

Flood summary for Helidon, Grantham, Gatton, Laidley and Forest Hill

- The towns affected by flooding in the Lockyer Valley included Withcott, Helidon, Grantham, Gatton, Laidley and Forest Hill.
- Withcott is on Gatton Creek and no water level observations are available.
- Helidon is on Lockyer Creek and water level observations are available from two automatic gauges:
 - Helidon TM (Bureau station number: 040829, Owner: DERM)
 - Helidon Alert (Bureau station number: 540143, Owner: Seqwater).
- Grantham is affected by both Lockyer and Sandy Creeks. An automatic gauge exists on Sandy Creek:
 - Sandy Creek Road (Bureau station number: 540386, Owner: Lockyer Valley Regional Council).
- Gatton is on Lockyer Creek and has two automatic gauges and one manual gauge:
 - Gatton TM (Bureau station number: 540363, Owner: Seqwater)
 - Gatton AL (Bureau station number: 540156, Owner: Seqwater)
 - Gatton manual (Bureau station number: 040444, Owner: Bureau of Meteorology)
 - All three gauges are at slightly different locations and the measured heights for the same flood will be different.
- Laidley is on Laidley Creek and has two automatic water level gauges and one manual gauge:
 - Showground Weir AL (Bureau station number: 540158, Owner: Seqwater)
 - Showground Weir HW TM (Bureau station number: 540047, Owner: Seqwater)
 - Laidley manual (Bureau station number: 040716, Owner: Bureau of Meteorology)
- Forest Hill is near the junction of Laidley Creek and Sandy Creek. The closest gauging station is owned by DERM (Site ID 143232A Sandy Creek @ Forest Hill). The Bureau does not currently collect data for this location.
- There are two Sandy Creeks described in this document. The first Sandy Creek flows into Lockyer Creek at Grantham and the second flows into Laidley Creek near Forest Hill.
- A detailed map of the flood warning network is available on the Bureau website at http://www.bom.gov.au/hydro/flood/qld/brochures/river_maps.shtml

Location map

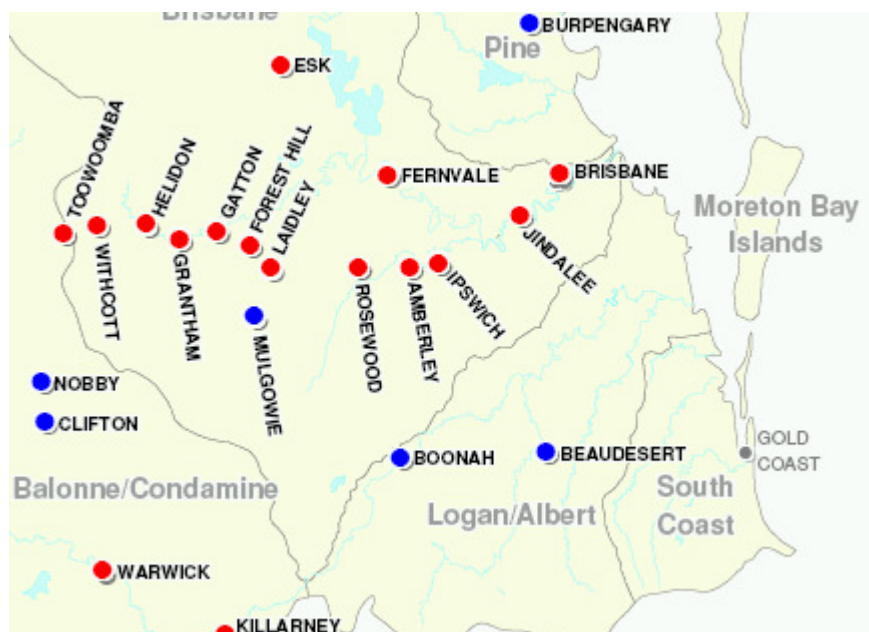
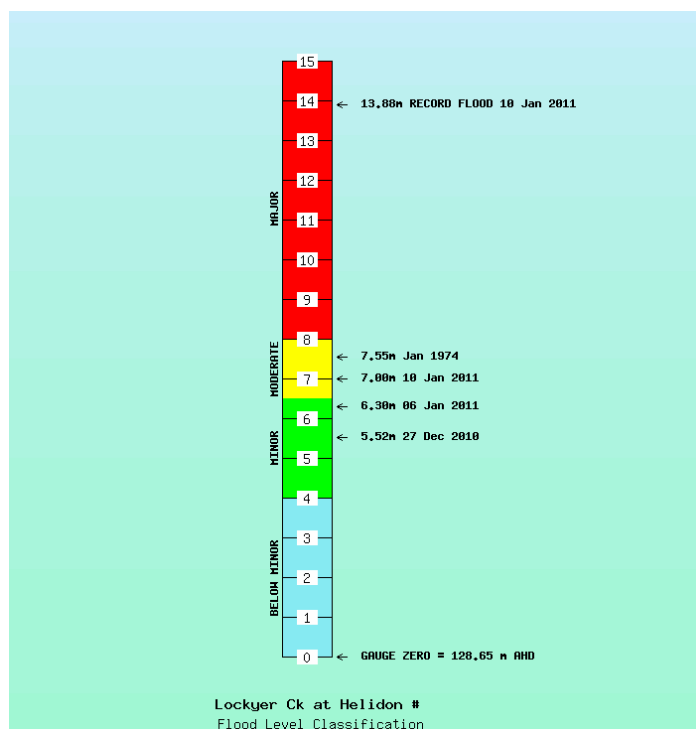


Figure 1. Map showing location of Withcott, Helidon, Grantham, Gatton, Laidley and Forest Hill in the Lockyer Valley.

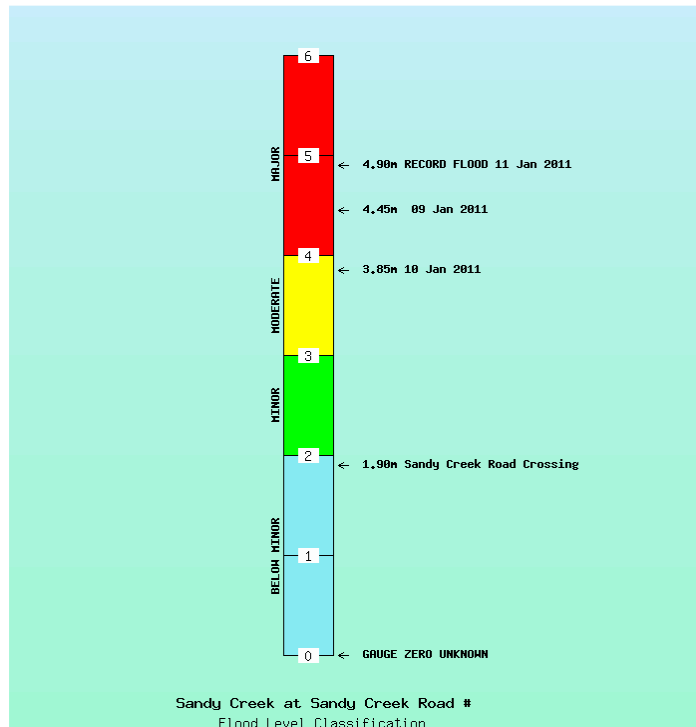
Note: Red dots are reported flood inundated towns or cities and blue dots are flood affected towns or cities.

