

Monthly Weather Review

Victoria

September 2009



Australian Government
Bureau of Meteorology

The *Monthly Weather Review - Victoria* is produced twelve times each year by the Australian Bureau of Meteorology's Victoria Climate Services Centre.

It is intended to provide a concise but informative overview of the temperatures, rainfall and significant weather events in Victoria for the month.

To keep the *Monthly Weather Review* as timely as possible, much of the information is based on electronic reports. Although every effort is made to ensure the accuracy of these reports, the results can be considered only preliminary until complete quality control procedures have been carried out. Major discrepancies will be noted in later issues.

We are keen to ensure that the *Monthly Weather Review* is appropriate to the needs of its readers. If you have any comments or suggestions, please do not hesitate to contact us:

By mail

Victoria Climate Services Centre
Bureau of Meteorology
PO Box 1636
Melbourne VIC 3001
AUSTRALIA

By telephone

(03) 9669 4956

By email

climate.vic@bom.gov.au

You may also wish to visit the Bureau's home page, <http://www.bom.gov.au>.

Units of measurement

Except where noted, **temperature** is given in degrees Celsius (°C), **rainfall** in millimetres (mm), and **wind speed** in kilometres per hour (km/h).

Observation times and periods

Each station in Victoria makes its main observation for the day at 9 am local time. At this time, the precipitation over the past 24 hours is determined, and maximum and minimum thermometers are also read and reset. In this publication, the following conventions are used for assigning dates to the observations made:

Maximum temperatures are for the 24 hours *from* 9 am on the date mentioned. They normally occur in the afternoon of that day.

Minimum temperatures are for the 24 hours *to* 9 am on the date mentioned. They normally occur in the early morning of that day.

Daily rainfall is for the 24 hours *to* 9 am on the date mentioned. This means a significant fraction of the rain may have occurred on the previous calendar day.

Monthly rainfall is for the period from 9 am on the last day of the previous month to 9 am on the last day of this month.

Maximum daily wind gusts are in the 24 hours from midnight to midnight.

Climatological values

The climatological averages shown in the text and tables are generally long-term means based on observations from all available years of record, which vary widely from site to site. They are not shown for sites with less than 10 years of record, as they cannot then be calculated reliably. Climatological extremes are generally taken from available observations from all available years of record. The number of years can vary substantially from site to site.

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Cover photograph

A pair of galahs visiting for a spring forecast at the Bureau's Victorian Regional Office in Melbourne. Photograph by Justin Wood, September 2009. Used with permission.

If you have a photo you think would make a good cover for the Monthly Weather Review, please contact us at the address above.

Overview

September 2009 saw above normal rainfall across much of Victoria, in spite of the tropical Pacific Ocean temperatures remaining warmer than average in all of the key El Niño monitoring regions and continuing to exceed thresholds considered typical of an El Niño event. The reason for the above normal rainfall is that unlike previous El Niño events, conditions are also warmer than average in the Coral Sea, off Australia's northern coasts and in the far western Tropical Pacific, and the Southern Oscillation Index is slightly positive (during typical El Niño events, the Southern Oscillation Index is negative).

Extremes in September 2009

Hottest day

(Highest daily maximum temperature)

34.6 °C at Hopetoun Airport and Walpeup Research on the 12th

Warmest days on average

(Highest mean daily maximum temperature)

22.1 °C at Mildura Airport

Coollest days on average

(Lowest mean daily maximum temperature)

3.5 °C at Mount Hotham

Coldest day

(Lowest daily maximum temperature)

-3.4 °C at Mount Hotham on the 26th

Coldest night

(Lowest daily minimum temperature)

-6.2 °C at Mount Hotham on the 27th

Coollest nights on average

(Lowest mean daily minimum temperature)

-1.8 °C at Mount Hotham

Warmest nights on average

(Highest mean daily minimum temperature)

11.4 °C at Gabo Island Lighthouse

Warmest night

(Highest daily minimum temperature)

20.5 °C at Point Hicks (Lighthouse) on the 13th

Wettest overall

(Highest total rainfall)

376.4 mm at Mount Baw Baw

Driest overall

(Lowest total rainfall)

1.2 mm at Le Roy (Taylors Rd Quarry)

Wettest day

(Highest daily rainfall)

94.6 mm at Mount Baw Baw on the 9th

Highest wind gust

146 km/h at Wilsons Promontory Lighthouse on the 26th and 27th

Significant weather

Flooding

21st to 23rd Sept. - A Flood Watch for North East catchments were issued but no flooding eventuated.

25th to 28th Sept. - A Flood Watch for North East issued - minor flooding developed in Mitta Mitta and Goulburn upstream of Seymour

26th to 27th Sept. - Minor Flood Warning for Mitta Mitta River

26th to 30th Sept. - Minor Flood Warning for Goulburn River upstream of Seymour

26th to 28th Sept. - Flood Watch for West Gippsland catchments - minor to moderate flooding developed in Latrobe and minor flooding in Macalister

26th to 28th Sept. - Minor Flood Warning for Macalister River upstream of Lake Glenmaggie

27th Sept. to 5th Oct - Minor to moderate flood warning for Latrobe River

26th to 29th Sept. - Minor Flood Warning for Bunyip River

27th Sept. to 3rd Oct - Minor Flood Warning for Upper Yarra River

In total 16 flood watches and 55 flood warnings have been issued.

High temperatures and dust

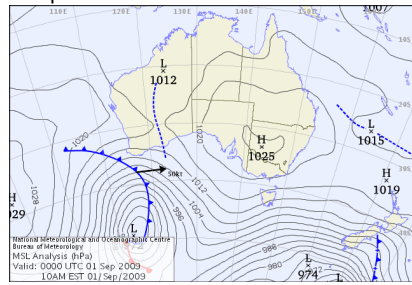
Many high temperature records were broken throughout the North West of the state and north westerly winds caused raised dust to spread on the 12th Sept.

