## Diamantina River Catchment Flood Rules of Thumb

2 inches (50 mm) rain off the ridges leads to local

flooding. 3 - 4 inches (75 - 100 mm) of rain will flood Cadell Creek enough to block up the Diama

Flood travel time varies and depends on what was before it. If it is a first flood it usually takes about 10 days from Winton to Brighton Downs. In Feb 2000 it only took 5 days because the waterholes were full from earlier runs

Pot Jostler Creek comes out of a lot of hard country and floods out on Brighton Downs, growing useful feed. 5 inches (125 mm) of rain, plus water from Milparoo, will give a 9.8 feet (3 m) flood at Diamatina Lakes

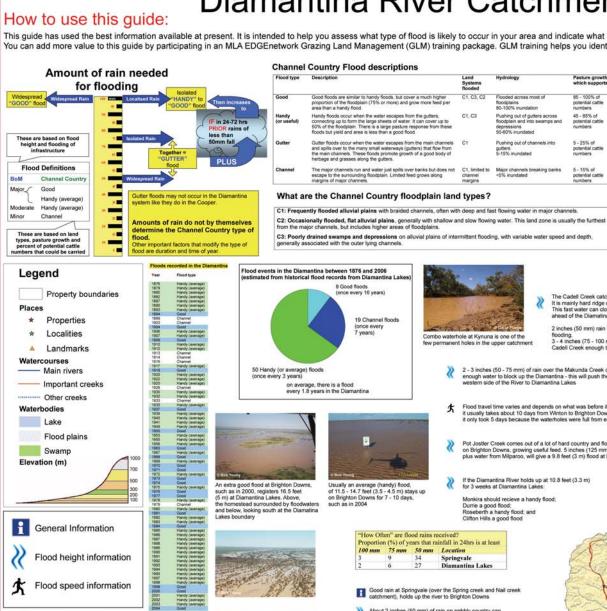
If the Diamantina River holds up at 10.8 feet (3.3 m) for 3 weeks at Diamantina Lakes:

nkira should recieve a handy flood; rrie a good flood; seberth a handy flood; and flon Hills a good flood

Moonyern channel needs to flood to benefit Clifton Hills

This guide has used the best information available at present. 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 guides on the map. You can add more value to this guide by participating in an MLA EDGEnetwork Grazing Land Management (GLM) training package. GLM training helps you identify land types and flood zones and to develop a grazing management plan for your property

Combo waterhole at Kynuna is one of the few permanent holes in the upper catchn



General Information

Flood height information



8 Good floods (once every 16 years)

Usually an average (handy) flood, of 11.5 - 14.7 feet (3.5 - 4.5 m) stays up on Brighton Downs for 7 - 10 days,

| Proportion (%) of years that rainfall in 24hrs is at lea | 100 mm | 75 mm | 50 mm | Location | 3 | 9 | 34 | Springvale | 2 | Diamantina Lakes |

## **Estimated Summer Flood Pasture Growth**

Flood type	Frequently flooded plains (C1) (kg DM/ha of useful feed)	Occasionally flooded plains (C2) (kg DM/ha of useful feed)	Swamps and depressions (C3) (kg DM/ha of useful feed) 4500-8000	
Good	1200-2500	1500-3500		
Handy	750-1500	100-250	3500-6500	
Gutter	400-1200	No growth	2000-4500	
Channel	250-750	No growth	1200-2500	



		od rains re ears that ra	infall in 24hrs is at least
100 mm	75 mm	50 mm	Location
4	10	42	Mackunda Downs
16	33	71	Kynuna
6	14	50	Lana Downs
10	28	62	Bladensburg



\* Flood time between Kynuna and Davenport Downs

Kynuna to the River junction near Elderslie 7 days the River junction to Brighton Downs 7 days Brighton to Diamantina Lakes 3 days Diamantina Lakes to Davenport Downs 2 days

The Western River catchment is hard country and typically has very short floods that peak for only 1 - 2 days. 2 - 3 inches (50 - 75 mm) of rain will give a channel run to Old Cork, or further

If the Diamantina is in flood, then the Western River might stay up longer

The 2000 flood arrived at Eldersile 22 hours after Winton. Usually it takes about 5 days

Most years there is a flood at the Diamantina Bridge near Eldersle of 3.3 feet (1.0 m). Once the floods get more than about 5 feet (1.5 m) they spread out a huge amount for only a little increase in depth

The Mayne River always runs red and fast because it comes off hard country It blocks up the Diamantina every 5 - 10 years

Middle Creek runs fast, it can flow clear but is usually muddy Lake Billyer on Brighton Downs fills in most years - generally from Gum Creek but local flooding from the Mayne River can top it up

"How Often" are flood rains received?
Proportion (%) of years that rainfall in 24hrs is at least
100 mm 75 mm 50 mm Location
4 8 27 Ve Javis