Flood effects and severity



Lockyer Creek at Helidon AL

- The creek peaked at:
 - 4.76 metres on 26/12/2010
 - 5.52 metres on 27/12/2010
 - 6.30 metres on 06/01/2011
 - 4.20 metres on 07/01/2011
 - 6.98 metres on 09/01/2011
 - 7.00 metres on 10/01/2011
 - 13.88 metres on 10/01/2011** (9th to 10th several closely spaced peaks observed)
- Minor: 4.0 metres
Moderate: 6.5 metres
Major: 8.0 metres
- Gauge Zero is 128.65 metres AHD.
- A post flood survey of debris found the flood peak to be 13.88 metres at the Helidon gauge. This is over 6 metres higher than the previous record flood in 1974.
- Above the major flood level on 10/01/2011
- Above the minor flood level from the 26/12/2010 to 27/12/2010, on the 06/01/2011 and 07/01/2011 and from 09/01/2011 to 10/01/2011

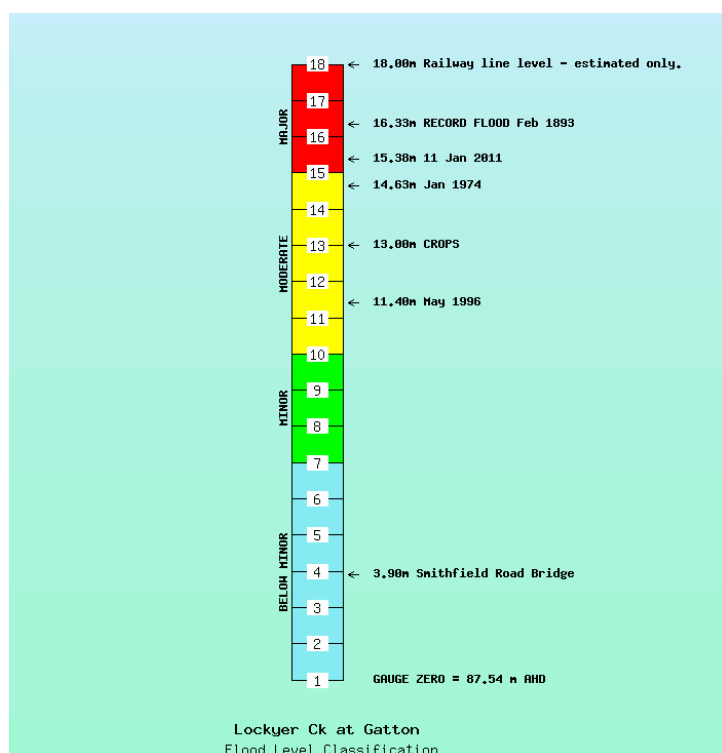


Sandy Creek Rd AL (Grantham)

- The creek peaked at:
 - 2.40 metres on 06/01/2011
 - 2.40 metres on 07/01/2011
 - 4.45 metres on 09/01/2011
 - 4.45 metres on 10/01/2011
 - 4.90 metres on 11/01/2011**
- Minor: 2.0 metres
Moderate: 3.0 metres
Major: 4.0 metres.
- Above the major flood level on the 9/10/2011, 10/01/2011 and 11/01/2011.
- Above the minor flood level from the 26/12/2010 to 27/12/2010, on the 06/01/2011 and 07/01/2011 and from 09/01/2011 to 12/01/2011.

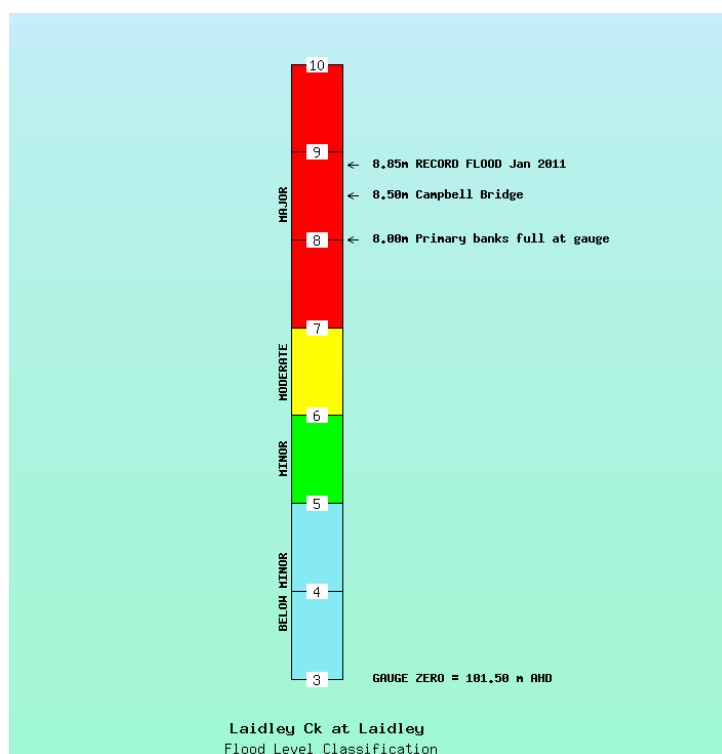
Figure 2. Flood level classifications and flood effects for Helidon and Sandy Creek Rd AL.

Flood effects and severity (cont)



Lockyer Ck at Gatton

- Post flood survey determined that Lockyer Creek at the Gatton manual gauge peaked at **15.38 metres on 11/01/2011**
- The peak on the 10/01/2011 is estimated to be about 1 metre lower than recorded on the 11th.
- Minor: 7.0 metres
Moderate: 10.0 metres
Major: 15.0 metres
- Gauge zero is 87.54 metres AHD.
- Above major flood level on the 11/01/2011.
- Above minor flood level on the 20/12/2010, 27/12/2010 to 28/12/2010, 06/01/2011 and 10/01/2011 to 12/01/2011.



Laidley Ck at Laidley

- The creek peaked at:
7.60 metres on 26/12/2010
8.80 metres on 27/12/2010
8.10 metres on 06/01/2011
8.70 metres on 10/01/2011
8.85 metres on 11/01/2011
7.60 metres on 19/01/2011
- Minor: 5.0 metres
Moderate: 6.0 metres
Major: 7.0 metres
- Gauge zero is 101.5 metres AHD.
- Above major flood level 5 times between 26/12/2010 and 19/1/2011.
- Above minor flood level from 26/12/2010 to 27/12/2010, on the 06/01/2011, from 10/01/2011 to 12/01/2011 and on 19/1/2011.

Figure 3. Flood level classifications and flood effects for Gatton and Laidley.

Rainfall summary

- Rainfalls between 600 and 1000mm were recorded in the Lockyer Valley area during December 2010 and January 2011.
- The vast majority of this rainfall fell between 09/01/2011 and 13/01/2011 as shown in the rainfall maps in Figure 3 below.

