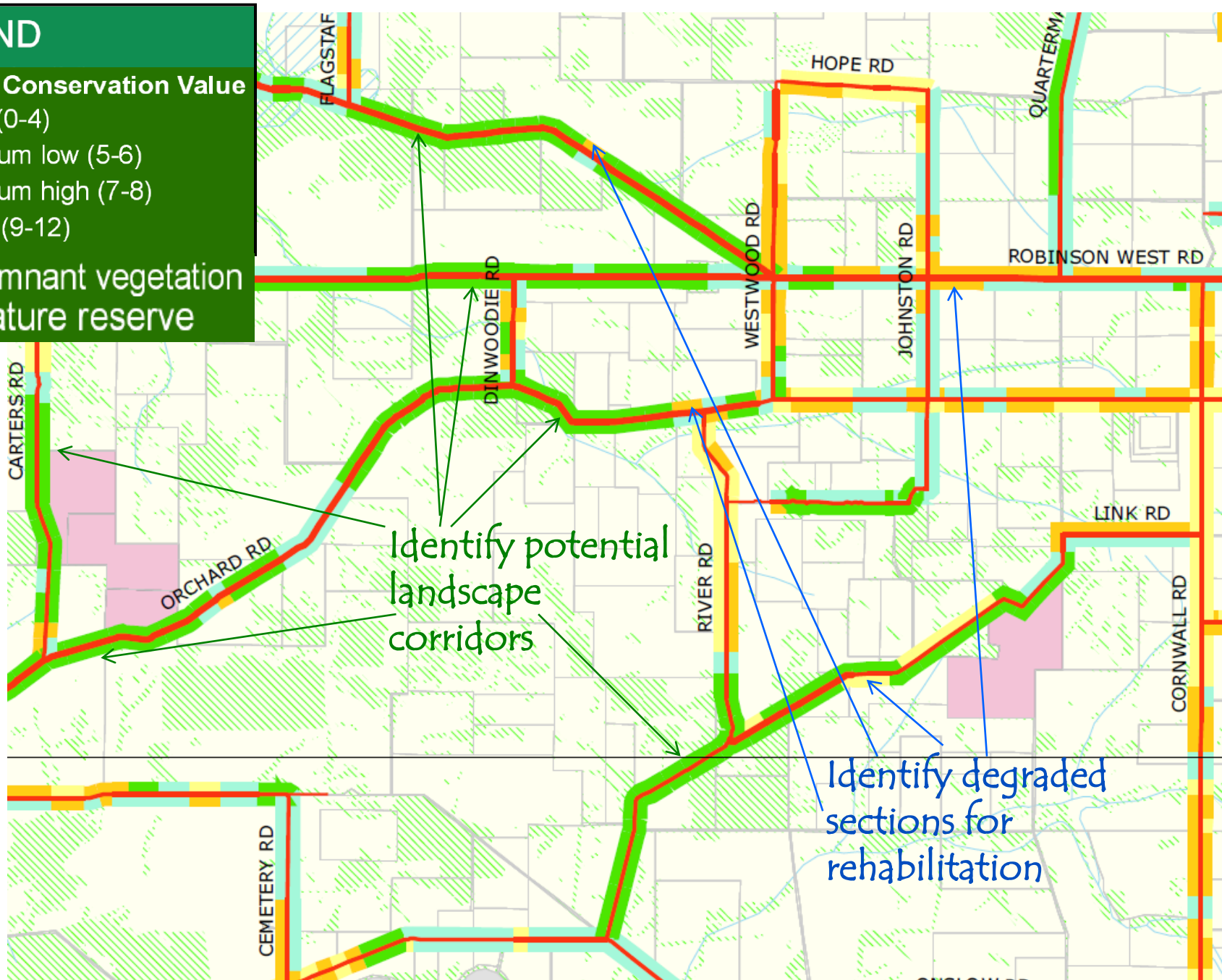


LEGEND

Roadside Conservation Value

- Low (0-4)
- Medium low (5-6)
- Medium high (7-8)
- High (9-12)

- Remnant vegetation
- Nature reserve



Other Applications of the Map:

- Assessing road works impacts
- Funding applications/NRM grants
- Incorporate into Landcare & NRM projects
- Tourism (Flora Roads)
- Road reserve management plans and policies



Sustainability of Roadside Values



The future of roadside values depends on the current management practices.



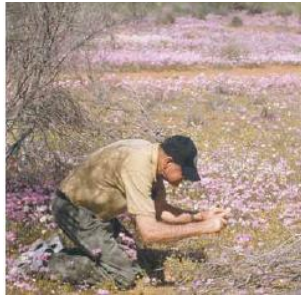
The Big Picture

88% of WA road network are local government roads - covering approx. 125,500 km.

- Roadside vegetation is likely to be subject to increasing pressures and threats from road upgrades due to economic activity and road safety.
- Understanding the primacy of road safety, the Environmental Protection Authority's position is that roadside vegetation has high biodiversity and ecological linkage values.
- Its retention is critical, and should be considered in any road upgrade



Good Management Requires that All Issues are Considered and Balanced.



Contacting the RCC

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Roadside Conservation Committee

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Roadside Conservation Committee