Synoptic summary

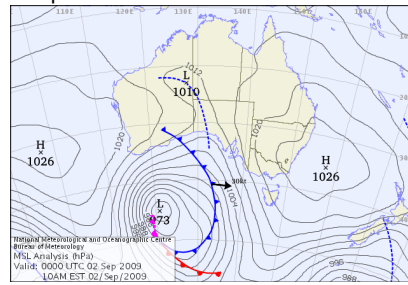
The month began with an anticyclone of 1025 hPa over NSW and light westerly flow across Victoria. The high moved over the Tasman Sea and northerly winds strengthened ahead of an approaching front on the 3rd. The frontal system retreated and a new anticyclone of 1021 hPa had formed over NSW by the 5th. The settled weather was short-lived as another front approached and passed across the State on the 7th. A low formed on this front and developed as it moved over the Tasman Sea on the 9th, but a new high pressure system soon developed over NSW in its wake. This high retreated to the NE to be located over NSW/QLD border and directed extremely warm NW winds across Victoria on the 12th, leading to many September maximum temperature records tumbling. A front crossed the State early on the 13th and a high of 1023 hPa then formed over southern NSW on the 14th. This high moved eastward and was followed by a frontal passage on the 17th, with a small wave low appearing over the Tasman Sea on the 18th. The 19th saw another frontal passage, prior to temporary stabilisation on the 20th, before a very intense cyclonic system moved across Victoria on the 22nd and 23rd. Some stabilisation occurred on the 24th but a new front moved through Victoria on the 25th, and this was followed by development over the Tasman Sea on the 26th and 27th. The month concludes with an anticyclone once again exerting its stabilising influence across Victoria.

