

rivers and water quality

arteries of the Australian environment





another innovation

Are my waterways in good condition?

A checklist for assessing river, stream or creek health on farms

When you walk along your stream or creek bank it is often hard to know what to look at to assess whether your waterway is healthy. This quick and easy checklist will help you to work out the health of the streams or creeks running through your property by looking at six features we know affect whether a stream is healthy (in good condition).

- 1. Management of riparian areas
- 2. Bank erosion
- 3. Shade and shelter
- 4. Water quality
- 5. Wildlife
- 6. Weeds and pests

The woolgrower checklist on the following pages provides colour coded pictures that you can use to quickly assess the condition of your stream or creek against each of the six features.

The three categories of green, yellow and red have been developed to reflect the full spectrum of conditions found along many waterways. Hence they are extremes, and it is likely that your waterway's condition will fall somewhere between these categories and will vary along its course. Doing the assessment should help prompt ideas about what you want your waterway to look like, and things you can do to achieve that.

Green Stream is in good condition and management should aim to maintain it in this state.

Yellow Stream remains in moderate condition, but some changes in management needed to maintain or enhance it.

Red Stream is in poor condition and will require significant changes to current management to return it to a healthy state.

After using the checklist

Once you have made your assessment of all six features, it may be the case that your stream is in good condition for two or three of the features, but needs help to improve in other areas.

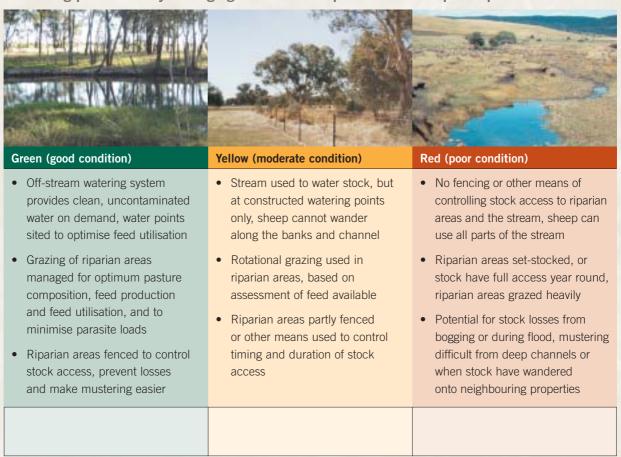
Take a look at what management options are available to maintain or improve that condition. If you need more information about how to better manage these parts of the farm, turn to the back page where there is a list of free publications, websites and people who can help.

To use the checklist ...

... walk along your river, stream or creek bank and at different points assess the six different features of riparian areas. Tick the box underneath the picture and description that best matches your waterway. Once you have made your assessment, use the information provided to help think about some of the opportunities that exist to improve your stream or creek so that it can become 'healthier' and increase its value as a farm asset.

Photocopy this checklist and it can be used at different points of your river, stream or creek.

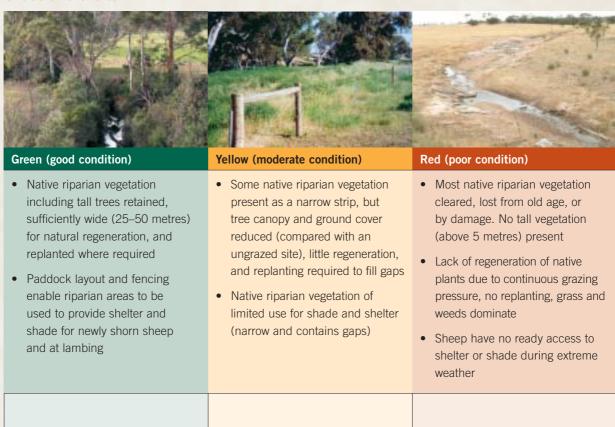
Increasing production by managing streams and riparian areas as special parts of the farm



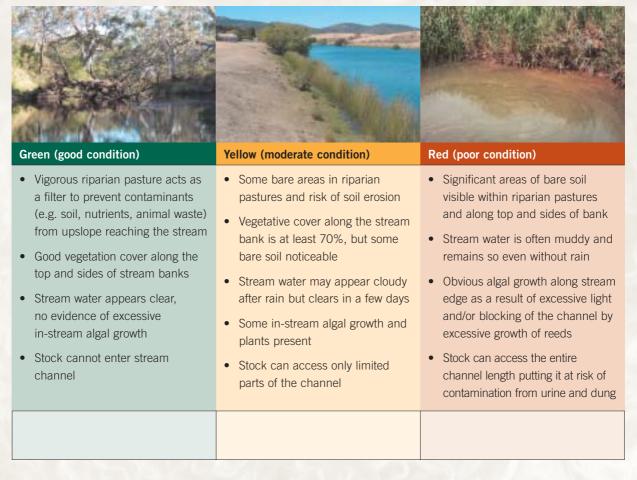
Bank erosion

Green (good condition)	Yellow (moderate condition)	Red (poor condition)
No obvious areas of active erosion along the channel banks, no stock tracks adjacent to or within the channel	Majority of bank top and sides are well-vegetated, but some signs of bare and actively eroding areas (e.g. stock tracks)	Much of the banks are bare with obvious active erosion, stock tracks prominent