Rain on the hard country at Palparara runs the western side of Farrar's creek If Farrars Creek holds up at 2.6 feet (0.8 m) for 2 weeks at Curawilla Crossing, the Farrars water will give good flooding from Mooraberree south including Roseberth and Pandie Pandie

If Farrars Creek flows before the Diamantina, it will block the river thereby slowing and spreading the flow

Farrars creek runs fast and mostly muddy If Farrars Creek & the Diamantina run together, it leads to good flood

Kells Creek usually runs red

The Eastern channel of the Diamantina doesn't run until there is app 9.5 feet (2.9 m) at the Monkira house. 13 feet (4.0 m) will cut the Kingadurka Rd on Monkira (this is a good flood on Monkira)

Water heights need to reach 11.4 feet (3.5 m) to flood out to the DPI&F site on Mooraberree (shown above)

If there is 2.6 feet (0.8 m) at the Currawilla crossing for at least 14 days, there will be a good flood from Mooraberree down. This is important for Roseberth and Pandie Pandie The river drops 3.3 feet (1.0 m) between Diamantina Lakes and Monkira and a further 3.3 feet (1.0 m) from Monkira to Durrie

Some recent floods at Durrie The 2001 Flood

- ran clear water because vegetation from the 2000 flood
had filtered out the sediments by the time water reached Durrie
- The clear water killed the bluebush on Durrie and
Monkira (it is comming back now)

\* Flood times between Davenport Downs and Goyder Lagoon

3-4 days from Davenport to Monkira 1-2 days from Monkira to Durrie 7-10 days from Durrie to Birdsville & Roseberth 2-3 days from Birdsville to Pandie Pandie 7-8 Days from Pandie Pandie to Goyder Lagoon

However, upstream at Brighton Downs the 2004 flood was very good.



"How Often" are flood rains received? Proportion (%) of years that rainfall in

fall in 24hrs is at least

When do flood heights get reported?

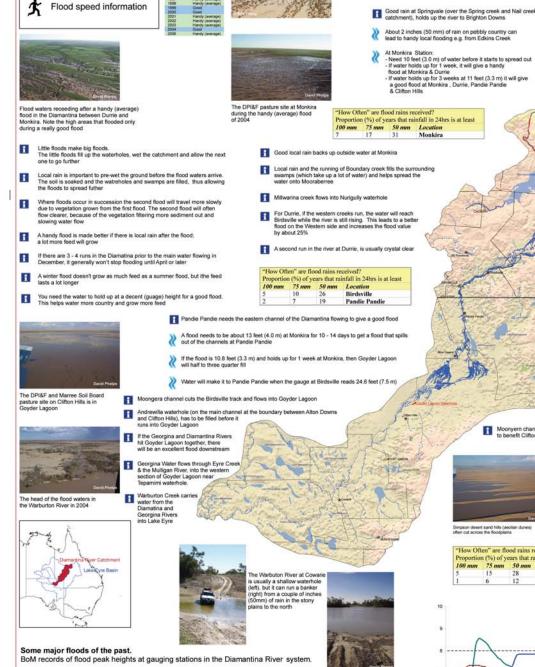
BoM flood height levels for gauging stations in the Diamantina River system.

River Height Station		Crossing Height	Minor Flood Level	Moderate Flood Level	Major Flood Level
Elderslie	1.5	1.6 (C)	1.5	2.5	3.0
Apsley	1.5		2.0	2.5	3.0
Aldingham	1.0		1.5	1.7	2.0
Oondooroo	1.0	0.6 (C)	2.0	3.0	4.0
Winton	1.3	1.3 (B)	1.5	2.0	3.5
Tulmur	4.0		5.0	7.0	8.0
Diamantina Lakes	0.3	0.0 (X)	1.0	3.0	5.0
Monkira	2.0	2.6 (A)	2.6	4.0	5.0
Birdsville	2.0	4.0 (A)	4.0	6.0	8.0

All heights are in metres on flood gauges. (A) = Approaches (B) = Bridge (C) = Causeway (X) = Cros







River height Highest recorded Mar Mar Feb Mar Feb Jan Feb/Notation flood 1950 1971 1976 1977 1991 1999 2000

5.99

5.03

2.66

4.11

6.62 5.33 5.50 6.40 5.90

5.25 4.45 4.80 5.10 4.80 8.54 8.08 8.20 7.90 8.20 7.40 7.35

"How Often" - APSRU (DPI&F, NR&W, CSIRO, UQ) - data SILO (SoM, NR&W)

Text sourced from interviews conducted by the Sustainable Grazino of the Channel Courty For

Feb 2000 2.94 Feb 2000 2.66

Feb 2000 4 11

May 1955 5.01 Jan 1974 9.75

Jan 1974 7.06

Feb 1974 6.12

Aldingham

Oondooroo

Diamantina

channels

Tulmur

Lakes

1974 Flood - An Extra good flood

est on record for most of eastern Australia. In the Diamantina River, 1950 and 2000 were other graphs provide a useful comparison of the flood height and duration of these important

PO Box 519, Longreach, Qld 4730