Daily mean sea level pressure analyses

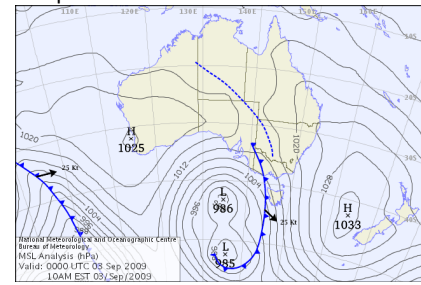
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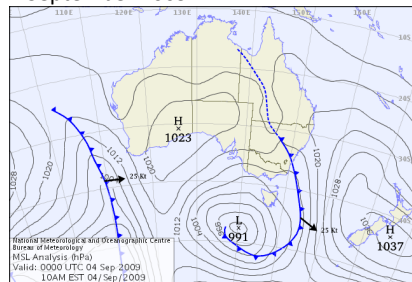
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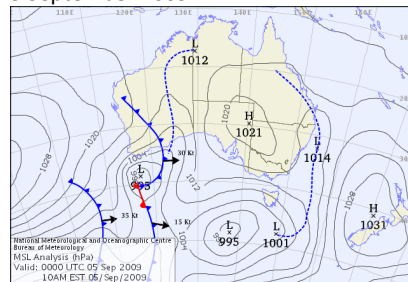
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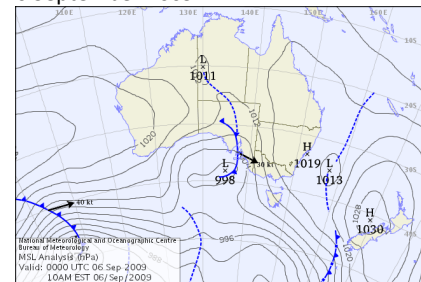
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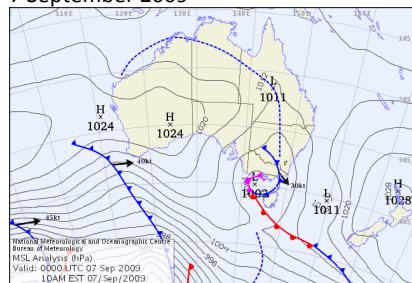
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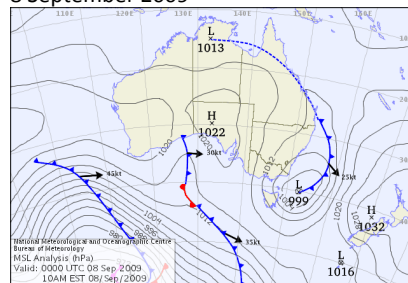
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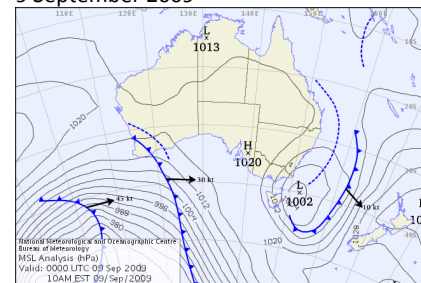
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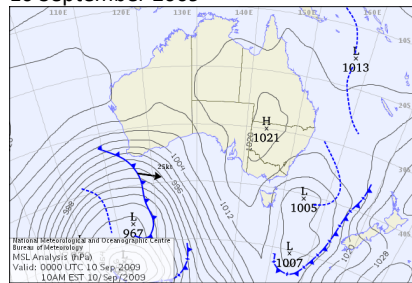
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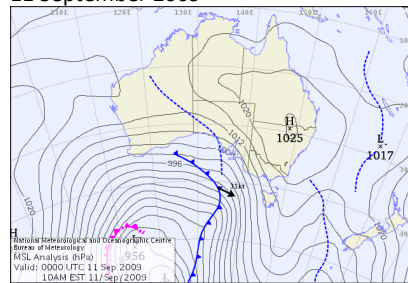
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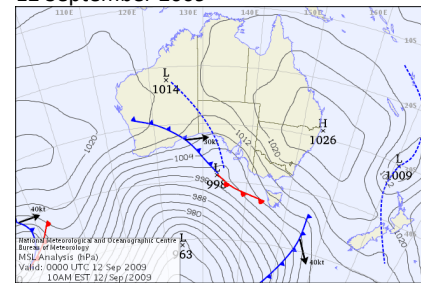
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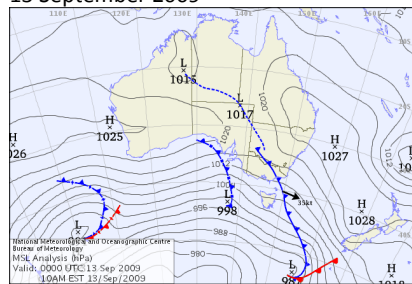
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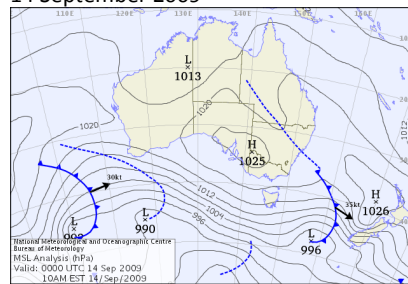
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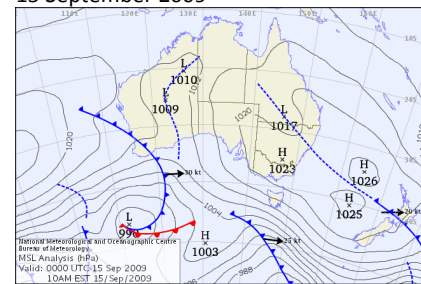
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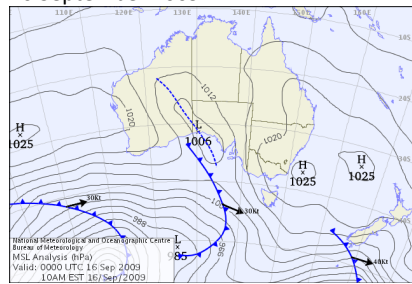
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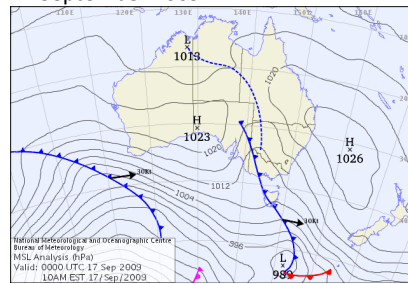
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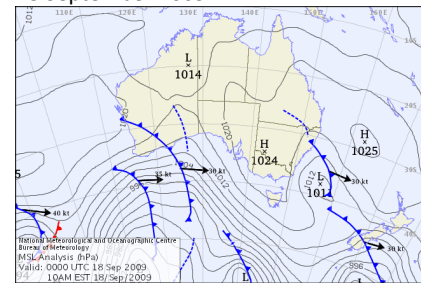
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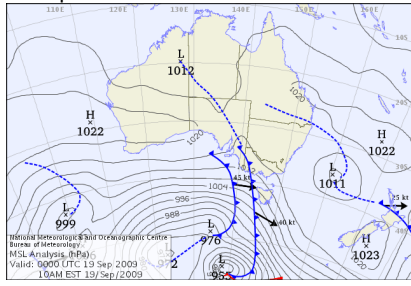
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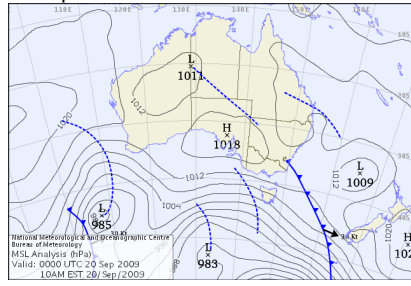
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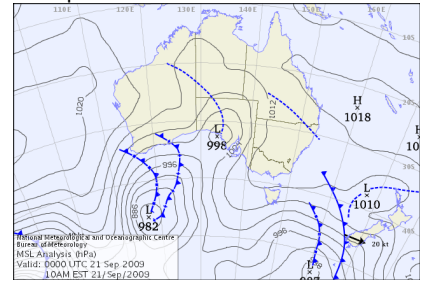
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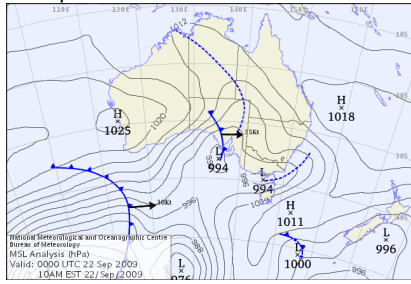
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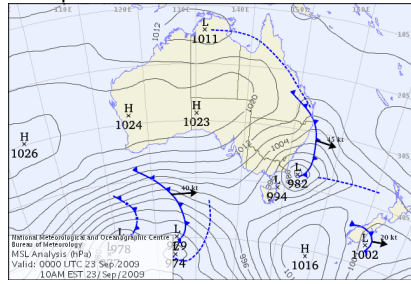
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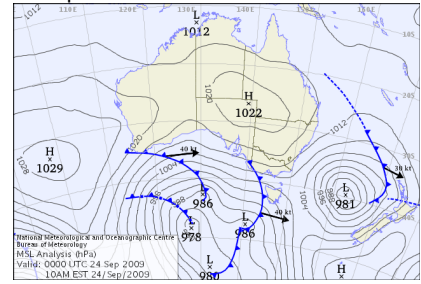
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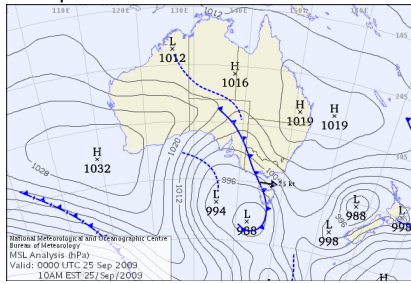
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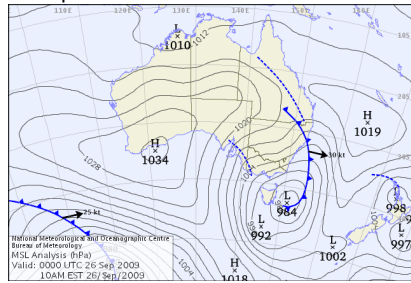
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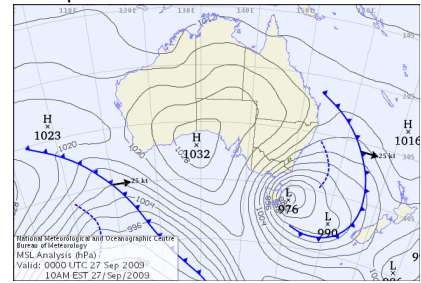
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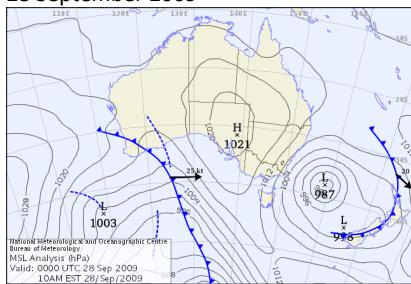
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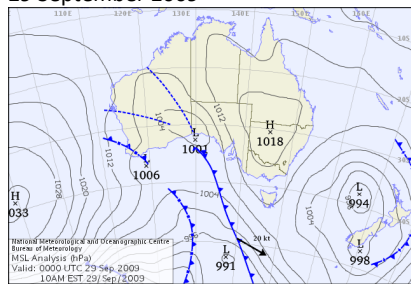
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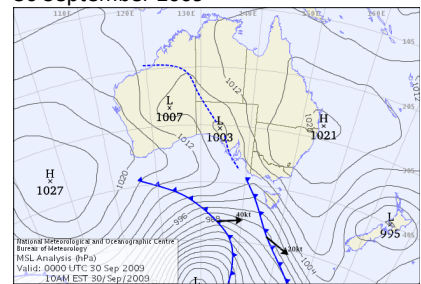
28 September 2009



29 September 2009



30 September 2009



Temperatures

The mean temperature for Victoria in September 2009 was 10.97 °C, which is 0.97 °C above the long-term average.

