Diamantina River Catchment Local Knowledge Map

Resilient Queensland Queensland Reconstruction Authority



Catchment Overview



The Diamantina River rises in the Swords Range, some 70 kilometres south-west of Kynuna and flows initially in a north and easterly direction before changing to a south-westerly direction 70 kilometres west of Winton.

Major tributaries joining the river are Mills Creek, Nesbitt Creek, Oondooroo Creek and Jessamine Creek, east of Winton as well as Wokingham Creek and the Western and Mayne Rivers north of Diamantina Lakes, and Farrars Creek south of Monkira.

The Diamantina sprawls out into true channel country south of Diamantina Lakes.

The river does not have a well-defined main channel but consists generally of a series of wide, relatively shallow channels. South of Winton, the principal town on the Diamantina is the remote outpost of Birdsville, and it receives waters from ten local government areas. From Birdsville, the Diamantina crosses the border into South Australia and flows into Kati Thanda-Lake Eyre - the lowest natural point in Australia.



Climate & Rainfall

Weather and climate characteristics in the Diamantina River Basin in the last 30 years from 1989 - 2018 (BoM, 2018):

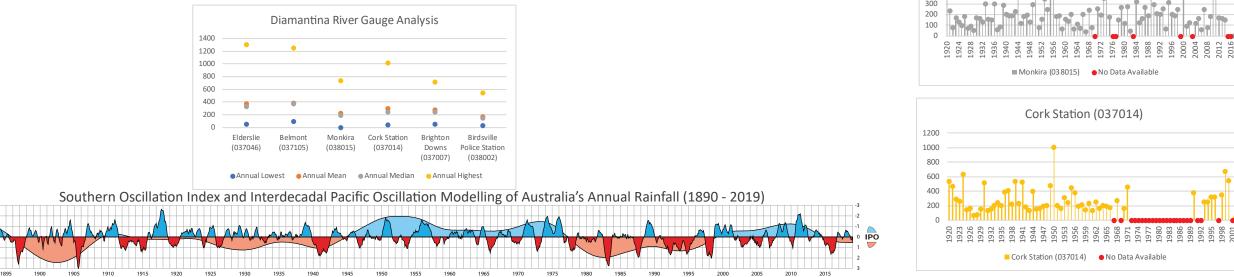
Annual rainfall has been relatively stable - increasing by around 20mm over 30 years while still naturally fluctuating.

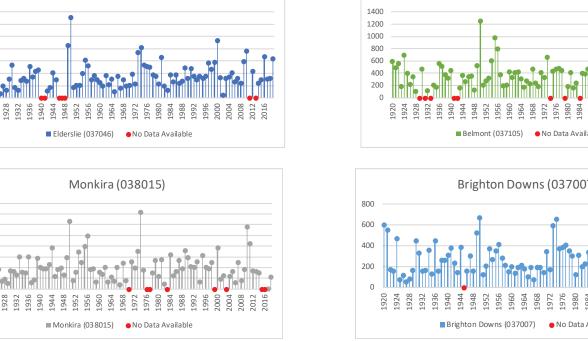
Dry years have occurred six times and wet years 11 times with the remainder remaining in the average range.

On average, the Diamantina River at Birdsville is usually dry for around five months (40%) of each year, but there is large <u>4</u> variation between years. It reaches minor flood level when the river height reaches 4m, which happens, on average, about once every second year.

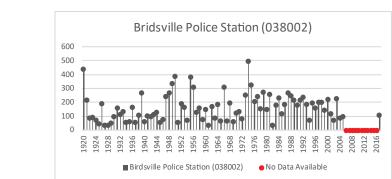
Rainfall has been unreliable in the south west part of the region around Birdsville. Rainfall during the early wet months is مَرْكُمْ unreliable across the region المحتوي المحت

Useful rain events have occurred an average of twice a year. As of 2019, there have only been 13 summer seasons since 1900 that have not had 50mm rain event, representing a 5% risk of occurring any year.