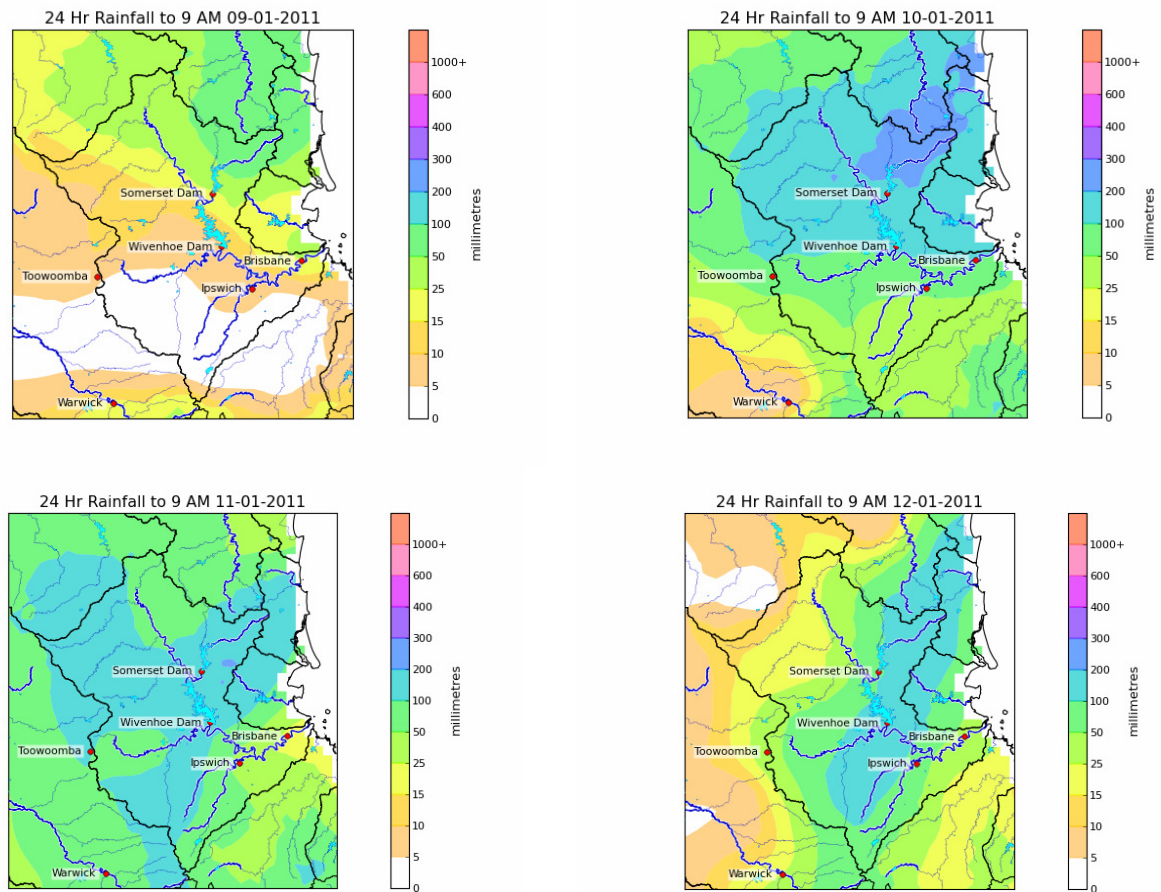


Figure 4. 24-Hour rainfall maps from 9am on 08/01/2011 to 9am on 12/01/2011.

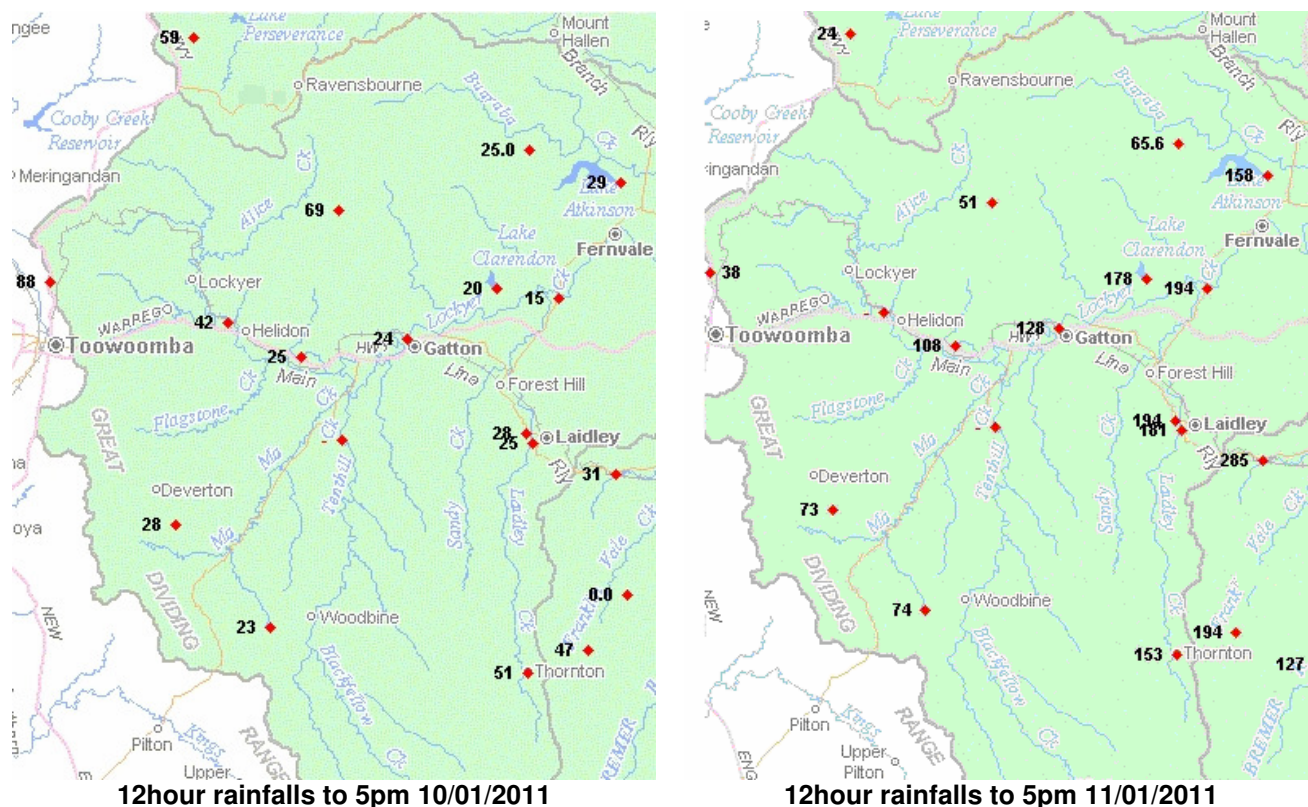


Figure 5 Rainfall for the 12 hours to 5pm 10/01/2011 and 5pm 11/01/2011.

Rainfall Intensity

- The heaviest recorded rainfall associated with the flash floods in the Lockyer Creek system on 10/01/2011 was the Toowoomba AL station on the top of the range, with much lighter rain recorded to the east in the Helidon and Grantham areas. There are no flood warning rainfall stations in the upper Lockyer Creek catchment (i.e. in tributary creek areas including Murphys Ck, Six Mile Ck, Rocky Ck, Gatton Ck).
- Review of the radar information suggests that the higher rainfalls and higher rainfall intensities occurred between the top of the range and the Helidon area and fell between the rain gauge network. This is further substantiated by a later report from Withcott which indicated a rainfall reading at 180.8mm for the 24 hour period ending 9am Tuesday 11 January 2011.
- The intensities for Toowoomba AL are provided in Table 1. The most significant rainfall intensities for Toowoomba AL in January 2011 occurred on the 10/01/2011 in the 1 hour duration periods with rainfall amounts equalling the 2-5% Annual Exceedence Probability (20-50 year Average Recurrence Interval).

Table 1. Recorded maximum rainfall Intensities for Toowoomba AL for January 2011.

Rainfall Duration	Toowoomba AL		
	Rainfall (mm)	Period ending	ARI (years)
5 min	9	13:45:00 10/01/2011	2
6 min	10	13:46:00 10/01/2011	1-2
10 min	14	13:45:00 10/01/2011	1-2
20 min	27	13:45:00 10/01/2011	5
30 min	36	13:50:00 10/01/2011	10
1hr	58	13:50:00 10/01/2011	20-50
2hr	65	14:15:00 10/01/2011	10-20
3hr	67	15:40:00 10/01/2011	5-10
6hr	75	16:55:00 10/01/2011	2-5
12hr	88	16:55:00 10/01/2011	2-5
24hr	134	6:00:00 10/01/2011	5-10
48hr	197	11:20:00 11/01/2011	10-20
72hr	218	19:15:00 11/01/2011	10-20

Note: A flood frequency analysis would be required to assess the probability of flood levels reached at each location. The frequency analysis in this report is for rainfall only.

- The heaviest recorded rainfall associated with the flash floods in the Lockyer Creek system that affected Gatton, Laidley and Forest Hill on 11/01/2011 were in the Grandchester and Laidley areas.
- The most statistically significant rainfall intensities for Grandchester AL were for the 6 hour to 72 hour durations. The recorded rainfall amounts for these durations were all greater than 1% Annual Exceedence Probability (100 year Average Recurrence Interval).
- The most statistically significant rainfall intensities for Showground Weir near Laidley were for the 12 hour to 72 hour durations. The recorded rainfall amounts for these durations were all greater than 1% Annual Exceedence Probability (100 year Average Recurrence Interval)

Table 2. Recorded maximum rainfall intensities for Grandchester AL and Showground Weir AL for January 2011.