New temperature records

Record highest September daily maximum temperature			
	New record	Old record	Years of record
Laverton RAAF	31.2 on the 12th	31.1 on the 30th in 1961	66
Kerang	34.0 on the 12th = 34.0 on the 27th in 2008		46
Kyabram DPI	32.2 on the 12th = 32.2 on the 27th in 2008		43
Essendon Airport	30.3 on the 12th	29.2 on the 30th in 1961	40
Melbourne Airport	30.2 on the 12th	29.0 on the 27th in 2008	40
Warracknabeal Museum	33.0 on the 12th	32.0 on the 27th in 2008	37
Bundoora (Latrobe University)	29.2 on the 12th	28.8 on the 19th in 2006	27
Willow Grove (Blue Rock Reservoir)	26.5 on the 12th = 26.5 on the 19th in 2006		20

Highest September mean maximum temperature for at least 20 years			
	Observed this month	Most recent higher	Years since higher
Orbost (Comparison)	19.9	20.7 in 1981	25

Record highest September daily minimum temperature			
	New record	Old record	Years of record
Point Hicks (Lighthouse)	20.5 on the 13th	19.5 on the 25th in 1980	40
Edi Upper	16.6 on the 13th	15.4 on the 16th in 1999	22

Record highest September mean minimum temperature			
	New record	Old record	Years of record
Essendon Airport	8.2	8.0 in 2004	39

Highest September mean minimum temperature for at least 20 years			
	Observed this month	Most recent higher	Years since higher
Laverton RAAF	8.1	8.4 in 1981	28

Maximum temperatures

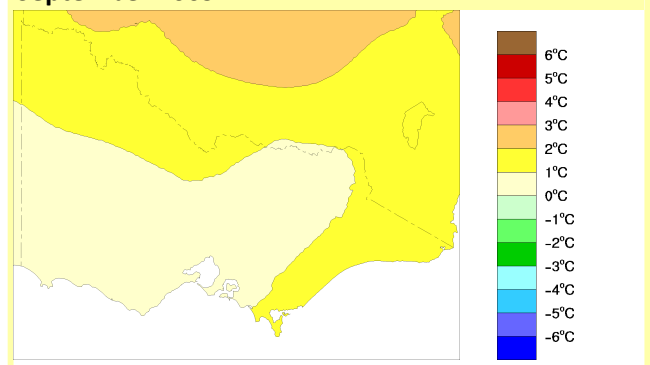
The hottest day was 34.6 °C at Hopetoun Airport on the 12th.

The warmest days on average were 22.1 °C at Mildura Airport, followed by 21.5 °C at Ouyen (Post Office), followed by 21.0 °C at Walpeup Research.

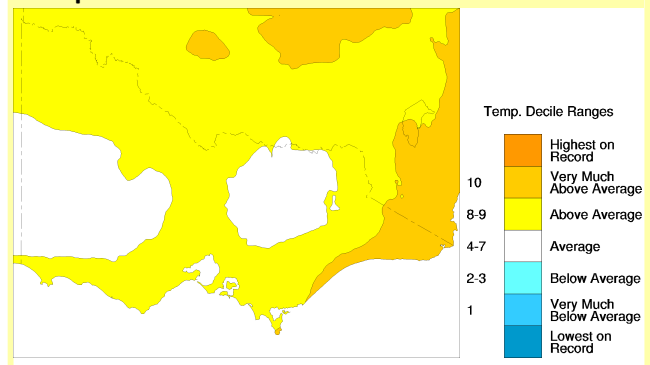
The coolest day was -3.4 °C at Mount Hotham on the 26th.

The coolest days on average were 3.5 °C at Mount Hotham, followed by 5.1 °C at Falls Creek, followed by 5.2 °C at Mount Buller.

Anomalies of mean daily maximum temperature in September 2009



Decile rank of mean daily maximum temperature in September 2009



There could be discrepancies between the values shown on these maps and those at individual locations, as a result of the way the maps are generated.

Minimum temperatures

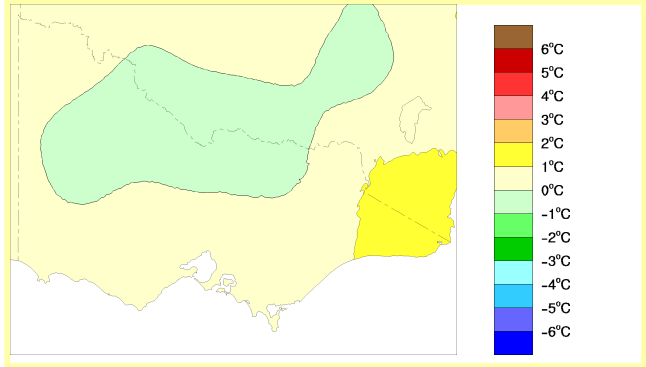
The coldest night was $-6.2\text{ }^{\circ}\text{C}$ at Mount Hotham on the 27th.

The coolest nights on average were $-1.8\text{ }^{\circ}\text{C}$ at Mount Hotham, followed by $-1.0\text{ }^{\circ}\text{C}$ at Mount Buller, followed by $-0.9\text{ }^{\circ}\text{C}$ at Falls Creek.

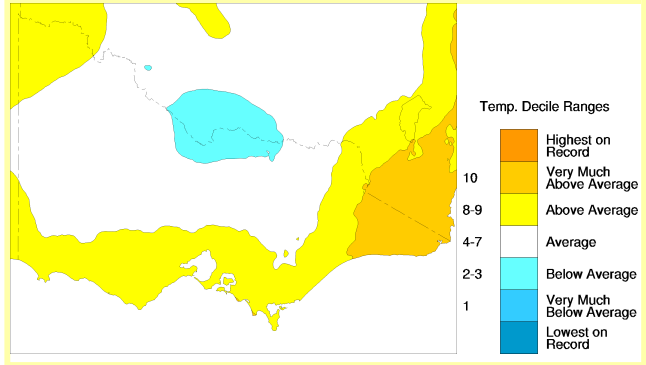
The warmest nights on average were $10.5\text{ }^{\circ}\text{C}$ at Gabo Island Lighthouse, followed by $10.4\text{ }^{\circ}\text{C}$ at Frankston AWS, followed by $10.2\text{ }^{\circ}\text{C}$ at Wilsons Promontory Lighthouse.

The warmest night was $20.5\text{ }^{\circ}\text{C}$ at Point Hicks (Lighthouse) on the 13th.