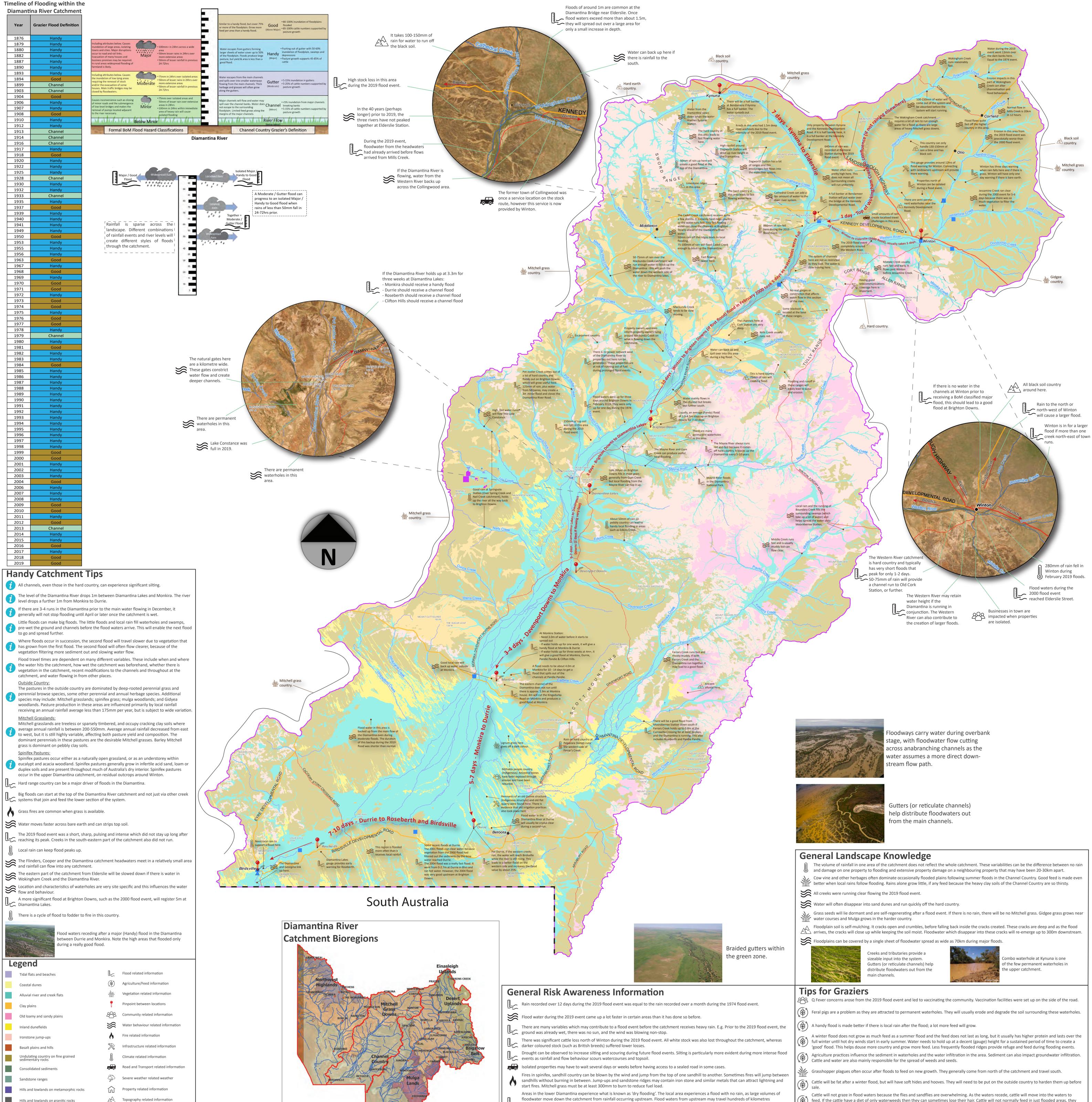
Elderslie (03704)



Belmont (037105

How to use this guide:

The information below provides local knowledge on landscape characteristics and flood behaviour. This is provided for local land managers, Council staff, and Government Agencies to better understand the Diamantina River Catchment and its unique characteristics. This guide has used the best available information at present derived from updating a previous map developed and significant local input from a series of community meetings with locals in 2019. It is intended to help you assess what type of flood is likely to occur in your area and indicate what amount of feed you might expect. You may wish to record your own flooding and landscape characteristics on the map.





2003	Handy	
2004	Good	
2006	Handy	
2007	Handy	
2008	Handy	
2009	Good	
2010	Good	
2011	Handy	
2012	Good	
2013	Channel	
2014	Handy	
2015	Handy	
2016	Good	
2017	Handy	
2018	Good	
2019	Good	



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Tidal flats and beaches		Flood related information
Coastal dunes		Agriculture/Feed information
Alluvial river and creek flats		Vegetation related information
Clay plains	7	Pinpoint between locations
Old loamy and sandy plains	<u> 28</u> 2	Community related information
Inland dunefields	≶	Water behaviour related information
Ironstone jump-ups	8	Fire related information
Basalt plains and hills	×	Infrastructure related information
Undulating country on fine grained sedimentary rocks		Climate related information
Consolidated sediments		Road and Transport related information
Sandstone ranges		Severe weather related weather
Hills and lowlands on metamorphic rocks	ស្ន	Property related information
Hills and lowlands on granitic rocks	A	Topography related information
Manual Gauge	\$	Active spring
Automatic Gauge	3	Inactive spring

Produced by Queensland Government, drawn from information authored by David Phelps, Ben Lynes, Kirsten Forrest, Peter Connelly & Darrell Horrocks September 2006. Original map available from David Phelps.

While every care is taken to ensure the accuracy of this data, Department of Agriculture and Fisheries, Department of Environment and Science, Department of Natural Resources, Mines and Energy, Desert Channels Queensland, Geoscience Australia, Bureau of Meteorology, NR&W, CSIRO, UQ nor their representatives, make no representatives, and all liability (including without limitation, liability, incomplete in any way and for any particular purpose and disclaims or warranties about its accuracy, liability (including without limitation, liability (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccuracy, liability, incompleteness or suitability (including without limitation, liability, incompleteness or suitability (including without limitation, liability (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccuracy, liability (including undirect or consequential damage) and costs which might be incurred as a result of the data being inaccuracy, liability (including without limitation, liability (including without limitation, liability, incompleteness or suitability (including without limitation, liability, incompleteness or suitability) and all liability (including without limitation, liability, incompleteness or suitability (including without limitation, liability) and all liability (including without limitatio



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🖳 downstream before the water evaporates, soaks into the floodplain soils or is diverted into swamps and lakes. Dry flooding is vital for the economy in these areas. Areas like this experience floods more than they experience rain.

Large and

moderate sized

the water during

initial flooding.

channels distribute



feed. If the cattle have a diet of only waterweeds then they can sometimes lose their hair. Cattle will not normally feed in just flooded areas, they will still food in the sand dupor will still feed in the sand dunes.

Compacted and wet blacksoil can limit tree maturation and is generally a poorer quality soil that can cause cracks often metres deep. Blacksoil may also inhibit plant and root growth, foster drier soils and expose tree roots. Floodplain soils are moderately fertile, but limited by the high clay content, cracking and high alkalinity.



Less frequently flooded ridges provide refuge and