Rainfall Duration	Grandchester AL			Showground Weir Alert		
	Rainfall (mm)	Period ending	ARI (years)	Rainfall (mm)	Period ending	ARI (years)
5 min	8	07:00:00 11/01/2011	1	9	06:40:00 11/01/2011	1-2
6 min	9	06:56:00 11/01/2011	1	10	06:41:00 11/01/2011	1-2
10 min	16	07:00:00 11/01/2011	1-2	13	06:40:00 11/01/2011	1
20 min	26	07:00:00 11/01/2011	2-5	25	06:55:00 11/01/2011	2
30 min	36	07:15:00 11/01/2011	2-5	33	06:55:00 11/01/2011	2-5
1hr	58	07:45:00 11/01/2011	5-10	45	07:20:00 11/01/2011	2-5
2hr	88	08:40:00 11/01/2011	20-50	66	07:45:00 11/01/2011	5-10
3hr	115	08:40:00 11/01/2011	50-100	69	08:25:00 11/01/2011	2-5
6hr	167	12:40:00 11/01/2011	> 100	104	16:20:00 11/01/2011	10-20
12hr	289	17:40:00 11/01/2011	> 100	181	17:45:00 11/01/2011	> 100
24hr	321	17:55:00 11/01/2011	> 100	203	20:50:00 11/01/2011	50-100
48hr	380	15:25:00 11/01/2011	> 100	258	15:25:00 11/01/2011	50-100
72hr	418	00:00:00 12/01/2011	> 100	292	02:55:00 12/01/2011	50-100

Flood event timeline

Table 3. Flood event timeline for Lockyer Creek for the 10/01/2011.

RAINFALLS	
11am to 1pm	Heavy rainfall 50 to above 100mm recorded in the Cressbrook Dam area (e.g. highest total of 111mm at Redbank Creek rainfall station; located approx 15km south west of Esk and 40km to the north west of Toowoomba).
1pm to 2pm	Heavy rainfall in excess of 50mm recorded in the Toowoomba area (55mm at Toowoomba ALERT rainfall station approx 6km nor city; 60mm at Toowoomba Airport).
1pm to 2pm	Lighter rainfalls of generally less than 10mm at Gatton (1mm), Sandy Creek Road near Grantham (5mm) and Helidon (11mm).
WATER LEVELS	
<p>The graph illustrates the relationship between rainfall and river height during the flood event. The red bars represent rainfall at the Toowoomba ALERT station. The green line represents the river height at the Helidon ALERT station, which shows a significant peak around 15:00 on Monday, 10 January, before failing. The blue line represents the river height at the Sandy Creek Road ALERT station, showing a more gradual rise and a peak around 18:00 on Monday, followed by a second peak on Tuesday, 11 January.</p>	
2pm to 3pm	Very rapid rise in Lockyer Creek at Helidon . Automatic gauge indicated a water level rise, commencing at about 2pm, of more than 8 metres in one hour, from about 4 metres to possibly about 12.7 metres at about 3pm, before failing. Subsequently, DERM have advised that the Helidon flood peak has been surveyed as 13.88 metres and estimated to have occurred at 3:10pm on 10 January. The previous record was 7.55 metres in 1974.
3pm to 5pm	Rise of approx one metre recorded at automatic water level station in Sandy Creek at Sandy Creek Road AL, near Grantham , possibly indicating passage of floodwaters in the Grantham area of Lockyer Creek.
5pm to 7pm	Very rapid rise in Lockyer Creek at Gatton . Automatic gauge (TM) indicated a water level rise, commencing at about 5pm, of about 7 metres in two hours before failing. The Lockyer flash flood did not cause the highest flooding at Gatton and downstream. Higher flood levels were experienced at Gatton on the following day, Tuesday 11 January, due to further heavy rainfall in the Lockyer-Laidley valley. A post flood survey indicates a 2011 flood peak of 15.38 metres (occurring on Tuesday 11) at the long-term flood warning gauge. This compares with a 1974 flood peak of 14.63 metres. The highest recorded flood at Gatton is 16.33 metres in 1893.
6pm to 9pm	Rapid rise in Lockyer Creek at Glenore Grove . Automatic gauge indicated a water level rise, commencing at about 6pm, of about 3.8 metres in two hours from about 10.7 metres to about 14.5 metres at about 9pm. (Automatic gauge indicated a peak water level of about 14.6 metres at about 11pm.)
Midnight to	Rise in Lockyer Creek at Lyons Bridge . Automatic gauge indicated a water level rise,

midday Tuesday 11 Jan	commencing at about midnight Monday, of about 2 metres in twelve hours from about 15.2 metres to about 17.1 metres at about midday Tuesday.
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Table 4. Flood event timeline for Laidley and Lockyer Creek for the 11/01/2011.

RAINFALLS	
5am to 6am	Heavy rainfall of up to 50 mm in the Grantham, Gatton, and Glenore Grove Areas. Less in the Laidley and Grandchester areas.
6am to 7am	Heavy rainfall of up to 46 mm in the Laidley and Grandchester area.
7am to 8am	Rainfall generally eases to less than 20 mm but continues at 41 mm in the hour at Grandchester and 35 mm at Thornton which is higher in the Laidley Creek catchment.
8am to 5pm	Rainfall continues with maximum hourly intensities of around 25 mm. The 12 hour total to 5pm at Grandchester was 285 mm and at Showground Weir in Laidley was 194 mm. See Figure 4.
WATER LEVELS	
1am to 6am	Rises started on Laidley Creek at Mulgowie TM (owned by DERM) at around midnight with what looks like a fast rise starting at about 6am but the station fails at around this time.
6am to 1pm	<p>Renewed rises also commenced at Showground Weir in Laidley at around 3am and reached a relatively steady level of over 9 metres about 10am. The manually recorded peak at the Bureau Laidley site was 8.85 metres at 1.20pm.</p> <p>Forest Hill was reported to have been flooded at around 9-10 am on 11/01/2011. This is believed to be a result of very heavy rainfall in the immediate area and flows in Laidley and Sandy Creeks.</p> <p>Rises were also occurring in Lockyer Creek at Gatton. A post flood survey indicates a flood peak of 15.38 metres occurred at around midday on Tuesday 11/01/2011 at the long-term flood warning gauge. This compares with a 1974 flood peak of 14.63 metres The highest recorded flood at Gatton is 16.33 metres in 1893.</p>
1pm to 5pm	Rapid rises started in Lockyer Creek at Glenore Grove at about 8am with the peak occurring around 5pm. The peak at the automatic gauge was about 15.34 metres.
Midnight to midday Tuesday 11 Jan	Rise in Lockyer Creek at Lyons Bridge . Automatic gauge indicated a water level rise, commencing at about midnight Monday, of about 2 metres in twelve hours from about 15.2 metres to about 17.1 metres at about midday Tuesday. The final peak was 17.50 metres at about 5.30pm on Tuesday 11/01/2011.