Anomalies of mean daily minimum temperature in September 2009



Decile rank of mean daily minimum temperature in September 2009



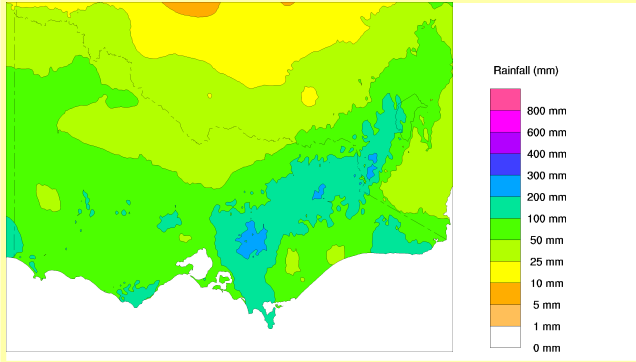
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Rainfall

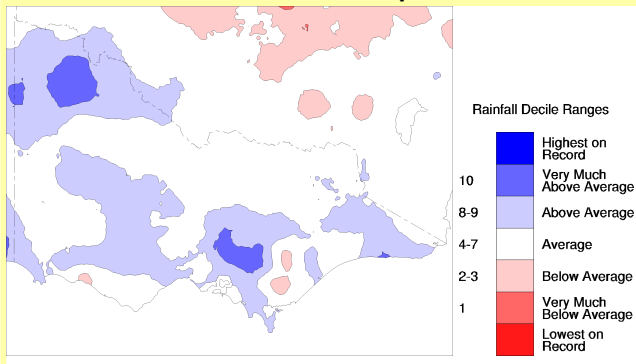
The wettest overall was 376.4 mm at Mount Baw Baw..

The wettest single day 94.6 mm at Mount Baw Baw on the 9th.

Total rainfall in September 2009



Decile rank of total rainfall in September 2009



There could be discrepancies between the values shown on these maps and those at individual locations, as a result of the way the maps are generated.

New rainfall records

Record highest September daily rainfall

	New record	Old record	Years of record
Moorooduc	37.0 on the 27th	34.0 on the 15th in 1993	42
Murrayville (Carina)	46.4 on the 26th	29.6 on the 16th in 1975	42
Tutye (Bunurouk)	32.4 on the 23rd	28.8 on the 25th in 1992	41

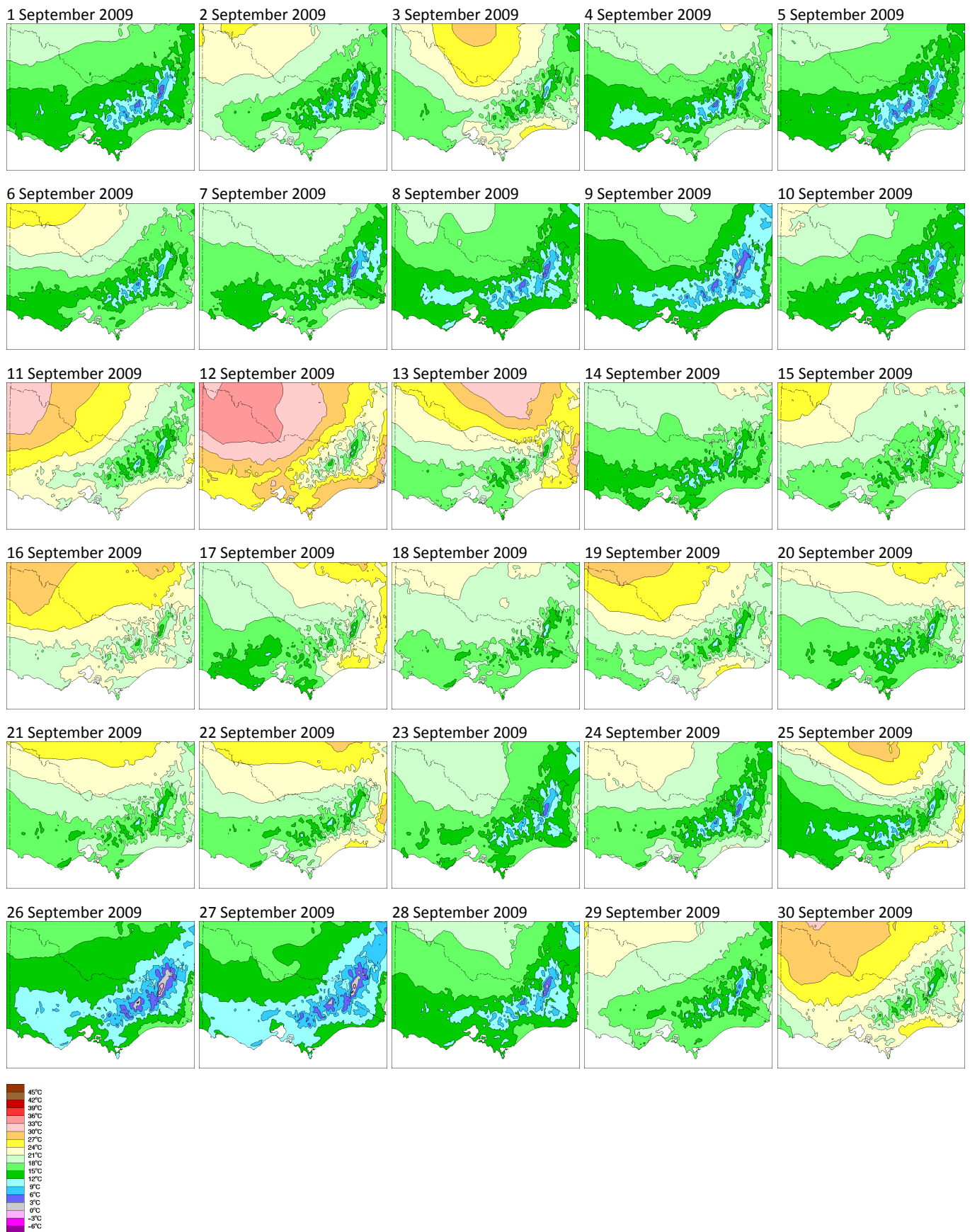
Record lowest September total rainfall

	New record	Old record	Years of record
Sunbury (Salesian College)	9.0	9.2 in 2007	127