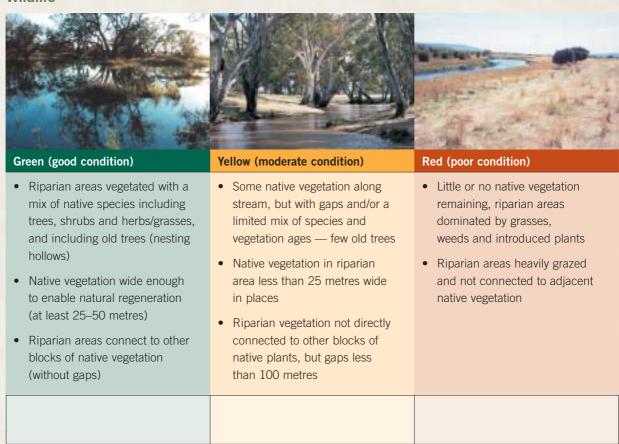
Shade and shelter



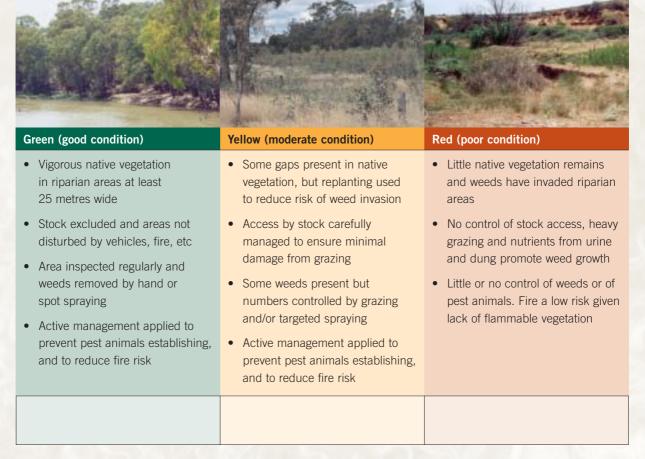
Water quality



Wildlife



Weeds and pest animals



What other landholders say about managing waterways on their farm

The following case studies are of woolgrowers who have protected and restored their streams or creeks. Read about how they have gained environmental, social and economic benefits by managing these parts of the farm as different, but integrated, parts of their overall farming enterprise.



Our experience

Mark and Anna Gubbins, 'Coolana', Victoria

"We no longer see these fenced off areas as wasted country. They are a real asset. Some people question the value of the trees and revegetation, but I can't remember the last time we had any problems with stock during

cold snaps and high winds. The benefits of shelter are obvious.

It cuts wind velocity and provides a haven for lambing and for shorn sheep. In fact all our shorn sheep are moved off shears into sheltered paddocks as part of standard practice."



Our experience

John and Sue Holt, 'Burn Brae', South Australia

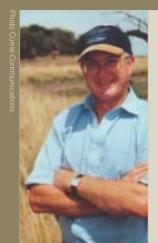
"Fencing off the creek areas has provided a huge range of benefits including reduced erosion, increased water quality, improved creek bank stability, weed management and increased biodiversity. Revegetation of these areas has also provided effective shelter for livestock, particularly lambing ewes, as fencing following the creek line



atter which idor for wildlife



has produced what we call 'rooms', that provide protection from the elements no matter which way the wind is blowing. We believe the riparian land acts as an environmental corridor for wildlife and are encouraged by the number of bird species returning to our farm to live in these areas."



Our experience

Richard and Jenny Weatherley, 'Connewarran', Victoria

"River and waterway management should be a part of the whole farm ecosystem and not a separate issue. For example, we had noted a rise in the salinity of the river water, so to water the stock efficiently and provide clean water, the best thing we could do was to shut them away from the river altogether and provide water from another source. There is a strong correlation



between water quality and livestock productivity. But while the river is not used for stock watering any more, it's a vital ingredient to the property's increase in overall biodiversity."

Turn over for where you can get more information on managing rivers, streams and creeks on your farm. -



Want to know more?

Having used this checklist on your farm's waterways and read what other woolgrowers have to say, maybe you want to know more. The good news is that Land, Water & Wool, a joint initiative between Australian Wool Innovation and Land & Water Australia is here to help. It integrates natural resources management with sustainable wool production. The Program has invested in research, guidelines and people to help woolgrowers gain economic, environmental and social benefits on their farm.

Take a look at some of the products shown here to see if they meet your needs, and call CanPrint Communications to order your free copies. If you would like to know more about the research that these products are based on take a look at the landwaterwool.gov.au website, or you can download the products advertised here.

The Wool Industry River Management Guide brings together the latest science and recommended management practices for riparian areas within the context of a commercial wool growing property. The Guides are available for the high rainfall

regions (above 600 mm) and sheep/wheat regions (300-600 mm) of Australia. Each book has over 200 full-colour pages.

High rainfall zone: product code PX050951 Sheep/wheat zone: product code PX050952

Managing rivers, streams and creeks: A woolgrowers guide — a summary of the key recommendations from the Guides and provides a friendly introduction to the river and riparian management issues on farm. Product code PX051003

River Insights — a publication featuring the stories of ten woolgrowers and what has motivated them to manage their rivers, creeks and streams in ways that make both economic and environmental sense. Product code PK050950

These products are available from CanPrint Communications on 1800 776 616 in hard copy or can be downloaded from

www.landwaterwool.gov.au or www.rivers.gov.au



Land, Water & Wool comprises seven areas of research and development based around the major issues facing sustainable wool production:

- · Soil Salinity
- · Climate Risk Management
- Rivers and Water Quality
- Biodiversity
- Native Pastures
- Grazing the Rangelands
- Future Woolscapes

For more information about the projects being funded in these areas, as well as the three regional projects being funded through Land, Water & Wool — Rivers and Water Quality go to the website

assessing river, stream or creek health on PB061114

Designed by Printed by

Land, Water & Wool is a research partnership between Australian Wool Innovation Limited and Land & Water Australia.