Flood Heights at Sandy Creek Road and Helidon

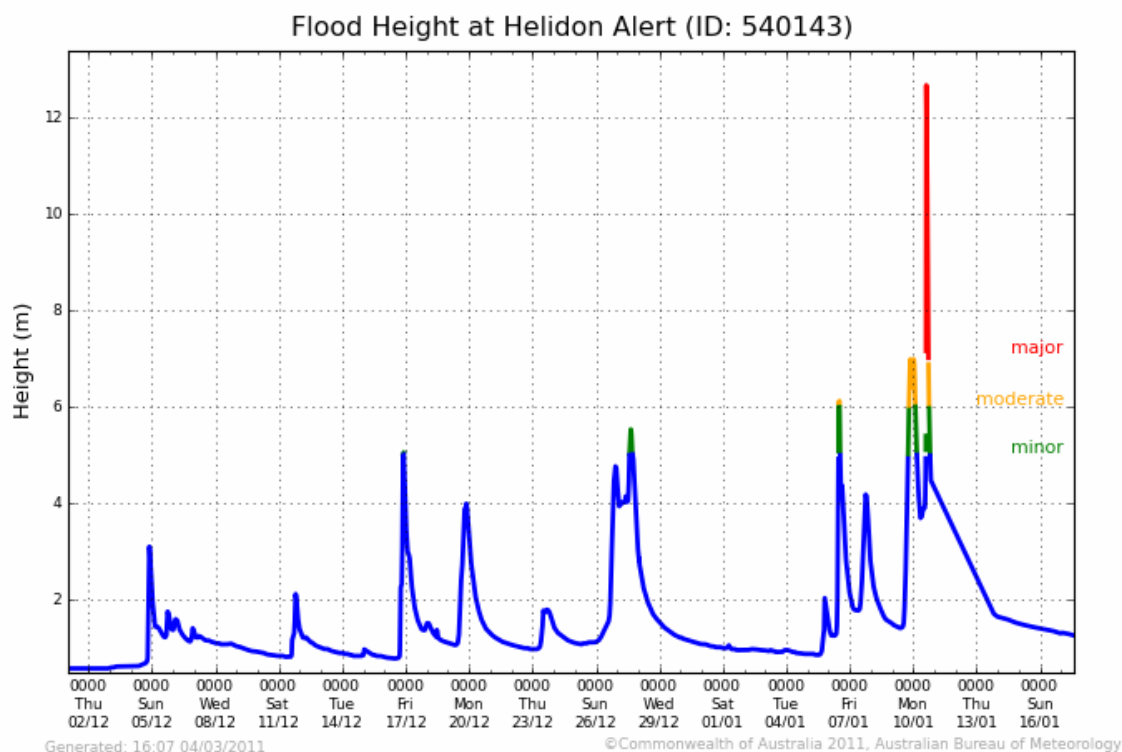


Figure 6. Flood Heights at Helidon for 02/12/2010 to 17/01/2011.

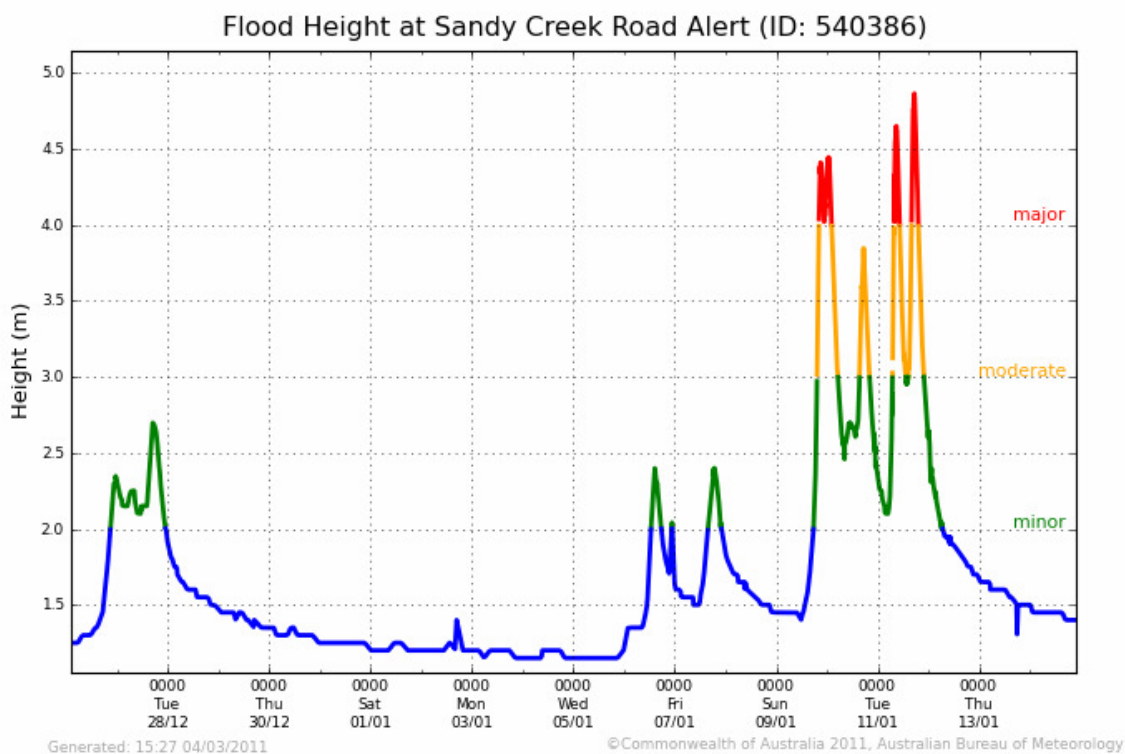


Figure 7. Flood Heights at Sandy Creek Road for 16/12/2010 to 15/01/2011.

Flood Heights at Gatton and Laidley

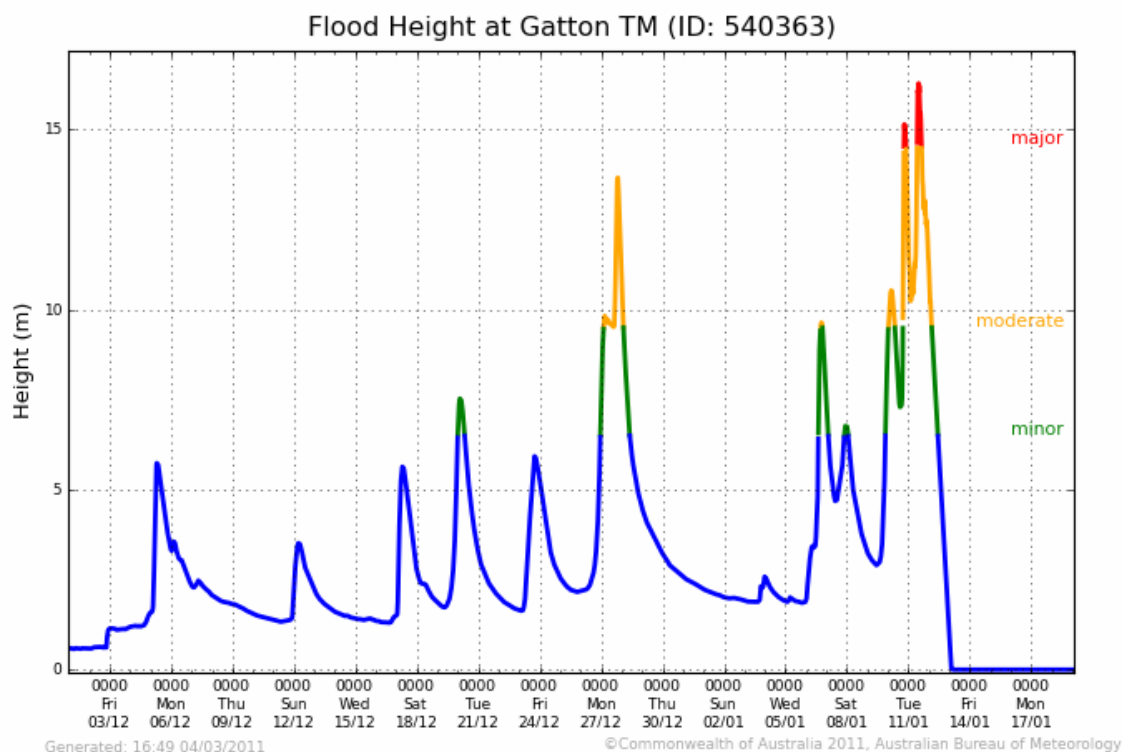


Figure 8. Flood Heights at Gatton TM for 01/12/2010 to 18/01/2011. Reconstructed using post flood surveys. Gatton TM has been used because it provides the best time series data for the December 2010 and January 2011 period.