Lowest September total rainfall for at least 20 years

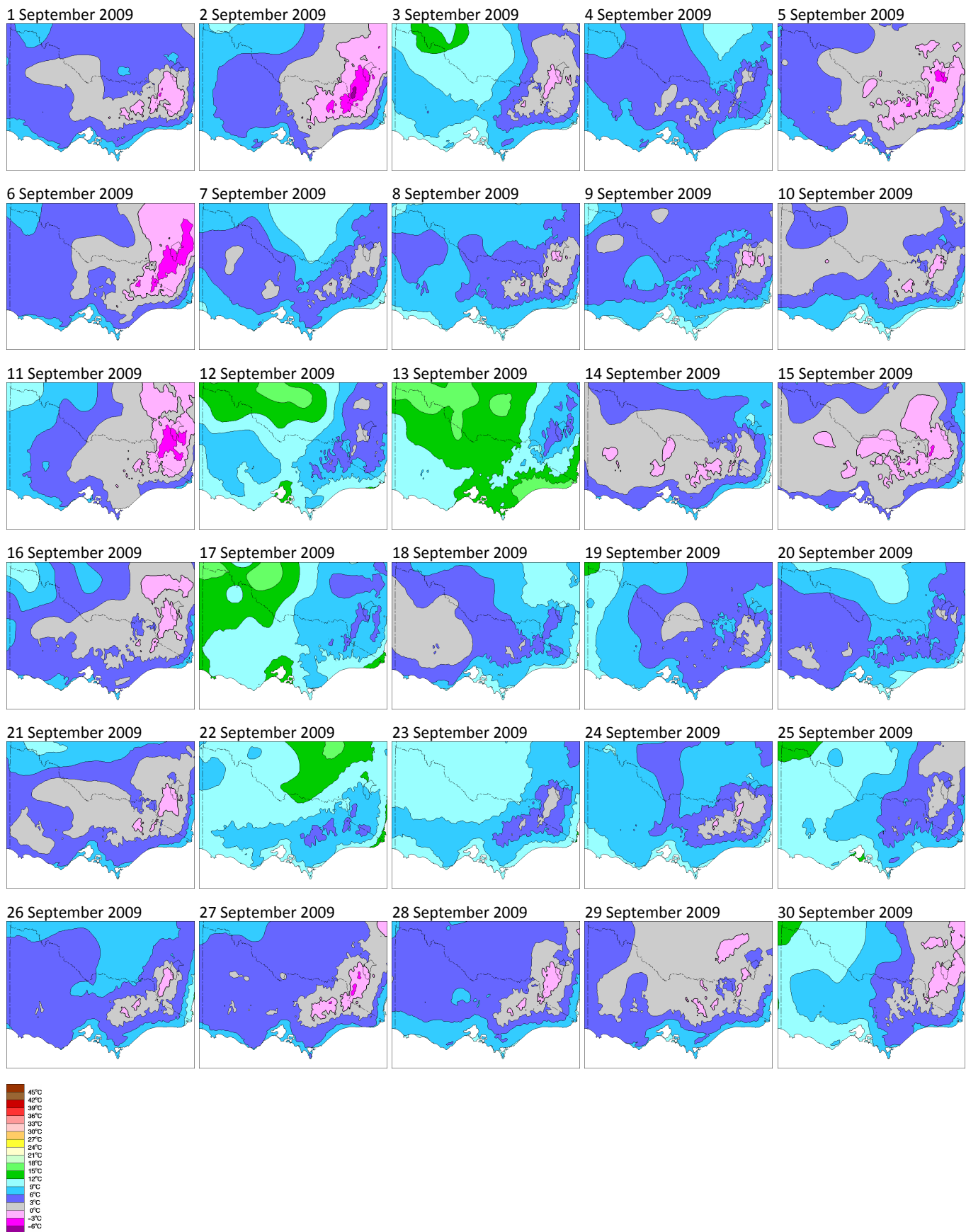
	Observed this month	Most recent lower	Years since lower
Avoca	14.6	9.1 in 1914	25

Daily maximum temperature for September 2009



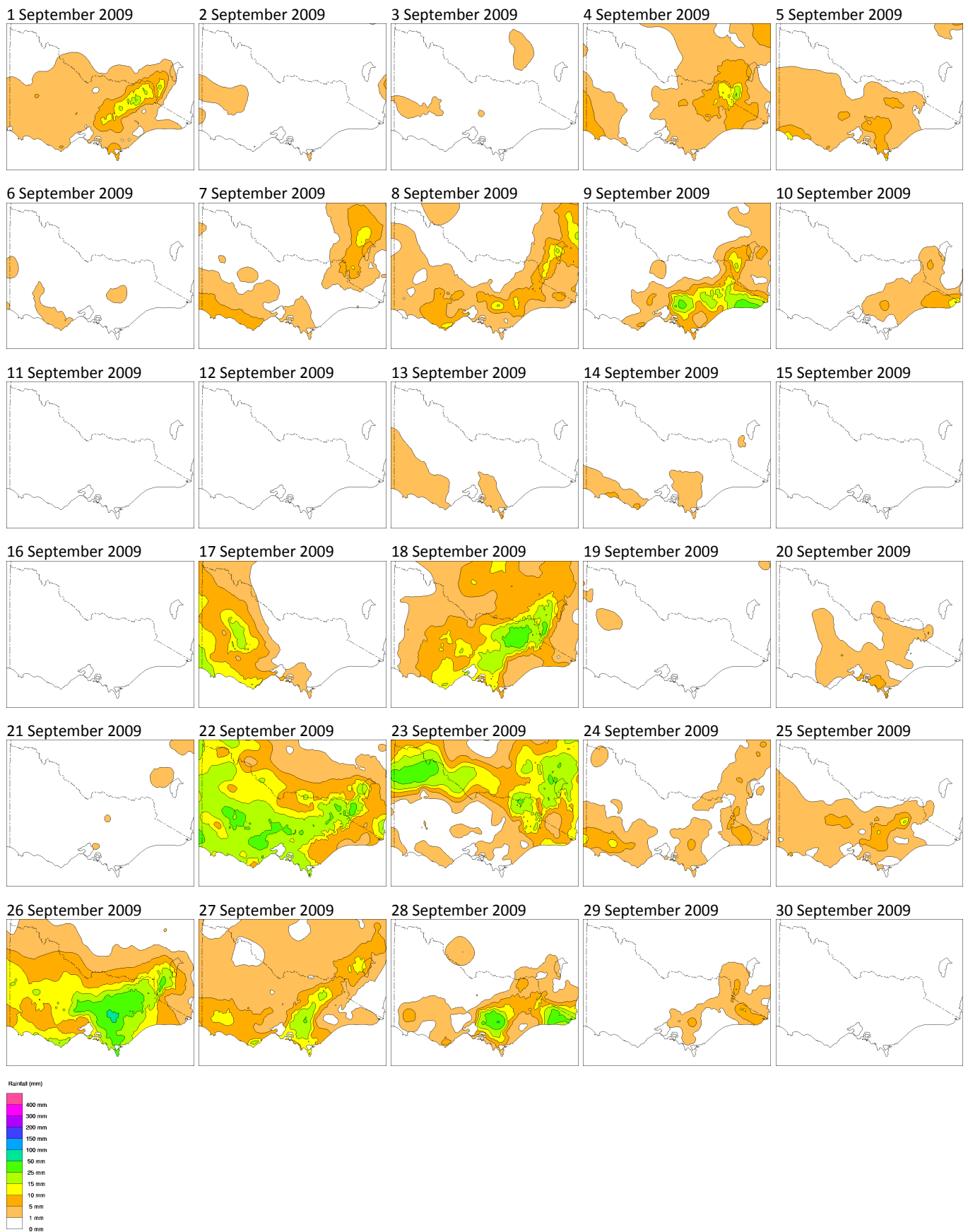
These maps are presented to give a statewide overview of conditions on each day through the month. There could be discrepancies between the values shown on these maps and those at individual locations, as a result of the way the maps are generated.