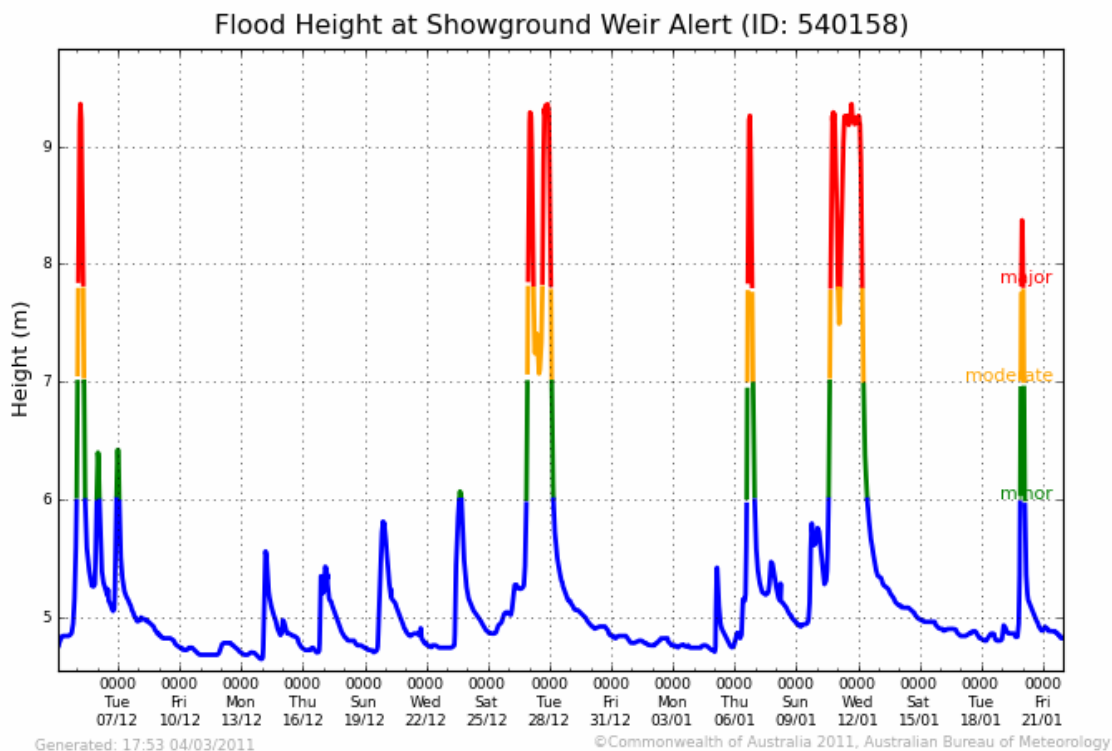


Figure 9. Flood Heights at Showground Weir Alert (Laidley) for 04/12/2010 to 21/01/2011.

Comparison with previous floods

- Record flood peaks were recorded at Helidon, Sandy Creek and Laidley.
- The highest peak of 15.38 metres at Gatton on 11-01-2011 was higher than 1974 peak of 14.63 metres but less than the 16.33 metre peak in 1893.
- The Helidon peak of 13.88 metres is over 6 metres higher than the previous record of 7.55 metres in 1974.
- The site at Sandy Creek Road AL has no historical flood records. The station was opened in 2006.

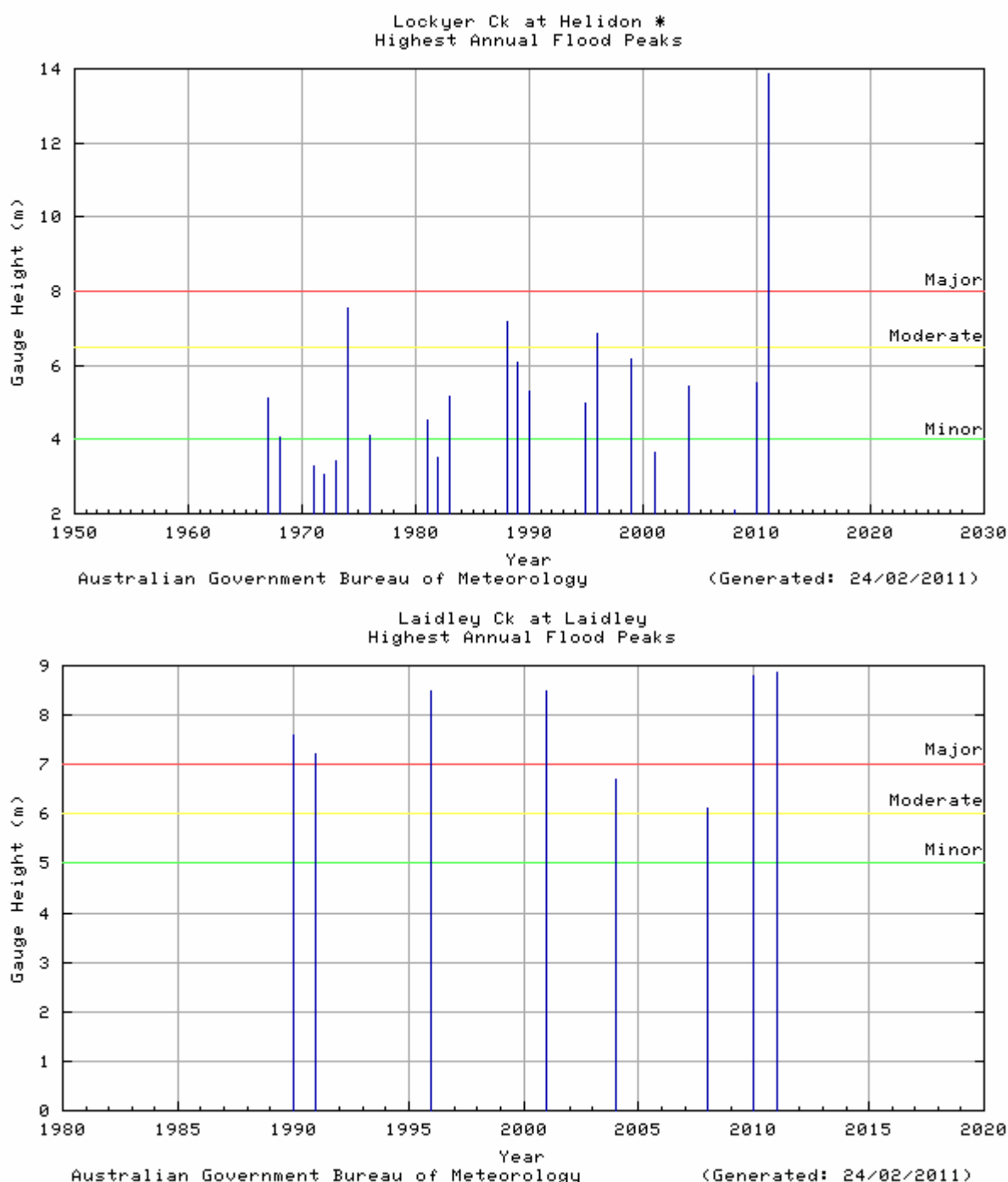


Figure 10. Highest annual flood peaks for Helidon and Laidley.

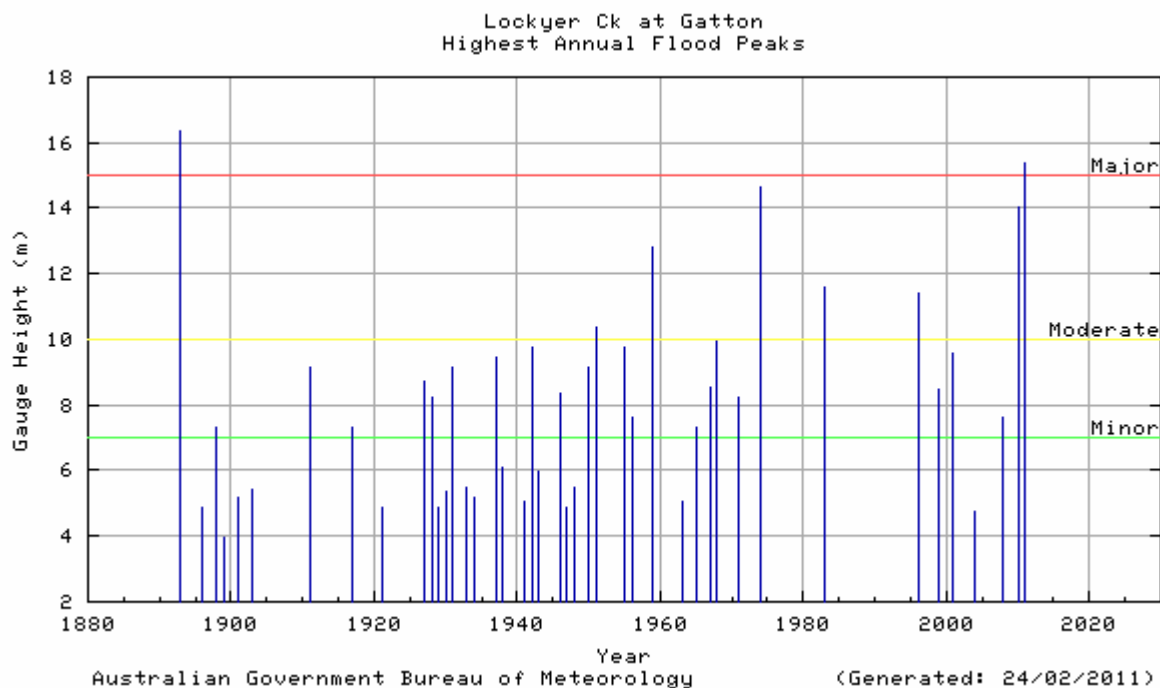


Figure 11. Highest annual flood peaks for Gatton manual gauge. Gatton has been used because it has the longest record.

Warning and Forecast Service

- Significant runoff commenced during early December with the first flood warnings for the Lockyer Creek for the 2010-2011 wet season, issued on 05/12/2010. Further heavy rainfall throughout December saw flood warnings issued between the 20/12/2010 and 22/12/2010 and again from 27/12/2010 to 30/12/2010. Further heavy rainfall in early January again caused creek rises and flood warnings were issued on 06/01/2011. The major flood event of the 10/01/2011 and 11/01/2011 then followed. A summary of the flood warnings for this major flood event is presented in Table 5 below.
- A total of 58 warnings were issued for Lockyer Creek during December 2010 and January 2011 as part of the Lower Brisbane Flood Warning.
- Severe weather warnings for heavy rainfall and flash flooding were issued between 9/01/2011 and 11/01/2011. These are summarised in Table 7.
- On the afternoon of 10/01/2011 an extraordinary "Flash Flood Warning" was created using the Warning for Coastal Streams from Maryborough to the NSW Border. It was retitled and the content changed to become a top priority flash flood warning for Lockyer Creek and broadcasters were requested to use the Standard Emergency Warning Signal (SEWS). A summary of the extraordinary "Flash Flood Warnings" is presented in Table 6.

Table 5. Summary of flood warnings issued that refer to Lockyer Creek. Warnings for Lockyer Creek are included in the Lower Brisbane Warning.

Time of Forecast	Forecast
10:55 PM on Sunday the 9th of January 2011	Lockyer Creek levels in the Helidon area have peaked at about 7 metres with further rises and moderate to major flooding expected downstream to the O'Reilly's area during Monday. Further rainfall is forecast for the region during Monday which may produce higher levels.
12:36 AM on Monday the 10th of January 2011	Moderate to major flood levels have developed in Lockyer Creek upstream of Gatton. Levels in the Helidon area have peaked at about 7 metres and rises continue at Gatton. Rises to major flood levels are expected during

	Monday at Glenore Grove and Lyons Bridge. Further heavy rainfall is forecast for the catchments of the Bremer River and Warrill and Lockyer Creeks during Monday.
10:28 AM on Monday the 10th of January 2011	A major flood peak is currently around Glenore Grove of around 13 metres. Rises to around 14.5 metres are expected at Lyons Bridge later today and around 15 metres at Rifle Range Road. Higher levels are possible as rainfall continues.
4:16 PM on Monday the 10th of January 2011	Further rainfall during Monday has led to renewed rises in the Lockyer Creek catchment. Rainfall is forecast to continue this evening and a return to moderate to major flood levels is expected overnight and during Tuesday.
6:12 PM on Monday the 10th of January 2011	Further rainfall during Monday has led to extreme rises in the Lockyer Creek catchment at Helidon and Laidley Creek at Mulgowie. These will extend to Gatton and areas downstream during the evening and overnight. High level record major flooding is expected in areas downstream of Gatton overnight and during Tuesday.
9:44 PM on Monday the 10th of January 2011	Further rainfall during Monday has led to extreme rises in the Lockyer Creek catchment at Helidon and Gatton and Laidley Creek at Mulgowie. These will extend to Lyons Bridge in the next few hours and areas downstream later Monday and early Tuesday. High level major flooding is expected in areas downstream of Gatton overnight and during Tuesday.
12:06 AM on Tuesday the 11th of January 2011	<p>Further rainfall during Monday has led to extreme rises in the Lockyer Creek catchment and Laidley Creek at Mulgowie. Record flood levels of 18.92 metres were recorded at Gatton this evening before the station failed. This level is well above the previous record peak of 16.33 metres from the February 1893 flood.</p> <p>The main flood waters are currently around Glenore Grove, with strong stream rises at Lyons Bridge expected in the next few hours. The Lockyer Creek at Glenore Grove has reached 14.60 metres at 11:30pm. A peak in the next few hours is expected, with flood levels in excess of 15 metres possible.</p>
3:24 PM on Tuesday the 11th of January 2011	<p>Very heavy rainfall is continuing in the Lockyer Creek catchment and further very fast rises are being observed. Major flooding will continue this evening throughout the catchment. Flood levels at Glenore Grove were at 15.2 metres at 3pm, which is 0.3 metres above the 1974 flood level.</p> <p>The main flood waters in the Lockyer Creek are now arriving at Lyons Bridge and are continuing to increase near record levels.</p>
12:19 AM on Wednesday the 12th of January 2011	<p>Major flooding will continue tonight in the Lockyer Creek catchment. Flood levels at Glenore Grove peaked at 15.2 metres at 3pm, which is 0.3 metres above the 1974 flood level.</p> <p>The Lockyer Creek at Lyons Bridge peaked at 17.25 metres around 6pm Tuesday.</p>

Note: This table does not include all forecasts issued during these flood events.

Table 6. Table of flood warnings showing the use of the Coastal Streams from Maryborough to the NSW Border warning to create a Flash Flood Warning for Lockyer Creek.