Daily minimum temperature for September 2009



These maps are presented to give a statewide overview of conditions on each day through the month. There could be discrepancies between the values shown on these maps and those at individual locations, as a result of the way the maps are generated.

Daily rainfall for September 2009



These maps are presented to give a statewide overview of conditions on each day through the month. There could be discrepancies between the values shown on these maps and those at individual locations, as a result of the way the maps are generated.

Summary of observations for Melbourne in September 2009

Observations and climatology are from the city, except for evaporation, sunshine and wind which are from Melbourne Airport

	Observed this month		Climatological value	
Temperature				
Mean daily maximum temperature	18.6 °C		17.2 °C	
Mean daily minimum temperature	9.9 °C		7.9 °C	
Mean temperature	14.3 °C		12.6 °C	
Mean temperature at 9 am	13.3 °C		12.2 °C	
Mean temperature at 3 pm	17.2 °C		16.1 °C	
Highest temperature	29.9 °C	on the 12th	31.4 °C	on the 28th in 1928
Lowest temperature	5.5 °C	on the 15th	-0.5 °C	on the 16th in 1908
Days 30 °C or warmer	0		0.0	
Days 35 °C or warmer	0		0.0	
Nights 5 °C or cooler	0		4.8	
Nights 2 °C or cooler	0		0.5	
Humidity				
Mean relative humidity at 9 am	57 %		67 %	
Mean relative humidity at 3 pm	46 %		53 %	
Pressure				
Mean MSL pressure at 9 am	1013.0 hPa		1017.7 hPa	
Mean MSL pressure at 3 pm	1010.5 hPa		1015.6 hPa	
Wind				
Strongest wind gust	N 100 km/h	on the 11th	N 115 km/h	on the 2nd in 2002
Mean wind speed at 9 am	28 km/h		22 km/h	
Mean wind speed at 3 pm	30 km/h		24 km/h	
Days with strong wind	12		8.9	
Days with gales	3		1.6	
Days with gale-force gusts	13		9.1	
Rainfall				
Total precipitation	67.4 mm		58.0 mm	
Number of rain days	15		14.9	
Wettest day	14.6 mm	on the 22nd	58.7 mm	on the 23rd in 1916
Sunshine				
Mean daily sunshine	6.0 hours		6.3 hours	
Evaporation				
Mean daily evaporation	4.7 mm		4.2 mm	
Phenomena				
Days of thunder	1		1.2	
Days of hail	1		1.1	
Days of frost	0		1.3	
Days of fog	0		1.2	
Days with mist or haze	9		14.0	

Daily and mean maximum temperatures for September 2009

Mean is the average of the daily maximum temperature for September 2009; it is only shown if there are sufficient days available. Anom is the difference between the mean daily maximum temperature for September 2009 and the long-term average maximum temperature for September. Decile is the decile rank of mean daily maximum temperature for September 2009 in the climate record of other September mean daily maximum temperatures; "L" indicates this is the lowest on record, and "H" it is the highest on record. Anomalies and deciles are only shown if there are sufficient years of climate record available. The lowest and highest maximum temperatures for each site for September 2009 are highlighted.

Table with columns for location, Mean, Anom, Decile, and 30 days of daily maximum temperatures. Locations include North Mallee (76), South Mallee (77), North Wimmera (78), South Wimmera (79), Lower North (80), Upper North (81), Lower Northeast (82), Upper Northeast (83), East Gippsland (84), West Gippsland (85), East Central (86), West Central (87), North Central (88), and Western Plains (89).

Daily and mean maximum temperatures for September 2009

Mean is the average of the daily maximum temperature for September 2009; it is only shown if there are sufficient days available. **Anom** is the difference between the mean daily maximum temperature for September 2009 and the long-term average maximum temperature for September. **Decile** is the decile rank of mean daily maximum temperature for September 2009 in the climate record of other September mean daily maximum temperatures; "L" indicates this is the lowest on record, and "H" it is the highest on record. Anomalies and deciles are only shown if there are sufficient years of climate record available. The **lowest** and **highest** maximum temperatures for each site for September 2009 are highlighted.

Casterton Showgrounds	17.0	+0.6	8	14.5	19.5	16.8	13.7	15.3	15.2	16.1	15.0	16.0	15.3	23.6	27.0	17.5	15.0	18.6	18.7	18.2	18.0	16.3	16.1	18.0	16.0	19.5	13.5	12.5	12.9	14.8	19.4	18.8	
Casterton	16.1			14.2	19.3	15.9	13.4	14.6	14.3	15.2	13.4	14.5	14.2	23.5	26.5	16.5	14.2	17.6	18.5	15.1	17.8	17.0	15.3	15.5	17.1	15.2	17.6	13.1	11.8	11.1	13.7	18.3	17.9
Colac (Mount Gellibrand)	14.6			12.9	15.8	16.5	11.9	11.9	13.2	13.5	11.4	11.0	12.3	19.3	24.2	16.4	13.4	14.9	19.8	13.6	14.2	17.6	14.2	14.2	15.4	14.1	15.7	13.0	10.2	8.7	12.1	15.8	20.0
Dartmoor	16.4			14.8	19.8	16.2	13.6	14.0	13.8	15.7	13.9	14.8	15.3	23.7	26.5	16.7	14.5	17.6	18.6	15.4	18.4	17.6	16.0	16.1	16.9	15.4	17.6	14.6	12.6	11.9	14.6	19.5	17.3
Hamilton Airport	15.6	+0.4	7	12.7	17.0	16.0	11.9	13.5	15.0	14.3	12.8	13.8	13.8	21.2	25.5	16.5	14.2	16.6	18.5	13.7	17.2	17.8	15.4	15.6	16.4	14.9	17.4	12.4	11.1	10.3	13.8	17.1	21.0
Mortlake Racecourse	15.8	+0.2	5	14.5	17.2	16.8	12.2	13.4	13.9	14.4	12.7	13.0	13.7	20.9	25.4	17.2	14.8	16.6	18.2	13.9	16.7	17.9	15.4	16.1	16.9	15.2	17.5	14.6	11.5	10.8	12.8	18.2	21.2
Port Fairy AWS	16.9	+0.3	6	15.8	20.1	18.2	13.6	14.9	14.1	14.7	13.8	13.5	14.2	23.4	26.0	18.7	16.3	19.1	19.1	14.2	17.9	18.1	17.3	15.9	17.4	16.0	18.3	16.0	12.8	12.0	14.4	20.5	19.9
Portland (Cashmore Airport)	15.4	+0.2	6	14.1	17.9	16.2	12.4	12.9	12.6	14.0	12.5	13.0	14.3	22.8	25.8	15.6	13.7	16.9	17.9	13.4	17.5	15.5	14.9	15.1	14.8	14.6	15.8	13.9	11.7	11.2	13.5	19.3	16.7
Warrnambool Airport NDB	16.0	0.0	6	14.6	17.4	17.4	13.0	13.8	13.5	14.6	13.1	13.4	13.9	21.8	25.0	17.8	14.8	17.1	18.8	13.6	17.2	17.3	15.2	16.4	16.4	15.6	17.8	14.4	12.5	11.2	13.4	18.7	21.1
Weeaprainah	12.1	+0.5	8	9.7	13.8	14.0	9.7	9.0	10.2	10.2	8.4	8.8	9.5	17.2	22.1	14.0	10.9	13.0	17.0	12.0	14.2	12.5	11.9	13.6	12.1	10.8	12.6	10.8	7.0	6.5	10.0	13.8	17.0

Daily and mean minimum temperatures for September 2009

Mean is the average of the daily minimum temperature for September 2009; it is only shown if there are sufficient days available. Anom is the difference between the mean daily minimum temperature for September 2009 and the long-term average minimum temperature for September. Decile is the decile rank of mean daily minimum temperature for September 2009 in the climate record of other September mean daily minimum temperatures; "L" indicates this is the lowest on record, and "H" it is the highest on record. Anomalies and deciles are only shown if there are sufficient years of climate record available. The lowest and highest minimum temperatures for each site for September 2009 are highlighted.

Table with columns for location, Mean, Anom, Decile, and 30 days of daily minimum temperatures. Rows are grouped by region: North Mallee (76), South Mallee (77), North Wimmera (78), South Wimmera (79), Lower North (80), Upper North (81), Lower Northeast (82), Upper Northeast (83), East Gippsland (84), West Gippsland (85), East Central (86), and North Central (88). Each row lists a site and its corresponding data for the month of September 2009.

Daily and mean minimum temperatures for September 2009

Mean is the average of the daily minimum temperature for September 2009; it is only shown if there are sufficient days available. **Anom** is the difference between the mean daily minimum temperature for September 2009 and the long-term average minimum temperature for September. **Decile** is the decile rank of mean daily minimum temperature for September 2009 in the climate record of other September mean daily minimum temperatures; "L" indicates this is the lowest on record, and "H" it is the highest on record. Anomalies and deciles are only shown if there are sufficient years of climate record available. The **lowest** and **highest** minimum temperatures for each site for September 2009 are highlighted.

Casterton Showgrounds	6.7	+0.3	6	7.2	7.0	9.9	7.9	6.5	3.8	9.0	8.0	6.1	4.1	6.0	10.1	10.4	3.4	-0.2	3.1	11.7	3.0	8.5	2.0	2.2	7.5	9.9	10.3	10.6	5.5	5.0	8.0	2.9	11.0
Casterton	6.5			5.8	6.8	8.6	7.0	6.0	5.0	8.4	7.2	3.7	2.9	6.9	8.3	10.0	2.0	1.5	4.6	11.5	2.9	10.2	2.7	2.3	9.9	8.9	9.4	10.2	5.1	4.6	7.5	3.7	10.4
Colac (Mount Gellibrand)	6.8			4.8	6.3	9.2	5.7	3.6	5.8	6.6	7.4	6.7	6.9	5.4	10.0	10.8	3.5	5.1	7.0	11.0	5.7	8.3	4.2	5.1	8.0	7.5	7.5	9.6	4.4	4.5	6.3	6.5	9.5
Dartmoor	7.1			6.5	5.9	10.1	7.6	6.8	4.8	8.7	9.4	6.0	7.3	6.6	10.3	9.7	2.9	1.0	4.1	12.1	3.7	10.2	3.9	2.9	9.8	9.0	10.5	11.0	5.7	6.0	8.5	3.4	9.7
Hamilton Airport	6.2	+0.5	8	5.1	6.2	9.9	6.5	5.1	5.0	6.5	6.9	6.4	5.0	5.7	9.0	9.8	1.4	1.8	5.6	11.2	3.1	8.1	2.2	1.8	9.4	8.7	8.9	10.3	3.7	4.0	5.6	3.6	10.3
Mortlake Racecourse	6.3	+0.8	9	4.8	5.8	9.9	7.2	3.0	5.8	6.5	9.1	7.5	7.0	5.7	7.2	9.8	2.1	1.5	5.1	11.2	2.2	7.3	2.5	2.1	9.6	8.8	7.5	8.1	4.2	5.8	7.3	3.7	10.6
Port Fairy AWS	8.1	-0.1	5	7.7	5.7	8.5	7.7	6.9	6.8	8.0	10.8	10.9	9.7	7.3	9.9	10.0	4.6	4.4	4.8	11.8	5.9	8.7	5.2	4.7	10.4	11.7	9.7	11.0	5.4	7.8	10.3	5.7	10.6
Portland (Cashmore Airport)	7.7	+0.2	6	6.9	5.7	9.2	7.6	7.3	5.9	7.8	10.1	8.6	7.5	6.9	10.3	9.7	6.0	3.4	5.9	11.9	5.9	8.7	5.5	5.5	9.9	10.6	10.5	10.3	4.6	6.6	8.2	4.8	8.5
Warrnambool Airport NDB	7.0	+0.5	9	5.5	5.7	9.2	7.5	5.5	5.4	6.8	9.7	8.3	7.0	6.1	9.6	10.5	3.1	2.9	5.0	11.1	3.8	7.3	4.0	3.0	9.4	10.1	9.1	10.6	5.0	6.4	8.1	4.4	10.3
Weeaprounah	5.8	+0.3	7	4.2	5.0	7.0	5.2	3.7	5.0	6.0	6.3	5.3	5.7	5.8	8.4	9.1	3.6	4.6	7.0	8.8	5.9	7.3	3.5	5.3	8.0	6.9	6.9	8.5	2.6	3.6	4.5	4.3	7.0