Date	Time	Header
Sunday 9 January 2011	2:48 PM	FLOOD WARNING FOR COASTAL STREAMS FROM MARYBOROUGH TO THE NSW BORDER Issued at 2:48 PM on Sunday the 9th of January 2011
Sunday 9 January 2011	7:05 PM	FLOOD WARNING FOR COASTAL STREAMS FROM MARYBOROUGH TO THE NSW BORDER Issued at 7:05 PM on Sunday the 9th of January 2011
Sunday 9 January 2011	11:02 PM	FLOOD WARNING FOR COASTAL STREAMS FROM MARYBOROUGH TO THE NSW BORDER Issued at 11:02 PM on Sunday the 9th of January 2011
Monday 10 January 2011	9:19 AM	FLOOD WARNING FOR COASTAL STREAMS FROM MARYBOROUGH TO THE NSW BORDER Issued at 9:19 AM on Monday the 10th of January 2011
Monday 10 January 2011	5:00 PM	FLASH FLOOD WARNING FOR LOCKYER CREEK Issued at 5:00 PM on Monday the 10th of January 2011 Very heavy rainfalls have been recorded in the Toowoomba area and caused extreme flash flooding. This rainfall is also causing extreme rises in the upper Lockyer Creek at Helidon with very fast and dangerous rises possible downstream at Gatton in the next few hours. Rises will extend downstream of Gatton during tonight.
Monday 10 January 2011	8:37 PM	FLASH FLOOD WARNING FOR LOCKYER CREEK Issued at 8:37 PM on Monday the 10th of January 2011 Very heavy rainfalls have been recorded in the Toowoomba, Crows Nest and Gatton area and have caused extreme rises in the upper Lockyer Creek between Helidon and Gatton with the peak currently arriving in the Glenore Grove area. Record flood levels of 18.92 metres were recorded at Gatton this evening before the station failed. This level is well above the previous record peak of 16.33 metres from the February 1893 flood. Very fast and dangerous rises are occurring downstream of Gatton to Glenore Grove and will extend downstream to Lyons Bridge and O'Reilly Weir during Monday night and Tuesday morning.
Tuesday 11 January 2011	12:19 AM	FLASH FLOOD WARNING FOR LOCKYER CREEK Issued at 12:19 AM on Tuesday the 11th of January 2011
Tuesday 11 January 2011	4:10 AM	FLASH FLOOD WARNING FOR LOCKYER CREEK Issued at 4:10 AM on Tuesday the 11th of January 2011
Tuesday 11 January 2011	7:27 AM	FINAL FLASH FLOOD WARNING FOR LOCKYER CREEK Issued at 7:27 AM on Tuesday the 11th of January 2011

Table 7. Table of Severe Weather warnings that covered the area of Lockyer Creek during the period 9/11/2011 to 11/01/2011.

Date	Time	Header
Sunday 9 January 2011	4:40 am	SEVERE WEATHER WARNING for heavy rainfall leading to localised flash flooding and potentially worsening the existing river flood situation For people in the Southeast Coast district and southern parts of the Wide Bay and Burnett. Issued at 4:40 am on Sunday 9 January 2011
Sunday 9 January 2011	10:55 am	SEVERE WEATHER WARNING for heavy rainfall leading to localised flash flooding and potentially worsening the existing river flood situation For people in the Southeast Coast district, southern parts of the Wide Bay and Burnett, and eastern Darling Downs and Granite Belt District. Issued at 10:55 am on Sunday 9 January 2011
Sunday 9 January 2011	4:55 pm	SEVERE WEATHER WARNING for heavy rainfall leading to localised flash flooding and potentially worsening the existing river flood situation For people in the Southeast Coast district, southern parts of the Wide Bay and Burnett, and eastern Darling Downs and Granite Belt District. Issued at 4:55 pm on Sunday 9 January 2011
Sunday 9 January 2011	11:00 pm	SEVERE WEATHER WARNING for heavy rainfall leading to localised flash flooding and potentially worsening the existing river flood situation For people in the Southeast Coast district, southern parts of the Wide Bay and Burnett district and eastern parts of the Darling Downs and Granite Belt district. Issued at 11:00 pm on Sunday 9 January 2011
Monday 10 January 2011	5:00 am	SEVERE WEATHER WARNING for heavy rainfall leading to localised flash flooding and potentially worsening the existing river flood situation For people in the Southeast Coast district, southern parts of the Wide Bay and Burnett district and eastern parts of the Darling Downs and Granite Belt district. Issued at 5:00 am on Monday 10 January 2011
Monday 10 January 2011	11:00 am	SEVERE WEATHER WARNING for heavy rainfall leading to localised flash flooding and potentially worsening the existing river flood situation For people in the Southeast Coast district, southern parts of the Wide Bay and Burnett district and eastern parts of the Darling Downs and Granite Belt district. Issued at 11:00 am on Monday 10 January 2011
Monday 10 January 2011	11:05 am	SEVERE WEATHER WARNING for heavy rainfall leading to localised flash flooding and potentially worsening the existing river flood situation For people in the Southeast Coast district, southern parts of the Wide Bay and Burnett district and eastern parts of the Darling Downs and Granite Belt district. Issued at 11:05 am on Monday 10 January 2011
Monday 10 January 2011	5:05 pm	SEVERE WEATHER WARNING for heavy rainfall leading to localised flash flooding and potentially worsening the existing river flood situation For people in the Southeast Coast district, far southern parts of the Wide Bay and Burnett district and eastern parts of the Darling Downs and Granite Belt district. Issued at 5:05 pm on Monday 10 January 2011
Monday 10 January 2011	6:30 pm	SEVERE WEATHER WARNING for heavy rainfall leading to localised flash flooding and potentially worsening the existing river flood situation For people in the Southeast Coast, Darling Downs and Granite Belt and eastern parts of the Maranoa and Warrego districts. Issued at 6:30 pm on Monday 10 January 2011
Monday 10 January 2011	7:50 pm	SEVERE WEATHER WARNING for heavy rainfall leading to localised flash flooding and potentially worsening the existing river flood situation For people in the Southeast Coast, Darling Downs and Granite Belt, far southern parts of the Wide Bay and Burnett and eastern parts of the Maranoa and Warrego districts. Issued at 7:50 pm on Monday 10 January 2011
Monday 10 January 2011	11:00 pm	SEVERE WEATHER WARNING for heavy rainfall leading to localised flash flooding and potentially worsening the existing river flood situation For people in the Southeast Coast, Darling Downs and Granite Belt, far southern parts of the Wide Bay and Burnett and eastern parts of the Maranoa and Warrego districts. Issued at 11:00 pm on Monday 10 January 2011
Tuesday	5:05	SEVERE WEATHER WARNING for heavy rainfall leading to localised flash

11 January 2011	am	flooding and potentially worsening the existing river flood situation For people in the Southeast Coast, Darling Downs and Granite Belt, far southern parts of the Wide Bay and Burnett and eastern parts of the Maranoa and Warrego districts. Issued at 5:05 am on Tuesday 11 January 2011
Tuesday 11 January 2011	8:00 am	SEVERE WEATHER WARNING for heavy rainfall leading to localised flash flooding and worsening the existing river flood situation For people in the Southeast Coast District and the Darling Downs and Granite Belt District southeast of Dalby to Goondiwindi. Issued at 8:00 am on Tuesday 11 January 2011
Tuesday 11 January 2011	11:00 am	SEVERE WEATHER WARNING for heavy rainfall leading to flash flooding and worsening the existing river flood situation For people in the Southeast Coast District and the Darling Downs and Granite Belt District southeast of Dalby to Goondiwindi. Issued at 11:00 am on Tuesday 11 January 2011
Tuesday 11 January 2011	2:00 pm	SEVERE WEATHER WARNING for heavy rainfall leading to flash flooding and worsening the existing river flood situation For people in the Southeast Coast District and the Darling Downs and Granite Belt District southeast of Dalby to Goondiwindi. Issued at 2:00 pm on Tuesday 11 January 2011
Tuesday 11 January 2011	5:00 pm	SEVERE WEATHER WARNING for heavy rainfall leading to flash flooding and worsening the existing river flood situation For people in the Southeast Coast District and the Darling Downs and Granite Belt District southeast of Dalby to Goondiwindi. Issued at 5:00 pm on Tuesday 11 January 2011
Tuesday 11 January 2011	10:00 pm	SEVERE WEATHER WARNING for heavy rainfall leading to flash flooding and worsening the existing river flood situation For people in the Southeast Coast District and the Darling Downs and Granite Belt District southeast of Dalby to Goondiwindi. Issued at 5:00 pm on Tuesday 11 January 2011